

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

**ALABAMA POWER COMPANY  
PLANT GASTON  
ASH POND**

**January 31, 2020**

Prepared for

Alabama Power Company  
Birmingham, Alabama

By

Southern Company Services  
Earth Science and Environmental Engineering



### CERTIFICATION STATEMENT

This *Annual Groundwater Monitoring and Corrective Action Report, Alabama Power Company - Plant Gaston Ash Pond* has been prepared in accordance with the United States Environmental Protection Agency's coal combustion residual rule (40 CFR Part 257, Subpart D) and ADEM Admin. Code r. 335-13-15 under the supervision of a licensed professional engineer in the State of Alabama. As such, I certify that the information contained herein is true and accurate to the best of my knowledge.

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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 Gaston 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 Gaston 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.
- The CCR Unit concluded the monitoring period in assessment monitoring and 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, molybdenum, 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                                                    |
| 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"                               |
| NELAP | National Environmental Laboratory Accreditation Program |
| NTU   | nephelometric turbidity unit                            |
| ORP   | oxidation reduction potential                           |
| pCi/L | picocuries per liter                                    |
| PE    | Professional Engineer                                   |
| PG    | Professional Geologist                                  |
| PL    | prediction limits                                       |
| PQL   | practical quantitation limit                            |
| PVC   | polymerizing vinyl chloride                             |
| QA/QC | quality assurance/quality control                       |
| RL    | reporting limit                                         |
| RPD   | relative percent difference                             |
| SM    | Standard Method(s)                                      |
| SSI   | statistically significant increase                      |
| SSL   | statistically significant level                         |
| TAL   | Test America, Inc.                                      |
| TOC   | top of casing                                           |
| TDS   | total dissolved solids                                  |
| USGS  | United States Geological Survey                         |
| UTLs  | 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 Gaston 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 § 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 Plant E.C. Gaston Steam Plant (Plant Gaston) is in Shelby County, Alabama. The physical address is 31972 Alabama Highway 25, Wilsonville, AL 35186. Plant Gaston lies in Section 1, Township 21 South, Range 1 East, Sections 5 and 6, Township 21 South, Range 2 East, and Sections 31 and 32, Township 20 South, Range 2 East data are based on visual inspection of USGS topographic quadrangle maps and GIS maps (USGS, 1980, 1982a, 1982b, 1983).

The Ash Pond is located south-southwest of the main plant along the Coosa River. **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 Gaston's topography is characterized by a flat valley adjacent to the Coosa river. Elevations typically range from 400 to 600 feet above mean sea level (MSL) in the Coosa Valley district of the Valley and Ridge physiographic province. The Coosa Valley extends approximately 20 miles (Sapp and Emplaincourt, 1975). Local topography is characterized by moderate relief with elevations ranging from approximately 395 MSL along the eastern plant boundary to approximately 530 feet MSL at a hilltop in the southwestern portion of the plant. **Figure 2, Site Topographic Map**, provides the topography of the site.

### 2.1.2 Geology and Hydrogeology

Plant Gaston is located in the Coosa Valley district of the Valley and Ridge Physiographic Province of central Alabama. The geologic units on the property have been folded and faulted at various intervals, and several faults consisting of low-to-high angle thrust faults and some normal faults are present. Fault sets trend obliquely to one another in the northeastern portion of the plant, resulting in a series of imbricate thrust slices of Fort Payne chert, Parkwood and Floyd shales, and Newla limestone (Frings, 1980).

The plant is on a portion of the Valley and Ridge province known as the Coosa deformed belt, which is a long, sinuous, structurally complex zone that can be subdivided laterally into three segments by two lateral offsets. (GSA, 2010b) The Coosa deformed belt is situated on the Yellowleaf thrust sheet, which is a shallowly detached structural complex with small-scale, commonly isoclinal parasitic folding (McIntyre, *et al.*, 2010). Two lateral offsets subdivide the belt, the Harpersville offset and the Reeds Mill offset. The

Harpersville offset is located on the southwest end of the Coosa deformed belt and lies just northeast of the plant.

The boundaries of the Coosa deformed belt are delineated by the Coosa synclinorium to the north and the Pell City thrust fault to the south. Most structures in the belt trend northeast-southwest, although a northwest-southeast trend is encountered in the plant area. Imbricate thrust slices of sedimentary Paleozoic rocks comprise the geological material of the belt (Frings, 1981). The area is underlain by a structurally complex Paleozoic sequence of sedimentary rocks that range from Cambrian to Mississippian in age. Carbonate rocks comprise the bulk of the Cambrian and Ordovician rocks, and cherty limestone, sandstone, and shale comprise the Mississippian-age units. Also present in some portions of the plant is a thin unit of Devonian-age sandstone or shale.

Near the Ash Pond, the shallow subsurface bedrock geology is comprised entirely of dolomites of the Knox Group. Boring logs from various on-site investigations indicate that the Ash Pond is underlain by 11 to 63-foot-thick layer of residual clay, mainly formed by the in-situ weathering of the underlying Cambrian-Ordovician-age Knox dolomite. The actual thickness of the natural overburden may be lower than 63 feet, since fill and embankment material were used around the periphery of the Ash Pond. At the site, the Knox dolomite is characterized as a light to medium gray, fine-grained dolostone with bedded chert.

Evidence of faulting was not observed in core samples and no faults have been mapped underneath the Ash Pond. A small splay thrust fault has been mapped in the area (Szabo, 1969, Frings, 1981). This splay fault has been interpreted to cross the river near the location of the coal pile and trends to the northwest approximately 500 to 1,500 feet to the north of the ash pond. Locally, this splay fault marks the transition from the older Knox dolomite to the Pennsylvanian-aged Parkwood Formation.

**Figure 3, Site Geologic Map**, illustrates the surface geology at the site and neighboring areas. **Figure 4a, Geologic Cross-Section A-A'** and **Figure 4b, Geologic Cross-Section B-B'**, provides an illustration of well screen intervals with respect to stratigraphy and elevation at the Site.

### 2.1.3 Uppermost Aquifer

The Valley and Ridge aquifer system, found in the Coosa, Cahaba, Birmingham-Big Canoe, and Murphrees Valleys, includes the Weisner Formation; Shady Dolomite; Conasauga Formation; Copper Ridge and Chepultepec Dolomites; as well as the Longview, Newala, Lenoir, and Little Oak Limestones. In some areas, the Knox Group includes Copper Ridge, Chepultepec, Longview, and Newala united as one group.

This aquifer system includes the Ketona, Brierfield, and Bibb Dolomites in Shelby County. Other rock units of Cambrian to Devonian age are included within the Valley and Ridge aquifer system, due to the fact they do not form effective barriers to ground water movement among permeable units of the system. However, these other units are not significant sources of ground water (Kopaska-Merkel *et al.*, 2005).

At the site, the uppermost aquifer consists of Knox dolomite. Wells were generally screened in fractured or weathered intervals of Knox dolomite, where permeability is enhanced. Depths to these intervals are highly variable at the site and range from 35 to nearly 125 feet below ground surface (BGS) excluding delineation wells.

#### **2.1.4 Flow Interpretation**

The local groundwater flow pattern at the site is generally towards the north-northwest, west, north-northeast, and east. A topographic high directly to the south of the pond forms a localized groundwater divide and provides space for upgradient locations. Groundwater flow in these areas is towards the Plant Gaston rim ditch located along the boundary of the ash pond. Groundwater flow at the site is accomplished via fractured flow and other secondary discontinuities within the rock fabric such as weathered zones and bedding planes.

## **2.2 GROUNDWATER MONITORING SYSTEM**

Pursuant to § 257.91 and ADEM Admin. Code r. 335-13-15-.06(2), Plant Gaston 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, lateral 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.

Knox strata encountered at the site can be relatively impermeable as fracture density can be low or fractures completely healed especially further away from major geologic structures in the vicinity of the site. To better locate wells ERI was utilized to explore for potential preferential groundwater flow pathways in the Knox dolomite at the site and was utilized to identify a subset of groundwater monitoring well locations to the west and east of the Ash Pond. In other areas, modified pump tests were conducted as needed at 10-ft

intervals while drilling and were also utilized to determine which intervals of Knox would produce sufficient groundwater for low-flow sampling.

### **2.2.1 Monitoring Wells**

Historically, the groundwater monitoring network has been comprised of 22 monitoring wells. In 2019, ash pond closure activities necessitated the abandonment of 2 monitoring wells (GN-AP-MW-1 and GN-AP-MW-2) located south west of the Ash Pond. In December 2018 through January 2019 and September 2019, the installation of 12 additional wells and development of 4 wells was accomplished for purposes of horizontal and vertical delineation of site groundwater impacts. 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 Gaston Ash Pond.

#### **2.2.1.1 Upgradient Wells**

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

Monitoring well locations GN-AP-MW-1 through GN-AP-MW-3 serve as upgradient background monitoring locations for the Ash Pond as determined by water level monitoring and potentiometric surface maps constructed for the site.

#### **2.2.1.2 Downgradient Wells**

Monitoring well locations GN-AP-MW-4 through GN-AP-MW-22 are utilized as downgradient locations for the Ash Pond. Downgradient locations are located west, north, and east of the Ash Pond as determined by water level monitoring and potentiometric surface maps constructed for the site.

#### **2.2.1.3 Delineation Wells**

Pursuant to § 257.95(g)(1), ADEM Admin. Code r. 335-13-15-.06(6)(g)2., and AO 18-095-GW additional monitoring wells were installed to characterize the horizontal and vertical extent of groundwater protection standard (GWPS) exceedances identified during assessment monitoring. Six horizontal delineation wells were installed/developed to assess lateral extent of groundwater impact in the direction(s) of groundwater

flow away from the facility. Ten vertical delineation wells were installed/developed to delineate the vertical extent of GWPS exceedances within the uppermost aquifer proximal to the CCR waste boundary. Delineation wells are identified on **Figure 5**. All delineation wells are sampled semi-annually as part of the semi-annual assessment groundwater monitoring program.

An additional phase of delineation was initiated in the latter part of 2019. Four additional vertical delineation wells and one horizontal delineation well were proposed in a plan submitted to the Department in August 2019. To date, all wells have been installed (GN-AP-MW-30H, GN-AP-MW-31V, GN-AP-MW-32V, GN-AP-MW-33V, and GN-AP-MW-34V). A report summarizing findings will be submitted to the Department by March 31, 2020.

#### **2.2.1.4 Monitoring Well Replacement and Abandonment**

In 2019, ash pond closure activities necessitated the abandonment of 2 monitoring wells (GN-AP-MW-1, and GN-AP-MW-2) located south of the Ash Pond. Monitoring wells were abandoned in accordance with the guidelines identified in the ADEM Guidelines for Well Abandonments. The abandonment report and plan to replace these locations are included in **Appendix A, Well Abandonment Report**.

#### **2.2.1.5 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 March 2016 to June 2017. Semi-annual groundwater monitoring was initiated at the Ash Pond in August 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 March 2016 to June 2017. Groundwater sampling for the first detection monitoring event after the background period was performed in August 2017.

Based on results of the 2017 Annual Groundwater and Corrective Action Monitoring Report, 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 April and October of 2018 and April and September-October of 2019.

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

### **2.2.2.2 Historical Groundwater Flow**

Historical potentiometric data from the site indicates that groundwater flow direction have been consistent at the site during the background monitoring period. The local groundwater flow pattern at the site is generally towards the north-northwest, west, north-northeast, and east. A topographic high directly to the south of the pond forms a localized groundwater divide and provides space for upgradient locations.

Groundwater elevations fluctuate in response to rainfall. Seasonal variations of 0.25 to 14 feet are typical at the site. These fluctuations are consistent in response in monitoring wells across the site but vary in magnitude.

### **2.2.3 Groundwater Sampling and Analysis**

As required by § 257.90(e) and ADEM Admin. Code r. 335-13-15-.06(1)(f), the following describes monitoring-related activities performed during the preceding year. The Plant Gaston Ash Pond entered an Assessment Monitoring program pursuant to 40 CFR § 257.95(a) and ADEM Admin. Code r. 335-13-15-.06(6)(a) in January 2018. Statistical evaluations of 2018 assessment monitoring data identified statistically significant levels (SSLs) of Appendix IV constituents above the GWPS and the Site entered into

Assessment of Corrective Measures. Pursuant to § 257.95(g)(1), ADEM Admin. Code r. 335-13-15-.06(6)(g)2., and AO 18-095-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 2019 and September - October 2019. Delineation wells installed at the Site were sampled semi-annually for the first time between December 2018 and January 2019 in order expedite delineation reporting and then moved back into the regular semi-annual sampling schedule during the second semi-annual 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 C, 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 Gaston 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 C**.

#### **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 C**.

#### **2.2.3.5 Laboratory Analysis**

Laboratory analyses was performed by the APC Environmental Laboratory (APCEL) in Calera, Alabama or Eurofins TestAmerica (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 C**.



### 3.0 GROUNDWATER ELEVATIONS

#### 3.1 GROUNDWATER ELEVATIONS AND FLOW

During the April 2019 sampling event, depths to water ranged from 0 to 39.13 feet below top of casing and groundwater elevations ranged from 396.19 to 432.14 feet above mean seal level (ft MSL). During the September 2019 sampling event, depths to water ranged from 0 to 40.4 ft BTOC and groundwater elevations ranged from 395.96 to 429.25 ft MSL. **Figure 6, Potentiometric Surface Contour Map (April 1, 2019)** and **Figure 7, Potentiometric Surface Contour Map (September 16, 2019)** depict groundwater elevations and inferred groundwater flow direction from higher elevation to lower. As shown on **Figures 6 and 7** groundwater generally flows radially away from the site with some flow towards the site coming from the hillside to the south. All available groundwater elevation data recorded since 2016 have been tabulated and included in **Table 3, Groundwater Elevations 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 weathered zones or intervals of more concentrated or unhealed fractures. Therefore, groundwater flow velocity at the site cannot be accurately quantified using existing site data. Slug testing provided horizontal hydraulic conductivities for the uppermost aquifer between  $4.36 \times 10^{-4}$  cm/sec and 0.022 cm/sec with an average of  $6.02 \times 10^{-3}$  cm/sec.

## 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:

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

Where:

RPD = Relative Percent Difference (%)

Conc1 = Higher concentration of the sample or field duplicate

Conc2 = Lower concentration of the sample or field duplicate

Where 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. Similarly, there were no detected constituents in field or equipment blanks at the site and 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

Interwell prediction limits, combined with a 1-of-2 verification strategy, are used to determine whether there has been a statistically significant increase (SSI) over background groundwater quality. 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 the September 2019 data screening evaluation. Time series plots were used to screen proposed background data for suspected outliers, or extreme values that would result in limits that are not conservative from a regulatory perspective. Suspected outliers at all wells for Appendix III parameters are formally tested using Tukey's box plot method and, when identified, flagged in the computer database.

The following adjustments were made:

- No statistical analyses are required on wells and analytes containing 100% non-detects (EPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% 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
- Non-parametric prediction limits are used on data containing greater than 50% non-detects.

#### 4.2.2 Appendix IV Evaluation

When in assessment, 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 2.2.1.4), the GWPS is:

- (1) The maximum contaminant level (MCL) established under 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 and September - October were statistically analyzed in accordance with the PE-certified Statistical Analysis Plan (October 2017) and updated in September 2019 data screening evaluation performed by Groundwater Stats Consulting. 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 D, Statistical Analysis**, 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 D, Statistical Analysis**.

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

- GN-AP-MW-5: Molybdenum
- GN-AP-MW-16: Lithium, Molybdenum
- GN-AP-MW-17: Arsenic, Lithium, Molybdenum
- GN-AP-MW-20: Combined Radium 226+228, Lithium, Molybdenum

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

Limited groundwater analytical data 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:

- GN-AP-MW-16V: Lithium, Molybdenum
- GN-AP-MW-17SV: Lithium, Molybdenum

- GN-AP-MW-17V: Lithium, Molybdenum
- GN-AP-MW-20SV: Molybdenum
- GN-AP-MW-20V: Lithium, Molybdenum
- GN-AP-MW-28H: Lithium, Molybdenum
- GN-AP-MW-29H: Combined Radium 226+228, Lithium, Molybdenum

Details regarding the installation and sampling of these wells, and future proposed actions as a result of these exceedances, were submitted to the Department in a Groundwater Investigation Report on May 13, 2019. **Table 7 Second Semi-Annual Monitoring Event Analytical Summary**, provides a summary of all detected constituents for the second semi-annual sampling event.

To address SSLs at the site an ACM was prepared to evaluate potential groundwater corrective measures for the occurrence of arsenic, molybdenum, and lithium in groundwater at the site in accordance with § 257.96, ADEM Admin. Code r. 335-13-15-.06(7), and ADEM Administrative Order AO 18-095-GW. The ACM was submitted to the Department and placed in the operating record on June 12, 2019.

## **5.0 MONITORING PROGRAM STATUS**

The site is currently in assessment monitoring and evaluating groundwater corrective action alternatives. In accordance with § 257.94(e) and ADEM Admin. Code r. 335-13-15-.06(5)(e), APC implemented assessment monitoring in January 2018. SSIs of Appendix III and SSLs of Appendix IV parameters were identified at the Ash Pond during sampling events conducted in 2019. 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 18-095-GW.

## 6.0 SUMMARY AND CONCLUSIONS

Semi-annual assessment monitoring events took place in April and September - October 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. 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:

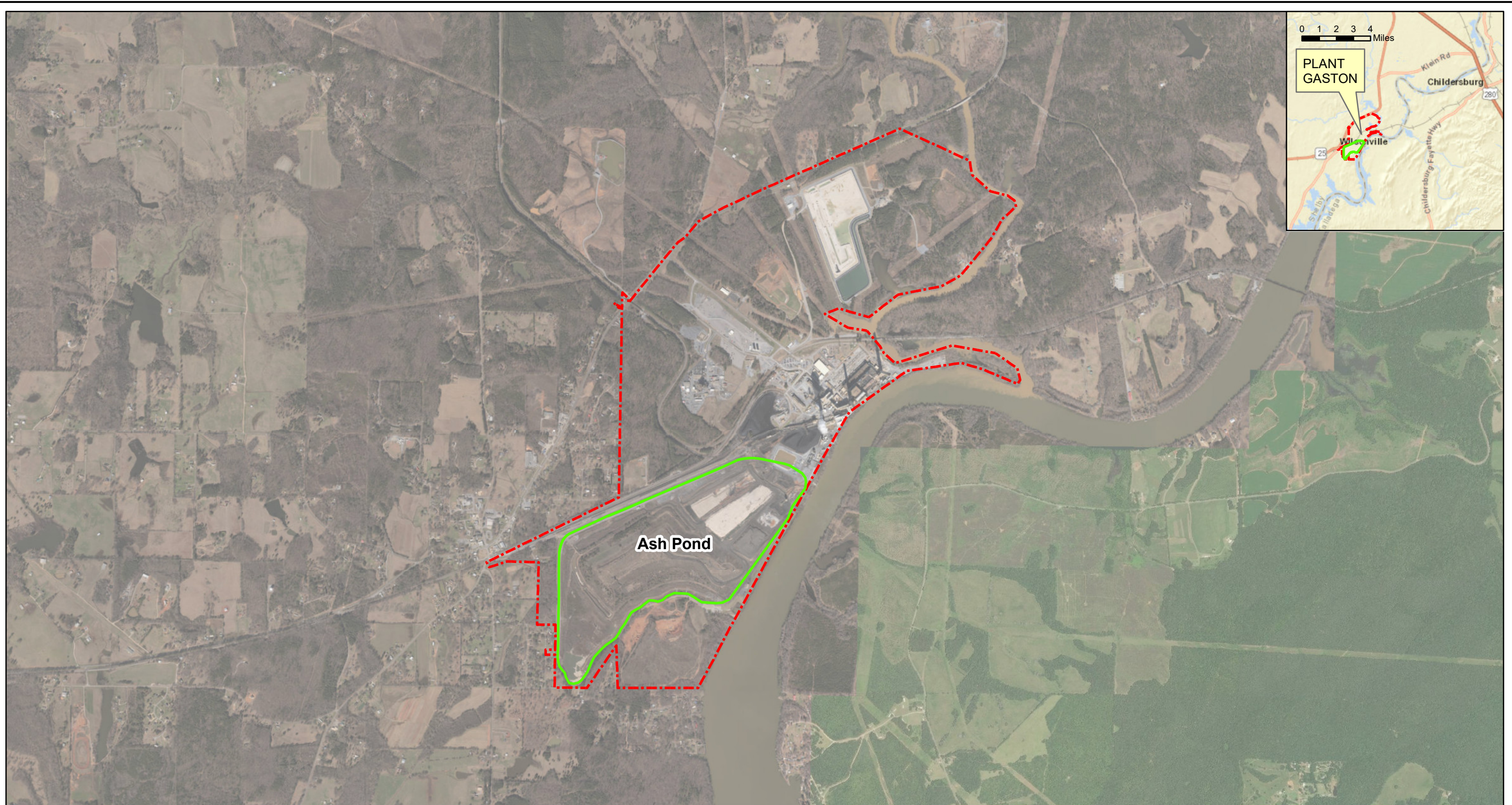
- Installation, sampling, and analyses of additional (Phase II) delineation wells,
- Collect additional data to further evaluate remedies selected as feasible for the remediation of arsenic, molybdenum, and lithium as described in the ACM; and
- Conduct the first semi-annual assessment monitoring event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



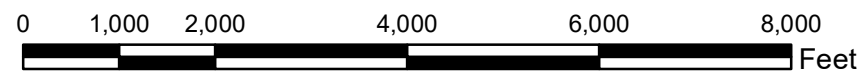
## 7.0 REFERENCES

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# Figures



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

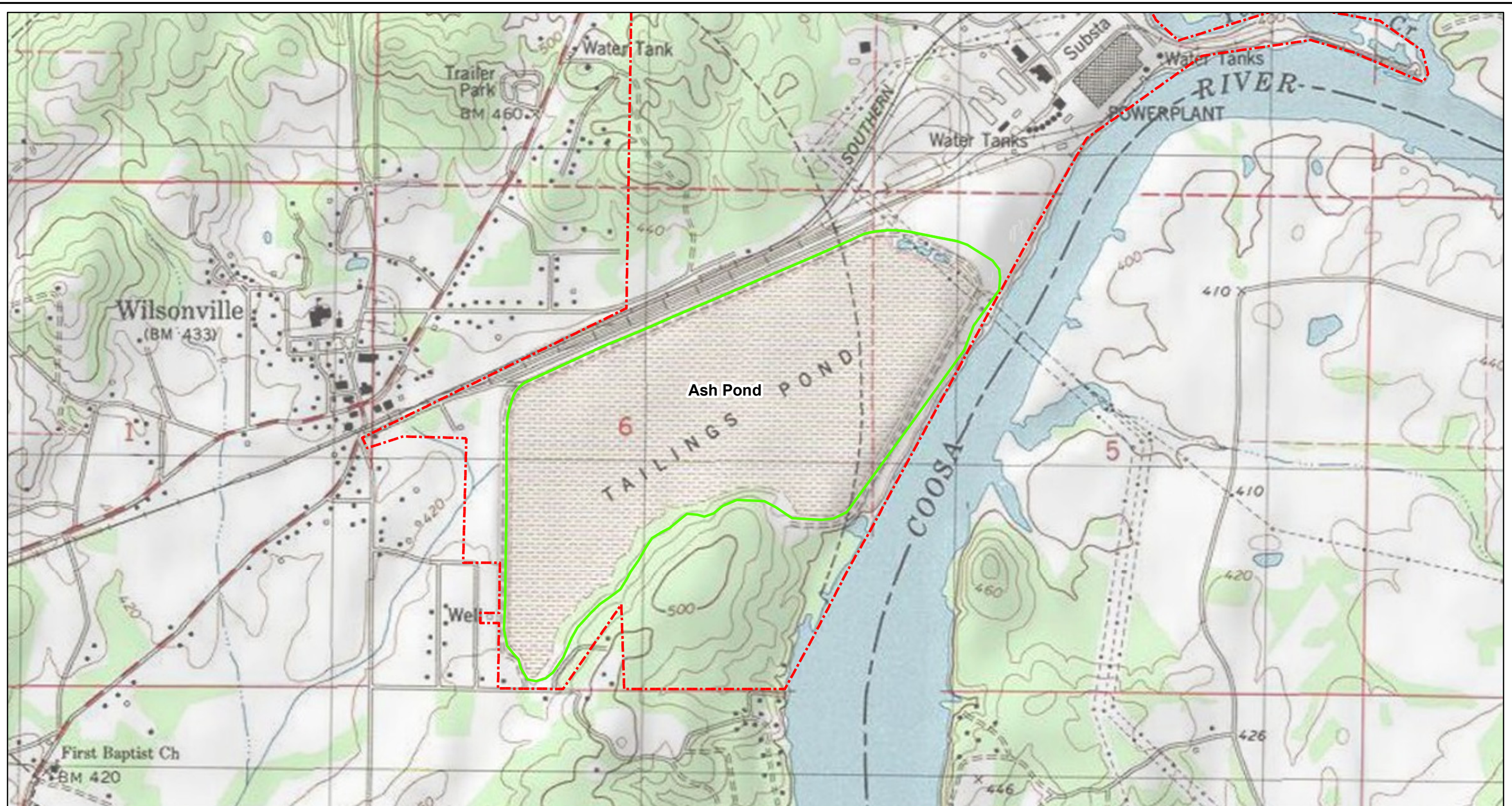


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| CHECKED BY | GBD       |

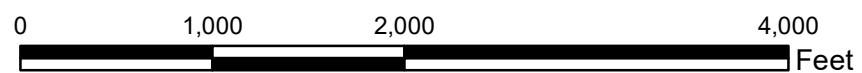
DRAWING TITLE  
**SITE LOCATION MAP  
 PLANT GASTON ASH POND**

FIGURE NO  
**FIGURE 1**



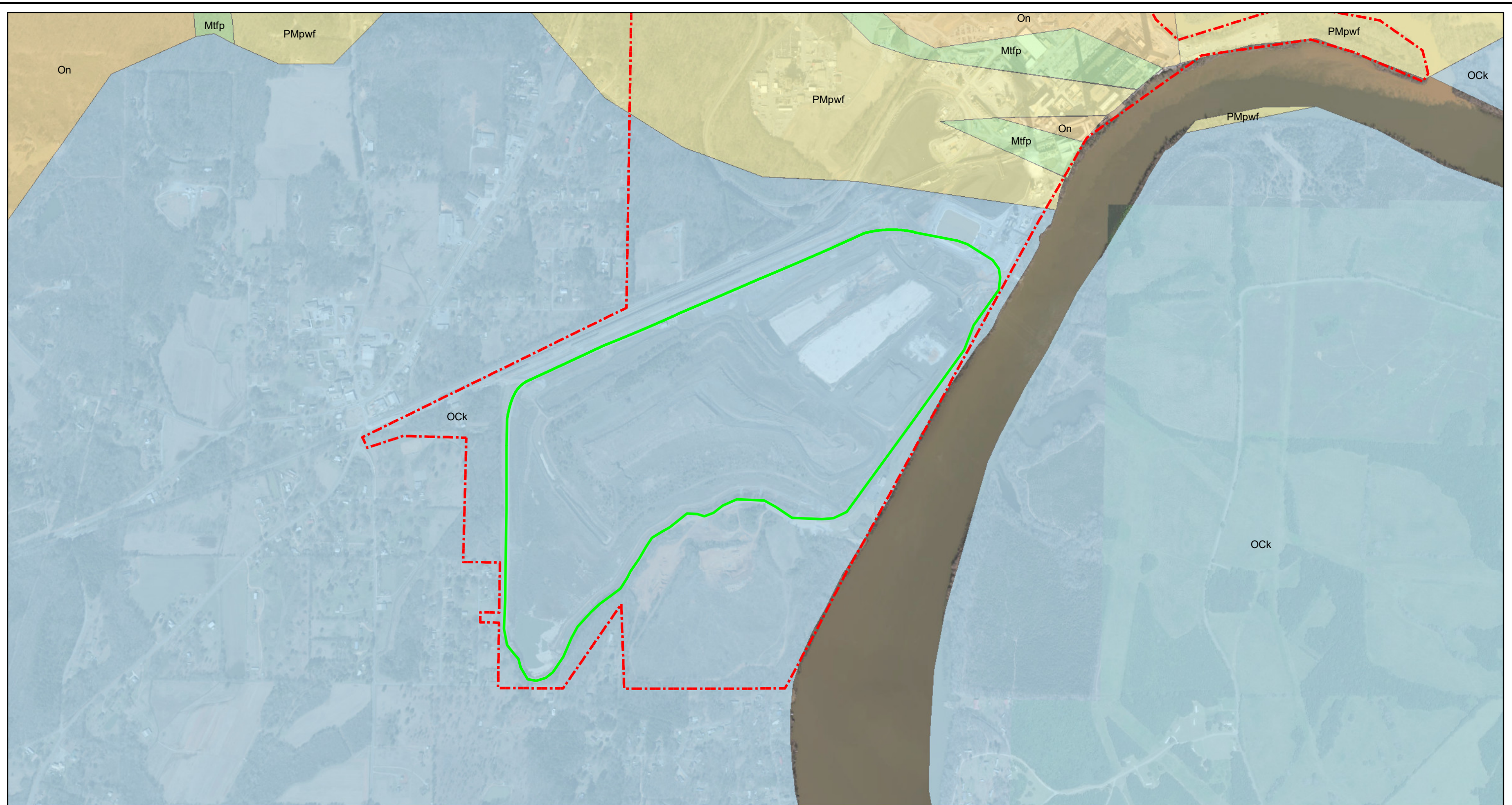


- Legend**
- Ash Pond Boundary
  - Property Boundary (Approximate)



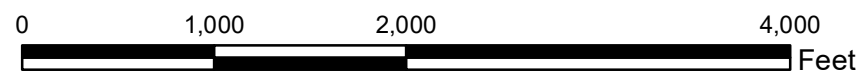
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| DRAWN BY   | KAR       |
| CHECKED BY | GBD       |

|                                               |                 |
|-----------------------------------------------|-----------------|
| DRAWING TITLE                                 |                 |
| SITE TOPOGRAPHIC MAP<br>PLANT GASTON ASH POND |                 |
| FIGURE NO                                     | <b>FIGURE 2</b> |
| Southern Company                              |                 |



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

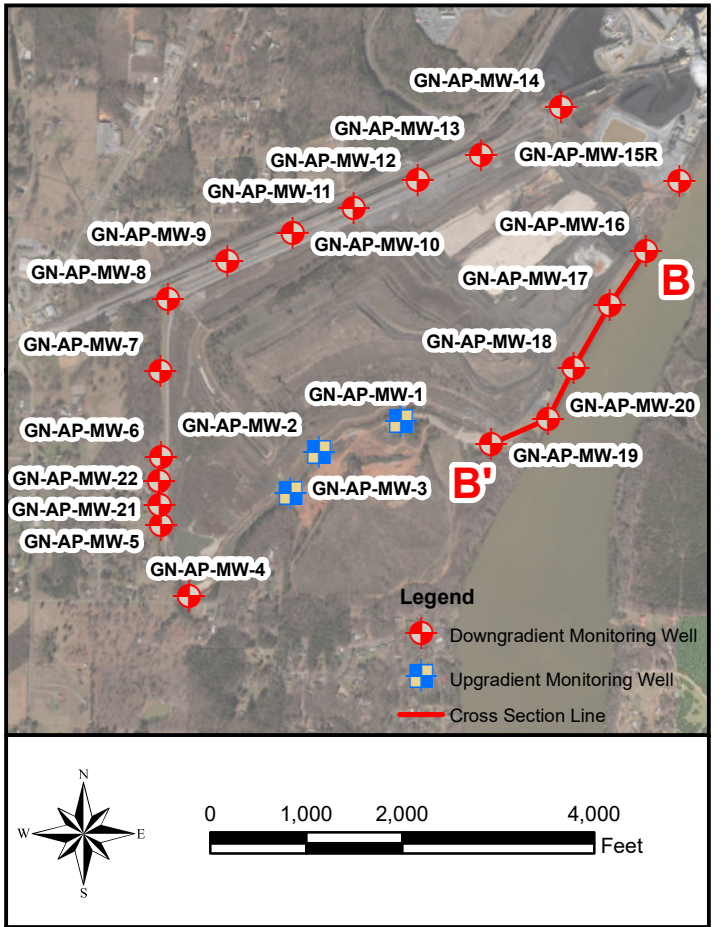
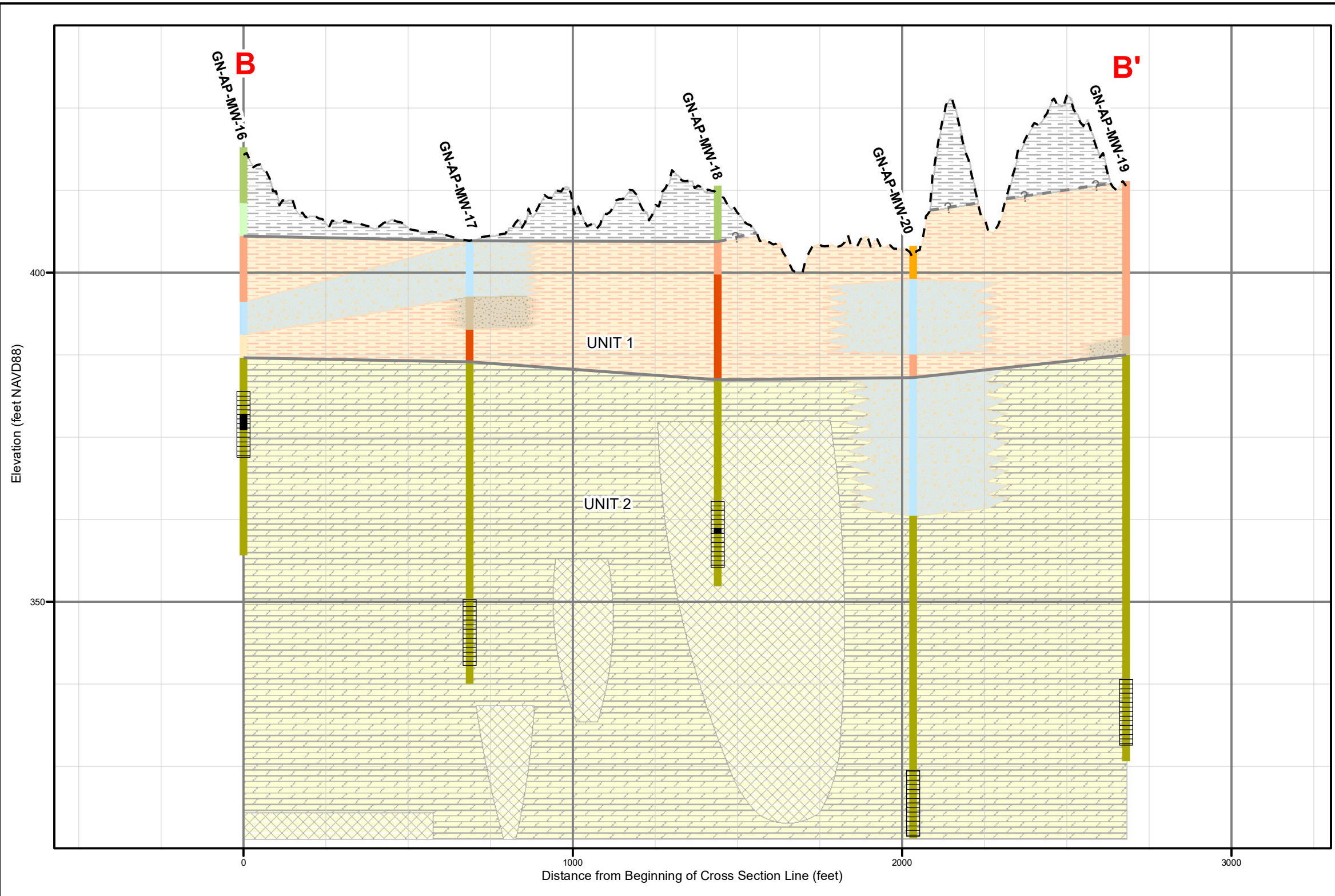
- Geologic Units**
- Knox Group undifferentiated (OCK)
  - Newala Limestone (On)
  - Parkwood Formation and Floyd Shale undifferentiated (PMpwf)
  - Tuscumbia Limestone and Fort Payne Chert undifferentiated (Mtfp)



|            |           |
|------------|-----------|
| SCALE      | 1:12000   |
| DATE       | 1/14/2020 |
| DRAWN BY   | KWR       |
| CHECKED BY | GBD       |

|                                            |                 |
|--------------------------------------------|-----------------|
| DRAWING TITLE                              |                 |
| SITE GEOLOGIC MAP<br>PLANT GASTON ASH POND |                 |
| FIGURE NO                                  | <b>FIGURE 3</b> |
| Southern Company                           |                 |





|                   |                                                                               |                                                                    |                                 |                                                                                 |                   |                                                                      |                  |
|-------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------|---------------------------------------------------------------------------------|-------------------|----------------------------------------------------------------------|------------------|
| <b>Legend</b><br> | <b>Borehole Descriptions</b>                                                  |                                                                    | <b>Geologic Units</b>           |                                                                                 | SCALE<br>As Shown | DRAWING TITLE                                                        |                  |
|                   | Topsoil<br>Fat Clay<br>Lean Clay<br>Lean Clay with Silty Gravel<br>Silty Clay | Silt<br>Clayey Sand<br>Clayey Gravel<br>Dolostone<br>Discontinuity | Fill<br>Clays<br>Silts<br>Sands | Clayey Gravel<br>Dolostone<br>Weathered or More Fractured Zone<br>Discontinuity | DATE<br>1/14/2020 | <b>GEOLOGIC CROSS SECTION B - B'</b><br><b>PLANT GASTON ASH POND</b> |                  |
|                   |                                                                               |                                                                    |                                 |                                                                                 | DRAWN BY<br>KWR   |                                                                      |                  |
|                   |                                                                               |                                                                    |                                 |                                                                                 | CHECKED BY<br>GBD | <b>FIGURE 4b</b>                                                     | Southern Company |



**Legend**

- ◆ Downgradient Monitoring Well
- Upgradient Monitoring Well
- Horizontal Delineation
- ⊗ Vertical Delineation
- Ash Pond Boundary
- Property Boundary (Approximate)



SCALE 1:9000

DATE 1/14/2020

DRAWN BY KAR

CHECKED BY GBD

DRAWING TITLE

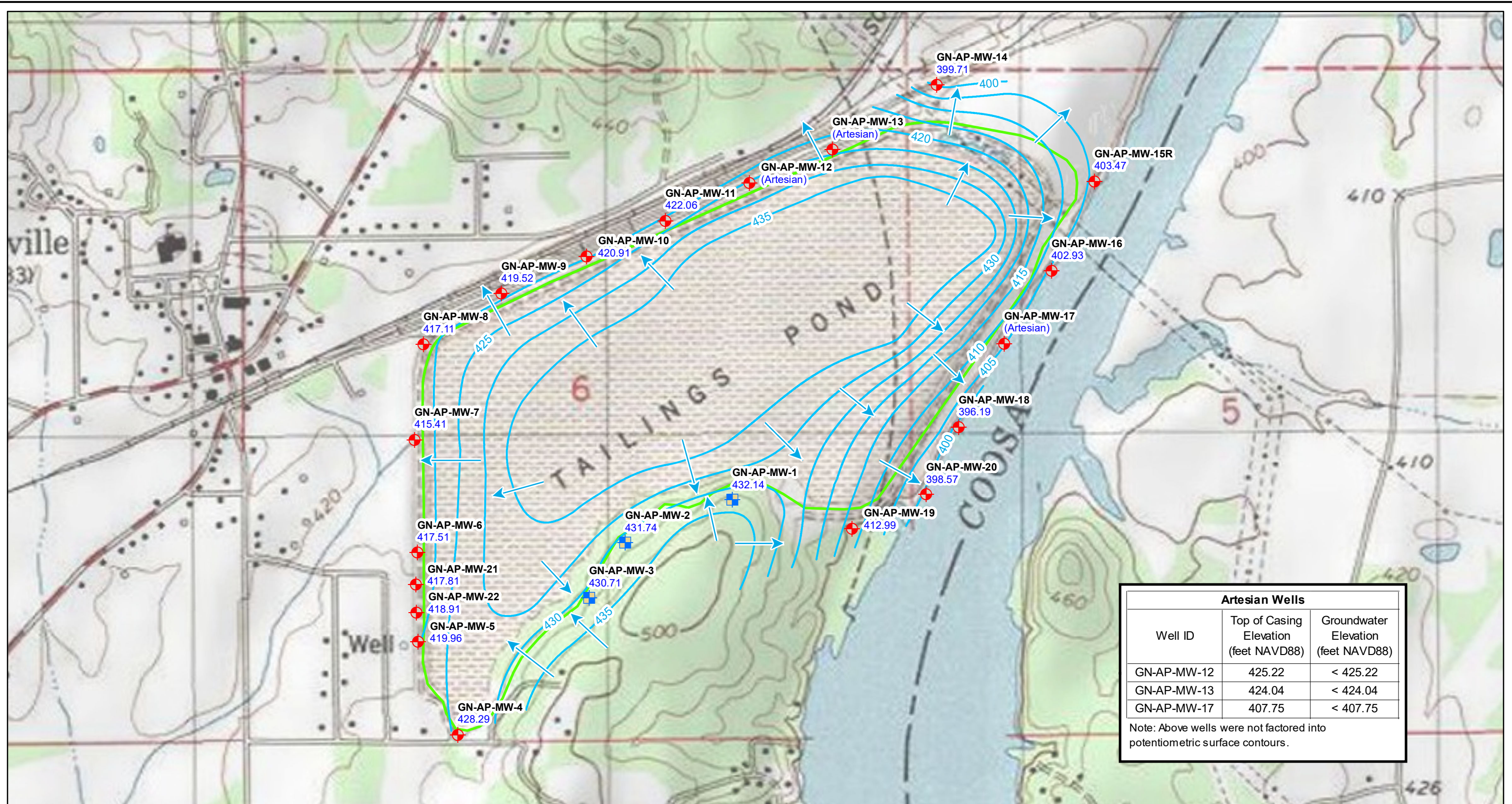
**MONITORING WELL LOCATION MAP  
PLANT GASTON ASH POND**

FIGURE NO

**FIGURE 5**







| Artesian Wells |                                       |                                     |
|----------------|---------------------------------------|-------------------------------------|
| Well ID        | Top of Casing Elevation (feet NAVD88) | Groundwater Elevation (feet NAVD88) |
| GN-AP-MW-12    | 425.22                                | < 425.22                            |
| GN-AP-MW-13    | 424.04                                | < 424.04                            |
| GN-AP-MW-17    | 407.75                                | < 407.75                            |

Note: Above wells were not factored into potentiometric surface contours.

**Legend**

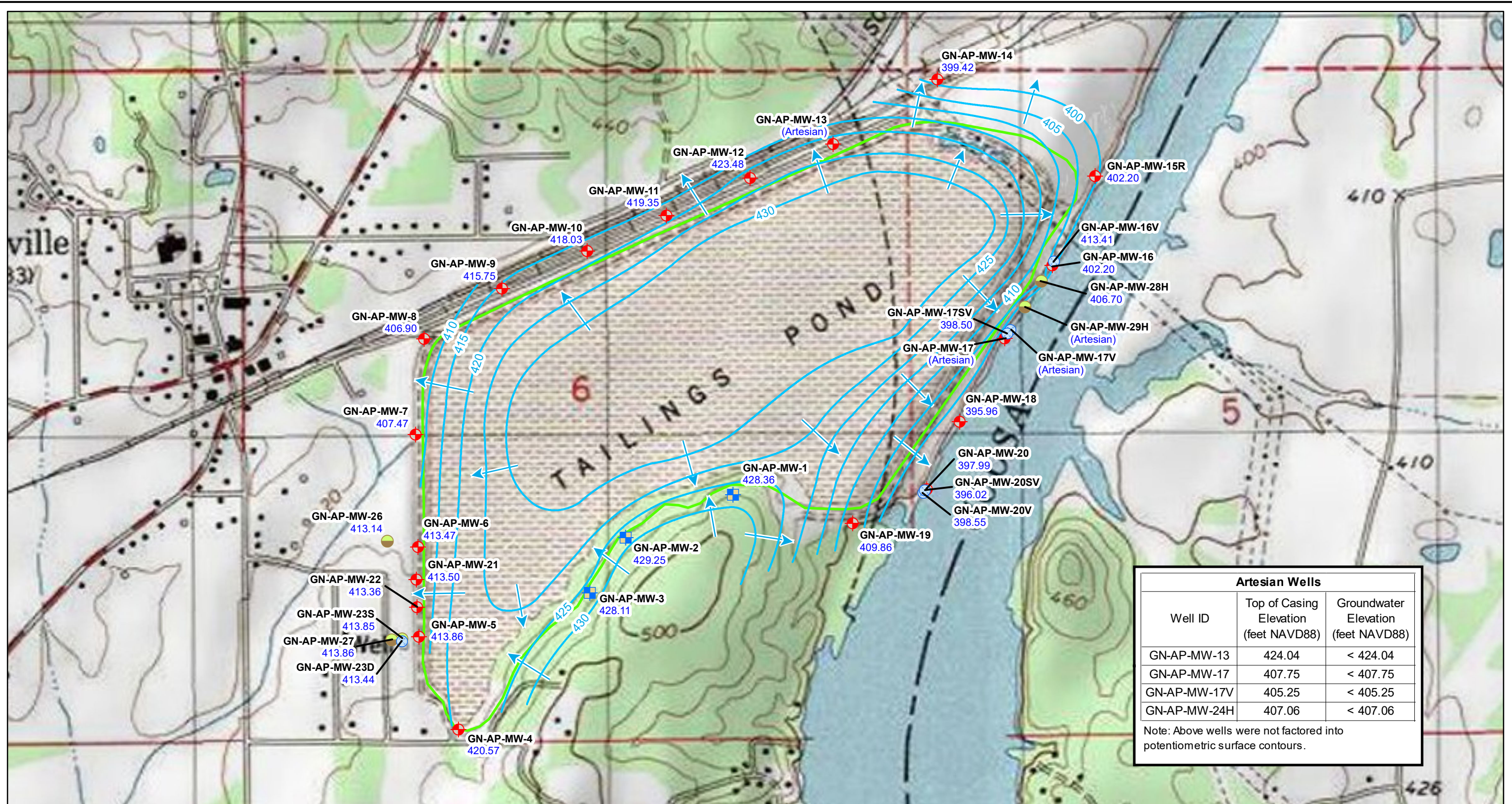
- Downgradient Monitoring Well
- Upgradient Monitoring Well
- Approximate Groundwater Flow Direction
- Potentiometric Surface Contours
- Ash Pond Boundary

|                   |                       |
|-------------------|-----------------------|
| <b>GN-AP-MW-1</b> | Well ID               |
| 432.14            | Groundwater Elevation |



NOTE: NAVD88 indicates North American Vertical Datum of 1988.

|            |           |                                                                                                      |
|------------|-----------|------------------------------------------------------------------------------------------------------|
| SCALE      | 1:9000    | DRAWING TITLE<br><b>POTENTIOMETRIC SURFACE CONTOUR MAP</b><br>APRIL 1, 2019<br>PLANT GASTON ASH POND |
| DATE       | 1/14/2020 |                                                                                                      |
| DRAWN BY   | KWR       |                                                                                                      |
| CHECKED BY | GBD       |                                                                                                      |
| FIGURE NO  |           | <b>FIGURE 6</b>                                                                                      |
|            |           | Southern Company                                                                                     |



| Artesian Wells |                                       |                                     |
|----------------|---------------------------------------|-------------------------------------|
| Well ID        | Top of Casing Elevation (feet NAVD88) | Groundwater Elevation (feet NAVD88) |
| GN-AP-MW-13    | 424.04                                | < 424.04                            |
| GN-AP-MW-17    | 407.75                                | < 407.75                            |
| GN-AP-MW-17V   | 405.25                                | < 405.25                            |
| GN-AP-MW-24H   | 407.06                                | < 407.06                            |

Note: Above wells were not factored into potentiometric surface contours.

|                                                                                                                                                                                               |                                                                                                            |                  |                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Legend</b><br>Downgradient Monitoring Well<br>Upgradient Monitoring Well<br>Horizontal Delineation Well<br>Vertical Delineation Well<br>GN-AP-MW-1 Well ID<br>428.36 Groundwater Elevation | Potentiometric Surface Contours (ft NAVD88)<br>Approximate Groundwater Flow Direction<br>Ash Pond Boundary | SCALE 1:9000     | DRAWING TITLE<br><b>POTENTIOMETRIC SURFACE CONTOUR MAP</b><br><b>SEPTEMBER 16, 2019</b><br><b>PLANT GASTON ASH POND</b> |
|                                                                                                                                                                                               |                                                                                                            | DATE 1/14/2020   |                                                                                                                         |
|                                                                                                                                                                                               |                                                                                                            | DRAWN BY KWR     |                                                                                                                         |
|                                                                                                                                                                                               |                                                                                                            | CHECKED BY GBD   |                                                                                                                         |
|                                                                                                                                                                                               |                                                                                                            |                  | FIGURE NO<br><b>FIGURE 7</b>                                                                                            |
| NOTE: NAVD88 indicates North American Vertical Datum of 1988.                                                                                                                                 |                                                                                                            | Southern Company |                                                                                                                         |

# Tables

**Table 1.  
Groundwater Monitoring Well Network Details**

| Well Name     | Purpose                | Installation Completion Date | Northing    | Easting     | Ground Elevation | Top of Casing Elevation | Well Depth (ft.) Below Top of Casing | Top of Screen Elevation (ft MSL) | Bottom of Screen Elevation (ft MSL) | Screen Length |
|---------------|------------------------|------------------------------|-------------|-------------|------------------|-------------------------|--------------------------------------|----------------------------------|-------------------------------------|---------------|
| GN-AP-MW-1    | Upgradient             | 12/3/2015                    | 1176920.74  | 2283196.28  | 457.72           | 460.54                  | 123.50                               | 271.42                           | 261.42                              | 10            |
| GN-AP-MW-2    | Upgradient             | 10/7/2015                    | 1176581.4   | 2282345.82  | 442.81           | 445.67                  | 123.50                               | 329.64                           | 319.64                              | 10            |
| GN-AP-MW-3    | Upgradient             | 9/30/2015                    | 1176143.9   | 2282060.22  | 444.34           | 447.14                  | 81.60                                | 375.94                           | 365.94                              | 10            |
| GN-AP-MW-4    | Downgradient           | 11/6/2015                    | 1175062.07  | 2281020.14  | 437.86           | 440.57                  | 96.10                                | 354.87                           | 344.87                              | 10            |
| GN-AP-MW-5    | Downgradient           | 9/17/2015                    | 1177490.12  | 2284846.07  | 428.06           | 431.30                  | 63.05                                | 378.65                           | 368.65                              | 10            |
| GN-AP-MW-6    | Downgradient           | 9/21/2015                    | 1177492.16  | 2284847.54  | 424.61           | 427.85                  | 50.30                                | 387.95                           | 377.95                              | 10            |
| GN-AP-MW-7    | Downgradient           | 9/23/2015                    | 1177496.74  | 2284850.77  | 416.80           | 420.02                  | 64.91                                | 365.51                           | 355.51                              | 10            |
| GN-AP-MW-8    | Downgradient           | 10/14/2015                   | 1177568.42  | 2284736.1   | 426.87           | 429.63                  | 84.69                                | 355.34                           | 345.34                              | 10            |
| GN-AP-MW-9    | Downgradient           | 11/12/2015                   | 1178554.49  | 2281365.54  | 422.16           | 424.85                  | 135.69                               | 299.56                           | 289.56                              | 10            |
| GN-AP-MW-10   | Downgradient           | 9/4/2015                     | 1178850.57  | 2282040.74  | 422.69           | 425.69                  | 82.60                                | 353.49                           | 343.49                              | 10            |
| GN-AP-MW-11   | Downgradient           | 10/9/2015                    | 1179132.61  | 2282666.85  | 422.62           | 425.39                  | 77.44                                | 358.35                           | 348.35                              | 10            |
| GN-AP-MW-12   | Downgradient           | 9/9/2015                     | 1179430.1   | 2283330.46  | 422.43           | 425.22                  | 89.50                                | 346.12                           | 336.12                              | 10            |
| GN-AP-MW-13   | Downgradient           | 9/1/2015                     | 1179697.95  | 2283988.8   | 421.21           | 424.04                  | 65.42                                | 369.02                           | 359.02                              | 10            |
| GN-AP-MW-14   | Downgradient           | 12/10/2015                   | 1180209.36  | 2284813.2   | 424.54           | 427.20                  | 97.05                                | 340.55                           | 330.55                              | 10            |
| GN-AP-MW-15R  | Downgradient           | 6/2/2016                     | 1179719.07  | 2286000.59  | 440.35           | 442.60                  | 67.46                                | 385.54                           | 375.54                              | 10            |
| GN-AP-MW-16   | Downgradient           | 9/16/2015                    | 1178734.93  | 2285724.01  | 419.08           | 422.30                  | 50.35                                | 382.35                           | 372.35                              | 10            |
| GN-AP-MW-17   | Downgradient           | 10/13/2015                   | 1178159.49  | 2285347.91  | 404.86           | 407.75                  | 67.42                                | 350.73                           | 340.73                              | 10            |
| GN-AP-MW-18   | Downgradient           | 9/11/2015                    | 1177498.2   | 2284989.04  | 413.22           | 416.13                  | 60.89                                | 365.64                           | 355.64                              | 10            |
| GN-AP-MW-19   | Downgradient           | 11/3/2015                    | 1176692.67  | 2284143.51  | 413.75           | 416.16                  | 91.90                                | 334.66                           | 324.66                              | 10            |
| GN-AP-MW-20   | Downgradient           | 12/1/2015                    | 1176964.09  | 2284730.29  | 403.89           | 406.65                  | 88.30                                | 328.75                           | 318.75                              | 10            |
| GN-AP-MW-21   | Downgradient           | 6/9/2016                     | 1176379.27  | 2280690.66  | 425.25           | 428.25                  | 38.50                                | 400.15                           | 390.15                              | 10            |
| GN-AP-MW-22   | Downgradient           | 6/8/2016                     | 1176073.13  | 2280698.61  | 424.11           | 427.11                  | 34.10                                | 403.41                           | 393.41                              | 10            |
| GN-AP-MW-16V  | Vertical Delineation   | 2/6/2019                     | 996000.93   | 463789.77   | 420.26           | 422.88                  | 123.30                               | 309.98                           | 299.98                              | 10            |
| GN-AP-MW-17V  | Vertical Delineation   | 1/17/2019                    | 995464.76   | 463435.39   | 402.25           | 405.25                  | 102.00                               | 313.65                           | 303.65                              | 10            |
| GN-AP-MW-17SV | Vertical Delineation   | 12/5/2018                    | 995437.67   | 463409.59   | 404.10           | 406.92                  | 29.50                                | 387.82                           | 377.82                              | 10            |
| GN-AP-MW-20V  | Vertical Delineation   | 1/10/2019                    | 994184.94   | 462725.25   | 403.25           | 406.25                  | 118.90                               | 297.75                           | 287.75                              | 10            |
| GN-AP-MW-20SV | Vertical Delineation   | 12/3/2018                    | 994205.06   | 462738.17   | 403.07           | 405.78                  | 32.98                                | 383.20                           | 373.20                              | 10            |
| GN-AP-MW-31V  | Vertical Delineation   | 9/8/2019                     | 1179497.671 | 2286055.04  | 435.57           | 438.49                  | 109.92                               | 331.49                           | 321.49                              | 10            |
| GN-AP-MW-32V  | Vertical Delineation   | 9/17/2019                    | 1178654.021 | 2285527.369 | 451.07           | 453.77                  | 243.25                               | 220.92                           | 210.92                              | 10            |
| GN-AP-MW-33V  | Vertical Delineation   | 9/21/2019                    | 178204.437  | 2285243.115 | 451.26           | 454.29                  | 243.15                               | 221.54                           | 211.54                              | 10            |
| GN-AP-MW-34V  | Vertical Delineation   | 9/3/2019                     | 1177052.131 | 2284611.135 | 445.15           | 447.98                  | 229.83                               | 228.55                           | 218.55                              | 10            |
| GN-AP-PZ-23D  | Vertical Delineation   | 2016                         | 1175793.072 | 2280585.617 | 425.94           | 428.69                  | 147.36                               | 291.73                           | 281.73                              | 10            |
| GN-AP-PZ-23S  | Horizontal Delineation | 6/10/2016                    | 1175777.038 | 2280585.826 | 426.15           | 429.15                  | 27.68                                | 411.87                           | 401.87                              | 10            |
| GN-AP-MW-26   | Horizontal Delineation | 6/19/2016                    | 1176559.013 | 2280476.078 | 422.45           | 425.51                  | 31.36                                | 404.55                           | 394.55                              | 10            |
| GN-AP-MW-27   | Horizontal Delineation | 2016                         | 1175780.137 | 2280500.379 | 428.35           | FLUSH                   | 24.52                                | 404.23                           | 394.23                              | 10            |
| GN-AP-MW-28H  | Horizontal Delineation | 2/1/2019                     | 995847.38   | 463688.34   | 410.53           | 413.90                  | 103.50                               | 320.80                           | 310.80                              | 10            |
| GN-AP-MW-29H  | Horizontal Delineation | 1/22/2019                    | 995646.21   | 463554.45   | 403.56           | 407.06                  | 103.50                               | 313.96                           | 303.96                              | 10            |
| GN-AP-MW-30H  | Horizontal Delineation | 9/6/2019                     | 1179615.378 | 2286116.788 | 434.99           | 437.87                  | 76.73                                | 371.44                           | 361.44                              | 10            |

Notes:

1. Northing and easting are in feet relative to the State Plant Alabama West North America Datum of 1983
2. Elevations are in feet relative to the North American Vertical Datum of 1988
3. Vertical delineation well GN-AP-MW-31V to be abandoned and replaced (did not develop)

**Table 2.  
Monitoring Parameters and Reporting Limits**

| <b>Parameter</b>               | <b>Analytical Method</b> | <b>Reporting Limit<br/>(Mg/L)</b> |
|--------------------------------|--------------------------|-----------------------------------|
| <b>Appendix III Parameters</b> |                          |                                   |
| 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                                 |
| <b>Appendix IV Parameters</b>  |                          |                                   |
| 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) |           |           |           |           |            |           |           |           |           |          |           |           |          |           |
|---------------|-------------------------|----------------------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|----------|-----------|-----------|----------|-----------|
|               |                         | 3/28/2016                  | 4/12/2016 | 5/16/2016 | 7/11/2016 | 9/12/2016 | 11/14/2016 | 2/27/2017 | 5/22/2017 | 6/19/2017 | 8/14/2017 | 1/9/2018 | 4/16/2018 | 10/1/2018 | 4/1/2019 | 9/16/2019 |
| GN-AP-MW-1    | 460.54                  | 432.03                     | 432.34    | 431.33    | 430.58    | 430.48    | 429.35     | 431.57    | 431.52    | 432.42    | 432.63    | 431.16   | 432.58    | 431.3     | 432.14   | 428.36    |
| GN-AP-MW-2    | 445.67                  | 432.56                     | 433.79    | 432.71    | 432.69    | 432.59    | 432.16     | 432.74    | 433.43    | 433.55    | 433.62    | 433.19   | 433.75    | 433.85    | 431.74   | 429.25    |
| GN-AP-MW-3    | 447.14                  | 431.94                     | 433.27    | 432.11    | 429.73    | 432.14    | 431.81     | 432.17    | 433.04    | 433.2     | 433.25    | 432.93   | 433.29    | 433.73    | 430.71   | 428.11    |
| GN-AP-MW-4    | 440.57                  | 430.53                     | 435.66    | 428.25    | 426.12    | 425.2     | 423.27     | 428.82    | 428.34    | 430.38    | 431.53    | 427.56   | 435.31    | 424.26    | 428.29   | 420.57    |
| GN-AP-MW-5    | 431.30                  | 421.08                     | 425.56    | 419.52    | 417.43    | 417.26    | 416.08     | 420.74    | 419.54    | 421.89    | 423.55    | 419.9    | 425.45    | 419.16    | 419.87   | 413.86    |
| GN-AP-MW-6    | 427.85                  | 417.77                     | 422.98    | 417.07    | 416.02    | 415.82    | 415.39     | 417.91    | 417.21    | 418.02    | 418.47    | 417.53   | 419.32    | 416.76    | 417.51   | 413.47    |
| GN-AP-MW-7    | 420.02                  | 415.16                     | 416.66    | 414.16    | 410.16    | 409.45    | 407.55     | 415.11    | 413.72    | 415.21    | 415.14    | 414.44   | 416.34    | 412       | 415.41   | 407.47    |
| GN-AP-MW-8    | 429.63                  | 416.93                     | 419.7     | 416.49    | 410.2     | 409.65    | 405.81     | 416.88    | 416.24    | 416.99    | 417.28    | 416.29   | 417.83    | 414.2     | 417.11   | 406.9     |
| GN-AP-MW-9    | 424.85                  | 419.49                     | 420.21    | 419.25    | 417.27    | 416.92    | 414.77     | 419.49    | 419.47    | 419.65    | 419.45    | 419.4    | 420.19    | 418.58    | 419.52   | 415.75    |
| GN-AP-MW-10   | 425.69                  | 419.79                     | 421.17    | 419.5     | 418.98    | 418.44    | 417.24     | 419.95    | 420.14    | 420.11    | 420.16    | 412.35   | 420.52    | 419.58    | 420.91   | 418.03    |
| GN-AP-MW-11   | 425.39                  | 420.7                      | 422.27    | 420.24    | 419.63    | 419.52    | 419.1      | 421.01    | 420.62    | 421.21    | 421.48    | 419.94   | 422.21    | 420.37    | 422.06   | 419.35    |
| GN-AP-MW-12   | 425.22                  | 424.82                     | 424.85    | 424.54    | 424.12    | 424.12    | 422.77     | 424.85    | 424.79    | 424.81    | 424.78    | 424.78   | 425.22    | 425.22    | 425.22   | 423.48    |
| GN-AP-MW-13   | 424.04                  | 423.76                     | --        | 423.84    | 423.74    | 423.79    | 423.26     | 423.89    | 423.75    | 423.71    | 424.04    | 423.69   | 424.04    | 424.04    | 424.04   | 424.04    |
| GN-AP-MW-14   | 427.20                  | 399.19                     | 399.5     | 399.25    | 399.07    | 399.53    | 399.84     | 401.55    | 399.86    | 399.88    | 400.5     | 399.27   | 399.96    | 399.88    | 399.71   | 399.42    |
| GN-AP-MW-15R  | 442.60                  | --                         | --        | --        | 402.9     | 402.84    | 402.82     | 403.12    | 403.36    | 403.51    | 403.59    | 403.35   | 403.87    | 403.19    | 403.47   | 402.2     |
| GN-AP-MW-16   | 422.30                  | 402.65                     | 403.22    | 402.6     | 402.75    | 402.53    | 402.38     | 402.81    | 402.83    | 402.99    | 403.2     | 403.41   | 403.99    | 403.3     | 402.93   | 402.2     |
| GN-AP-MW-17   | 407.75                  | 407.55                     | 407.5     | 407.64    | 407.51    | 407.54    | 407.75     | 407.75    | 407.75    | 407.75    | 407.75    | 407.75   | 407.75    | 407.75    | 407.75   | 407.75    |
| GN-AP-MW-18   | 416.13                  | 395.92                     | 396.37    | 395.86    | 396.12    | 395.85    | 395.89     | 395.88    | 395.8     | 395.88    | 395.96    | 396.08   | 396.43    | 395.86    | 396.19   | 395.96    |
| GN-AP-MW-19   | 416.16                  | 412.84                     | 413.89    | 412.24    | 412.06    | 412.02    | 411.25     | 412.47    | 412.81    | 413.75    | 413.96    | 412.51   | 414.2     | 412.8     | 412.99   | 409.86    |
| GN-AP-MW-20   | 406.65                  | 398.36                     | 398.95    | 398.4     | 398.4     | 398.14    | 397.79     | 398.28    | 398.11    | 398.21    | 398.21    | 398.4    | 398.83    | 398.06    | 398.57   | 397.99    |
| GN-AP-MW-21   | 428.25                  | --                         | --        | --        | 416.3     | 416.14    | 415.6      | 418.34    | 417.54    | 418.62    | 419.16    | 417.91   | 419.93    | 417.2     | 417.81   | 413.5     |
| GN-AP-MW-22   | 427.11                  | --                         | --        | --        | 416.7     | 416.55    | 415.59     | 419.65    | 418.52    | 420.59    | 421.65    | 418.89   | 423.34    | 418.13    | 418.91   | 413.36    |
| GN-AP-MW-16V  | 422.88                  | --                         | --        | --        | --        | --        | --         | --        | --        | --        | --        | --       | --        | --        | 415.81   | 413.41    |
| GN-AP-MW-17V  | 405.25                  | --                         | --        | --        | --        | --        | --         | --        | --        | --        | --        | --       | --        | --        | 404.95   | 405.25    |
| GN-AP-MW-17SV | 406.92                  | --                         | --        | --        | --        | --        | --         | --        | --        | --        | --        | --       | --        | --        | 398.54   | 398.5     |
| GN-AP-MW-20V  | 406.25                  | --                         | --        | --        | --        | --        | --         | --        | --        | --        | --        | --       | --        | --        | 399.13   | 398.55    |
| GN-AP-MW-20SV | 405.78                  | --                         | --        | --        | --        | --        | --         | --        | --        | --        | --        | --       | --        | --        | 396.32   | 396.02    |
| GN-AP-MW-32V  | 453.77                  | --                         | --        | --        | --        | --        | --         | --        | --        | --        | --        | --       | --        | --        | --       | --        |
| GN-AP-MW-33V  | 454.29                  | --                         | --        | --        | --        | --        | --         | --        | --        | --        | --        | --       | --        | --        | --       | --        |
| GN-AP-MW-34V  | 447.98                  | --                         | --        | --        | --        | --        | --         | --        | --        | --        | --        | --       | --        | --        | --       | --        |
| GN-AP-PZ-23D  | 428.69                  | --                         | --        | --        | --        | --        | --         | --        | --        | --        | --        | --       | --        | --        | 419.35   | 413.44    |
| GN-AP-PZ-23S  | 429.15                  | --                         | --        | --        | --        | --        | --         | --        | --        | --        | --        | --       | --        | --        | 419.92   | 413.85    |
| GN-AP-MW-26   | 425.51                  | --                         | --        | --        | --        | --        | --         | --        | --        | --        | --        | --       | --        | --        | 416.69   | 413.14    |
| GN-AP-MW-27   | 428.35                  | --                         | --        | --        | --        | --        | --         | --        | --        | --        | --        | --       | --        | --        | 419.95   | 413.86    |
| GN-AP-MW-28H  | 413.90                  | --                         | --        | --        | --        | --        | --         | --        | --        | --        | --        | --       | --        | --        | 408.28   | 406.7     |
| GN-AP-MW-29H  | 407.06                  | --                         | --        | --        | --        | --        | --         | --        | --        | --        | --        | --       | --        | --        | 406.82   | 407.06    |
| GN-AP-MW-30H  | 437.87                  | --                         | --        | --        | --        | --        | --         | --        | --        | --        | --        | --       | --        | --        | --       | --        |

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

**Table 4.**  
**Relative Percent Difference Calculations**

| <b>2019 1st Semi-Annual Monitoring Event</b> |              |                                        |                       |                                            |
|----------------------------------------------|--------------|----------------------------------------|-----------------------|--------------------------------------------|
| <b>Parameter</b>                             | <b>Units</b> | <b>Monitoring Point Identification</b> |                       | <b>Relative Percent Difference (RPD %)</b> |
|                                              |              | <b>GN-AP-MW-6</b>                      | <b>GN-AP-MW-6 DUP</b> |                                            |
| Boron                                        | mg/L         | 2.66                                   | 2.7                   | 1.5                                        |
| Calcium                                      | mg/L         | 80.1                                   | 80                    | 0.1                                        |
| Chloride                                     | mg/L         | 66                                     | 66.4                  | 0.6                                        |
| Sulfate                                      | mg/L         | 198                                    | 200                   | 1.0                                        |
| TDS                                          | mg/L         | 447                                    | 445                   | 0.4                                        |
| Barium                                       | mg/L         | 0.0243                                 | 0.0241                | 0.8                                        |
| Molybdenum                                   | mg/L         | 0.0166                                 | 0.0169                | 1.8                                        |

| <b>Parameter</b> | <b>Units</b> | <b>Monitoring Point Identification</b> |                        | <b>Relative Percent Difference (RPD %)</b> |
|------------------|--------------|----------------------------------------|------------------------|--------------------------------------------|
|                  |              | <b>GN-AP-MW-16</b>                     | <b>GN-AP-MW-16 DUP</b> |                                            |
| Boron            | mg/L         | 1.32                                   | 1.32                   | 0.0                                        |
| Calcium          | mg/L         | 45.7                                   | 45.8                   | 0.2                                        |
| Chloride         | mg/L         | 15.9                                   | 15.9                   | 0.0                                        |
| Fluoride         | mg/L         | 0.12                                   | 0.13                   | 8.0                                        |
| Sulfate          | mg/L         | 161                                    | 150                    | 7.1                                        |
| TDS              | mg/L         | 273                                    | 275                    | 0.7                                        |
| Barium           | mg/L         | 0.0335                                 | 0.0327                 | 2.4                                        |
| Lithium          | mg/L         | 0.0814                                 | 0.0808                 | 0.7                                        |
| Molybdenum       | mg/L         | 0.311                                  | 0.317                  | 1.9                                        |

| <b>Parameter</b> | <b>Units</b> | <b>Monitoring Point Identification</b> |                        | <b>Relative Percent Difference (RPD %)</b> |
|------------------|--------------|----------------------------------------|------------------------|--------------------------------------------|
|                  |              | <b>GN-AP-MW-10</b>                     | <b>GN-AP-MW-10 DUP</b> |                                            |
| Calcium          | mg/L         | 40                                     | 39.9                   | 0.3                                        |
| Chloride         | mg/L         | 2.7                                    | 2.64                   | 2.2                                        |
| Sulfate          | mg/L         | 3.85                                   | 3.81                   | 1.0                                        |
| TDS              | mg/L         | 177                                    | 166                    | 6.4                                        |
| Barium           | mg/L         | 0.0137                                 | 0.0129                 | 6.0                                        |

**Table 4.**  
**Relative Percent Difference Calculations**

| <b>2019 2nd Semi-Annual Monitoring Event</b> |              |                                        |                       |                                            |
|----------------------------------------------|--------------|----------------------------------------|-----------------------|--------------------------------------------|
| <b>Parameter</b>                             | <b>Units</b> | <b>Monitoring Point Identification</b> |                       | <b>Relative Percent Difference (RPD %)</b> |
|                                              |              | <b>GN-AP-MW-6</b>                      | <b>GN-AP-MW-6 DUP</b> |                                            |
| Boron                                        | mg/L         | 2.68                                   | 2.74                  | 2.2                                        |
| Calcium                                      | mg/L         | 83.9                                   | 82.9                  | 1.2                                        |
| Chloride                                     | mg/L         | 65.3                                   | 65.8                  | 0.8                                        |
| Sulfate                                      | mg/L         | 177                                    | 178                   | 0.6                                        |
| TDS                                          | mg/L         | 445                                    | 444                   | 0.2                                        |
| Barium                                       | mg/L         | 0.023                                  | 0.0224                | 2.6                                        |
| Molybdenum                                   | mg/L         | 0.0138                                 | 0.0146                | 5.6                                        |

| <b>Parameter</b> | <b>Units</b> | <b>Monitoring Point Identification</b> |                        | <b>Relative Percent Difference (RPD %)</b> |
|------------------|--------------|----------------------------------------|------------------------|--------------------------------------------|
|                  |              | <b>GN-AP-MW-16</b>                     | <b>GN-AP-MW-16 DUP</b> |                                            |
| Boron            | mg/L         | 1.4                                    | 1.39                   | 0.7                                        |
| Calcium          | mg/L         | 61.3                                   | 59.3                   | 3.3                                        |
| Chloride         | mg/L         | 20.4                                   | 20.6                   | 1.0                                        |
| Fluoride         | mg/L         | 0.126                                  | 0.124                  | 1.6                                        |
| Sulfate          | mg/L         | 147                                    | 147                    | 0.0                                        |
| TDS              | mg/L         | 293                                    | 301                    | 2.7                                        |
| Barium           | mg/L         | 0.0393                                 | 0.039                  | 0.8                                        |
| Lithium          | mg/L         | 0.0926                                 | 0.0919                 | 0.8                                        |
| Molybdenum       | mg/L         | 0.32                                   | 0.324                  | 1.2                                        |

| <b>Parameter</b> | <b>Units</b> | <b>Monitoring Point Identification</b> |                        | <b>Relative Percent Difference (RPD %)</b> |
|------------------|--------------|----------------------------------------|------------------------|--------------------------------------------|
|                  |              | <b>GN-AP-MW-10</b>                     | <b>GN-AP-MW-10 DUP</b> |                                            |
| Calcium          | mg/L         | 39.1                                   | 39.4                   | 0.8                                        |
| Chloride         | mg/L         | 2.54                                   | 2.61                   | 2.7                                        |
| Sulfate          | mg/L         | 3.39                                   | 3.43                   | 1.2                                        |
| TDS              | mg/L         | 168                                    | 171                    | 1.8                                        |
| Barium           | mg/L         | 0.0135                                 | 0.0134                 | 0.7                                        |

| <b>Parameter</b> | <b>Units</b> | <b>Monitoring Point Identification</b> |                        | <b>Relative Percent Difference (RPD %)</b> |
|------------------|--------------|----------------------------------------|------------------------|--------------------------------------------|
|                  |              | <b>GN-AP-MW-26</b>                     | <b>GN-AP-MW-26 DUP</b> |                                            |
| Boron            | mg/L         | 1.33                                   | 1.34                   | 0.7                                        |
| Calcium          | mg/L         | 81.8                                   | 79.9                   | 2.4                                        |
| Chloride         | mg/L         | 41.5                                   | 41.1                   | 1.0                                        |
| Sulfate          | mg/L         | 142                                    | 141                    | 0.7                                        |
| TDS              | mg/L         | 433                                    | 433                    | 0.0                                        |
| Barium           | mg/L         | 0.0192                                 | 0.0191                 | 0.5                                        |



**Table 5.**  
**Summary of Background Levels and Groundwater Protection Standards**

| <b>Analyte</b>          | <b>Units</b> | <b>Background</b> | <b>Federal GWPS</b> | <b>State GWPS</b> |
|-------------------------|--------------|-------------------|---------------------|-------------------|
| Antimony                | mg/L         | 0.003             | 0.006               | 0.006             |
| Arsenic                 | mg/L         | 0.00766           | 0.01                | 0.01              |
| Barium                  | mg/L         | 0.02861, 0.0313   | 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         | 0.0025, 0.005     | 0.006               | 0.006             |
| Combined Radium-226/228 | pCi/L        | 3                 | 5                   | 5                 |
| Fluoride                | mg/L         | 0.1               | 4                   | 4                 |
| Lead                    | mg/L         | 0.005             | 0.015               | 0.015             |
| Lithium                 | mg/L         | 0.0182, 0.02      | 0.04                | 0.04              |
| Mercury                 | mg/L         | 0.0005            | 0.002               | 0.002             |
| Molybdenum              | mg/L         | 0.0463            | 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)(i)
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         |
| <b>GWPS</b>         |                 | <b>N/R</b>  | <b>N/R</b>  | <b>N/R</b>  | <b>4</b>    | <b>N/R</b> | <b>N/R</b>  | <b>N/R</b>  |
| <b>UNITS</b>        |                 | <b>mg/L</b> | <b>mg/L</b> | <b>mg/L</b> | <b>mg/L</b> | <b>SU</b>  | <b>mg/L</b> | <b>mg/L</b> |
| <b>GN-AP-MW-1</b>   | <b>4/1/2019</b> | Non-Detect  | 59.2        | 4.75        | 0.0791(J)   | 7.41       | 33.1        | 294         |
| <b>GN-AP-MW-2</b>   | <b>4/1/2019</b> | Non-Detect  | 35.8        | 1.36        | Non-Detect  | 7.76       | 1.87        | 160         |
| <b>GN-AP-MW-3</b>   | <b>4/2/2019</b> | Non-Detect  | 31.6        | 1.65        | Non-Detect  | 7.8        | 3.24        | 140         |
| <b>GN-AP-MW-4</b>   | <b>4/2/2019</b> | 0.271       | 56.9        | 18.3        | Non-Detect  | 7.34       | 22.4        | 270         |
| <b>GN-AP-MW-5</b>   | <b>4/2/2019</b> | 1.78        | 69.8        | 39.9        | 0.0555(J)   | 7.47       | 122         | 390         |
| <b>GN-AP-MW-6</b>   | <b>4/2/2019</b> | 2.66        | 80.1        | 66          | 0.0586(J)   | 7.73       | 198         | 447         |
| <b>GN-AP-MW-7</b>   | <b>4/2/2019</b> | 1.64        | 115         | 15.7        | 0.052(J)    | 7.24       | 186         | 428         |
| <b>GN-AP-MW-8</b>   | <b>4/1/2019</b> | 0.0345(J)   | 50.5        | 3.9         | 0.0956(J)   | 7.4        | 1.8         | 268         |
| <b>GN-AP-MW-9</b>   | <b>4/1/2019</b> | Non-Detect  | 32.3        | 8.42        | 0.136       | 7.64       | 14.3        | 205         |
| <b>GN-AP-MW-10</b>  | <b>4/3/2019</b> | Non-Detect  | 40          | 2.7         | Non-Detect  | 7.6        | 3.85        | 177         |
| <b>GN-AP-MW-11</b>  | <b>4/3/2019</b> | 0.216       | 44.1        | 6.35        | Non-Detect  | 7.75       | 44.2        | 200         |
| <b>GN-AP-MW-12</b>  | <b>4/3/2019</b> | 0.401       | 67.8        | 19.7        | Non-Detect  | 7.37       | 102         | 372         |
| <b>GN-AP-MW-13</b>  | <b>4/3/2019</b> | Non-Detect  | 46.9        | 4.85        | Non-Detect  | 7.41       | 0.925(J)    | 201         |
| <b>GN-AP-MW-14</b>  | <b>4/3/2019</b> | Non-Detect  | 63.1        | 5.72        | 0.106       | 7.43       | 75.2        | 336         |
| <b>GN-AP-MW-15R</b> | <b>4/3/2019</b> | 4.18        | 209         | 156         | 0.104       | 7.7        | 339         | 810         |
| <b>GN-AP-MW-16</b>  | <b>4/3/2019</b> | 1.32        | 45.7        | 15.9        | 0.12        | 8.3        | 161         | 273         |
| <b>GN-AP-MW-17</b>  | <b>4/3/2019</b> | 2.92        | 116         | 38          | 0.182       | 9.56       | 346         | 536         |
| <b>GN-AP-MW-18</b>  | <b>4/3/2019</b> | 1.27        | 139         | 12.1        | 0.0678(J)   | 6.9        | 168         | 560         |
| <b>GN-AP-MW-19</b>  | <b>4/1/2019</b> | Non-Detect  | 45.6        | 11.9        | 0.0563(J)   | 7.58       | 24.4        | 225         |
| <b>GN-AP-MW-20</b>  | <b>4/3/2019</b> | 3.77        | 206         | 17.9        | 0.0657(J)   | 7.45       | 577         | 910         |
| <b>GN-AP-MW-21</b>  | <b>4/2/2019</b> | 1.5         | 61.1        | 27          | Non-Detect  | 7.67       | 189         | 401         |
| <b>GN-AP-MW-22</b>  | <b>4/2/2019</b> | 2.03        | 134         | 67.3        | 0.0613(J)   | 7.33       | 212         | 522         |

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       |
| <b>GWPS</b>  |             | <b>0.006</b> | <b>0.01</b> | <b>2</b>    | <b>0.004</b> | <b>0.005</b> | <b>0.1</b>  | <b>0.006</b> |
| <b>UNITS</b> |             | <b>mg/L</b>  | <b>mg/L</b> | <b>mg/L</b> | <b>mg/L</b>  | <b>mg/L</b>  | <b>mg/L</b> | <b>mg/L</b>  |
| GN-AP-MW-1   | 4/1/2019    | 0.0013(J)    | 0.00679     | 0.0266      | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| GN-AP-MW-2   | 4/1/2019    | 0.000946(J)  | Non-Detect  | 0.0116      | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| GN-AP-MW-3   | 4/2/2019    | Non-Detect   | Non-Detect  | 0.00625(J)  | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| GN-AP-MW-4   | 4/2/2019    | Non-Detect   | Non-Detect  | 0.0254      | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| GN-AP-MW-5   | 4/2/2019    | Non-Detect   | Non-Detect  | 0.0371      | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| GN-AP-MW-6   | 4/2/2019    | 0.000819(J)  | Non-Detect  | 0.0243      | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| GN-AP-MW-7   | 4/2/2019    | 0.00089(J)   | Non-Detect  | 0.0236      | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| GN-AP-MW-8   | 4/1/2019    | Non-Detect   | 0.00177(J)  | 0.0209      | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| GN-AP-MW-9   | 4/1/2019    | Non-Detect   | 0.00269(J)  | 0.105       | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| GN-AP-MW-10  | 4/3/2019    | Non-Detect   | Non-Detect  | 0.0137      | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| GN-AP-MW-11  | 4/3/2019    | Non-Detect   | Non-Detect  | 0.00993(J)  | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| GN-AP-MW-12  | 4/3/2019    | 0.000871(J)  | 0.00726     | 0.073       | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| GN-AP-MW-13  | 4/3/2019    | Non-Detect   | Non-Detect  | 0.0363      | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| GN-AP-MW-14  | 4/3/2019    | 0.000939(J)  | Non-Detect  | 0.0619      | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| GN-AP-MW-15R | 4/3/2019    | 0.00113(J)   | 0.00207(J)  | 0.134       | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| GN-AP-MW-16  | 4/3/2019    | Non-Detect   | 0.00466(J)  | 0.0335      | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| GN-AP-MW-17  | 4/3/2019    | 0.00135(J)   | 0.0106      | 0.105       | Non-Detect   | 0.00051(J)   | Non-Detect  | Non-Detect   |
| GN-AP-MW-18  | 4/3/2019    | Non-Detect   | 0.0067      | 0.045       | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| GN-AP-MW-19  | 4/1/2019    | 0.00123(J)   | 0.0024(J)   | 0.0188      | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| GN-AP-MW-20  | 4/3/2019    | Non-Detect   | 0.00398(J)  | 0.0599      | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| GN-AP-MW-21  | 4/2/2019    | Non-Detect   | 0.00134(J)  | 0.0146      | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| GN-AP-MW-22  | 4/2/2019    | Non-Detect   | Non-Detect  | 0.0471      | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |

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2. Non-Detect indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the 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 UNITS   |             | 5 pCi/L                   | 4 mg/L     | 0.015 mg/L | 0.0182 mg/L | 0.002 mg/L | 0.1 mg/L   | 0.05 mg/L  | 0.002 mg/L |
| GN-AP-MW-1   | 4/1/2019    | 0.564                     | 0.0791(J)  | Non-Detect | Non-Detect  | Non-Detect | 0.0191     | Non-Detect | Non-Detect |
| GN-AP-MW-2   | 4/1/2019    | 0.162(U)                  | Non-Detect | Non-Detect | Non-Detect  | Non-Detect | Non-Detect | Non-Detect | Non-Detect |
| GN-AP-MW-3   | 4/2/2019    | -0.0631(U)                | Non-Detect | Non-Detect | Non-Detect  | Non-Detect | 0.00766(J) | Non-Detect | Non-Detect |
| GN-AP-MW-4   | 4/2/2019    | 0.427                     | Non-Detect | Non-Detect | Non-Detect  | Non-Detect | Non-Detect | Non-Detect | Non-Detect |
| GN-AP-MW-5   | 4/2/2019    | 0.245(U)                  | 0.0555(J)  | Non-Detect | 0.0242      | Non-Detect | 0.164      | Non-Detect | Non-Detect |
| GN-AP-MW-6   | 4/2/2019    | 0.369                     | 0.0586(J)  | Non-Detect | Non-Detect  | Non-Detect | 0.0166     | Non-Detect | Non-Detect |
| GN-AP-MW-7   | 4/2/2019    | 0.326(U)                  | 0.052(J)   | Non-Detect | Non-Detect  | Non-Detect | Non-Detect | Non-Detect | Non-Detect |
| GN-AP-MW-8   | 4/1/2019    | -0.0724(U)                | 0.0956(J)  | Non-Detect | Non-Detect  | Non-Detect | Non-Detect | Non-Detect | Non-Detect |
| GN-AP-MW-9   | 4/1/2019    | 0.334                     | 0.136      | Non-Detect | Non-Detect  | Non-Detect | Non-Detect | Non-Detect | Non-Detect |
| GN-AP-MW-10  | 4/3/2019    | 0.260(U)                  | Non-Detect | Non-Detect | Non-Detect  | Non-Detect | Non-Detect | Non-Detect | Non-Detect |
| GN-AP-MW-11  | 4/3/2019    | 0.2(U)                    | Non-Detect | Non-Detect | Non-Detect  | Non-Detect | Non-Detect | Non-Detect | Non-Detect |
| GN-AP-MW-12  | 4/3/2019    | 0.669                     | Non-Detect | Non-Detect | Non-Detect  | Non-Detect | Non-Detect | Non-Detect | Non-Detect |
| GN-AP-MW-13  | 4/3/2019    | 0.577                     | Non-Detect | Non-Detect | Non-Detect  | Non-Detect | Non-Detect | Non-Detect | Non-Detect |
| GN-AP-MW-14  | 4/3/2019    | 0.189(U)                  | 0.106      | Non-Detect | Non-Detect  | Non-Detect | Non-Detect | Non-Detect | Non-Detect |
| GN-AP-MW-15R | 4/3/2019    | 1.16                      | 0.104      | Non-Detect | 0.149       | Non-Detect | 0.433      | Non-Detect | Non-Detect |
| GN-AP-MW-16  | 4/3/2019    | 3.43                      | 0.12       | Non-Detect | 0.0814      | Non-Detect | 0.311      | Non-Detect | Non-Detect |
| GN-AP-MW-17  | 4/3/2019    | 0.907                     | 0.182      | Non-Detect | 0.716       | Non-Detect | 2.33       | Non-Detect | Non-Detect |
| GN-AP-MW-18  | 4/3/2019    | 1.49                      | 0.0678(J)  | Non-Detect | 0.0393      | Non-Detect | 0.0214     | Non-Detect | 0.00034(J) |
| GN-AP-MW-19  | 4/1/2019    | 0.263(U)                  | 0.0563(J)  | Non-Detect | Non-Detect  | Non-Detect | 0.0132     | Non-Detect | Non-Detect |
| GN-AP-MW-20  | 4/3/2019    | 13.8                      | 0.0657(J)  | Non-Detect | 0.115       | Non-Detect | 0.803      | Non-Detect | Non-Detect |
| GN-AP-MW-21  | 4/2/2019    | 0.182(U)                  | Non-Detect | Non-Detect | Non-Detect  | Non-Detect | 0.00611(J) | Non-Detect | Non-Detect |
| GN-AP-MW-22  | 4/2/2019    | 0.503                     | 0.0613(J)  | Non-Detect | Non-Detect  | Non-Detect | 0.0703     | Non-Detect | Non-Detect |

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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         |
| <b>GWPS</b>         |                  | <b>N/R</b>  | <b>N/R</b>  | <b>N/R</b>  | <b>4</b>    | <b>N/R</b> | <b>N/R</b>  | <b>N/R</b>  |
| <b>UNITS</b>        |                  | <b>mg/L</b> | <b>mg/L</b> | <b>mg/L</b> | <b>mg/L</b> | <b>SU</b>  | <b>mg/L</b> | <b>mg/L</b> |
| <b>GN-AP-MW-1</b>   | <b>9/17/2019</b> | Non-Detect  | 60.7        | 4.14        | 0.0876(J)   | 7.62       | 28.3        | 285         |
| <b>GN-AP-MW-2</b>   | <b>9/18/2019</b> | Non-Detect  | 35          | 1.53        | Non-Detect  | 7.69       | 2.39        | 154         |
| <b>GN-AP-MW-3</b>   | <b>9/17/2019</b> | Non-Detect  | 31.7        | 1.93        | Non-Detect  | 7.8        | 4.51        | 145         |
| <b>GN-AP-MW-4</b>   | <b>9/17/2019</b> | 0.619       | 69.3        | 37.5        | Non-Detect  | 7.65       | 39.8        | 332         |
| <b>GN-AP-MW-5</b>   | <b>9/18/2019</b> | 2.31        | 79.9        | 42.8        | 0.0568(J)   | 7.53       | 167         | 434         |
| <b>GN-AP-MW-6</b>   | <b>9/18/2019</b> | 2.68        | 83.9        | 65.3        | 0.0634(J)   | 7.85       | 177         | 445         |
| <b>GN-AP-MW-7</b>   | <b>9/18/2019</b> | 2.16        | 99.1        | 29.5        | 0.0578(J)   | 7.52       | 199         | 489         |
| <b>GN-AP-MW-8</b>   | <b>9/17/2019</b> | 0.0439(J)   | 54.5        | 3.96        | 0.0971(J)   | 7.55       | 4.62        | 257         |
| <b>GN-AP-MW-9</b>   | <b>9/17/2019</b> | Non-Detect  | 32.7        | 8.59        | 0.128       | 8.07       | 13.9        | 207         |
| <b>GN-AP-MW-10</b>  | <b>9/16/2019</b> | Non-Detect  | 39.1        | 2.54        | Non-Detect  | 7.6        | 3.39        | 168         |
| <b>GN-AP-MW-10</b>  | <b>10/8/2019</b> | n/a         | n/a         | n/a         | n/a         | 7.59       | n/a         | 172         |
| <b>GN-AP-MW-11</b>  | <b>9/16/2019</b> | 0.207       | 40.2        | 6.49        | Non-Detect  | 7.71       | 49.2        | 207         |
| <b>GN-AP-MW-11</b>  | <b>10/8/2019</b> | n/a         | n/a         | n/a         | n/a         | 7.74       | n/a         | 207         |
| <b>GN-AP-MW-12</b>  | <b>9/16/2019</b> | 0.423       | 69.5        | 19.8        | 0.0538(J)   | 7.44       | 108         | 377         |
| <b>GN-AP-MW-13</b>  | <b>9/17/2019</b> | Non-Detect  | 48.3        | 4.83        | 0.0753(J)   | 7.45       | Non-Detect  | 204         |
| <b>GN-AP-MW-14</b>  | <b>9/17/2019</b> | Non-Detect  | 74.9        | 4.16        | 0.116       | 7.3        | 131         | 439         |
| <b>GN-AP-MW-15R</b> | <b>9/18/2019</b> | 3.47        | 139         | 142         | 0.094(J)    | 7.5        | 283         | 704         |
| <b>GN-AP-MW-16</b>  | <b>9/16/2019</b> | 1.4         | 61.3        | 20.4        | 0.126       | 7.94       | 147         | 293         |
| <b>GN-AP-MW-17</b>  | <b>9/17/2019</b> | 3.25        | 131         | 43.2        | 0.187       | 9.18       | 322         | 592         |
| <b>GN-AP-MW-18</b>  | <b>9/18/2019</b> | 1.47        | 126         | 12.2        | 0.0551(J)   | 6.86       | 173         | 592         |
| <b>GN-AP-MW-19</b>  | <b>9/18/2019</b> | Non-Detect  | 45.6        | 11.6        | 0.0507(J)   | 7.6        | 23.6        | 222         |
| <b>GN-AP-MW-20</b>  | <b>9/18/2019</b> | 4.12        | 172         | 18.7        | Non-Detect  | 7.9        | 526         | 908         |
| <b>GN-AP-MW-21</b>  | <b>9/18/2019</b> | 2.51        | 98.3        | 64          | 0.0749(J)   | 7.15       | 197         | 504         |
| <b>GN-AP-MW-22</b>  | <b>9/18/2019</b> | 2.1         | 102         | 46.3        | 0.065(J)    | 7.21       | 180         | 460         |

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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       |
| <b>GWPS</b>         |                  | <b>0.006</b> | <b>0.01</b> | <b>2</b>    | <b>0.004</b> | <b>0.005</b> | <b>0.1</b>  | <b>0.006</b> |
| <b>UNITS</b>        |                  | <b>mg/L</b>  | <b>mg/L</b> | <b>mg/L</b> | <b>mg/L</b>  | <b>mg/L</b>  | <b>mg/L</b> | <b>mg/L</b>  |
| <b>GN-AP-MW-1</b>   | <b>9/17/2019</b> | Non-Detect   | 0.00422(J)  | 0.0282      | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| <b>GN-AP-MW-2</b>   | <b>9/18/2019</b> | Non-Detect   | Non-Detect  | 0.0118      | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| <b>GN-AP-MW-3</b>   | <b>9/17/2019</b> | Non-Detect   | Non-Detect  | 0.00834(J)  | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| <b>GN-AP-MW-4</b>   | <b>9/17/2019</b> | Non-Detect   | Non-Detect  | 0.0344      | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| <b>GN-AP-MW-5</b>   | <b>9/18/2019</b> | Non-Detect   | Non-Detect  | 0.0335      | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| <b>GN-AP-MW-6</b>   | <b>9/18/2019</b> | Non-Detect   | Non-Detect  | 0.023       | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| <b>GN-AP-MW-7</b>   | <b>9/18/2019</b> | Non-Detect   | Non-Detect  | 0.029       | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| <b>GN-AP-MW-8</b>   | <b>9/17/2019</b> | Non-Detect   | 0.00112(J)  | 0.0202      | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| <b>GN-AP-MW-9</b>   | <b>9/17/2019</b> | Non-Detect   | 0.00324(J)  | 0.118       | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| <b>GN-AP-MW-10</b>  | <b>9/16/2019</b> | Non-Detect   | Non-Detect  | 0.0135      | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| <b>GN-AP-MW-10</b>  | <b>10/8/2019</b> | n/a          | n/a         | n/a         | n/a          | n/a          | n/a         | n/a          |
| <b>GN-AP-MW-11</b>  | <b>9/16/2019</b> | Non-Detect   | Non-Detect  | 0.00956(J)  | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| <b>GN-AP-MW-11</b>  | <b>10/8/2019</b> | n/a          | n/a         | n/a         | n/a          | n/a          | n/a         | n/a          |
| <b>GN-AP-MW-12</b>  | <b>9/16/2019</b> | Non-Detect   | 0.00538     | 0.0819      | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| <b>GN-AP-MW-13</b>  | <b>9/17/2019</b> | Non-Detect   | Non-Detect  | 0.0396      | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| <b>GN-AP-MW-14</b>  | <b>9/17/2019</b> | Non-Detect   | 0.00108(J)  | 0.0745      | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| <b>GN-AP-MW-15R</b> | <b>9/18/2019</b> | Non-Detect   | Non-Detect  | 0.0799      | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| <b>GN-AP-MW-16</b>  | <b>9/16/2019</b> | Non-Detect   | 0.00492(J)  | 0.0393      | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| <b>GN-AP-MW-17</b>  | <b>9/17/2019</b> | Non-Detect   | 0.0109      | 0.12        | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| <b>GN-AP-MW-18</b>  | <b>9/18/2019</b> | Non-Detect   | 0.00308(J)  | 0.0524      | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| <b>GN-AP-MW-19</b>  | <b>9/18/2019</b> | Non-Detect   | 0.00322(J)  | 0.0211      | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| <b>GN-AP-MW-20</b>  | <b>9/18/2019</b> | Non-Detect   | 0.00425(J)  | 0.0651      | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| <b>GN-AP-MW-21</b>  | <b>9/18/2019</b> | Non-Detect   | 0.00239(J)  | 0.0362      | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |
| <b>GN-AP-MW-22</b>  | <b>9/18/2019</b> | Non-Detect   | 0.00129(J)  | 0.0458      | Non-Detect   | Non-Detect   | Non-Detect  | Non-Detect   |

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**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     |
| <b>GWPS UNITS</b> |             | <b>5</b>                  | <b>4</b>    | <b>0.015</b> | <b>0.04</b> | <b>0.002</b> | <b>0.1</b>  | <b>0.05</b> | <b>0.002</b> |
|                   |             | <b>pCi/L</b>              | <b>mg/L</b> | <b>mg/L</b>  | <b>mg/L</b> | <b>mg/L</b>  | <b>mg/L</b> | <b>mg/L</b> | <b>mg/L</b>  |
| GN-AP-MW-1        | 9/17/2019   | 0.43(U)                   | 0.0876(J)   | Non-Detect   | Non-Detect  | Non-Detect   | 0.017       | Non-Detect  | Non-Detect   |
| GN-AP-MW-2        | 9/18/2019   | -0.0854(U)                | Non-Detect  | Non-Detect   | Non-Detect  | Non-Detect   | Non-Detect  | Non-Detect  | Non-Detect   |
| GN-AP-MW-3        | 9/17/2019   | 0.0186(U)                 | Non-Detect  | Non-Detect   | Non-Detect  | Non-Detect   | 0.00644(J)  | Non-Detect  | Non-Detect   |
| GN-AP-MW-4        | 9/17/2019   | 0.767                     | Non-Detect  | Non-Detect   | Non-Detect  | Non-Detect   | Non-Detect  | Non-Detect  | Non-Detect   |
| GN-AP-MW-5        | 9/18/2019   | 0.435(U)                  | 0.0568(J)   | Non-Detect   | 0.043       | Non-Detect   | 0.261       | Non-Detect  | Non-Detect   |
| GN-AP-MW-6        | 9/18/2019   | 0.586                     | 0.0634(J)   | Non-Detect   | Non-Detect  | Non-Detect   | 0.0138      | Non-Detect  | Non-Detect   |
| GN-AP-MW-7        | 9/18/2019   | 0.56(U)                   | 0.0578(J)   | Non-Detect   | Non-Detect  | Non-Detect   | Non-Detect  | Non-Detect  | Non-Detect   |
| GN-AP-MW-8        | 9/17/2019   | 0.645                     | 0.0971(J)   | Non-Detect   | Non-Detect  | Non-Detect   | Non-Detect  | Non-Detect  | Non-Detect   |
| GN-AP-MW-9        | 9/17/2019   | 0.194(U)                  | 0.128       | Non-Detect   | Non-Detect  | Non-Detect   | Non-Detect  | Non-Detect  | Non-Detect   |
| GN-AP-MW-10       | 9/16/2019   | 0.307(U)                  | Non-Detect  | Non-Detect   | Non-Detect  | Non-Detect   | Non-Detect  | Non-Detect  | Non-Detect   |
| GN-AP-MW-10       | 10/8/2019   | n/a                       | n/a         | n/a          | n/a         | n/a          | n/a         | n/a         | n/a          |
| GN-AP-MW-11       | 9/16/2019   | 0.507(U)                  | Non-Detect  | Non-Detect   | Non-Detect  | Non-Detect   | Non-Detect  | Non-Detect  | Non-Detect   |
| GN-AP-MW-11       | 10/8/2019   | n/a                       | n/a         | n/a          | n/a         | n/a          | n/a         | n/a         | n/a          |
| GN-AP-MW-12       | 9/16/2019   | 1.04                      | 0.0538(J)   | Non-Detect   | Non-Detect  | Non-Detect   | Non-Detect  | Non-Detect  | Non-Detect   |
| GN-AP-MW-13       | 9/17/2019   | 0.958(U)                  | 0.0753(J)   | Non-Detect   | Non-Detect  | Non-Detect   | Non-Detect  | Non-Detect  | Non-Detect   |
| GN-AP-MW-14       | 9/17/2019   | 0.558(U)                  | 0.116       | Non-Detect   | Non-Detect  | Non-Detect   | Non-Detect  | Non-Detect  | Non-Detect   |
| GN-AP-MW-15R      | 9/18/2019   | 0.94                      | 0.094(J)    | Non-Detect   | 0.186       | Non-Detect   | 0.307       | Non-Detect  | Non-Detect   |
| GN-AP-MW-16       | 9/16/2019   | 3.55                      | 0.126       | Non-Detect   | 0.0926      | Non-Detect   | 0.32        | Non-Detect  | Non-Detect   |
| GN-AP-MW-17       | 9/17/2019   | 2.09                      | 0.187       | Non-Detect   | 0.785       | Non-Detect   | 2.33        | Non-Detect  | Non-Detect   |
| GN-AP-MW-18       | 9/18/2019   | 1.25                      | 0.0551(J)   | Non-Detect   | 0.0492      | Non-Detect   | 0.0243      | Non-Detect  | 0.000479(J)  |
| GN-AP-MW-19       | 9/18/2019   | 0.29(U)                   | 0.0507(J)   | Non-Detect   | Non-Detect  | Non-Detect   | 0.0128      | Non-Detect  | Non-Detect   |
| GN-AP-MW-20       | 9/18/2019   | 15.7                      | Non-Detect  | Non-Detect   | 0.131       | Non-Detect   | 0.837       | Non-Detect  | Non-Detect   |
| GN-AP-MW-21       | 9/18/2019   | 0.435(U)                  | 0.0749(J)   | Non-Detect   | Non-Detect  | Non-Detect   | 0.0172      | Non-Detect  | Non-Detect   |
| GN-AP-MW-22       | 9/18/2019   | 0.165(U)                  | 0.065(J)    | Non-Detect   | Non-Detect  | Non-Detect   | 0.0895      | 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



## PLANT GASTON ASH POND – WELL ABANDONMENT (2019)

Southern Company Services is including the following monitoring well abandonment report for Alabama Power Company's (APC) Plant Gaston Ash Pond. APC's Plant E.C. Gaston Steam Plant (Plant Gaston) is in Shelby County, Alabama. The physical address is 31972 Alabama Highway 25, Wilsonville, AL 35186. Plant Gaston lies in Section 1, Township 21 South, Range 1 East, Sections 5 and 6, Township 21 South, Range 2 East, and Sections 31 and 32, Township 20 South, Range 2 East data are based on visual inspection of USGS topographic quadrangle maps and GIS maps (USGS, 1980, 1982a, 1982b, 1983).

The Ash Pond is located south-southwest of the main plant along the Coosa River. **Figure 1, Site Location Map**, depicts the location of the Plant and Ash Pond with respect to the surrounding area.

The scope of work included the abandonment of two monitoring wells at the site: GN-AP-MW-1 and GN-AP-MW-2. The monitoring wells were abandoned on August 29, 2019 by Southern Company Services Drilling Services due to site construction activities. The well casings were cut off below grade and the wells were abandoned in place. Each boring was grouted from the total depth to the surface with a neat cement slurry by pressure grouting with the positive displacement method (tremie method). The monitoring well concrete pads were removed and disposed of along with similar construction activity debris in a non-hazardous landfill. Well Installation Logs and Well Abandonment Forms detailing abandonment activities have been included. Monitor well locations are depicted on **Figure 5, Monitor Well Location Map**.



# LOG OF WELL INSTALLATION

**BORING GN-AP-MW-01**  
PAGE 1 OF 1

**SOUTHERN COMPANY SERVICES, INC.**  
**EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING**

**PROJECT** Plant Gaston Ash Pond  
**LOCATION** \_\_\_\_\_

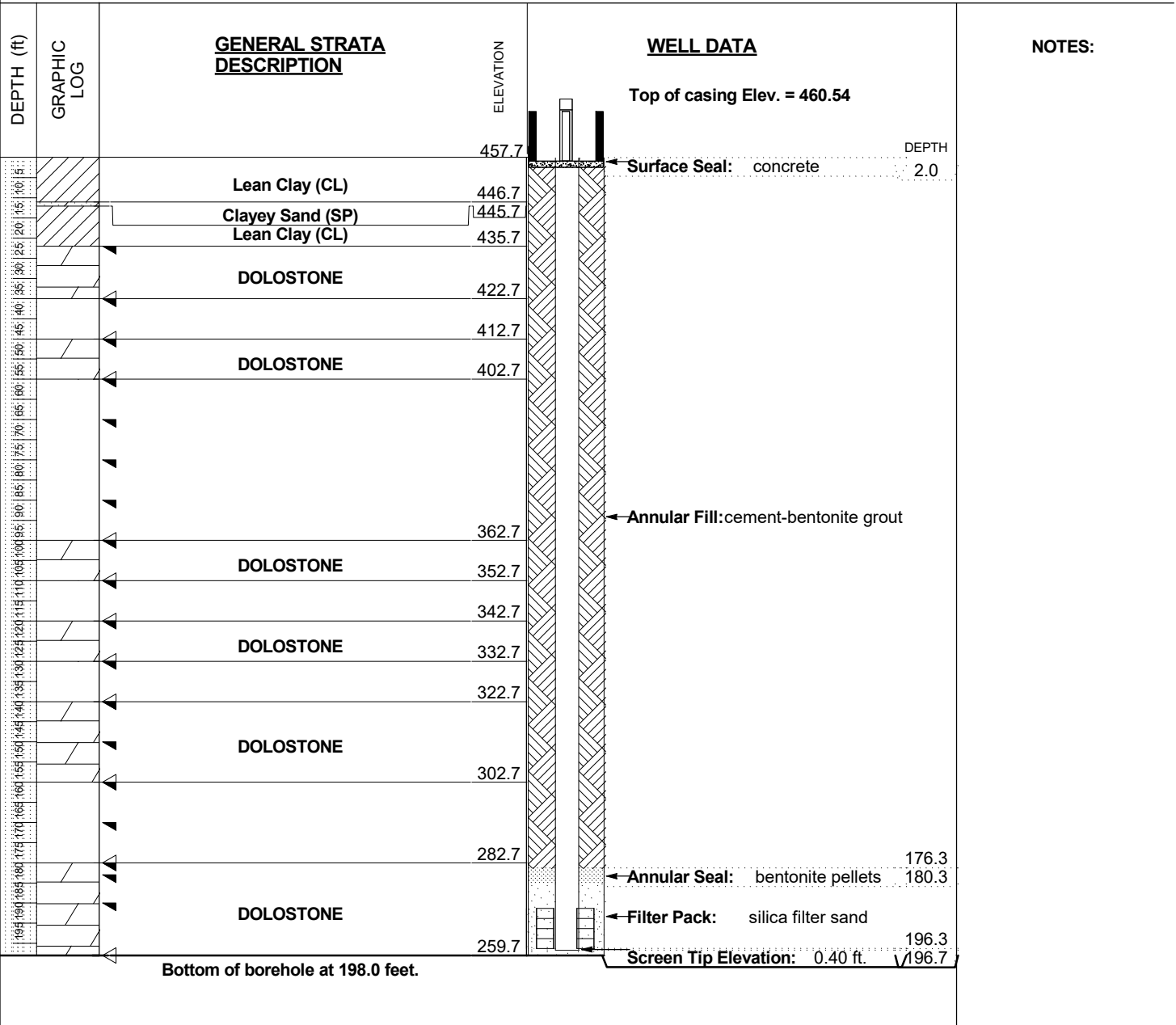
**DATE STARTED** 11/17/2015 **COMPLETED** 12/3/2015 **SURF. ELEV.** 457.7 **COORDINATES:** N:1,176,920.74 E:2,283,196.28

**CONTRACTOR** Cascade Drilling, LP **EQUIPMENT** \_\_\_\_\_ **METHOD** Rotosonic

**DRILLED BY** M. Hansen **LOGGED BY** C. Stanford **CHECKED BY** C. Sellers

**BORING DEPTH** 197.98 ft. **GROUND WATER DEPTH: DURING** \_\_\_\_\_ **COMP.** \_\_\_\_\_ **DELAYED** \_\_\_\_\_

**NOTES** Begin Engineering Log at 22 ft. Well installed. Refer to well data sheet.



## WELL SPECIFICATIONS

**Casing Diameter:** 2 inches **Screen Diameter:** 2 inches  
**Casing Material:** Schedule 40 PVC **Screen Length:** 10 feet **Screen Material:** PVC  
**Casing Length:** 199.12 feet **Screen Mesh:** 0.010 **PrePack Screen:** Yes

2012 GEOTECH LOG WITH WELL - ESEE2012DATABASE.GDT - 10/12/17 16:29 - T:\ESEE MAJOR PROJECTS\PROJECTS - ATTORNEY CLIENT PRIVILEGE - DRAFT\APC ATTORNEY CLIENT PRIVILEGED\PLANT GASTON\MAGES2524 GASTON AP CHARACTERIZATION I



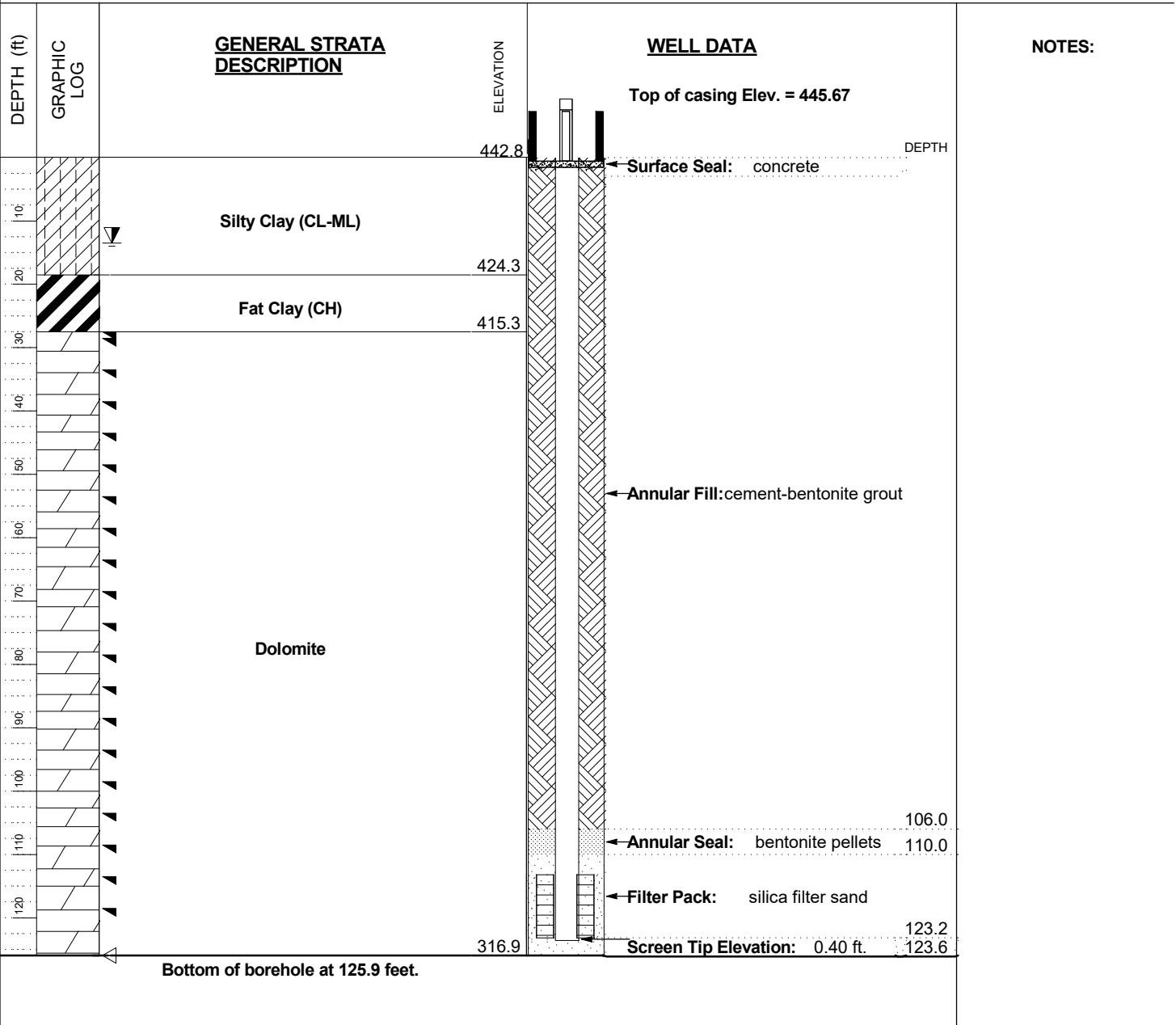
# LOG OF WELL INSTALLATION

**BORING GN-AP-MW-02**  
PAGE 1 OF 1

**SOUTHERN COMPANY SERVICES, INC.**  
**EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING**

**PROJECT** Plant Gaston Ash Pond  
**LOCATION** \_\_\_\_\_

**DATE STARTED** 9/30/2015 **COMPLETED** 10/7/2015 **SURF. ELEV.** 442.8 **COORDINATES:** N:1,176,581.40 E:2,282,345.82  
**CONTRACTOR** TTL, Inc. **EQUIPMENT** \_\_\_\_\_ **METHOD** Hollow Stem Auger; HQ Rock Core  
**DRILLED BY** D. Campbell **LOGGED BY** J. Williams **CHECKED BY** G. Dyer  
**BORING DEPTH** 125.92 ft. **GROUND WATER DEPTH: DURING** \_\_\_\_\_ **COMP.** \_\_\_\_\_ **DELAYED** 13.47 ft. after 48 hrs.  
**NOTES** Begin Engineering Log at 27.5 ft. Well installed. Refer to well data sheet.



## WELL SPECIFICATIONS

**Casing Diameter:** 2 inches **Screen Diameter:** 2 inches  
**Casing Material:** Schedule 40 PVC **Screen Length:** 10 feet **Screen Material:** PVC  
**Casing Length:** 126.03 feet **Screen Mesh:** 0.010 **PrePack Screen:** Yes

2012 GEOTECH LOG WITH WELL - ESEE2012DATABASE.GDT - 10/12/17 16:29 - T:\ESEE MAJOR PROJECTS\PROJECTS - ATTORNEY CLIENT PRIVILEGE - DRAFT\APC ATTORNEY CLIENT PRIVILEGED\PLANT GASTON\MAGES2524 GASTON AP CHARACTERIZATION I

## Well Abandonment Form

|                                                                                                                       |                                                                                                                                                              |               |               |
|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|
| <b>PROJECT:</b><br>Plant Gaston Ash Pond CCR Wells                                                                    | <b>WELL/HOLE NO.:</b> GN-AP-MW-1<br><br><b>DEPTH</b> <u>194.6</u> FEET<br><b>HOLE DIAMETER:</b> <u>2</u> INCHES<br><b>HOLE VOLUME:</b> <u>4.2</u> CUBIC FEET |               |               |
| <b>GEOLOGIST/ENGINEER</b><br>Brandon Coates, P.G.                                                                     |                                                                                                                                                              |               |               |
| <b>ABANDONMENT BY:</b><br>SCS Drilling Services                                                                       | <b>DATE ABANDONED:</b><br>8/29/2019                                                                                                                          |               |               |
| <b>REASON FOR ABANDONMENT:</b><br>New Construction Requirements                                                       | <b>SEALANT TYPE:</b><br>Neat Cement<br><br><b>SEALANT MIXTURE RATIO:</b><br>100<br><br><b>SEALANT VOLUME USED:</b><br>~4.0 cubic feet                        |               |               |
| <b>REMARKS:</b><br>Water level at time of abandonment:32.16' Well was tremie grouted to the surface with neat cement. |                                                                                                                                                              |               |               |
| <b>WEATHER</b><br>hot, partly cloudy                                                                                  |                                                                                                                                                              |               |               |
| <b>SKETCH</b>                                                                                                         | <b>DIAMETER</b> 2"                                                                                                                                           | <b>DEPTH:</b> | <b>ELEV.:</b> |
|                                                                                                                       | GROUND SURFACE                                                                                                                                               | 0.0'          |               |
|                                                                                                                       | TOP OF ROCK                                                                                                                                                  | 22'           |               |
|                                                                                                                       | BOTTOM OF HOLE                                                                                                                                               | 194'          |               |

## Well Abandonment Form

|                                                                                                                       |                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |               |               |                       |             |  |                    |            |  |                       |             |  |  |
|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------|---------------|-----------------------|-------------|--|--------------------|------------|--|-----------------------|-------------|--|--|
| <b>PROJECT:</b><br>Plant Gaston Ash Pond CCR Wells                                                                    | <b>WELL/HOLE NO.:</b> GN-AP-MW-2<br><br><b>DEPTH</b> <u>122.8</u> FEET<br><b>HOLE DIAMETER:</b> <u>2</u> INCHES<br><b>HOLE VOLUME:</b> <u>2.6</u> CUBIC FEET |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |               |               |                       |             |  |                    |            |  |                       |             |  |  |
| <b>GEOLOGIST/ENGINEER</b><br>Brandon Coates, P.G.                                                                     |                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |               |               |                       |             |  |                    |            |  |                       |             |  |  |
| <b>ABANDONMENT BY:</b><br>SCS Drilling Services                                                                       | <b>DATE ABANDONED:</b><br>8/29/2019                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |               |               |                       |             |  |                    |            |  |                       |             |  |  |
| <b>REASON FOR ABANDONMENT:</b><br>New Construction Requirements                                                       | <b>SEALANT TYPE:</b><br>Neat Cement<br><br><b>SEALANT MIXTURE RATIO:</b><br>100<br><br><b>SEALANT VOLUME USED:</b><br>~2.5 cubic feet                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |               |               |                       |             |  |                    |            |  |                       |             |  |  |
| <b>REMARKS:</b><br>Water level at time of abandonment:16.44' Well was tremie grouted to the surface with neat cement. |                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |               |               |                       |             |  |                    |            |  |                       |             |  |  |
| <b>WEATHER</b><br>hot, partly cloudy                                                                                  |                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |               |               |                       |             |  |                    |            |  |                       |             |  |  |
| <b>SKETCH</b>                                                                                                         | <b>DIAMETER</b> 2"                                                                                                                                           | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;"></td> <td style="width:30%;"><b>DEPTH:</b></td> <td style="width:30%;"><b>ELEV.:</b></td> </tr> <tr> <td style="text-align: center;"><b>GROUND SURFACE</b></td> <td style="text-align: center;"><b>0.0'</b></td> <td></td> </tr> <tr> <td style="text-align: center;"><b>TOP OF ROCK</b></td> <td style="text-align: center;"><b>27'</b></td> <td></td> </tr> <tr> <td style="text-align: center;"><b>BOTTOM OF HOLE</b></td> <td style="text-align: center;"><b>122'</b></td> <td></td> </tr> </table> |  | <b>DEPTH:</b> | <b>ELEV.:</b> | <b>GROUND SURFACE</b> | <b>0.0'</b> |  | <b>TOP OF ROCK</b> | <b>27'</b> |  | <b>BOTTOM OF HOLE</b> | <b>122'</b> |  |  |
|                                                                                                                       | <b>DEPTH:</b>                                                                                                                                                | <b>ELEV.:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |               |               |                       |             |  |                    |            |  |                       |             |  |  |
| <b>GROUND SURFACE</b>                                                                                                 | <b>0.0'</b>                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |               |               |                       |             |  |                    |            |  |                       |             |  |  |
| <b>TOP OF ROCK</b>                                                                                                    | <b>27'</b>                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |               |               |                       |             |  |                    |            |  |                       |             |  |  |
| <b>BOTTOM OF HOLE</b>                                                                                                 | <b>122'</b>                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |               |               |                       |             |  |                    |            |  |                       |             |  |  |

# Appendix B

**Monitoring Network Status Summary**

| Well ID                   | Purpose                | Summary of Sampling Events |               |                 |                  |                    |                       |                      |                   |                             |                 |                  |                    |                     |                     |                     |                                      |                     |                              |                     |                              |                                |
|---------------------------|------------------------|----------------------------|---------------|-----------------|------------------|--------------------|-----------------------|----------------------|-------------------|-----------------------------|-----------------|------------------|--------------------|---------------------|---------------------|---------------------|--------------------------------------|---------------------|------------------------------|---------------------|------------------------------|--------------------------------|
|                           |                        | March 28 - April 5, 2016   | April 4, 2016 | May 17-23, 2016 | July 11-18, 2016 | August 22-25, 2016 | September 12-16, 2016 | November 14-18, 2016 | January 3-5, 2017 | February 27 - March 3, 2017 | May 22-26, 2017 | June 19-23, 2017 | August 14-18, 2017 | January 8-12, 2018  | April 16-20, 2018   | October 1-5, 2018   | December 5, 2018 - February 27, 2019 | January 2-4, 2019   | April 1-5, 2019              | May 6-10, 2019      | September 16-25, 2019        | September 26 - October 8, 2019 |
| Purpose of Sampling Event |                        | Background                 | Background    | Background      | Background       | Background         | Background            | Background           | Background        | Background                  | Background      | Detection        | Assessment         | 2018 Semi-Annual 01 | 2018 Semi-Annual 02 | 2019 Semi-Annual 01 | 2019 Semi-Annual 01 Resample         | 2019 Semi-Annual 01 | 2019 Semi-Annual 01 Resample | 2019 Semi-Annual 02 | 2019 Semi-Annual 02 Resample |                                |
| GN-AP-MW-1                | Upgradient             | BG01                       | --            | BG02            | BG03             | --                 | BG04                  | BG05                 | --                | BG06                        | BG07            | BG08             | D01                | S01                 | ASM01               | ASM02               | --                                   | --                  | ASM03                        | ASM03R              | ASM04                        | --                             |
| GN-AP-MW-2                | Upgradient             | BG01                       | --            | BG02            | BG03             | --                 | BG04                  | BG05                 | --                | BG06                        | BG07            | BG08             | D01                | S01                 | ASM01               | ASM02               | --                                   | --                  | ASM03                        | --                  | ASM04                        | --                             |
| GN-AP-MW-3                | Upgradient             | BG01                       | --            | BG02            | BG03             | --                 | BG04                  | BG05                 | --                | BG06                        | BG07            | BG08             | D01                | S01                 | ASM01               | ASM02               | --                                   | --                  | ASM03                        | --                  | ASM04                        | --                             |
| GN-AP-MW-4                | Downgradient           | BG01                       | --            | BG02            | BG03             | --                 | BG04                  | BG05                 | --                | BG06                        | BG07            | BG08             | D01                | S01                 | ASM01               | ASM02               | --                                   | --                  | ASM03                        | --                  | ASM04                        | --                             |
| GN-AP-MW-5                | Downgradient           | BG01                       | --            | BG02            | BG03             | --                 | BG04                  | BG05                 | --                | BG06                        | BG07            | BG08             | D01                | S01                 | ASM01               | ASM02               | --                                   | --                  | ASM03                        | --                  | ASM04                        | --                             |
| GN-AP-MW-6                | Downgradient           | BG01                       | --            | BG02            | BG03             | --                 | BG04                  | BG05                 | --                | BG06                        | BG07            | BG08             | D01                | S01                 | ASM01               | ASM02               | --                                   | --                  | ASM03                        | --                  | ASM04                        | --                             |
| GN-AP-MW-7                | Downgradient           | BG01                       | --            | BG02            | BG03             | --                 | BG04                  | BG05                 | --                | BG06                        | BG07            | BG08             | D01                | S01                 | ASM01               | ASM02               | --                                   | --                  | ASM03                        | --                  | ASM04                        | --                             |
| GN-AP-MW-8                | Downgradient           | BG01                       | --            | BG02            | BG03             | --                 | BG04                  | BG05                 | --                | BG06                        | BG07            | BG08             | D01                | S01                 | ASM01               | ASM02               | --                                   | --                  | ASM03                        | --                  | ASM04                        | --                             |
| GN-AP-MW-9                | Downgradient           | --                         | BG01          | BG02            | BG03             | --                 | BG04                  | BG05                 | --                | BG06                        | BG07            | BG08             | D01                | S01                 | ASM01               | ASM02               | --                                   | --                  | ASM03                        | --                  | ASM04                        | --                             |
| GN-AP-MW-10               | Downgradient           | BG01                       | --            | BG02            | BG03             | --                 | BG04                  | BG05                 | --                | BG06                        | BG07            | BG08             | D01                | S01                 | ASM01               | ASM02               | --                                   | --                  | ASM03                        | --                  | ASM04                        | ASM04R                         |
| GN-AP-MW-11               | Downgradient           | BG01                       | --            | BG02            | BG03             | --                 | BG04                  | BG05                 | --                | BG06                        | BG07            | BG08             | D01                | S01                 | ASM01               | ASM02               | --                                   | --                  | ASM03                        | --                  | ASM04                        | ASM04R                         |
| GN-AP-MW-12               | Downgradient           | BG01                       | --            | BG02            | BG03             | --                 | BG04                  | BG05                 | --                | BG06                        | BG07            | BG08             | D01                | S01                 | ASM01               | ASM02               | --                                   | --                  | ASM03                        | --                  | ASM04                        | --                             |
| GN-AP-MW-13               | Downgradient           | BG01                       | --            | BG02            | BG03             | --                 | BG04                  | BG05                 | --                | BG06                        | BG07            | BG08             | D01                | S01                 | ASM01               | ASM02               | --                                   | --                  | ASM03                        | --                  | ASM04                        | --                             |
| GN-AP-MW-14               | Downgradient           | BG01                       | --            | BG02            | BG03             | --                 | BG04                  | BG05                 | --                | BG06                        | BG07            | BG08             | D01                | S01                 | ASM01               | ASM02               | --                                   | --                  | ASM03                        | --                  | ASM04                        | --                             |
| GN-AP-MW-15R              | Downgradient           | --                         | --            | --              | BG01             | BG02               | BG03                  | BG04                 | BG05              | BG06                        | BG07            | BG08             | D01                | S01                 | ASM01               | ASM02               | --                                   | --                  | ASM03                        | ASM03R              | ASM04                        | --                             |
| GN-AP-MW-16               | Downgradient           | BG01                       | --            | BG02            | BG03             | --                 | BG04                  | BG05                 | --                | BG06                        | BG07            | BG08             | D01                | S01                 | ASM01               | ASM02               | --                                   | --                  | ASM03                        | --                  | ASM04                        | --                             |
| GN-AP-MW-17               | Downgradient           | BG01                       | --            | BG02            | BG03             | --                 | BG04                  | BG05                 | --                | BG06                        | BG07            | BG08             | D01                | S01                 | ASM01               | ASM02               | --                                   | --                  | ASM03                        | --                  | ASM04                        | --                             |
| GN-AP-MW-18               | Downgradient           | BG01                       | --            | BG02            | BG03             | --                 | BG04                  | BG05                 | --                | BG06                        | BG07            | BG08             | D01                | S01                 | ASM01               | ASM02               | --                                   | --                  | ASM03                        | --                  | ASM04                        | --                             |
| GN-AP-MW-19               | Downgradient           | BG01                       | --            | BG02            | BG03             | --                 | BG04                  | BG05                 | --                | BG06                        | BG07            | BG08             | D01                | S01                 | ASM01               | ASM02               | --                                   | --                  | ASM03                        | --                  | ASM04                        | --                             |
| GN-AP-MW-20               | Downgradient           | BG01                       | --            | BG02            | BG03             | --                 | BG04                  | BG05                 | --                | BG06                        | BG07            | BG08             | D01                | S01                 | ASM01               | ASM02               | --                                   | --                  | ASM03                        | --                  | ASM04                        | --                             |
| GN-AP-MW-21               | Downgradient           | --                         | --            | --              | BG01             | BG02               | BG03                  | BG04                 | BG05              | BG06                        | BG07            | BG08             | D01                | S01                 | ASM01               | ASM02               | --                                   | --                  | ASM03                        | --                  | ASM04                        | --                             |
| GN-AP-MW-22               | Downgradient           | --                         | --            | --              | BG01             | BG02               | BG03                  | BG04                 | BG05              | BG06                        | BG07            | BG08             | D01                | S01                 | ASM01               | ASM02               | --                                   | --                  | ASM03                        | --                  | ASM04                        | --                             |
| GN-AP-MW-16V              | Vertical Delineation   | --                         | --            | --              | --               | --                 | --                    | --                   | --                | --                          | --              | --               | --                 | --                  | --                  | --                  | --                                   | ASM03               | --                           | --                  | ASM04                        | --                             |
| GN-AP-MW-17V              | Vertical Delineation   | --                         | --            | --              | --               | --                 | --                    | --                   | --                | --                          | --              | --               | --                 | --                  | --                  | --                  | --                                   | ASM03               | --                           | --                  | ASM04                        | --                             |
| GN-AP-MW-17SV             | Vertical Delineation   | --                         | --            | --              | --               | --                 | --                    | --                   | --                | --                          | --              | --               | --                 | --                  | --                  | --                  | --                                   | ASM03               | --                           | --                  | ASM04                        | --                             |
| GN-AP-MW-20V              | Vertical Delineation   | --                         | --            | --              | --               | --                 | --                    | --                   | --                | --                          | --              | --               | --                 | --                  | --                  | --                  | --                                   | ASM03               | --                           | --                  | ASM04                        | --                             |
| GN-AP-MW-20SV             | Vertical Delineation   | --                         | --            | --              | --               | --                 | --                    | --                   | --                | --                          | --              | --               | --                 | --                  | --                  | --                  | ASM03                                | ASM03R              | --                           | --                  | ASM04                        | --                             |
| GN-AP-PZ-23D              | Vertical Delineation   | --                         | --            | --              | --               | --                 | --                    | --                   | --                | --                          | --              | --               | --                 | --                  | --                  | --                  | --                                   | ASM03               | --                           | --                  | ASM04                        | --                             |
| GN-AP-PZ-23S              | Horizontal Delineation | --                         | --            | --              | --               | --                 | --                    | --                   | --                | --                          | --              | --               | --                 | --                  | --                  | --                  | --                                   | ASM03               | --                           | --                  | ASM04                        | --                             |
| GN-AP-MW-26               | Horizontal Delineation | --                         | --            | --              | --               | --                 | --                    | --                   | --                | --                          | --              | --               | --                 | --                  | --                  | --                  | --                                   | ASM03               | --                           | --                  | ASM04                        | --                             |
| GN-AP-MW-27               | Horizontal Delineation | --                         | --            | --              | --               | --                 | --                    | --                   | --                | --                          | --              | --               | --                 | --                  | --                  | --                  | --                                   | ASM03               | --                           | --                  | ASM04                        | --                             |
| GN-AP-MW-28H              | Horizontal Delineation | --                         | --            | --              | --               | --                 | --                    | --                   | --                | --                          | --              | --               | --                 | --                  | --                  | --                  | --                                   | ASM03               | --                           | --                  | ASM04                        | --                             |
| GN-AP-MW-29H              | Horizontal Delineation | --                         | --            | --              | --               | --                 | --                    | --                   | --                | --                          | --              | --               | --                 | --                  | --                  | --                  | --                                   | ASM03               | --                           | --                  | ASM04                        | ASM04R                         |

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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 Gaston 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   |
| 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      | 0.04       | 0.002      | 0.1        | 0.05       | 0.002      |
| UNITS      |             | mg/L         | mg/L    | mg/L     | mg/L       | SE   | 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       |
| GN-AP-MW-1 | 3/29/2016   | Non-Detect   | 45.6    | 2.16     | 0.058(J)   | 7.39 | 13.9    | 274  | 0.00112(J)  | 0.00412(J) | 0.017  | Non-Detect | Non-Detect | 0.00233(J) | Non-Detect | 3(U)                      | 0.058(J)   | Non-Detect | 0.0182(J)  | Non-Detect | 0.0463     | Non-Detect | Non-Detect |
| GN-AP-MW-1 | 5/19/2016   | Non-Detect   | 49.7    | 2.11     | 0.093(J)   | 7.35 | 18      | 270  | 0.000818(J) | 0.00313(J) | 0.0161 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.949                     | 0.093(J)   | Non-Detect | Non-Detect | Non-Detect | 0.0326     | Non-Detect | Non-Detect |
| GN-AP-MW-1 | 7/12/2016   | Non-Detect   | 53.8    | 2.93     | 0.092(J)   | 7.46 | 24.6    | 289  | Non-Detect  | 0.00459(J) | 0.02   | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.73                      | 0.092(J)   | Non-Detect | Non-Detect | Non-Detect | 0.0164     | Non-Detect | Non-Detect |
| GN-AP-MW-1 | 9/13/2016   | Non-Detect   | 53.5    | 2.91     | 0.045(J)   | 7.43 | 11.6    | 275  | Non-Detect  | 0.00531    | 0.0176 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.948                     | 0.045(J)   | Non-Detect | Non-Detect | Non-Detect | 0.0072(J)  | Non-Detect | Non-Detect |
| GN-AP-MW-1 | 11/15/2016  | 0.0246(J)    | 55.1    | 2.72     | Non-Detect | 7.42 | 9.07    | 258  | Non-Detect  | 0.00571    | 0.02   | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 1.28                      | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.00598(J) | Non-Detect | Non-Detect |
| GN-AP-MW-1 | 2/28/2017   | Non-Detect   | 55.3    | 3.5      | 0.07(J)    | 7.36 | 10      | 291  | 0.000622(J) | 0.00766    | 0.0247 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.232(U)                  | 0.07(J)    | Non-Detect | Non-Detect | Non-Detect | 0.00869(J) | Non-Detect | Non-Detect |
| GN-AP-MW-1 | 5/23/2017   | Non-Detect   | 55.7    | 3.7      | 0.08(J)    | 7.33 | 16      | 260  | Non-Detect  | 0.00528    | 0.0187 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | n/a                       | 0.08(J)    | Non-Detect | Non-Detect | Non-Detect | 0.0132     | Non-Detect | Non-Detect |
| GN-AP-MW-1 | 6/19/2017   | Non-Detect   | 55.1    | 3.2      | 0.08(J)    | 7.34 | 13      | 270  | Non-Detect  | 0.00513    | 0.0172 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 1.02                      | 0.08(J)    | Non-Detect | Non-Detect | Non-Detect | 0.0128     | Non-Detect | Non-Detect |
| GN-AP-MW-1 | 8/15/2017   | Non-Detect   | 57      | 2.9      | 0.08(J)    | 7.31 | 16      | 284  | n/a         | n/a        | n/a    | n/a        | n/a        | n/a        | n/a        | n/a                       | 0.08(J)    | n/a        | n/a        | n/a        | n/a        | n/a        | n/a        |
| GN-AP-MW-1 | 1/10/2018   | n/a          | n/a     | n/a      | 0.08(J)    | 7.36 | n/a     | n/a  | Non-Detect  | 0.00565    | 0.0195 | Non-Detect | Non-Detect | 0.00439(J) | Non-Detect | 0.707                     | 0.08(J)    | Non-Detect | Non-Detect | Non-Detect | 0.0153     | Non-Detect | Non-Detect |
| GN-AP-MW-1 | 4/17/2018   | 0.0459(J)    | 56.4    | 3.3      | 0.08(J)    | 7.24 | 20      | 263  | Non-Detect  | 0.00762    | 0.024  | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.467(U)                  | 0.08(J)    | Non-Detect | Non-Detect | Non-Detect | 0.0124     | Non-Detect | Non-Detect |
| GN-AP-MW-1 | 10/1/2018   | Non-Detect   | 57.2    | 2.3      | 0.1        | 7.36 | 23      | 270  | Non-Detect  | 0.00529    | 0.0225 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.864                     | 0.1        | Non-Detect | Non-Detect | Non-Detect | 0.0131     | Non-Detect | Non-Detect |
| GN-AP-MW-1 | 4/1/2019    | Non-Detect   | 59.2    | 4.75     | 0.0791(J)  | 7.41 | 33.1    | 294  | 0.00131(J)  | 0.00679    | 0.0266 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.564                     | 0.0791(J)  | Non-Detect | Non-Detect | Non-Detect | 0.0191     | Non-Detect | Non-Detect |
| GN-AP-MW-1 | 5/9/2019    | n/a          | n/a     | n/a      | n/a        | 7.33 | n/a     | 302  | 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        |
| GN-AP-MW-1 | 9/17/2019   | Non-Detect   | 60.7    | 4.14     | 0.0876(J)  | 7.62 | 28.3    | 285  | Non-Detect  | 0.00422(J) | 0.0282 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.43(U)                   | 0.0876(J)  | Non-Detect | Non-Detect | Non-Detect | 0.017      | Non-Detect | Non-Detect |



# Analytical Data Summary

## Plant Gaston 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   |             |
| 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      | 0.04       | 0.002      | 0.1        | 0.05       | 0.002      |             |
| UNITS      |             | mg/L         | mg/L       | mg/L     | mg/L       | SE   | 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       |             |
| GN-AP-MW-3 | 3/28/2016   | Non-Detect   | 31.6       | 2.48     | 0.032(J)   | 7.82 | 7.57    | 147  | Non-Detect  | Non-Detect | 0.0116     | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 3(U)                      | 0.052(J)   | 0.00128(J) | Non-Detect | Non-Detect | Non-Detect | 0.00652(J) | Non-Detect | 0.000648(J) |
| GN-AP-MW-3 | 5/17/2016   | Non-Detect   | 29.6       | 1.9      | 0.068(J)   | 7.79 | 5.12    | 140  | Non-Detect  | Non-Detect | 0.00866(J) | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.222(U)                  | 0.068(J)   | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.00651(J) | Non-Detect | Non-Detect  |
| GN-AP-MW-3 | 7/11/2016   | Non-Detect   | 30         | 1.93     | 0.057(J)   | 7.96 | 4.63    | 146  | Non-Detect  | Non-Detect | 0.00969(J) | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.118(U)                  | 0.057(J)   | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.00691(J) | Non-Detect | Non-Detect  |
| GN-AP-MW-3 | 9/14/2016   | Non-Detect   | 30.6       | 1.77     | 0.017(J)   | 7.79 | 3.19    | 141  | Non-Detect  | Non-Detect | 0.00864(J) | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.265(U)                  | 0.017(J)   | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0074(J)  | Non-Detect | Non-Detect  |
| GN-AP-MW-3 | 11/16/2016  | Non-Detect   | 30.4       | 1.98     | Non-Detect | 7.72 | 3.71    | 157  | Non-Detect  | Non-Detect | 0.00917(J) | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.295(U)                  | Non-Detect | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.00663(J) | Non-Detect | Non-Detect  |
| GN-AP-MW-3 | 3/1/2017    | Non-Detect   | Non-Detect | 2.3      | Non-Detect | 7.68 | 3.4(J)  | 148  | 0.000613(J) | Non-Detect | 0.00869(J) | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0981(U)                 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.00856(J) | Non-Detect | Non-Detect  |
| GN-AP-MW-3 | 5/23/2017   | Non-Detect   | 30.1       | 2.2      | Non-Detect | 7.69 | 2(J)    | 141  | Non-Detect  | Non-Detect | 0.00658(J) | Non-Detect | Non-Detect | Non-Detect | Non-Detect | n/a                       | Non-Detect | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.00689(J) | Non-Detect | Non-Detect  |
| GN-AP-MW-3 | 6/19/2017   | Non-Detect   | 29.9       | 1.7(J)   | Non-Detect | 7.67 | 2.5(J)  | 126  | Non-Detect  | Non-Detect | 0.00672(J) | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.194(U)                  | Non-Detect | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.00687(J) | Non-Detect | Non-Detect  |
| GN-AP-MW-3 | 8/15/2017   | Non-Detect   | 28.1       | 2.1      | Non-Detect | 7.73 | 2.4(J)  | 146  | 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        | n/a        | n/a         |
| GN-AP-MW-3 | 1/10/2018   | n/a          | n/a        | n/a      | Non-Detect | 7.84 | n/a     | n/a  | Non-Detect  | Non-Detect | 0.00645(J) | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.753                     | Non-Detect | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.00806(J) | Non-Detect | Non-Detect  |
| GN-AP-MW-3 | 4/19/2018   | Non-Detect   | 31.2       | 1.7(J)   | Non-Detect | 7.69 | 1.9(J)  | 143  | Non-Detect  | Non-Detect | 0.00625(J) | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.171(U)                  | Non-Detect | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.00659(J) | Non-Detect | Non-Detect  |
| GN-AP-MW-3 | 10/3/2018   | Non-Detect   | 32.3       | 1.7(J)   | Non-Detect | 7.7  | 2.7(J)  | 148  | Non-Detect  | Non-Detect | 0.00708(J) | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.433(U)                  | Non-Detect | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.00669(J) | Non-Detect | Non-Detect  |
| GN-AP-MW-3 | 4/2/2019    | Non-Detect   | 31.6       | 1.65     | Non-Detect | 7.8  | 3.24    | 140  | Non-Detect  | Non-Detect | 0.00625(J) | Non-Detect | Non-Detect | Non-Detect | Non-Detect | -0.0631(U)                | Non-Detect | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.00766(J) | Non-Detect | Non-Detect  |
| GN-AP-MW-3 | 9/17/2019   | Non-Detect   | 31.7       | 1.93     | Non-Detect | 7.8  | 4.51    | 145  | Non-Detect  | Non-Detect | 0.00834(J) | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0186(U)                 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.00644(J) | Non-Detect | Non-Detect  |



# Analytical Data Summary

## Plant Gaston 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   |
| 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      | 0.04      | 0.002      | 0.1        | 0.05       | 0.002      |
| UNITS      |             | mg/L         | mg/L    | mg/L     | mg/L       | SE   | 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       |
| GN-AP-MW-5 | 3/30/2016   | 1.82         | 68.3    | 31.9     | 0.048(J)   | 7.61 | 146     | 398  | Non-Detect  | Non-Detect | 0.0339 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 3(U)                      | 0.048(J)   | Non-Detect | 0.0307(J) | Non-Detect | 0.205      | Non-Detect | Non-Detect |
| GN-AP-MW-5 | 5/23/2016   | 2.11         | 63.1    | 29.4     | 0.076(J)   | 7.68 | 160     | 411  | Non-Detect  | Non-Detect | 0.0289 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.45                      | 0.076(J)   | Non-Detect | 0.0374(J) | Non-Detect | 0.257      | Non-Detect | Non-Detect |
| GN-AP-MW-5 | 7/14/2016   | 2.18         | 67.7    | 29.5     | 0.058(J)   | 7.79 | 173     | 424  | Non-Detect  | Non-Detect | 0.0281 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.84                      | 0.058(J)   | Non-Detect | 0.0499(J) | Non-Detect | 0.273      | Non-Detect | Non-Detect |
| GN-AP-MW-5 | 9/13/2016   | 2.13         | 67.8    | 30.8     | 0.055(J)   | 7.69 | 173     | 426  | Non-Detect  | Non-Detect | 0.0301 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.685                     | 0.025(J)   | Non-Detect | 0.0438(J) | Non-Detect | 0.313      | Non-Detect | Non-Detect |
| GN-AP-MW-5 | 11/15/2016  | 2.22         | 68.4    | 30.7     | Non-Detect | 7.72 | 177     | 412  | Non-Detect  | Non-Detect | 0.0296 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.804                     | Non-Detect | Non-Detect | 0.0494(J) | Non-Detect | 0.314      | Non-Detect | Non-Detect |
| GN-AP-MW-5 | 3/1/2017    | 2.24         | 71.8    | 40       | 0.04(J)    | 7.55 | 160     | 452  | 0.00689(J)  | Non-Detect | 0.0395 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.477                     | 0.04(J)    | Non-Detect | 0.0426(J) | Non-Detect | 0.344      | Non-Detect | Non-Detect |
| GN-AP-MW-5 | 5/23/2017   | 2.2          | 70.6    | 40       | 0.05(J)    | 7.64 | 160     | 448  | Non-Detect  | Non-Detect | 0.0307 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | n/a                       | 0.05(J)    | Non-Detect | 0.0416(J) | Non-Detect | 0.287      | Non-Detect | Non-Detect |
| GN-AP-MW-5 | 6/20/2017   | 2.2          | 73.8    | 44       | 0.06(J)    | 7.5  | 150     | 437  | Non-Detect  | Non-Detect | 0.0367 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.737                     | 0.06(J)    | Non-Detect | 0.0376(J) | Non-Detect | 0.265      | Non-Detect | Non-Detect |
| GN-AP-MW-5 | 8/15/2017   | 2.16         | 65.7    | 36       | 0.05(J)    | 7.46 | 170     | 440  | n/a         | n/a        | n/a    | n/a        | n/a        | n/a        | n/a        | 0.05(J)                   | n/a        | n/a        | n/a       | n/a        | n/a        | n/a        | n/a        |
| GN-AP-MW-5 | 1/9/2018    | n/a          | n/a     | n/a      | 0.04(J)    | 7.71 | n/a     | n/a  | Non-Detect  | Non-Detect | 0.0269 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.714                     | 0.04(J)    | Non-Detect | 0.0461(J) | Non-Detect | 0.352      | Non-Detect | Non-Detect |
| GN-AP-MW-5 | 4/17/2018   | 2.22         | 90      | 63       | 0.04(J)    | 7.29 | 130     | 454  | Non-Detect  | Non-Detect | 0.0441 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.641                     | 0.04(J)    | Non-Detect | 0.0319(J) | Non-Detect | 0.135      | Non-Detect | Non-Detect |
| GN-AP-MW-5 | 10/1/2018   | 2.64         | 79.6    | 49       | 0.05(J)    | 7.68 | 140     | 449  | Non-Detect  | Non-Detect | 0.0298 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.651                     | 0.05(J)    | Non-Detect | 0.0482    | Non-Detect | 0.294      | Non-Detect | Non-Detect |
| GN-AP-MW-5 | 4/2/2019    | 1.78         | 69.8    | 39.9     | 0.0555(J)  | 7.47 | 122     | 390  | Non-Detect  | Non-Detect | 0.0371 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.245(U)                  | 0.0555(J)  | Non-Detect | 0.0242    | Non-Detect | 0.164      | Non-Detect | Non-Detect |
| GN-AP-MW-5 | 9/18/2019   | 2.31         | 79.9    | 42.8     | 0.0568(J)  | 7.53 | 167     | 434  | Non-Detect  | Non-Detect | 0.0335 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.435(U)                  | 0.0568(J)  | Non-Detect | 0.043     | Non-Detect | 0.261      | Non-Detect | Non-Detect |

# Analytical Data Summary

## Plant Gaston 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   |            |
| 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      | 0.04       | 0.002      | 0.1        | 0.05       | 0.002      |            |
| UNITS      |             | mg/L         | mg/L    | mg/L     | mg/L       | SE   | 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       |            |
| GN-AP-MW-6 | 3/30/2016   | 2.89         | 75.7    | 30.8     | 0.056(J)   | 7.95 | 204     | 430  | Non-Detect  | 0.00105(J) | 0.0277 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 3(U)                      | 0.056(J)   | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0186     | Non-Detect | Non-Detect |
| GN-AP-MW-6 | 5/19/2016   | 2.84         | 69.7    | 28.7     | 0.09(J)    | 7.88 | 206     | 422  | Non-Detect  | Non-Detect | 0.0282 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.544                     | 0.09(J)    | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0188     | Non-Detect | Non-Detect |
| GN-AP-MW-6 | 7/13/2016   | 2.41         | 62.7    | 24.8     | 0.067(J)   | 8.07 | 176     | 391  | Non-Detect  | Non-Detect | 0.0222 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0469(U)                 | 0.067(J)   | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.017      | Non-Detect | Non-Detect |
| GN-AP-MW-6 | 9/13/2016   | 2.06         | 48.3    | 21.7     | 0.026(J)   | 8.04 | 151     | 378  | Non-Detect  | Non-Detect | 0.017  | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.179(U)                  | 0.026(J)   | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.00943(J) | Non-Detect | Non-Detect |
| GN-AP-MW-6 | 11/15/2016  | 2.08         | 51.8    | 25.9     | Non-Detect | 7.93 | 161     | 354  | Non-Detect  | Non-Detect | 0.0151 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 1.45                      | Non-Detect | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.00741(J) | Non-Detect | Non-Detect |
| GN-AP-MW-6 | 3/1/2017    | 2.25         | 58.4    | 29       | Non-Detect | 7.89 | 160     | 389  | Non-Detect  | Non-Detect | 0.0212 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.166(U)                  | Non-Detect | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0146     | Non-Detect | Non-Detect |
| GN-AP-MW-6 | 5/23/2017   | 2.11         | 54.8    | 28       | 0.04(J)    | 7.96 | 160     | 375  | Non-Detect  | Non-Detect | 0.0162 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | n/a                       | 0.04(J)    | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.00996(J) | Non-Detect | Non-Detect |
| GN-AP-MW-6 | 6/20/2017   | 2.5          | 67.9    | 40       | 0.05(J)    | 7.87 | 160     | 416  | Non-Detect  | Non-Detect | 0.02   | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.484                     | 0.05(J)    | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0148     | Non-Detect | Non-Detect |
| GN-AP-MW-6 | 8/15/2017   | 1.34         | 52.5    | 32       | 0.04(J)    | 7.86 | 160     | 394  | n/a         | n/a        | n/a    | n/a        | n/a        | n/a        | n/a        | n/a                       | 0.04(J)    | n/a        | n/a        | n/a        | n/a        | n/a        | n/a        | n/a        |
| GN-AP-MW-6 | 1/10/2018   | n/a          | n/a     | n/a      | 0.04(J)    | 7.98 | n/a     | n/a  | Non-Detect  | Non-Detect | 0.0183 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.544                     | 0.04(J)    | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0122     | Non-Detect | Non-Detect |
| GN-AP-MW-6 | 4/17/2018   | 2.74         | 77.1    | 52       | 0.04(J)    | 7.82 | 160     | 437  | Non-Detect  | Non-Detect | 0.0271 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.719                     | 0.04(J)    | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0146     | Non-Detect | Non-Detect |
| GN-AP-MW-6 | 10/4/2018   | 2.38         | 61.2    | 50       | 0.05(J)    | 7.87 | 150     | 418  | Non-Detect  | Non-Detect | 0.0189 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.558                     | 0.05(J)    | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0101     | Non-Detect | Non-Detect |
| GN-AP-MW-6 | 4/2/2019    | 2.66         | 80.1    | 66       | 0.0586(J)  | 7.73 | 198     | 447  | 0.000819(J) | Non-Detect | 0.0243 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.569                     | 0.0586(J)  | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0166     | Non-Detect | Non-Detect |
| GN-AP-MW-6 | 9/18/2019   | 2.68         | 83.9    | 65.3     | 0.0634(J)  | 7.85 | 177     | 445  | Non-Detect  | Non-Detect | 0.023  | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.586                     | 0.0634(J)  | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0138     | Non-Detect | Non-Detect |

















# Analytical Data Summary

## Plant Gaston 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      | 0.04       | 0.002      | 0.1        | 0.05       | 0.002      |
| UNITS       |             | mg/L         | mg/L    | mg/L     | mg/L       | SE   | 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       |
| GN-AP-MW-14 | 3/28/2016   | Non-Detect   | 124     | 2.11     | 0.084(J)   | 7.34 | 66.6    | 308  | 0.000985(J) | 0.0048(J)  | 0.0952 | 0.00119(J) | 0.00133    | 0.00577(J) | 0.00969(J) | 3(U)                      | 0.084(J)   | 0.0202     | 0.0107(J)  | Non-Detect | Non-Detect | Non-Detect | Non-Detect |
| GN-AP-MW-14 | 5/17/2016   | Non-Detect   | 74.6    | 2.38     | 0.098(J)   | 7.22 | 63.9    | 314  | Non-Detect  | 0.0016(J)  | 0.0437 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.119(U)                  | 0.098(J)   | 0.00114(J) | Non-Detect | Non-Detect | Non-Detect | Non-Detect |            |
| GN-AP-MW-14 | 7/11/2016   | Non-Detect   | 68.9    | 2.42     | 0.086(J)   | 7.32 | 57.6    | 319  | Non-Detect  | 0.00112(J) | 0.0496 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.51(U)                   | 0.086(J)   | Non-Detect | Non-Detect | Non-Detect | 0.00361(J) | Non-Detect |            |
| GN-AP-MW-14 | 9/13/2016   | Non-Detect   | 80.3    | 2.34     | 0.061(J)   | 7.35 | 82.8    | 354  | Non-Detect  | Non-Detect | 0.0493 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.413(U)                  | 0.061(J)   | Non-Detect | Non-Detect | Non-Detect | Non-Detect | Non-Detect |            |
| GN-AP-MW-14 | 11/15/2016  | Non-Detect   | 102     | 2.55     | Non-Detect | 7.32 | 118     | 452  | Non-Detect  | Non-Detect | 0.0634 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.707                     | Non-Detect | Non-Detect | Non-Detect | Non-Detect | Non-Detect | Non-Detect |            |
| GN-AP-MW-14 | 2/27/2017   | Non-Detect   | 77.9    | 5.8      | 0.12       | 7.38 | 62(J)   | 339  | 0.00076(J)  | Non-Detect | 0.0593 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.479(U)                  | 0.12       | Non-Detect | Non-Detect | Non-Detect | Non-Detect | Non-Detect |            |
| GN-AP-MW-14 | 5/24/2017   | Non-Detect   | 72.9    | 5.9      | 0.12       | 7.41 | 56      | 316  | Non-Detect  | Non-Detect | 0.0476 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | n/a                       | 0.12       | Non-Detect | Non-Detect | Non-Detect | Non-Detect | Non-Detect |            |
| GN-AP-MW-14 | 6/21/2017   | Non-Detect   | 80      | 3.6      | 0.1        | 7.26 | 75      | 376  | Non-Detect  | Non-Detect | 0.0481 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.529                     | 0.1        | Non-Detect | Non-Detect | Non-Detect | Non-Detect | Non-Detect |            |
| GN-AP-MW-14 | 8/15/2017   | Non-Detect   | 72.1    | 4.9      | 0.12       | 7.33 | 67      | 340  | 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        |            |
| GN-AP-MW-14 | 1/9/2018    | n/a          | n/a     | n/a      | 0.14       | 7.5  | n/a     | n/a  | Non-Detect  | Non-Detect | 0.0505 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.91                      | 0.14       | Non-Detect | Non-Detect | Non-Detect | Non-Detect | Non-Detect |            |
| GN-AP-MW-14 | 4/19/2018   | Non-Detect   | 59.6    | 6.5      | 0.13       | 7.48 | 53      | 304  | Non-Detect  | 0.00113(J) | 0.0574 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | -0.42(U)                  | 0.13       | Non-Detect | Non-Detect | Non-Detect | Non-Detect | Non-Detect |            |
| GN-AP-MW-14 | 10/5/2018   | Non-Detect   | 123     | 3.5      | 0.1        | 7.05 | 160     | 544  | Non-Detect  | Non-Detect | 0.0776 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.955                     | 0.1        | Non-Detect | Non-Detect | Non-Detect | Non-Detect | Non-Detect |            |
| GN-AP-MW-14 | 4/3/2019    | Non-Detect   | 63.1    | 5.72     | 0.106      | 7.43 | 75.2    | 336  | 0.000939(J) | Non-Detect | 0.0619 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.189(U)                  | 0.106      | Non-Detect | Non-Detect | Non-Detect | Non-Detect | Non-Detect |            |
| GN-AP-MW-14 | 9/17/2019   | Non-Detect   | 74.9    | 4.16     | 0.116      | 7.3  | 131     | 439  | Non-Detect  | 0.00108(J) | 0.0745 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.558(U)                  | 0.116      | Non-Detect | Non-Detect | Non-Detect | Non-Detect | Non-Detect |            |

# Analytical Data Summary

## Plant Gaston 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   |
| 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      | 0.04       | 0.002      | 0.1        | 0.05       | 0.002      |
| UNITS        |             | mg/L         | mg/L    | mg/L     | mg/L       | SI   | 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       |
| GN-AP-MW-15R | 3/28/2016   | 0.103        | 79.7    | 21.9     | 0.276(J)   | 7.43 | 147     | 426  | 0.000862(J) | 0.00122(J) | 0.0856 | Non-Detect | Non-Detect | Non-Detect | 0.00396(J) | 3(U)                      | 0.276(J)   | Non-Detect | Non-Detect | Non-Detect | 0.0126     | Non-Detect | Non-Detect |
| GN-AP-MW-15R | 5/19/2016   | 0.169        | 91.5    | 20.9     | 0.313      | 7.43 | 224     | 496  | Non-Detect  | 0.0015(J)  | 0.132  | Non-Detect | Non-Detect | Non-Detect | 0.00207(J) | 0.956                     | 0.313      | Non-Detect | Non-Detect | Non-Detect | 0.0142     | Non-Detect | Non-Detect |
| GN-AP-MW-15R | 7/11/2016   | 0.829        | 38.1    | 23       | 0.076(J)   | 7.58 | 133     | 359  | Non-Detect  | Non-Detect | 0.0302 | Non-Detect | Non-Detect | Non-Detect | 0.302(U)   | 0.076(J)                  | Non-Detect | 0.0133(J)  | Non-Detect | 0.0542     | Non-Detect | Non-Detect |            |
| GN-AP-MW-15R | 8/22/2016   | 0.835        | 37.3    | 23.3     | 0.067(J)   | 7.56 | 134     | 349  | Non-Detect  | Non-Detect | 0.0267 | Non-Detect | Non-Detect | Non-Detect | 0.613      | 0.067(J)                  | Non-Detect | 0.0167(J)  | Non-Detect | 0.0577     | Non-Detect | Non-Detect |            |
| GN-AP-MW-15R | 9/14/2016   | 0.838        | 36.5    | 23.6     | 0.036(J)   | 7.52 | 130     | 340  | Non-Detect  | Non-Detect | 0.0247 | Non-Detect | Non-Detect | Non-Detect | 0.301(U)   | 0.036(J)                  | Non-Detect | 0.0196(J)  | Non-Detect | 0.0627     | Non-Detect | Non-Detect |            |
| GN-AP-MW-15R | 11/15/2016  | 0.894        | 36.8    | 23.8     | Non-Detect | 7.57 | 132     | 324  | Non-Detect  | Non-Detect | 0.0273 | Non-Detect | Non-Detect | Non-Detect | 0.538(U)   | Non-Detect                | 0.034(J)   | Non-Detect | 0.0712     | Non-Detect | Non-Detect | Non-Detect |            |
| GN-AP-MW-15R | 1/3/2017    | 0.897        | 38      | 24.1     | Non-Detect | 7.62 | 143     | 348  | Non-Detect  | Non-Detect | 0.026  | Non-Detect | Non-Detect | Non-Detect | 0.394(U)   | Non-Detect                | Non-Detect | 0.0305(J)  | Non-Detect | 0.0788     | Non-Detect | Non-Detect |            |
| GN-AP-MW-15R | 2/27/2017   | 0.897        | 36.8    | 27       | 0.06(J)    | 7.52 | 130     | 347  | 0.00094(J)  | Non-Detect | 0.0301 | Non-Detect | Non-Detect | Non-Detect | 0.129(U)   | 0.06(J)                   | Non-Detect | 0.0386(J)  | Non-Detect | 0.121      | Non-Detect | Non-Detect |            |
| GN-AP-MW-15R | 5/22/2017   | 0.892        | 36.9    | 28       | 0.07(J)    | 7.52 | 120     | 348  | Non-Detect  | Non-Detect | 0.0274 | Non-Detect | Non-Detect | Non-Detect | n/a        | 0.07(J)                   | Non-Detect | 0.0451(J)  | Non-Detect | 0.117      | Non-Detect | Non-Detect |            |
| GN-AP-MW-15R | 6/20/2017   | 0.91         | 36.9    | 27       | 0.07(J)    | 7.46 | 120     | 343  | Non-Detect  | Non-Detect | 0.0292 | Non-Detect | Non-Detect | Non-Detect | 0.362(U)   | 0.07(J)                   | Non-Detect | 0.043(J)   | Non-Detect | 0.121      | Non-Detect | Non-Detect |            |
| GN-AP-MW-15R | 8/14/2017   | 0.906        | 39.5    | 27       | 0.07(J)    | 7.57 | 140     | 332  | n/a         | n/a        | n/a    | n/a        | n/a        | n/a        | n/a        | 0.07(J)                   | n/a        | n/a        | n/a        | n/a        | n/a        | n/a        |            |
| GN-AP-MW-15R | 1/9/2018    | n/a          | n/a     | n/a      | 0.08(J)    | 7.64 | n/a     | n/a  | Non-Detect  | Non-Detect | 0.0216 | Non-Detect | Non-Detect | Non-Detect | 1.35       | 0.08(J)                   | Non-Detect | 0.0595     | Non-Detect | 0.138      | Non-Detect | Non-Detect |            |
| GN-AP-MW-15R | 4/19/2018   | 0.991        | 43.4    | 32       | 0.08(J)    | 7.51 | 150     | 369  | Non-Detect  | Non-Detect | 0.0368 | Non-Detect | Non-Detect | Non-Detect | 0.438(U)   | 0.08(J)                   | Non-Detect | 0.0793     | Non-Detect | 0.141      | Non-Detect | Non-Detect |            |
| GN-AP-MW-15R | 10/8/2018   | 4.34         | 163     | 120      | 0.1        | 7.33 | 260     | 762  | Non-Detect  | 0.0015(J)  | 0.0818 | Non-Detect | Non-Detect | Non-Detect | 1.47       | 0.1                       | Non-Detect | 0.113      | Non-Detect | 0.214      | Non-Detect | Non-Detect |            |
| GN-AP-MW-15R | 4/3/2019    | 4.18         | 209     | 156      | 0.104      | 7.7  | 339     | 810  | 0.00113(J)  | 0.00207(J) | 0.134  | Non-Detect | Non-Detect | Non-Detect | 1.16       | 0.104                     | Non-Detect | 0.149      | Non-Detect | 0.433      | Non-Detect | Non-Detect |            |
| GN-AP-MW-15R | 5/7/2019    | 4.13         | 175     | 180      | 0.0937(J)  | 7.57 | 351     | 810  | 0.000998(J) | 0.0016(J)  | 0.0774 | Non-Detect | Non-Detect | Non-Detect | 1.36       | 0.0937(J)                 | Non-Detect | 0.164      | Non-Detect | 0.292      | Non-Detect | Non-Detect |            |
| GN-AP-MW-15R | 9/18/2019   | 3.47         | 139     | 142      | 0.094(J)   | 7.5  | 283     | 704  | Non-Detect  | Non-Detect | 0.0799 | Non-Detect | Non-Detect | Non-Detect | 0.94       | 0.094(J)                  | Non-Detect | 0.186      | Non-Detect | 0.307      | Non-Detect | Non-Detect |            |

# Analytical Data Summary

## Plant Gaston 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      | 0.04    | 0.002      | 0.1        | 0.05       | 0.002      |
| UNITS       |             | mg/L         | mg/L    | mg/L     | mg/L     | SE   | 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       |
| GN-AP-MW-16 | 3/29/2016   | 1.32         | 43.2    | 10.8     | 0.118(J) | 8.15 | 146     | 277  | 0.000838(J) | 0.00385(J) | 0.031  | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 2.84251                   | 0.118(J) | Non-Detect | 0.0774  | Non-Detect | 0.288      | Non-Detect | Non-Detect |
| GN-AP-MW-16 | 5/17/2016   | 1.35         | 41.4    | 10       | 0.151(J) | 8.18 | 140     | 261  | Non-Detect  | 0.00337(J) | 0.0313 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 3.09                      | 0.151(J) | Non-Detect | 0.0738  | Non-Detect | 0.269      | Non-Detect | Non-Detect |
| GN-AP-MW-16 | 7/14/2016   | 1.32         | 41.9    | 10.1     | 0.124(J) | 8.23 | 155     | 255  | Non-Detect  | 0.00407(J) | 0.0336 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 2.65                      | 0.124(J) | Non-Detect | 0.0788  | Non-Detect | 0.305      | Non-Detect | Non-Detect |
| GN-AP-MW-16 | 9/13/2016   | 1.31         | 39.6    | 10.4     | 0.089(J) | 8.25 | 129     | 264  | Non-Detect  | 0.00394(J) | 0.0286 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 3.22                      | 0.089(J) | Non-Detect | 0.0748  | Non-Detect | 0.306      | Non-Detect | Non-Detect |
| GN-AP-MW-16 | 11/14/2016  | 1.34         | 41      | 10.4     | 0.023(J) | 8.31 | 131     | 249  | Non-Detect  | 0.0037(J)  | 0.0296 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 4.18                      | 0.022(J) | Non-Detect | 0.0851  | Non-Detect | 0.305      | Non-Detect | Non-Detect |
| GN-AP-MW-16 | 2/28/2017   | 1.28         | 41.8    | 12       | 0.1      | 8.31 | 130     | 251  | 0.000632(J) | 0.00409(J) | 0.0315 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 3.61                      | 0.1      | Non-Detect | 0.0766  | Non-Detect | 0.368      | Non-Detect | Non-Detect |
| GN-AP-MW-16 | 5/24/2017   | 1.24         | 39.8    | 12       | 0.12     | 8.22 | 130     | 257  | Non-Detect  | 0.00419(J) | 0.0275 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | n/a                       | 0.12     | Non-Detect | 0.0722  | Non-Detect | 0.275      | Non-Detect | Non-Detect |
| GN-AP-MW-16 | 6/19/2017   | 1.26         | 40.2    | 11       | 0.13     | 8.18 | 110     | 258  | Non-Detect  | 0.00424(J) | 0.0279 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 3                         | 0.13     | Non-Detect | 0.0693  | Non-Detect | 0.26       | Non-Detect | Non-Detect |
| GN-AP-MW-16 | 8/14/2017   | 1.24         | 41.3    | 12       | 0.12     | 8.32 | 140     | 263  | 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        |
| GN-AP-MW-16 | 1/9/2018    | n/a          | n/a     | n/a      | 0.13     | 8.21 | n/a     | n/a  | Non-Detect  | 0.00595    | 0.0273 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 3.76                      | 0.13     | Non-Detect | 0.0781  | Non-Detect | 0.316      | Non-Detect | Non-Detect |
| GN-AP-MW-16 | 4/19/2018   | 1.34         | 42.3    | 12       | 0.13     | 8.28 | 130     | 247  | Non-Detect  | 0.00484(J) | 0.0307 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 3.32                      | 0.13     | Non-Detect | 0.0752  | Non-Detect | 0.275      | Non-Detect | Non-Detect |
| GN-AP-MW-16 | 10/1/2018   | 1.29         | 41.5    | 14       | 0.15     | 8.14 | 80      | 252  | Non-Detect  | 0.00466(J) | 0.0295 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 2.91                      | 0.15     | Non-Detect | 0.076   | Non-Detect | 0.267      | Non-Detect | Non-Detect |
| GN-AP-MW-16 | 4/3/2019    | 1.32         | 45.7    | 15.9     | 0.12     | 8.3  | 161     | 273  | Non-Detect  | 0.00466(J) | 0.0335 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 3.43                      | 0.12     | Non-Detect | 0.0814  | Non-Detect | 0.311      | Non-Detect | Non-Detect |
| GN-AP-MW-16 | 9/16/2019   | 1.4          | 61.3    | 20.4     | 0.126    | 7.94 | 147     | 293  | Non-Detect  | 0.00492(J) | 0.0393 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 3.55                      | 0.126    | Non-Detect | 0.0926  | Non-Detect | 0.32       | Non-Detect | Non-Detect |



# Analytical Data Summary

## Plant Gaston 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   |
| 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      | 0.04       | 0.002      | 0.1        | 0.05       | 0.002      |
| UNITS       |             | mg/L         | mg/L    | mg/L     | mg/L     | SI   | 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       |
| GN-AP-MW-17 | 3/29/2016   | 3.04         | 77.4    | 14.7     | 0.221(J) | 9.66 | 254     | 451  | 0.01107(J)  | 0.0125  | 0.0849 | Non-Detect | 0.000357(J) | Non-Detect | Non-Detect | 3(U)                      | 0.221(J)   | Non-Detect | 0.646      | Non-Detect | 2.19       | Non-Detect | Non-Detect |
| GN-AP-MW-17 | 5/17/2016   | 3.1          | 70.3    | 13.8     | 0.241(J) | 9.56 | 251     | 432  | 0.000869(J) | 0.0112  | 0.0891 | Non-Detect | 0.000216(J) | Non-Detect | Non-Detect | 0.792                     | 0.241(J)   | Non-Detect | 0.613      | Non-Detect | 2.24       | Non-Detect | Non-Detect |
| GN-AP-MW-17 | 7/14/2016   | 2.96         | 73      | 13.8     | 0.213(J) | 9.63 | 246     | 434  | 0.000882(J) | 0.013   | 0.0965 | Non-Detect | 0.000277(J) | Non-Detect | Non-Detect | 0.864                     | 0.213(J)   | Non-Detect | 0.616      | Non-Detect | 2.1        | Non-Detect | Non-Detect |
| GN-AP-MW-17 | 9/13/2016   | 2.94         | 70.7    | 14.1     | 0.168(J) | 9.57 | 238     | 432  | 0.000807(J) | 0.0124  | 0.0811 | Non-Detect | 0.000203(J) | Non-Detect | Non-Detect | 1.01                      | 0.168(J)   | Non-Detect | 0.592      | Non-Detect | 2.3        | Non-Detect | Non-Detect |
| GN-AP-MW-17 | 11/16/2016  | 2.96         | 51.7    | 14.2     | 0.103(J) | 9.59 | 234     | 412  | 0.000801(J) | 0.0121  | 0.0833 | Non-Detect | 0.00027(J)  | Non-Detect | Non-Detect | 1.27                      | 0.103(J)   | Non-Detect | 0.603      | Non-Detect | 1.92       | Non-Detect | Non-Detect |
| GN-AP-MW-17 | 2/28/2017   | 2.92         | 73.1    | 17       | 0.22     | 9.56 | 240     | 434  | 0.00129(J)  | 0.0127  | 0.0897 | Non-Detect | 0.000351(J) | Non-Detect | Non-Detect | 0.347(U)                  | 0.22       | Non-Detect | 0.562      | Non-Detect | 2.6        | Non-Detect | Non-Detect |
| GN-AP-MW-17 | 5/24/2017   | 2.66         | 70.6    | 17       | 0.2      | 9.71 | 230     | 425  | 0.000774(J) | 0.0121  | 0.0673 | Non-Detect | 0.000339(J) | Non-Detect | Non-Detect | n/a                       | 0.2        | Non-Detect | 0.561      | Non-Detect | 1.77       | Non-Detect | Non-Detect |
| GN-AP-MW-17 | 6/19/2017   | 2.7          | 67.7    | 16       | 0.21     | 9.67 | 200     | 424  | 0.000792(J) | 0.0129  | 0.0767 | Non-Detect | 0.000318(J) | Non-Detect | Non-Detect | 0.317(U)                  | 0.21       | Non-Detect | 0.543      | Non-Detect | 1.9        | Non-Detect | Non-Detect |
| GN-AP-MW-17 | 8/14/2017   | 2.64         | 72.8    | 17       | 0.22     | 9.62 | 250     | 428  | 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        | n/a        |
| GN-AP-MW-17 | 1/9/2018    | n/a          | n/a     | n/a      | 0.24     | 9.77 | n/a     | n/a  | 0.000904(J) | 0.0138  | 0.074  | Non-Detect | Non-Detect  | Non-Detect | Non-Detect | 1.07                      | 0.24       | Non-Detect | 0.621      | Non-Detect | 2.14       | Non-Detect | Non-Detect |
| GN-AP-MW-17 | 4/19/2018   | 2.87         | 80.8    | 21       | 0.22     | 9.59 | 250     | 455  | 0.000731(J) | 0.0125  | 0.088  | Non-Detect | 0.000415(J) | Non-Detect | Non-Detect | 1.31                      | 0.22       | Non-Detect | 0.591      | Non-Detect | 1.87       | Non-Detect | Non-Detect |
| GN-AP-MW-17 | 10/1/2018   | 2.83         | 102     | 30       | 0.25     | 9.48 | 280     | 492  | Non-Detect  | 0.0118  | 0.0898 | Non-Detect | 0.000491(J) | Non-Detect | Non-Detect | 0.793                     | 0.25       | Non-Detect | 0.628      | Non-Detect | 1.95       | Non-Detect | Non-Detect |
| GN-AP-MW-17 | 4/3/2019    | 2.92         | 116     | 38       | 0.182    | 9.56 | 346     | 536  | 0.00135(J)  | 0.0106  | 0.105  | Non-Detect | 0.00051(J)  | Non-Detect | Non-Detect | 0.907                     | 0.182      | Non-Detect | 0.716      | Non-Detect | 2.33       | Non-Detect | Non-Detect |
| GN-AP-MW-17 | 9/17/2019   | 3.25         | 131     | 43.2     | 0.187    | 9.18 | 322     | 592  | Non-Detect  | 0.0109  | 0.12   | Non-Detect | Non-Detect  | Non-Detect | 2.09       | 0.187                     | Non-Detect | 0.785      | Non-Detect | 2.33       | Non-Detect | Non-Detect |            |

# Analytical Data Summary

## Plant Gaston 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    |
| 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      | 0.04      | 0.002      | 0.1        | 0.05       | 0.002       |
| UNITS       |             | mg/L         | mg/L    | mg/L     | mg/L       | SE   | 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        |
| GN-AP-MW-18 | 3/29/2016   | 1.33         | 104     | 11.1     | 0.04(J)    | 6.95 | 163     | 560  | Non-Detect  | 0.00273(J) | 0.0435 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 3(U)                      | 0.04(J)    | Non-Detect | 0.0396(J) | Non-Detect | 0.017      | Non-Detect | 0.000428(J) |
| GN-AP-MW-18 | 5/17/2016   | 1.37         | 110     | 10.3     | 0.079(J)   | 6.87 | 159     | 540  | Non-Detect  | 0.00237(J) | 0.0451 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 1.2                       | 0.079(J)   | Non-Detect | 0.04(J)   | Non-Detect | 0.0167     | Non-Detect | 0.000343(J) |
| GN-AP-MW-18 | 7/18/2016   | 1.31         | 109     | 10.3     | 0.058(J)   | 6.85 | 154     | 546  | Non-Detect  | 0.0024(J)  | 0.0428 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 1.19                      | 0.058(J)   | Non-Detect | 0.0439(J) | Non-Detect | 0.0161     | Non-Detect | 0.000359(J) |
| GN-AP-MW-18 | 9/14/2016   | 1.28         | 101     | 10.3     | 0.055(J)   | 6.9  | 143     | 542  | Non-Detect  | 0.00243(J) | 0.0415 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 1.31                      | 0.025(J)   | Non-Detect | 0.0371(J) | Non-Detect | 0.0183     | Non-Detect | 0.000345(J) |
| GN-AP-MW-18 | 11/14/2016  | 1.31         | 105     | 10.3     | Non-Detect | 6.89 | 151     | 514  | Non-Detect  | 0.00232(J) | 0.0422 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 1.29                      | Non-Detect | Non-Detect | 0.0398(J) | Non-Detect | 0.0171     | Non-Detect | 0.000367(J) |
| GN-AP-MW-18 | 2/28/2017   | 1.29         | 108     | 12       | 0.04(J)    | 6.83 | 140     | 536  | 0.000728(J) | 0.00259(J) | 0.0466 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.727                     | 0.04(J)    | Non-Detect | 0.032(J)  | Non-Detect | 0.0209     | Non-Detect | 0.000359(J) |
| GN-AP-MW-18 | 5/24/2017   | 1.17         | 102     | 13       | 0.05(J)    | 6.87 | 150     | 536  | Non-Detect  | 0.00229(J) | 0.0382 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | n/a                       | 0.05(J)    | Non-Detect | 0.0331(J) | Non-Detect | 0.0168     | Non-Detect | 0.000376(J) |
| GN-AP-MW-18 | 6/19/2017   | 1.24         | 107     | 12       | 0.05(J)    | 6.89 | 140     | 598  | Non-Detect  | 0.00248(J) | 0.0408 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.98                      | 0.05(J)    | Non-Detect | 0.0342(J) | Non-Detect | 0.0173     | Non-Detect | 0.000379(J) |
| GN-AP-MW-18 | 8/14/2017   | 1.19         | 105     | 12       | 0.05(J)    | 6.89 | 150     | 550  | n/a         | n/a        | n/a    | n/a        | n/a        | n/a        | n/a        | n/a                       | 0.05(J)    | n/a        | n/a       | n/a        | n/a        | n/a        | n/a         |
| GN-AP-MW-18 | 1/9/2018    | n/a          | n/a     | n/a      | 0.05(J)    | 6.95 | n/a     | n/a  | Non-Detect  | 0.00276(J) | 0.0394 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 1.79                      | 0.05(J)    | Non-Detect | 0.0382(J) | Non-Detect | 0.0211     | Non-Detect | 0.000312(J) |
| GN-AP-MW-18 | 4/19/2018   | 1.3          | 113     | 12       | 0.05(J)    | 6.89 | 140     | 540  | Non-Detect  | 0.00259(J) | 0.0434 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.981                     | 0.05(J)    | Non-Detect | 0.0358(J) | Non-Detect | 0.0186     | Non-Detect | 0.000418(J) |
| GN-AP-MW-18 | 10/1/2018   | 1.26         | 123     | 13       | 0.06(J)    | 6.89 | 140     | 514  | Non-Detect  | 0.00288(J) | 0.0424 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 1.54                      | 0.06(J)    | Non-Detect | 0.0386    | Non-Detect | 0.0192     | Non-Detect | 0.000371(J) |
| GN-AP-MW-18 | 4/3/2019    | 1.27         | 139     | 12.1     | 0.0678(J)  | 6.9  | 168     | 560  | Non-Detect  | 0.0067     | 0.045  | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 1.49                      | 0.0678(J)  | Non-Detect | 0.0393    | Non-Detect | 0.0214     | Non-Detect | 0.00034(J)  |
| GN-AP-MW-18 | 9/18/2019   | 1.47         | 126     | 12.2     | 0.0551(J)  | 6.86 | 173     | 592  | Non-Detect  | 0.00308(J) | 0.0524 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 1.25                      | 0.0551(J)  | Non-Detect | 0.0492    | Non-Detect | 0.0243     | Non-Detect | 0.000479(J) |

# Analytical Data Summary

## Plant Gaston 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      | 0.04       | 0.002      | 0.1        | 0.05     | 0.002      |            |
| UNITS       |             | mg/L         | mg/L    | mg/L       | mg/L       | SE   | 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       | mg/L       |
| GN-AP-MW-19 | 3/28/2016   | 0.0538(J)    | 46      | 9.86       | 0.083(J)   | 7.24 | 16.8    | 213  | Non-Detect  | 0.00463(J) | 0.037  | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 3(U)                      | 0.083(J)   | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0157   | Non-Detect | Non-Detect |
| GN-AP-MW-19 | 5/18/2016   | 0.0252(J)    | 42.9    | 9.4        | 0.092(J)   | 7.5  | 14.9    | 206  | Non-Detect  | 0.00511    | 0.0492 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.425                     | 0.092(J)   | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0125   | Non-Detect | Non-Detect |
| GN-AP-MW-19 | 7/13/2016   | Non-Detect   | 43.1    | 10.3       | 0.064(J)   | 7.63 | 24.2    | 225  | Non-Detect  | 0.004(J)   | 0.0555 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.584                     | 0.064(J)   | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0138   | Non-Detect | Non-Detect |
| GN-AP-MW-19 | 9/13/2016   | Non-Detect   | 44.1    | 9.68       | 0.03(J)    | 7.53 | 16.8    | 212  | Non-Detect  | 0.00488(J) | 0.0421 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.46(U)                   | 0.03(J)    | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0127   | Non-Detect | Non-Detect |
| GN-AP-MW-19 | 11/16/2016  | Non-Detect   | 42.7    | 10.2       | Non-Detect | 7.55 | 21.7    | 224  | Non-Detect  | 0.00513    | 0.042  | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 1.58                      | Non-Detect | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0118   | Non-Detect | Non-Detect |
| GN-AP-MW-19 | 2/27/2017   | Non-Detect   | 43.1    | 12         | Non-Detect | 7.53 | 23      | 223  | Non-Detect  | 0.00425(J) | 0.0407 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.326(U)                  | Non-Detect | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0145   | Non-Detect | Non-Detect |
| GN-AP-MW-19 | 5/22/2017   | Non-Detect   | 41.9    | 12         | 0.04(J)    | 7.5  | 26      | 219  | Non-Detect  | 0.00252(J) | 0.0271 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | n/a                       | 0.04(J)    | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0122   | Non-Detect | Non-Detect |
| GN-AP-MW-19 | 6/21/2017   | Non-Detect   | 41.8    | 12         | 0.05(J)    | 7.51 | 20      | 164  | Non-Detect  | 0.00314(J) | 0.024  | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.143(U)                  | 0.05(J)    | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0123   | Non-Detect | Non-Detect |
| GN-AP-MW-19 | 8/4/2017    | Non-Detect   | 43      | 12         | 0.04(J)    | 7.43 | 22      | 232  | n/a         | n/a        | n/a    | n/a        | n/a        | n/a        | n/a        | n/a                       | 0.04(J)    | n/a        | n/a        | n/a        | n/a        | n/a      | n/a        | n/a        |
| GN-AP-MW-19 | 1/10/2018   | n/a          | n/a     | n/a        | 0.04(J)    | 7.5  | n/a     | n/a  | Non-Detect  | 0.00294(J) | 0.0195 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.67                      | 0.04(J)    | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0127   | Non-Detect | Non-Detect |
| GN-AP-MW-19 | 4/19/2018   | 0.0258(J)    | 43.2    | 11         | 0.04(J)    | 7.5  | 24      | 218  | Non-Detect  | 0.00298(J) | 0.0208 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.316(U)                  | 0.04(J)    | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0111   | Non-Detect | Non-Detect |
| GN-AP-MW-19 | 10/2/2018   | Non-Detect   | 43.8    | Non-Detect | 0.05(J)    | 7.57 | 24      | 212  | Non-Detect  | 0.00361(J) | 0.0186 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.854                     | 0.05(J)    | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0113   | Non-Detect | Non-Detect |
| GN-AP-MW-19 | 4/1/2019    | Non-Detect   | 45.6    | 11.9       | 0.0563(J)  | 7.58 | 24.4    | 225  | 0.00123(J)  | 0.0024(J)  | 0.0188 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.263(U)                  | 0.0563(J)  | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0132   | Non-Detect | Non-Detect |
| GN-AP-MW-19 | 9/18/2019   | Non-Detect   | 45.6    | 11.6       | 0.0507(J)  | 7.6  | 23.6    | 222  | Non-Detect  | 0.00322(J) | 0.0211 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.29(U)                   | 0.0507(J)  | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0128   | Non-Detect | Non-Detect |

# Analytical Data Summary

## Plant Gaston 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   |
| 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      | 0.04    | 0.002      | 0.1        | 0.05       | 0.002      |
| UNITS       |             | mg/L         | mg/L    | mg/L     | mg/L       | SE   | 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       |
| GN-AP-MW-20 | 3/29/2016   | 3.48         | 163     | 17.2     | 0.035(J)   | 7.96 | 556     | 862  | Non-Detect  | 0.00424(J) | 0.0691 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 17.244                    | 0.055(J)   | Non-Detect | 0.118   | Non-Detect | 0.637      | Non-Detect | Non-Detect |
| GN-AP-MW-20 | 5/18/2016   | 3.61         | 160     | 16.2     | 0.076(J)   | 7.88 | 559     | 882  | Non-Detect  | 0.00409(J) | 0.074  | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 19.9                      | 0.076(J)   | Non-Detect | 0.12    | Non-Detect | 0.657      | Non-Detect | Non-Detect |
| GN-AP-MW-20 | 7/13/2016   | 3.7          | 158     | 16.2     | 0.053(J)   | 7.92 | 560     | 874  | Non-Detect  | 0.00512    | 0.0784 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 18.1                      | 0.053(J)   | Non-Detect | 0.135   | Non-Detect | 0.774      | Non-Detect | Non-Detect |
| GN-AP-MW-20 | 9/14/2016   | 3.53         | 156     | 16.2     | 0.022(J)   | 7.85 | 553     | 908  | Non-Detect  | 0.00411(J) | 0.0658 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 20.3                      | 0.022(J)   | Non-Detect | 0.115   | Non-Detect | 0.725      | Non-Detect | Non-Detect |
| GN-AP-MW-20 | 11/14/2016  | 3.51         | 156     | 16.1     | Non-Detect | 7.84 | 551     | 804  | Non-Detect  | 0.00365(J) | 0.0634 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 17.2                      | Non-Detect | Non-Detect | 0.114   | Non-Detect | 0.63       | Non-Detect | Non-Detect |
| GN-AP-MW-20 | 2/28/2017   | 3.44         | 150     | 18       | Non-Detect | 7.81 | 560     | 930  | 0.000643(J) | 0.00369(J) | 0.0676 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 13.9                      | Non-Detect | Non-Detect | 0.0991  | Non-Detect | 0.767      | Non-Detect | Non-Detect |
| GN-AP-MW-20 | 5/24/2017   | 3.31         | 150     | 18       | 0.04(J)    | 7.65 | 530     | 886  | Non-Detect  | 0.00369(J) | 0.0551 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | n/a                       | 0.04(J)    | Non-Detect | 0.103   | Non-Detect | 0.623      | Non-Detect | Non-Detect |
| GN-AP-MW-20 | 6/19/2017   | 3.48         | 153     | 18       | 0.04(J)    | 7.79 | 510     | 924  | Non-Detect  | 0.00397(J) | 0.0604 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 15.6                      | 0.04(J)    | Non-Detect | 0.104   | Non-Detect | 0.667      | Non-Detect | Non-Detect |
| GN-AP-MW-20 | 8/14/2017   | 3.4          | 159     | 18       | 0.04(J)    | 7.82 | 540     | 872  | n/a         | n/a        | n/a    | n/a        | n/a        | n/a        | n/a        | n/a                       | 0.04(J)    | n/a        | n/a     | n/a        | n/a        | n/a        | n/a        |
| GN-AP-MW-20 | 1/9/2018    | n/a          | n/a     | n/a      | 0.04(J)    | 7.87 | n/a     | n/a  | Non-Detect  | 0.00428(J) | 0.0562 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 14.7                      | 0.04(J)    | Non-Detect | 0.112   | Non-Detect | 0.803      | Non-Detect | Non-Detect |
| GN-AP-MW-20 | 4/19/2018   | 3.74         | 192     | 17       | 0.04(J)    | 7.85 | 520     | 880  | Non-Detect  | 0.00374(J) | 0.0634 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 11.6                      | 0.04(J)    | Non-Detect | 0.106   | Non-Detect | 0.689      | Non-Detect | Non-Detect |
| GN-AP-MW-20 | 10/1/2018   | 3.73         | 184     | 19       | 0.05(J)    | 7.82 | 590     | 866  | Non-Detect  | 0.00372(J) | 0.061  | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 15.7                      | 0.05(J)    | Non-Detect | 0.11    | Non-Detect | 0.775      | Non-Detect | Non-Detect |
| GN-AP-MW-20 | 4/3/2019    | 3.77         | 206     | 17.9     | 0.0657(J)  | 7.45 | 577     | 910  | Non-Detect  | 0.00398(J) | 0.0599 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 13.8                      | 0.0657(J)  | Non-Detect | 0.115   | Non-Detect | 0.803      | Non-Detect | Non-Detect |
| GN-AP-MW-20 | 9/18/2019   | 4.12         | 172     | 18.7     | Non-Detect | 7.9  | 526     | 908  | Non-Detect  | 0.00425(J) | 0.0651 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 15.7                      | Non-Detect | Non-Detect | 0.131   | Non-Detect | 0.837      | Non-Detect | Non-Detect |

# Analytical Data Summary

## Plant Gaston 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   |            |
| 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      | 0.04       | 0.002      | 0.1        | 0.05       | 0.002      |            |
| UNITS       |             | mg/L         | mg/L    | mg/L     | mg/L       | SE   | 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       |            |
| GN-AP-MW-21 | 7/13/2016   | 1.63         | 66.6    | 34.8     | 0.118(J)   | 7.83 | 159     | 468  | Non-Detect  | 0.00666    | 0.0425 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.355(U)                  | 0.118(J)   | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0119     | Non-Detect | Non-Detect |
| GN-AP-MW-21 | 8/22/2016   | 1.32         | 52.8    | 25.1     | 0.117(J)   | 7.86 | 107     | 393  | Non-Detect  | 0.0088     | 0.0214 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.816                     | 0.117(J)   | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.00256(J) | Non-Detect | Non-Detect |
| GN-AP-MW-21 | 9/13/2016   | 1.85         | 68      | 34.1     | 0.068(J)   | 7.75 | 155     | 428  | Non-Detect  | 0.00489(J) | 0.0628 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.761                     | 0.068(J)   | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.00628(J) | Non-Detect | Non-Detect |
| GN-AP-MW-21 | 11/18/2016  | 2.12         | 75.2    | 40.1     | Non-Detect | 7.66 | 172     | 452  | Non-Detect  | 0.00395(J) | 0.06   | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 1.43                      | Non-Detect | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0105     | Non-Detect | Non-Detect |
| GN-AP-MW-21 | 1/3/2017    | 2.01         | 80.9    | 38.5     | Non-Detect | 7.57 | 163     | 418  | Non-Detect  | 0.00343(J) | 0.0348 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 1.11                      | Non-Detect | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0131     | Non-Detect | Non-Detect |
| GN-AP-MW-21 | 3/7/2017    | 1.47         | 58      | 23       | 0.04(J)    | 7.53 | 140     | 346  | Non-Detect  | 0.00348(J) | 0.0395 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.378(U)                  | 0.04(J)    | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.00593(J) | Non-Detect | Non-Detect |
| GN-AP-MW-21 | 5/23/2017   | 1.41         | 56.3    | 21       | 0.04(J)    | 7.78 | 140     | 386  | Non-Detect  | 0.00294(J) | 0.0279 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | n/a                       | 0.04(J)    | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.00491(J) | Non-Detect | Non-Detect |
| GN-AP-MW-21 | 6/20/2017   | 1.38         | 56.8    | 22       | 0.04(J)    | 7.82 | 130     | 363  | Non-Detect  | 0.00286(J) | 0.0255 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.224(U)                  | 0.04(J)    | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.00392(J) | Non-Detect | Non-Detect |
| GN-AP-MW-21 | 8/15/2017   | 2.04         | 54.5    | 21       | Non-Detect | 7.73 | 150     | 364  | 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        | n/a        |
| GN-AP-MW-21 | 1/10/2018   | n/a          | n/a     | n/a      | 0.06(J)    | 7.67 | n/a     | n/a  | Non-Detect  | 0.00318(J) | 0.033  | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 1.11                      | 0.06(J)    | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0126     | Non-Detect | Non-Detect |
| GN-AP-MW-21 | 4/17/2018   | 1.66         | 64.5    | 29       | Non-Detect | 7.66 | 150     | 410  | Non-Detect  | 0.00195(J) | 0.0205 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.367(U)                  | Non-Detect | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.00623(J) | Non-Detect | Non-Detect |
| GN-AP-MW-21 | 10/4/2018   | 2.58         | 102     | 58       | 0.07(J)    | 7.51 | 180     | 506  | Non-Detect  | 0.00309(J) | 0.0314 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 1.05                      | 0.07(J)    | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0159     | Non-Detect | Non-Detect |
| GN-AP-MW-21 | 4/2/2019    | 1.5          | 61.1    | 27       | Non-Detect | 7.67 | 189     | 401  | Non-Detect  | 0.00134(J) | 0.0146 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.182(U)                  | Non-Detect | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.00611(J) | Non-Detect | Non-Detect |
| GN-AP-MW-21 | 9/18/2019   | 2.51         | 98.3    | 64       | 0.0749(J)  | 7.15 | 197     | 504  | Non-Detect  | 0.00239(J) | 0.0362 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.435(U)                  | 0.0749(J)  | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0172     | Non-Detect | Non-Detect |

# Analytical Data Summary

## Plant Gaston 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   |            |
| 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      | 0.04       | 0.002      | 0.1        | 0.05     | 0.002      |            |
| UNITS       |             | mg/L         | mg/L    | mg/L     | mg/L       | SE   | 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       |            |
| GN-AP-MW-22 | 7/4/2016    | 1.73         | 61.5    | 26.9     | 0.096(J)   | 7.74 | 172     | 435  | Non-Detect  | 0.00305(J) | 0.103  | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.711                     | 0.096(J)   | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0633   | Non-Detect | Non-Detect |
| GN-AP-MW-22 | 8/22/2016   | 1.66         | 71.3    | 37.6     | 0.088(J)   | 7.55 | 170     | 426  | Non-Detect  | 0.00169(J) | 0.0662 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.615                     | 0.088(J)   | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0436   | Non-Detect | Non-Detect |
| GN-AP-MW-22 | 9/13/2016   | 1.85         | 70.3    | 30       | 0.054(J)   | 7.63 | 171     | 430  | Non-Detect  | 0.00207(J) | 0.0644 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.878                     | 0.054(J)   | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.069    | Non-Detect | Non-Detect |
| GN-AP-MW-22 | 11/18/2016  | 2.09         | 69      | 22.7     | Non-Detect | 7.74 | 173     | 404  | Non-Detect  | 0.00321(J) | 0.132  | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.671                     | Non-Detect | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.094    | Non-Detect | Non-Detect |
| GN-AP-MW-22 | 1/3/2017    | 1.89         | 77.4    | 26.5     | Non-Detect | 7.69 | 183     | 428  | Non-Detect  | 0.00261(J) | 0.098  | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 1                         | Non-Detect | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0783   | Non-Detect | Non-Detect |
| GN-AP-MW-22 | 3/1/2017    | 1.88         | 77.4    | 56       | 0.06(J)    | 7.47 | 170     | 484  | 0.000678(J) | 0.00135(J) | 0.0423 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.534                     | 0.06(J)    | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0627   | Non-Detect | Non-Detect |
| GN-AP-MW-22 | 5/23/2017   | 1.87         | 76.6    | 48       | 0.07(J)    | 7.5  | 180     | 460  | Non-Detect  | 0.00151(J) | 0.0359 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | n/a                       | 0.07(J)    | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0684   | Non-Detect | Non-Detect |
| GN-AP-MW-22 | 6/20/2017   | 1.88         | 83.6    | 58       | 0.06(J)    | 7.37 | 160     | 485  | Non-Detect  | Non-Detect | 0.0396 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.344(L)                  | 0.06(J)    | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0637   | Non-Detect | Non-Detect |
| GN-AP-MW-22 | 8/18/2017   | 1.87         | 81.8    | 61       | 0.06(J)    | 7.26 | 170     | 488  | n/a         | n/a        | n/a    | n/a        | n/a        | n/a        | n/a        | n/a                       | 0.06(J)    | n/a        | n/a        | n/a        | n/a        | n/a      | n/a        | n/a        |
| GN-AP-MW-22 | 1/9/2018    | n/a          | n/a     | n/a      | 0.07(J)    | 7.49 | n/a     | n/a  | Non-Detect  | Non-Detect | 0.034  | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.452(L)                  | 0.07(J)    | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0789   | Non-Detect | Non-Detect |
| GN-AP-MW-22 | 4/17/2018   | 2.04         | 94.1    | 61       | 0.06(J)    | 7.33 | 160     | 477  | Non-Detect  | Non-Detect | 0.043  | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.185(L)                  | 0.06(J)    | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0638   | Non-Detect | Non-Detect |
| GN-AP-MW-22 | 10/4/2018   | 2.22         | 99.5    | 61       | 0.08(J)    | 7.47 | 150     | 467  | Non-Detect  | Non-Detect | 0.0553 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.568                     | 0.08(J)    | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0698   | Non-Detect | Non-Detect |
| GN-AP-MW-22 | 4/2/2019    | 2.03         | 134     | 67.3     | 0.0613(J)  | 7.33 | 212     | 522  | Non-Detect  | Non-Detect | 0.0471 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.503                     | 0.0613(J)  | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0703   | Non-Detect | Non-Detect |
| GN-AP-MW-22 | 9/18/2019   | 2.1          | 102     | 46.3     | 0.065(J)   | 7.21 | 180     | 460  | Non-Detect  | 0.00129(J) | 0.0458 | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.165(L)                  | 0.065(J)   | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.0895   | Non-Detect | Non-Detect |

# Analytical Data Summary

## Plant Gaston 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    |
| 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      | 0.04       | 0.002      | 0.1        | 0.05       | 0.002       |
| UNITS         |             | mg/L         | mg/L    | mg/L     | mg/L       | SI   | 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        |
| GN-AP-MW-16V  | 2/25/2019   | 1.33         | 36.8    | 16.4     | 0.095(J)   | 8.67 | 142     | 264  | Non-Detect  | 0.00105(J) | 0.0423 | Non-Detect | Non-Detect | Non-Detect | Non-Detect  | ?                         | 0.095(J)   | Non-Detect | 0.298      | Non-Detect | 0.667      | Non-Detect | 0.000537(J) |
| GN-AP-MW-16V  | 9/16/2019   | 1.38         | 38.7    | 23.5     | 0.0935(J)  | 8.32 | 137     | 275  | Non-Detect  | 0.00111(J) | 0.0503 | Non-Detect | Non-Detect | Non-Detect | Non-Detect  | 3.26                      | 0.0935(J)  | Non-Detect | 0.312      | Non-Detect | 0.625      | Non-Detect | 0.000604(J) |
| GN-AP-MW-17SV | 12/17/2018  | 2.48         | 79.5    | 22       | 0.1        | 7.16 | 220     | 448  | Non-Detect  | 0.00173(J) | 0.061  | Non-Detect | Non-Detect | Non-Detect | 0.00461(J)  | 0.694                     | 0.1        | Non-Detect | 0.0898     | Non-Detect | 0.455      | Non-Detect | Non-Detect  |
| GN-AP-MW-17SV | 9/18/2019   | 2.51         | 101     | 29.6     | 0.12       | 7.13 | 260     | 499  | Non-Detect  | 0.00215(J) | 0.0667 | Non-Detect | Non-Detect | Non-Detect | 0.00327(J)  | 1.56                      | 0.12       | Non-Detect | 0.129      | Non-Detect | 0.801      | Non-Detect | Non-Detect  |
| GN-AP-MW-17V  | 2/27/2019   | 2.03         | 55.8    | 23.8     | 0.13       | 8.78 | 265     | 459  | Non-Detect  | 0.00112(J) | 0.0434 | Non-Detect | Non-Detect | Non-Detect | 0.000302(J) | 2.01                      | 0.13       | Non-Detect | 0.364      | Non-Detect | 1.82       | Non-Detect | Non-Detect  |
| GN-AP-MW-17V  | 9/17/2019   | 2.07         | 94      | 30.8     | 0.0925(J)  | 8.66 | 243     | 458  | Non-Detect  | 0.00136(J) | 0.0475 | Non-Detect | Non-Detect | Non-Detect | Non-Detect  | 6.44                      | 0.0925(J)  | Non-Detect | 0.432      | Non-Detect | 1.73       | Non-Detect | Non-Detect  |
| GN-AP-MW-20SV | 12/13/2018  | 1.73         | 117     | n/a      | n/a        | 7.23 | n/a     | n/a  | 0.000904(J) | 0.00301(J) | 0.0863 | Non-Detect | Non-Detect | Non-Detect | 0.00427(J)  | 0.807                     | n/a        | Non-Detect | Non-Detect | Non-Detect | 0.118      | Non-Detect | Non-Detect  |
| GN-AP-MW-20SV | 1/2/2019    | n/a          | n/a     | 13       | 11         | 6.85 | 180     | 530  | n/a         | n/a        | n/a    | n/a        | n/a        | n/a        | n/a         | n/a                       | 11         | n/a        | n/a        | n/a        | n/a        | n/a        | n/a         |
| GN-AP-MW-20SV | 5/7/2019    | n/a          | n/a     | n/a      | 0.101      | 7.11 | n/a     | n/a  | n/a         | n/a        | n/a    | n/a        | n/a        | n/a        | n/a         | n/a                       | 0.101      | n/a        | n/a        | n/a        | n/a        | n/a        | n/a         |
| GN-AP-MW-20SV | 9/18/2019   | 2.28         | 128     | 14.7     | 0.0879(J)  | 7.14 | 379     | 680  | Non-Detect  | 0.00253(J) | 0.0902 | Non-Detect | Non-Detect | Non-Detect | 0.00207(J)  | 1.14                      | 0.0879(J)  | Non-Detect | 0.0108(J)  | Non-Detect | 0.264      | Non-Detect | Non-Detect  |
| GN-AP-MW-20V  | 2/27/2019   | 2.79         | 115     | 16.5     | 0.0806(J)  | 8.45 | 491     | 774  | Non-Detect  | 0.00119(J) | 0.0219 | Non-Detect | Non-Detect | Non-Detect | Non-Detect  | 1.09                      | 0.0806(J)  | Non-Detect | 0.0372     | Non-Detect | 0.287      | Non-Detect | Non-Detect  |
| GN-AP-MW-20V  | 9/18/2019   | 2.91         | 124     | 15.9     | 0.0523(J)  | 8.32 | 481     | 784  | Non-Detect  | Non-Detect | 0.0241 | Non-Detect | Non-Detect | Non-Detect | Non-Detect  | 2.02                      | 0.0523(J)  | Non-Detect | 0.0399     | Non-Detect | 0.271      | Non-Detect | Non-Detect  |
| GN-AP-MW-23D  | 12/8/2018   | 1.24         | 31.2    | 69       | 0.04(J)    | 8.29 | 110     | 372  | Non-Detect  | 0.00113(J) | 0.0196 | Non-Detect | Non-Detect | Non-Detect | Non-Detect  | 0.447(U)                  | 0.04(J)    | Non-Detect | Non-Detect | Non-Detect | 0.00995(J) | Non-Detect | Non-Detect  |
| GN-AP-MW-23D  | 9/18/2019   | 1.42         | 41.9    | 60.7     | 0.0623(J)  | 7.72 | 102     | 378  | 0.000804(J) | 0.00255(J) | 0.027  | Non-Detect | Non-Detect | Non-Detect | Non-Detect  | 0.0448(U)                 | 0.0623(J)  | Non-Detect | Non-Detect | Non-Detect | 0.0054(J)  | Non-Detect | Non-Detect  |
| GN-AP-MW-23S  | 12/5/2018   | 1.13         | 72.5    | 57       | 0.05(J)    | 7.18 | 76      | 372  | Non-Detect  | Non-Detect | 0.0364 | Non-Detect | Non-Detect | Non-Detect | Non-Detect  | 0.541                     | 0.05(J)    | Non-Detect | Non-Detect | Non-Detect | 0.0169     | Non-Detect | Non-Detect  |
| GN-AP-MW-23S  | 9/17/2019   | 0.735        | 66.8    | 44.7     | 0.0892(J)  | 6.88 | 67.1    | 342  | Non-Detect  | Non-Detect | 0.0316 | Non-Detect | Non-Detect | Non-Detect | Non-Detect  | 0.732                     | 0.0892(J)  | Non-Detect | Non-Detect | Non-Detect | 0.0142     | Non-Detect | Non-Detect  |
| GN-AP-MW-26   | 12/6/2018   | 1.38         | 71.2    | 43       | Non-Detect | 7.23 | 150     | 444  | Non-Detect  | Non-Detect | 0.0188 | Non-Detect | Non-Detect | Non-Detect | Non-Detect  | 0.29(U)                   | Non-Detect | Non-Detect | Non-Detect | Non-Detect | Non-Detect | Non-Detect |             |
| GN-AP-MW-26   | 9/18/2019   | 1.33         | 81.8    | 41.5     | Non-Detect | 7.49 | 142     | 433  | Non-Detect  | Non-Detect | 0.0192 | Non-Detect | Non-Detect | Non-Detect | Non-Detect  | 0.976                     | Non-Detect | Non-Detect | Non-Detect | Non-Detect | Non-Detect | Non-Detect |             |
| GN-AP-MW-27   | 12/5/2018   | 0.82         | 55.9    | 56       | Non-Detect | 6.82 | 66      | 317  | Non-Detect  | Non-Detect | 0.0297 | Non-Detect | Non-Detect | Non-Detect | Non-Detect  | 0.786                     | Non-Detect | Non-Detect | Non-Detect | Non-Detect | 0.00824(J) | Non-Detect | Non-Detect  |
| GN-AP-MW-27   | 9/18/2019   | 1.23         | 81.7    | 56.7     | 0.0618(J)  | 6.68 | 120     | 412  | Non-Detect  | Non-Detect | 0.04   | Non-Detect | Non-Detect | Non-Detect | Non-Detect  | 1.01                      | 0.0618(J)  | Non-Detect | Non-Detect | Non-Detect | 0.0187     | Non-Detect | Non-Detect  |
| GN-AP-MW-28H  | 2/26/2019   | 0.754        | 41      | 12.7     | 0.0777(J)  | 8.31 | 131     | 277  | Non-Detect  | 0.00192(J) | 0.0278 | Non-Detect | Non-Detect | Non-Detect | Non-Detect  | 3.76                      | 0.0777(J)  | Non-Detect | 0.132      | Non-Detect | 0.465      | Non-Detect | Non-Detect  |
| GN-AP-MW-28H  | 9/16/2019   | 0.805        | 46.7    | 15.6     | 0.0768(J)  | 8.22 | 126     | 276  | Non-Detect  | 0.0036(J)  | 0.0321 | Non-Detect | Non-Detect | Non-Detect | Non-Detect  | 4.63                      | 0.0768(J)  | Non-Detect | 0.141      | Non-Detect | 0.469      | Non-Detect | Non-Detect  |
| GN-AP-MW-29H  | 2/26/2019   | 1.17         | 45      | 16.4     | 0.106      | 8.61 | 164     | 326  | Non-Detect  | 0.00168(J) | 0.0502 | Non-Detect | Non-Detect | Non-Detect | Non-Detect  | 9.95                      | 0.106      | Non-Detect | 0.277      | Non-Detect | 1.08       | Non-Detect | Non-Detect  |
| GN-AP-MW-29H  | 9/17/2019   | 1.18         | 48.5    | 20.5     | 0.0669(J)  | n/a  | 161     | 331  | Non-Detect  | 0.0022(J)  | 0.0567 | Non-Detect | Non-Detect | Non-Detect | Non-Detect  | 13.2                      | 0.0669(J)  | Non-Detect | 0.289      | Non-Detect | 1.04       | Non-Detect | Non-Detect  |
| GN-AP-MW-29H  | 9/26/2019   | 1.22         | 45.4    | 21.5     | 0.0749(J)  | 8.47 | 179     | 327  | Non-Detect  | 0.00225(J) | 0.0574 | Non-Detect | Non-Detect | Non-Detect | Non-Detect  | 16.2                      | 0.0749(J)  | Non-Detect | 0.302      | Non-Detect | 0.936      | Non-Detect | Non-Detect  |

# Appendix C



**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***



## **E.C. Gaston 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 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 :** WMWGASAP\_1190  
**Project/Site :** Gaston Ash Pond  
Wilsonville, AL 35186  
**For :** Southern Company Services  
3535 Colonnade Parkway  
Birmingham, AL 35243  
**Attention :** Dustin Brooks, Greg Dyer, & Lauren Parker  
**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: 2019.04.08 13:53:49 -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: 2019.04.09 11:02:45 -0500



Total Metals ICP

Gaston Ash Pond

WMWGASAP\_1190

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> |
|------------------|-----------------|-------------------|
| AY28249          | 634866          | WMWGASAP_1190     |
| AY28250          | 634866          | WMWGASAP_1190     |
| AY28251          | 634866          | WMWGASAP_1190     |
| AY28252          | 634866          | WMWGASAP_1190     |
| AY28253          | 634866          | WMWGASAP_1190     |
| AY28254          | 634866          | WMWGASAP_1190     |
| AY28255          | 634866          | WMWGASAP_1190     |
| AY28748          | 634866          | WMWGASAP_1190     |
| AY28845          | 634866          | WMWGASAP_1190     |
| AZ05127          | 640017          | WMWGASAP_1190     |
| AZ05128          | 640017          | WMWGASAP_1190     |
| AZ05129          | 640017          | WMWGASAP_1190     |
| AZ05130          | 640017          | WMWGASAP_1190     |
| AZ05131          | 640017          | WMWGASAP_1190     |
| AZ05132          | 640017          | WMWGASAP_1190     |
| AZ05133          | 640017          | WMWGASAP_1190     |
| AZ05134          | 640017          | WMWGASAP_1190     |

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:
    - AY28845 Sodium and Calcium MS/MSD spike levels less than 30% of 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 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> |
|------------------|----------------|------------------------|
| AY28748          | Calcium        | x10.15                 |
| AY28251          | Sodium         | x10.15                 |
| AY28845MS/MSD    | Calcium        | x10.15                 |
| AZ05133          | Calcium        | x10.15                 |

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



Dissolved Metals ICP

Gaston Ash Pond

WMWGASAP\_1190

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> |
|------------------|-----------------|-------------------|
| AY28249          | 634551          | WMWGASAP_1190     |
| AY28250          | 634551          | WMWGASAP_1190     |
| AY28251          | 634551          | WMWGASAP_1190     |
| AY28252          | 634551          | WMWGASAP_1190     |
| AY28253          | 634551          | WMWGASAP_1190     |
| AY28254          | 634551          | WMWGASAP_1190     |
| AY28255          | 634551          | WMWGASAP_1190     |
| AY28748          | 635103          | WMWGASAP_1190     |
| AY28845          | 635103          | WMWGASAP_1190     |
| AZ05127          | 640297          | WMWGASAP_1190     |
| AZ05128          | 640297          | WMWGASAP_1190     |
| AZ05129          | 640297          | WMWGASAP_1190     |
| AZ05130          | 640297          | WMWGASAP_1190     |
| AZ05131          | 640297          | WMWGASAP_1190     |
| AZ05132          | 640297          | WMWGASAP_1190     |
| AZ05133          | 640297          | WMWGASAP_1190     |
| AZ05134          | 640297          | WMWGASAP_1190     |

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



Total Metals ICPMS

Gaston Ash Pond

WMWGASAP\_1190

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> |
|------------------|-----------------|-------------------|
| AY28249          | 634698          | WMWGASAP_1190     |
| AY28250          | 634698          | WMWGASAP_1190     |
| AY28251          | 634698          | WMWGASAP_1190     |
| AY28252          | 634698          | WMWGASAP_1190     |
| AY28253          | 634698          | WMWGASAP_1190     |
| AY28254          | 634698          | WMWGASAP_1190     |
| AY28255          | 634698          | WMWGASAP_1190     |
| AY28748          | 635308          | WMWGASAP_1190     |
| AY28845          | 635308          | WMWGASAP_1190     |
| AZ05127          | 639937          | WMWGASAP_1190     |
| AZ05128          | 639937          | WMWGASAP_1190     |
| AZ05129          | 639937          | WMWGASAP_1190     |
| AZ05130          | 639937          | WMWGASAP_1190     |
| AZ05131          | 639937          | WMWGASAP_1190     |
| AZ05132          | 639937          | WMWGASAP_1190     |
| AZ05133          | 639937          | WMWGASAP_1190     |
| AZ05134          | 639937          | WMWGASAP_1190     |

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.
    - AY28748 MS/MSD spike level for Manganese is less than 30% of the sample nominal concentration.
  - 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

Gaston Ash Pond

WMWGASAP\_1190

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> |
|------------------|-----------------|-------------------|
| AY28249          | 634585          | WMWGASAP_1190     |
| AY28250          | 634585          | WMWGASAP_1190     |
| AY28251          | 634585          | WMWGASAP_1190     |
| AY28252          | 634585          | WMWGASAP_1190     |
| AY28253          | 634585          | WMWGASAP_1190     |
| AY28254          | 634585          | WMWGASAP_1190     |
| AY28255          | 634585          | WMWGASAP_1190     |
| AY28748          | 635284          | WMWGASAP_1190     |
| AY28845          | 635284          | WMWGASAP_1190     |
| AZ05127          | 640062          | WMWGASAP_1190     |
| AZ05128          | 640062          | WMWGASAP_1190     |
| AZ05129          | 640062          | WMWGASAP_1190     |
| AZ05130          | 640062          | WMWGASAP_1190     |
| AZ05131          | 640062          | WMWGASAP_1190     |
| AZ05132          | 640062          | WMWGASAP_1190     |
| AZ05133          | 640062          | WMWGASAP_1190     |
| AZ05134          | 640062          | WMWGASAP_1190     |

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.
    - AY28845 MS/MSD spike level for Dissolved Manganese is less than 30% of the sample nominal concentration.
  - A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. 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

Gaston Ash Pond

WMWGASAP\_1190

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> |
|------------------|-----------------|-------------------|
| AY28249          | 634803          | WMWGASAP_1190     |
| AY28250          | 634803          | WMWGASAP_1190     |
| AY28251          | 634803          | WMWGASAP_1190     |
| AY28252          | 634803          | WMWGASAP_1190     |
| AY28253          | 634803          | WMWGASAP_1190     |
| AY28254          | 634803          | WMWGASAP_1190     |
| AY28255          | 634803          | WMWGASAP_1190     |
| AY28748          | 634803          | WMWGASAP_1190     |
| AY28845          | 634996          | WMWGASAP_1190     |
| AZ05127          | 640702          | WMWGASAP_1190     |
| AZ05128          | 640702          | WMWGASAP_1190     |
| AZ05129          | 640702          | WMWGASAP_1190     |
| AZ05130          | 640702          | WMWGASAP_1190     |
| AZ05131          | 640702          | WMWGASAP_1190     |
| AZ05132          | 640702          | WMWGASAP_1190     |
| AZ05133          | 640702          | WMWGASAP_1190     |
| AZ05134          | 640702          | WMWGASAP_1190     |

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

Gaston Ash Pond

WMWGASAP\_1190

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> |
|------------------|-----------------|-------------------|
| AY28249          | 634752          | WMWGASAP_1190     |
| AY28250          | 634752          | WMWGASAP_1190     |
| AY28251          | 634752          | WMWGASAP_1190     |
| AY28252          | 634752          | WMWGASAP_1190     |
| AY28253          | 634752          | WMWGASAP_1190     |
| AY28254          | 634752          | WMWGASAP_1190     |
| AY28255          | 634752          | WMWGASAP_1190     |
| AY28845          | 635157          | WMWGASAP_1190     |
| AZ05127          | 640594          | WMWGASAP_1190     |
| AZ05128          | 640594          | WMWGASAP_1190     |
| AZ05129          | 640594          | WMWGASAP_1190     |
| AZ05130          | 640594          | WMWGASAP_1190     |
| AZ05131          | 640594          | WMWGASAP_1190     |
| AZ05132          | 640594          | WMWGASAP_1190     |
| AZ05133          | 640594          | WMWGASAP_1190     |
| AZ05134          | 640594          | WMWGASAP_1190     |

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:
  - AY28250
  - AY28255
  - AZ05130
  - AZ05134



Alkalinity

Gaston Ash Pond

WMWGASAP\_1190

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> |
|------------------|-----------------|-------------------|
| AY28845          | 635109 & 635110 | WMWGASAP_1190     |
| AZ05127          | 640538 & 640539 | WMWGASAP_1190     |
| AZ05128          | 640538 & 640539 | WMWGASAP_1190     |
| AZ05129          | 640538 & 640539 | WMWGASAP_1190     |
| AZ05131          | 640538 & 640539 | WMWGASAP_1190     |
| AZ05132          | 640538 & 640539 | WMWGASAP_1190     |
| AZ05133          | 640538 & 640539 | WMWGASAP_1190     |

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

Gaston Ash Pond

WMWGASAP\_1190

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> |
|------------------|-------------------------|-------------------|
| AZ05127          | 640237,639965, & 640368 | WMWGASAP_1190     |
| AZ05128          | 640237,639965, & 640368 | WMWGASAP_1190     |
| AZ05129          | 640237,639965, & 640368 | WMWGASAP_1190     |
| AZ05130          | 640237,639965, & 640368 | WMWGASAP_1190     |
| AZ05131          | 640237,639965, & 640368 | WMWGASAP_1190     |
| AZ05132          | 640237,639965, & 640368 | WMWGASAP_1190     |
| AZ05133          | 640237,639965, & 640368 | WMWGASAP_1190     |
| AZ05134          | 640237,639965, & 640368 | WMWGASAP_1190     |

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> |
|------------------|----------------|------------------------|
| AZ05127          | Sulfate        | x10                    |
| AZ05128          | Sulfate        | x10                    |
| AZ05129          | Sulfate        | x10                    |
| AZ05131          | Sulfate        | x10                    |
| AZ05132          | Sulfate        | x10                    |
| AZ05132          | Chloride       | x2                     |
| AZ05133          | Sulfate        | x20                    |

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  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 05-Dec-18  
 Customer ID:  
 Delivery Date: 06-Dec-18

Description: Gaston Ash Pond - MW-23S

Laboratory ID Number: AY28249

| Name                                  | Analyst | Test Date  | Reference | Vio Spec | DF    | MDL     | RL     | Q | Results      | Units |
|---------------------------------------|---------|------------|-----------|----------|-------|---------|--------|---|--------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |            |           |          |       |         |        |   |              |       |
| * Arsenic, Total                      | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.001   | 0.005  | U | Not Detected | mg/L  |
| * Barium, Total                       | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.002   | 0.01   |   | 0.0364       | mg/L  |
| * Beryllium, Total                    | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.0006  | 0.003  | U | Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.02    | 0.1    |   | 1.13         | mg/L  |
| * Calcium, Total                      | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.1     | 0.5    |   | 72.5         | mg/L  |
| * Cadmium, Total                      | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.0003  | 0.001  | U | Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.0008  | 0.003  | U | Not Detected | mg/L  |
| * Cobalt, Total                       | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.002   | 0.005  | U | Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.002   | 0.01   | U | Not Detected | mg/L  |
| * Iron, Dissolved                     | GAS     | 12/13/2018 | EPA 200.7 |          | 2.03  | 0.01    | 0.05   | U | Not Detected | mg/L  |
| * Iron, Total                         | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.01    | 0.05   |   | 0.0730       | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 12/18/2018 | EPA 245.1 |          | 1     | 0.00025 | 0.0005 | U | Not Detected | mg/L  |
| * Lithium, Total                      | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.01    | 0.02   | U | Not Detected | mg/L  |
| * Magnesium, Total                    | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.1     | 0.5    |   | 32.2         | mg/L  |
| * Molybdenum, Total                   | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.002   | 0.01   |   | 0.0169       | mg/L  |
| * Lead, Total                         | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.001   | 0.005  | U | Not Detected | mg/L  |
| * Sodium, Total                       | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.1     | 0.5    |   | 16.7         | mg/L  |
| * Manganese, Dissolved                | DLJ     | 12/13/2018 | EPA 200.8 |          | 5.075 | 0.001   | 0.005  |   | 0.0325       | mg/L  |
| * Manganese, Total                    | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.001   | 0.005  |   | 0.0486       | mg/L  |
| * Potassium, Total                    | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.215   | 2.5    | J | 1.54         | mg/L  |
| * Selenium, Total                     | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.002   | 0.01   | U | Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 12/14/2018 | 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 01/15/2019

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  
 Lauren Parker

**Customer Account:** WMWGASAP  
**Sample Date:** 05-Dec-18  
**Customer ID:**  
**Delivery Date:** 06-Dec-18

**Description:** Gaston Ash Pond - MW-23S

**Laboratory ID Number:** AY28249

| Name                   | Analyst | Test Date  | Reference | Vio Spec | DF | MDL | RL | Q Results  | Units |
|------------------------|---------|------------|-----------|----------|----|-----|----|------------|-------|
| * Solids, Dissolved    | CES     | 12/14/2018 | SM 2540C  |          | 1  |     | 25 | 372        | mg/L  |
| Filter Completion Date | CRB     | 12/11/2018 | SM 2540C  |          | 1  |     |    | 12/11/2018 | Date  |

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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 01/15/2019

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  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 05-Dec-18  
 Customer ID:  
 Delivery Date: 06-Dec-18

Description: Gaston Ash Pond - MW-23S

Laboratory ID Number: AY28249

| Sample  | Analysis               | Units | MB         |         | Spike | MS      | MSD     | LCS     | LCS              |      | Rec       |           | Prec Limit |
|---------|------------------------|-------|------------|---------|-------|---------|---------|---------|------------------|------|-----------|-----------|------------|
|         |                        |       | MB         | Limit   |       |         |         |         | Limit            | Rec  | Limit     | Prec      |            |
| AY28255 | Lead, Total            | mg/L  | 0.0000112  | 0.0022  | 0.10  | 0.106   | 0.105   | 0.102   | 0.085 to 0.115   | 106  | 70 to 130 | 0.764     | 20         |
| AY28255 | Mercury, Total by CVAA | mg/L  | -0.0000112 | 0.0005  | 0.004 | 0.00378 | 0.00379 | 0.00382 | 0.0034 to 0.0046 | 94.4 | 70 to 130 | 0.391     | 20         |
| AY28845 | Lithium, Total         | mg/L  | -0.0000717 | 0.022   | 0.20  | 0.328   | 0.329   | 0.213   | 0.17 to 0.23     | 119  | 70 to 130 | 0.245     | 20         |
| AY28255 | Antimony, Total        | mg/L  | 0.000156   | 0.00176 | 0.10  | 0.0982  | 0.0971  | 0.0992  | 0.085 to 0.115   | 98.2 | 70 to 130 | 1.09      | 20         |
| AY28845 | Iron, Total            | mg/L  | 0.0000756  | 0.022   | 0.2   | 0.740   | 0.745   | 0.209   | 0.17 to 0.23     | 102  | 70 to 130 | 0.632     | 20         |
| AY28255 | Arsenic, Total         | mg/L  | 0.0000218  | 0.0022  | 0.10  | 0.0997  | 0.0997  | 0.102   | 0.085 to 0.115   | 99.7 | 70 to 130 | 0.0099220 | 20         |
| AY28255 | Barium, Total          | mg/L  | 0.0000218  | 0.0044  | 0.10  | 0.0971  | 0.0971  | 0.0977  | 0.085 to 0.115   | 97.1 | 70 to 130 | 0.0400    | 20         |
| AY28255 | Beryllium, Total       | mg/L  | 0.000000   | 0.00132 | 0.10  | 0.0927  | 0.0985  | 0.104   | 0.085 to 0.115   | 92.7 | 70 to 130 | 6.08      | 20         |
| AY28255 | Manganese, Dissolved   | mg/L  | 0.00000297 | 0.0022  | 0.10  | 0.0856  | 0.0967  |         | 0.085 to 0.115   | 85.6 | 70 to 130 | 12.2      | 20         |
| AY28845 | Boron, Total           | mg/L  | 0.000254   | 0.044   | 1.00  | 3.49    | 3.50    | 1.01    | 0.85 to 1.15     | 100  | 70 to 130 | 0.237     | 20         |
| AY28255 | Cadmium, Total         | mg/L  | 0.00000528 | 0.00066 | 0.10  | 0.102   | 0.101   | 0.102   | 0.085 to 0.115   | 102  | 70 to 130 | 1.17      | 20         |
| AY28255 | Potassium, Total       | mg/L  | 0.00121    | 0.473   | 10.0  | 10.2    | 10.2    | 10.4    | 8.5 to 11.5      | 102  | 70 to 130 | 0.582     | 20         |
| AY28255 | Manganese, Total       | mg/L  | 0.0000706  | 0.0022  | 0.10  | 0.0960  | 0.0956  | 0.0967  | 0.085 to 0.115   | 96.0 | 70 to 130 | 0.417     | 20         |
| AY28255 | Molybdenum, Total      | mg/L  | 0.0000297  | 0.0044  | 0.10  | 0.0915  | 0.0878  | 0.0897  | 0.085 to 0.115   | 91.5 | 70 to 130 | 4.16      | 20         |
| AY28845 | Calcium, Total         | mg/L  | -0.00557   | 0.22    | 5.00  | 86.6    | 98.8    | 5.13    | 4.25 to 5.75     | 142  | 70 to 130 | 13.2      | 20         |
| AY28845 | Magnesium, Total       | mg/L  | -0.00141   | 0.22    | 5.00  | 22.9    | 23.0    | 5.35    | 4.25 to 5.75     | 106  | 70 to 130 | 0.486     | 20         |
| AY28255 | Selenium, Total        | mg/L  | 0.0000603  | 0.0044  | 0.10  | 0.104   | 0.104   | 0.107   | 0.085 to 0.115   | 104  | 70 to 130 | 0.290     | 20         |
| AY28845 | Sodium, Total          | mg/L  | 0.000292   | 0.22    | 5.00  | 34.5    | 34.6    | 5.26    | 4.25 to 5.75     | 112  | 70 to 130 | 0.289     | 20         |
| AY28255 | Cobalt, Total          | mg/L  | 0.0000715  | 0.0044  | 0.10  | 0.0925  | 0.0912  | 0.0915  | 0.085 to 0.115   | 92.5 | 70 to 130 | 1.42      | 20         |
| AY28255 | Chromium, Total        | mg/L  | 0.0000761  | 0.0044  | 0.10  | 0.0945  | 0.0951  | 0.0954  | 0.085 to 0.115   | 94.5 | 70 to 130 | 0.628     | 20         |
| AY28255 | Iron, Dissolved        | mg/L  | 0.000281   | 0.022   | 0.2   | 0.202   | 0.205   | 0.201   | 0.17 to 0.23     | 101  | 70 to 130 | 1.61      | 20         |
| AY28255 | Thallium, Total        | mg/L  | 0.00000461 | 0.00044 | 0.10  | 0.105   | 0.104   | 0.0996  | 0.085 to 0.115   | 105  | 70 to 130 | 0.558     | 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:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 01/15/2019

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  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 05-Dec-18  
 Customer ID:  
 Delivery Date: 06-Dec-18

Description: Gaston Ash Pond - MW-23S

Laboratory ID Number: AY28249

| Sample  | Analysis          | Units | MB     | MB    | Spike | MS | Sample    | LCS  | LCS      | Rec   | Prec  | Prec  |
|---------|-------------------|-------|--------|-------|-------|----|-----------|------|----------|-------|-------|-------|
|         |                   |       | Limit  | Limit |       |    | Duplicate | LCS  | Limit    | Limit | Limit | Limit |
| AY28254 | Solids, Dissolved | mg/L  | 0.0000 | 25    |       |    | 444       | 55.0 | 40 to 60 |       | 0.00  | 5     |

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 01/15/2019

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  
 Lauren Parker

Customer Account: WMWGASAPFB  
 Sample Date: 05-Dec-18  
 Customer ID:  
 Delivery Date: 06-Dec-18

Description: Gaston Ash Pond Field Blank

Laboratory ID Number: AY28250

| Name                                  | Analyst | Test Date  | Reference | Vio Spec | DF    | MDL     | RL     | Q Results      | Units |
|---------------------------------------|---------|------------|-----------|----------|-------|---------|--------|----------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |            |           |          |       |         |        |                |       |
| * Arsenic, Total                      | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.001   | 0.005  | U Not Detected | mg/L  |
| * Barium, Total                       | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.002   | 0.01   | U Not Detected | mg/L  |
| * Beryllium, Total                    | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.0006  | 0.003  | U Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.02    | 0.1    | U Not Detected | mg/L  |
| * Calcium, Total                      | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.1     | 0.5    | U Not Detected | mg/L  |
| * Cadmium, Total                      | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.0003  | 0.001  | U Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.0008  | 0.003  | U Not Detected | mg/L  |
| * Cobalt, Total                       | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.002   | 0.005  | U Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.002   | 0.01   | U Not Detected | mg/L  |
| * Iron, Dissolved                     | GAS     | 12/13/2018 | EPA 200.7 |          | 2.03  | 0.01    | 0.05   | U Not Detected | mg/L  |
| * Iron, Total                         | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.01    | 0.05   | U Not Detected | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 12/18/2018 | EPA 245.1 |          | 1     | 0.00025 | 0.0005 | U Not Detected | mg/L  |
| * Lithium, Total                      | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.01    | 0.02   | U Not Detected | mg/L  |
| * Magnesium, Total                    | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.1     | 0.5    | U Not Detected | mg/L  |
| * Molybdenum, Total                   | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.002   | 0.01   | U Not Detected | mg/L  |
| * Lead, Total                         | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.001   | 0.005  | U Not Detected | mg/L  |
| * Sodium, Total                       | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.1     | 0.5    | U Not Detected | mg/L  |
| * Manganese, Dissolved                | DLJ     | 12/13/2018 | EPA 200.8 |          | 5.075 | 0.001   | 0.005  | U Not Detected | mg/L  |
| * Manganese, Total                    | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.001   | 0.005  | U Not Detected | mg/L  |
| * Potassium, Total                    | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.215   | 2.5    | U Not Detected | mg/L  |
| * Selenium, Total                     | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.002   | 0.01   | U Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.0002  | 0.001  | U Not Detected | mg/L  |

**General Characteristics**

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

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 01/15/2019

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  
 Lauren Parker

Customer Account: WMWGASAPFB  
 Sample Date: 05-Dec-18  
 Customer ID:  
 Delivery Date: 06-Dec-18

Description: Gaston Ash Pond Field Blank

Laboratory ID Number: AY28250

| Name                   | Analyst | Test Date  | Reference | Vio Spec | DF | MDL | RL | Q Results      | Units |
|------------------------|---------|------------|-----------|----------|----|-----|----|----------------|-------|
| * Solids, Dissolved    | CES     | 12/14/2018 | SM 2540C  |          | 1  |     | 25 | U Not Detected | mg/L  |
| Filter Completion Date | CRB     | 12/11/2018 | SM 2540C  |          | 1  |     |    | 12/11/2018     | Date  |

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

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Alabama Power General Test Laboratory  
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# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAPFB  
 Sample Date: 05-Dec-18  
 Customer ID:  
 Delivery Date: 06-Dec-18

Description: Gaston Ash Pond Field Blank

Laboratory ID Number: AY28250

| Sample  | Analysis               | Units | MB         | MB      |       | MS      | MSD     | LCS     | LCS              |      | Rec       |           | Prec | Limit |
|---------|------------------------|-------|------------|---------|-------|---------|---------|---------|------------------|------|-----------|-----------|------|-------|
|         |                        |       |            | Limit   | Spike |         |         |         | Limit            | Rec  | Limit     | Prec      |      |       |
| AY28255 | Lead, Total            | mg/L  | 0.0000112  | 0.0022  | 0.10  | 0.106   | 0.105   | 0.102   | 0.085 to 0.115   | 106  | 70 to 130 | 0.764     | 20   |       |
| AY28255 | Mercury, Total by CVAA | mg/L  | -0.0000112 | 0.0005  | 0.004 | 0.00378 | 0.00379 | 0.00382 | 0.0034 to 0.0046 | 94.4 | 70 to 130 | 0.391     | 20   |       |
| AY28845 | Lithium, Total         | mg/L  | -0.0000717 | 0.022   | 0.20  | 0.328   | 0.329   | 0.213   | 0.17 to 0.23     | 119  | 70 to 130 | 0.245     | 20   |       |
| AY28255 | Antimony, Total        | mg/L  | 0.000156   | 0.00176 | 0.10  | 0.0982  | 0.0971  | 0.0992  | 0.085 to 0.115   | 98.2 | 70 to 130 | 1.09      | 20   |       |
| AY28845 | Iron, Total            | mg/L  | 0.0000756  | 0.022   | 0.2   | 0.740   | 0.745   | 0.209   | 0.17 to 0.23     | 102  | 70 to 130 | 0.632     | 20   |       |
| AY28255 | Selenium, Total        | mg/L  | 0.0000603  | 0.0044  | 0.10  | 0.104   | 0.104   | 0.107   | 0.085 to 0.115   | 104  | 70 to 130 | 0.290     | 20   |       |
| AY28845 | Sodium, Total          | mg/L  | 0.000292   | 0.22    | 5.00  | 34.5    | 34.6    | 5.26    | 4.25 to 5.75     | 112  | 70 to 130 | 0.289     | 20   |       |
| AY28255 | Cobalt, Total          | mg/L  | 0.0000715  | 0.0044  | 0.10  | 0.0925  | 0.0912  | 0.0915  | 0.085 to 0.115   | 92.5 | 70 to 130 | 1.42      | 20   |       |
| AY28255 | Chromium, Total        | mg/L  | 0.0000761  | 0.0044  | 0.10  | 0.0945  | 0.0951  | 0.0954  | 0.085 to 0.115   | 94.5 | 70 to 130 | 0.628     | 20   |       |
| AY28255 | Iron, Dissolved        | mg/L  | 0.000281   | 0.022   | 0.2   | 0.202   | 0.205   | 0.201   | 0.17 to 0.23     | 101  | 70 to 130 | 1.61      | 20   |       |
| AY28255 | Thallium, Total        | mg/L  | 0.00000461 | 0.00044 | 0.10  | 0.105   | 0.104   | 0.0996  | 0.085 to 0.115   | 105  | 70 to 130 | 0.558     | 20   |       |
| AY28255 | Mangenes, Total        | mg/L  | 0.0000706  | 0.0022  | 0.10  | 0.0960  | 0.0956  | 0.0967  | 0.085 to 0.115   | 96.0 | 70 to 130 | 0.417     | 20   |       |
| AY28255 | Molybdenum, Total      | mg/L  | 0.0000297  | 0.0044  | 0.10  | 0.0915  | 0.0878  | 0.0897  | 0.085 to 0.115   | 91.5 | 70 to 130 | 4.16      | 20   |       |
| AY28845 | Calcium, Total         | mg/L  | -0.00557   | 0.22    | 5.00  | 86.6    | 98.8    | 5.13    | 4.25 to 5.75     | 142  | 70 to 130 | 13.2      | 20   |       |
| AY28845 | Magnesium, Total       | mg/L  | -0.00141   | 0.22    | 5.00  | 22.9    | 23.0    | 5.35    | 4.25 to 5.75     | 106  | 70 to 130 | 0.486     | 20   |       |
| AY28255 | Arsenic, Total         | mg/L  | 0.0000218  | 0.0022  | 0.10  | 0.0997  | 0.0997  | 0.102   | 0.085 to 0.115   | 99.7 | 70 to 130 | 0.0099220 | 20   |       |
| AY28255 | Barium, Total          | mg/L  | 0.0000218  | 0.0044  | 0.10  | 0.0971  | 0.0971  | 0.0977  | 0.085 to 0.115   | 97.1 | 70 to 130 | 0.0400    | 20   |       |
| AY28255 | Beryllium, Total       | mg/L  | 0.000000   | 0.00132 | 0.10  | 0.0927  | 0.0985  | 0.104   | 0.085 to 0.115   | 92.7 | 70 to 130 | 6.08      | 20   |       |
| AY28255 | Mangenes, Dissolved    | mg/L  | 0.00000297 | 0.0022  | 0.10  | 0.0856  | 0.0967  |         | 0.085 to 0.115   | 85.6 | 70 to 130 | 12.2      | 20   |       |
| AY28845 | Boron, Total           | mg/L  | 0.000254   | 0.044   | 1.00  | 3.49    | 3.50    | 1.01    | 0.85 to 1.15     | 100  | 70 to 130 | 0.237     | 20   |       |
| AY28255 | Cadmium, Total         | mg/L  | 0.00000528 | 0.00066 | 0.10  | 0.102   | 0.101   | 0.102   | 0.085 to 0.115   | 102  | 70 to 130 | 1.17      | 20   |       |
| AY28255 | Potassium, Total       | mg/L  | 0.00121    | 0.473   | 10.0  | 10.2    | 10.2    | 10.4    | 8.5 to 11.5      | 102  | 70 to 130 | 0.582     | 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 01/15/2019



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  
 Lauren Parker

Customer Account: WMWGASAPFB  
 Sample Date: 05-Dec-18  
 Customer ID:  
 Delivery Date: 06-Dec-18

Description: Gaston Ash Pond Field Blank

Laboratory ID Number: AY28250

| Sample  | Analysis          | Units | MB     | MB    | Spike | MS | Sample    | LCS  | LCS      | Rec   | Rec   | Prec | Prec  |
|---------|-------------------|-------|--------|-------|-------|----|-----------|------|----------|-------|-------|------|-------|
|         |                   |       | Limit  | Limit |       |    | Duplicate | LCS  | Limit    | Limit | Limit | Prec | Limit |
| AY28254 | Solids, Dissolved | mg/L  | 0.0000 | 25    |       |    | 444       | 55.0 | 40 to 60 |       |       | 0.00 | 5     |

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CC:

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

**Certificate Of Analysis**  **Alabama Power**



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 05-Dec-18  
 Customer ID:  
 Delivery Date: 06-Dec-18

Description: Gaston Ash Pond - MW-23D

Laboratory ID Number: AY28251

| Name                                  | Analyst | Test Date  | Reference | Vio Spec | DF    | MDL     | RL     | Q | Results      | Units |
|---------------------------------------|---------|------------|-----------|----------|-------|---------|--------|---|--------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |            |           |          |       |         |        |   |              |       |
| * Arsenic, Total                      | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.001   | 0.005  | J | 0.00113      | mg/L  |
| * Barium, Total                       | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.002   | 0.01   |   | 0.0196       | mg/L  |
| * Beryllium, Total                    | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.0006  | 0.003  | U | Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.02    | 0.1    |   | 1.24         | mg/L  |
| * Calcium, Total                      | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.1     | 0.5    |   | 31.2         | mg/L  |
| * Cadmium, Total                      | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.0003  | 0.001  | U | Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.0008  | 0.003  | U | Not Detected | mg/L  |
| * Cobalt, Total                       | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.002   | 0.005  | U | Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.002   | 0.01   | U | Not Detected | mg/L  |
| * Iron, Dissolved                     | GAS     | 12/13/2018 | EPA 200.7 |          | 2.03  | 0.01    | 0.05   | U | Not Detected | mg/L  |
| * Iron, Total                         | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.01    | 0.05   |   | 0.0699       | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 12/18/2018 | EPA 245.1 |          | 1     | 0.00025 | 0.0005 | U | Not Detected | mg/L  |
| * Lithium, Total                      | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.01    | 0.02   | U | Not Detected | mg/L  |
| * Magnesium, Total                    | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.1     | 0.5    |   | 39.3         | mg/L  |
| * Molybdenum, Total                   | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.002   | 0.01   | J | 0.00995      | mg/L  |
| * Lead, Total                         | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.001   | 0.005  | U | Not Detected | mg/L  |
| * Sodium, Total                       | GAS     | 1/7/2019   | EPA 200.7 |          | 10.15 | 1.015   | 5.075  |   | 46.9         | mg/L  |
| * Manganese, Dissolved                | DLJ     | 12/13/2018 | EPA 200.8 |          | 5.075 | 0.001   | 0.005  |   | 0.00511      | mg/L  |
| * Manganese, Total                    | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.001   | 0.005  |   | 0.00724      | mg/L  |
| * Potassium, Total                    | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.215   | 2.5    |   | 14.7         | mg/L  |
| * Selenium, Total                     | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.002   | 0.01   | U | Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 12/14/2018 | 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**  **Alabama Power**



**To:** Dustin Brooks  
 Greg Dyer  
 Lauren Parker

**Customer Account:** WMWGASAP  
**Sample Date:** 05-Dec-18  
**Customer ID:**  
**Delivery Date:** 06-Dec-18

**Description:** Gaston Ash Pond - MW-23D

**Laboratory ID Number:** AY28251

| Name                   | Analyst | Test Date  | Reference | Vio Spec | DF | MDL | RL | Q Results  | Units |
|------------------------|---------|------------|-----------|----------|----|-----|----|------------|-------|
| * Solids, Dissolved    | CES     | 12/14/2018 | SM 2540C  |          | 1  |     | 25 | 372        | mg/L  |
| Filter Completion Date | CRB     | 12/11/2018 | SM 2540C  |          | 1  |     |    | 12/11/2018 | Date  |

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 FAX (205) 257-1654

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 05-Dec-18  
 Customer ID:  
 Delivery Date: 06-Dec-18

Description: Gaston Ash Pond - MW-23D

Laboratory ID Number: AY28251

| Sample  | Analysis               | Units | MB         |         | Spike | MS      | MSD     | LCS     | LCS              |     | Rec   |                     | Prec Limit |
|---------|------------------------|-------|------------|---------|-------|---------|---------|---------|------------------|-----|-------|---------------------|------------|
|         |                        |       | MB         | Limit   |       |         |         |         | Limit            | Rec | Limit | Prec                |            |
| AY28255 | Lead, Total            | mg/L  | 0.0000112  | 0.0022  | 0.10  | 0.106   | 0.105   | 0.102   | 0.085 to 0.115   |     | 106   | 70 to 130 0.764 20  |            |
| AY28255 | Mercury, Total by CVAA | mg/L  | -0.0000112 | 0.0005  | 0.004 | 0.00378 | 0.00379 | 0.00382 | 0.0034 to 0.0046 |     | 94.4  | 70 to 130 0.391 20  |            |
| AY28845 | Lithium, Total         | mg/L  | -0.0000717 | 0.022   | 0.20  | 0.328   | 0.329   | 0.213   | 0.17 to 0.23     |     | 119   | 70 to 130 0.245 20  |            |
| AY28255 | Antimony, Total        | mg/L  | 0.000156   | 0.00176 | 0.10  | 0.0982  | 0.0971  | 0.0992  | 0.085 to 0.115   |     | 98.2  | 70 to 130 1.09 20   |            |
| AY28845 | Iron, Total            | mg/L  | 0.0000756  | 0.022   | 0.2   | 0.740   | 0.745   | 0.209   | 0.17 to 0.23     |     | 102   | 70 to 130 0.632 20  |            |
| AY28255 | Mangnese, Total        | mg/L  | 0.0000706  | 0.0022  | 0.10  | 0.0960  | 0.0956  | 0.0967  | 0.085 to 0.115   |     | 96.0  | 70 to 130 0.417 20  |            |
| AY28255 | Molybdenum, Total      | mg/L  | 0.0000297  | 0.0044  | 0.10  | 0.0915  | 0.0878  | 0.0897  | 0.085 to 0.115   |     | 91.5  | 70 to 130 4.16 20   |            |
| AY28845 | Calcium, Total         | mg/L  | -0.00557   | 0.22    | 5.00  | 86.6    | 98.8    | 5.13    | 4.25 to 5.75     |     | 142   | 70 to 130 13.2 20   |            |
| AY28845 | Magnesium, Total       | mg/L  | -0.00141   | 0.22    | 5.00  | 22.9    | 23.0    | 5.35    | 4.25 to 5.75     |     | 106   | 70 to 130 0.486 20  |            |
| AY28255 | Arsenic, Total         | mg/L  | 0.0000218  | 0.0022  | 0.10  | 0.0997  | 0.0997  | 0.102   | 0.085 to 0.115   |     | 99.7  | 70 to 130 0.0099220 |            |
| AY28255 | Barium, Total          | mg/L  | 0.0000218  | 0.0044  | 0.10  | 0.0971  | 0.0971  | 0.0977  | 0.085 to 0.115   |     | 97.1  | 70 to 130 0.0400 20 |            |
| AY28255 | Beryllium, Total       | mg/L  | 0.000000   | 0.00132 | 0.10  | 0.0927  | 0.0985  | 0.104   | 0.085 to 0.115   |     | 92.7  | 70 to 130 6.08 20   |            |
| AY28255 | Mangnese, Dissolved    | mg/L  | 0.00000297 | 0.0022  | 0.10  | 0.0856  | 0.0967  |         | 0.085 to 0.115   |     | 85.6  | 70 to 130 12.2 20   |            |
| AY28845 | Boron, Total           | mg/L  | 0.000254   | 0.044   | 1.00  | 3.49    | 3.50    | 1.01    | 0.85 to 1.15     |     | 100   | 70 to 130 0.237 20  |            |
| AY28255 | Selenium, Total        | mg/L  | 0.0000603  | 0.0044  | 0.10  | 0.104   | 0.104   | 0.107   | 0.085 to 0.115   |     | 104   | 70 to 130 0.290 20  |            |
| AY28845 | Sodium, Total          | mg/L  | 0.000292   | 0.22    | 5.00  | 34.5    | 34.6    | 5.26    | 4.25 to 5.75     |     | 112   | 70 to 130 0.289 20  |            |
| AY28255 | Cobalt, Total          | mg/L  | 0.0000715  | 0.0044  | 0.10  | 0.0925  | 0.0912  | 0.0915  | 0.085 to 0.115   |     | 92.5  | 70 to 130 1.42 20   |            |
| AY28255 | Chromium, Total        | mg/L  | 0.0000761  | 0.0044  | 0.10  | 0.0945  | 0.0951  | 0.0954  | 0.085 to 0.115   |     | 94.5  | 70 to 130 0.628 20  |            |
| AY28255 | Iron, Dissolved        | mg/L  | 0.000281   | 0.022   | 0.2   | 0.202   | 0.205   | 0.201   | 0.17 to 0.23     |     | 101   | 70 to 130 1.61 20   |            |
| AY28255 | Thallium, Total        | mg/L  | 0.00000461 | 0.00044 | 0.10  | 0.105   | 0.104   | 0.0996  | 0.085 to 0.115   |     | 105   | 70 to 130 0.558 20  |            |
| AY28255 | Cadmium, Total         | mg/L  | 0.00000528 | 0.00066 | 0.10  | 0.102   | 0.101   | 0.102   | 0.085 to 0.115   |     | 102   | 70 to 130 1.17 20   |            |
| AY28255 | Potassium, Total       | mg/L  | 0.00121    | 0.473   | 10.0  | 10.2    | 10.2    | 10.4    | 8.5 to 11.5      |     | 102   | 70 to 130 0.582 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 01/15/2019

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

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 05-Dec-18  
 Customer ID:  
 Delivery Date: 06-Dec-18

Description: Gaston Ash Pond - MW-23D

Laboratory ID Number: AY28251

| Sample  | Analysis          | Units | MB     | MB    | Spike | MS | Sample    | LCS  | Rec      | Prec  |      |       |
|---------|-------------------|-------|--------|-------|-------|----|-----------|------|----------|-------|------|-------|
|         |                   |       | Limit  | Limit |       |    | Duplicate | LCS  | Limit    | Limit | Prec | Limit |
| AY28254 | Solids, Dissolved | mg/L  | 0.0000 | 25    |       |    | 444       | 55.0 | 40 to 60 |       | 0.00 | 5     |

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CC:

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

# Certificate Of Analysis Alabama Power



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 05-Dec-18  
 Customer ID:  
 Delivery Date: 06-Dec-18

Description: Gaston Ash Pond - MW-27

Laboratory ID Number: AY28252

| Name                                  | Analyst | Test Date  | Reference | Vio Spec | DF    | MDL     | RL     | Q Results      | Units |
|---------------------------------------|---------|------------|-----------|----------|-------|---------|--------|----------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |            |           |          |       |         |        |                |       |
| * Arsenic, Total                      | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.001   | 0.005  | U Not Detected | mg/L  |
| * Barium, Total                       | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.002   | 0.01   | 0.0297         | mg/L  |
| * Beryllium, Total                    | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.0006  | 0.003  | U Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.02    | 0.1    | 0.820          | mg/L  |
| * Calcium, Total                      | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.1     | 0.5    | 55.9           | mg/L  |
| * Cadmium, Total                      | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.0003  | 0.001  | U Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.0008  | 0.003  | U Not Detected | mg/L  |
| * Cobalt, Total                       | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.002   | 0.005  | U Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.002   | 0.01   | U Not Detected | mg/L  |
| * Iron, Dissolved                     | GAS     | 12/13/2018 | EPA 200.7 |          | 2.03  | 0.01    | 0.05   | U Not Detected | mg/L  |
| * Iron, Total                         | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.01    | 0.05   | 0.500          | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 12/18/2018 | EPA 245.1 |          | 1     | 0.00025 | 0.0005 | U Not Detected | mg/L  |
| * Lithium, Total                      | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.01    | 0.02   | U Not Detected | mg/L  |
| * Magnesium, Total                    | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.1     | 0.5    | 25.5           | mg/L  |
| * Molybdenum, Total                   | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.002   | 0.01   | J 0.00824      | mg/L  |
| * Lead, Total                         | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.001   | 0.005  | U Not Detected | mg/L  |
| * Sodium, Total                       | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.1     | 0.5    | 15.7           | mg/L  |
| * Manganese, Dissolved                | DLJ     | 12/13/2018 | EPA 200.8 |          | 5.075 | 0.001   | 0.005  | U Not Detected | mg/L  |
| * Manganese, Total                    | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.001   | 0.005  | 0.00862        | mg/L  |
| * Potassium, Total                    | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.215   | 2.5    | J 1.93         | mg/L  |
| * Selenium, Total                     | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.002   | 0.01   | U Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 12/14/2018 | 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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 01/15/2019

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  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 05-Dec-18  
 Customer ID:  
 Delivery Date: 06-Dec-18

Description: Gaston Ash Pond - MW-27

Laboratory ID Number: AY28252

| Name                   | Analyst | Test Date  | Reference | Vio Spec | DF | MDL | RL | Q Results  | Units |
|------------------------|---------|------------|-----------|----------|----|-----|----|------------|-------|
| * Solids, Dissolved    | CES     | 12/14/2018 | SM 2540C  |          | 1  |     | 25 | 317        | mg/L  |
| Filter Completion Date | CRB     | 12/11/2018 | SM 2540C  |          | 1  |     |    | 12/11/2018 | Date  |

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# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 05-Dec-18  
 Customer ID:  
 Delivery Date: 06-Dec-18

Description: Gaston Ash Pond - MW-27

Laboratory ID Number: AY28252

| Sample  | Analysis               | Units | MB         | MB      |       |         | LCS     |         |                  | Rec  |           | Prec      |       |
|---------|------------------------|-------|------------|---------|-------|---------|---------|---------|------------------|------|-----------|-----------|-------|
|         |                        |       |            | Limit   | Spike | MS      | MSD     | LCS     | Limit            | Rec  | Limit     | Prec      | Limit |
| AY28255 | Lead, Total            | mg/L  | 0.0000112  | 0.0022  | 0.10  | 0.106   | 0.105   | 0.102   | 0.085 to 0.115   | 106  | 70 to 130 | 0.764     | 20    |
| AY28255 | Manganese, Total       | mg/L  | 0.0000706  | 0.0022  | 0.10  | 0.0960  | 0.0956  | 0.0967  | 0.085 to 0.115   | 96.0 | 70 to 130 | 0.417     | 20    |
| AY28255 | Molybdenum, Total      | mg/L  | 0.0000297  | 0.0044  | 0.10  | 0.0915  | 0.0878  | 0.0897  | 0.085 to 0.115   | 91.5 | 70 to 130 | 4.16      | 20    |
| AY28845 | Calcium, Total         | mg/L  | -0.00557   | 0.22    | 5.00  | 86.6    | 98.8    | 5.13    | 4.25 to 5.75     | 142  | 70 to 130 | 13.2      | 20    |
| AY28845 | Magnesium, Total       | mg/L  | -0.00141   | 0.22    | 5.00  | 22.9    | 23.0    | 5.35    | 4.25 to 5.75     | 106  | 70 to 130 | 0.486     | 20    |
| AY28255 | Antimony, Total        | mg/L  | 0.000156   | 0.00176 | 0.10  | 0.0982  | 0.0971  | 0.0992  | 0.085 to 0.115   | 98.2 | 70 to 130 | 1.09      | 20    |
| AY28845 | Iron, Total            | mg/L  | 0.0000756  | 0.022   | 0.2   | 0.740   | 0.745   | 0.209   | 0.17 to 0.23     | 102  | 70 to 130 | 0.632     | 20    |
| AY28255 | Cobalt, Total          | mg/L  | 0.0000715  | 0.0044  | 0.10  | 0.0925  | 0.0912  | 0.0915  | 0.085 to 0.115   | 92.5 | 70 to 130 | 1.42      | 20    |
| AY28255 | Chromium, Total        | mg/L  | 0.0000761  | 0.0044  | 0.10  | 0.0945  | 0.0951  | 0.0954  | 0.085 to 0.115   | 94.5 | 70 to 130 | 0.628     | 20    |
| AY28255 | Iron, Dissolved        | mg/L  | 0.000281   | 0.022   | 0.2   | 0.202   | 0.205   | 0.201   | 0.17 to 0.23     | 101  | 70 to 130 | 1.61      | 20    |
| AY28255 | Thallium, Total        | mg/L  | 0.00000461 | 0.00044 | 0.10  | 0.105   | 0.104   | 0.0996  | 0.085 to 0.115   | 105  | 70 to 130 | 0.558     | 20    |
| AY28255 | Mercury, Total by CVAA | mg/L  | -0.0000112 | 0.0005  | 0.004 | 0.00378 | 0.00379 | 0.00382 | 0.0034 to 0.0046 | 94.4 | 70 to 130 | 0.391     | 20    |
| AY28845 | Lithium, Total         | mg/L  | -0.0000717 | 0.022   | 0.20  | 0.328   | 0.329   | 0.213   | 0.17 to 0.23     | 119  | 70 to 130 | 0.245     | 20    |
| AY28255 | Selenium, Total        | mg/L  | 0.0000603  | 0.0044  | 0.10  | 0.104   | 0.104   | 0.107   | 0.085 to 0.115   | 104  | 70 to 130 | 0.290     | 20    |
| AY28845 | Sodium, Total          | mg/L  | 0.000292   | 0.22    | 5.00  | 34.5    | 34.6    | 5.26    | 4.25 to 5.75     | 112  | 70 to 130 | 0.289     | 20    |
| AY28255 | Cadmium, Total         | mg/L  | 0.00000528 | 0.00066 | 0.10  | 0.102   | 0.101   | 0.102   | 0.085 to 0.115   | 102  | 70 to 130 | 1.17      | 20    |
| AY28255 | Potassium, Total       | mg/L  | 0.00121    | 0.473   | 10.0  | 10.2    | 10.2    | 10.4    | 8.5 to 11.5      | 102  | 70 to 130 | 0.582     | 20    |
| AY28255 | Arsenic, Total         | mg/L  | 0.0000218  | 0.0022  | 0.10  | 0.0997  | 0.0997  | 0.102   | 0.085 to 0.115   | 99.7 | 70 to 130 | 0.0099220 | 20    |
| AY28255 | Barium, Total          | mg/L  | 0.0000218  | 0.0044  | 0.10  | 0.0971  | 0.0971  | 0.0977  | 0.085 to 0.115   | 97.1 | 70 to 130 | 0.0400    | 20    |
| AY28255 | Beryllium, Total       | mg/L  | 0.000000   | 0.00132 | 0.10  | 0.0927  | 0.0985  | 0.104   | 0.085 to 0.115   | 92.7 | 70 to 130 | 6.08      | 20    |
| AY28255 | Manganese, Dissolved   | mg/L  | 0.00000297 | 0.0022  | 0.10  | 0.0856  | 0.0967  |         | 0.085 to 0.115   | 85.6 | 70 to 130 | 12.2      | 20    |
| AY28845 | Boron, Total           | mg/L  | 0.000254   | 0.044   | 1.00  | 3.49    | 3.50    | 1.01    | 0.85 to 1.15     | 100  | 70 to 130 | 0.237     | 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  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 05-Dec-18  
 Customer ID:  
 Delivery Date: 06-Dec-18

Description: Gaston Ash Pond - MW-27

Laboratory ID Number: AY28252

| Sample  | Analysis          | Units | MB     | MB Limit | Spike | MS | Sample Duplicate | LCS  | LCS Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|-------------------|-------|--------|----------|-------|----|------------------|------|-----------|-----|-----------|------|------------|
| AY28254 | Solids, Dissolved | mg/L  | 0.0000 | 25       |       |    | 444              | 55.0 | 40 to 60  |     |           | 0.00 | 5          |

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 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 05-Dec-18  
 Customer ID:  
 Delivery Date: 06-Dec-18

Description: Gaston Ash Pond - MW-27 DUP

Laboratory ID Number: AY28253

| Name                                  | Analyst | Test Date  | Reference | Vio Spec | DF    | MDL     | RL     | Q | Results      | Units |
|---------------------------------------|---------|------------|-----------|----------|-------|---------|--------|---|--------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |            |           |          |       |         |        |   |              |       |
| * Arsenic, Total                      | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.001   | 0.005  | U | Not Detected | mg/L  |
| * Barium, Total                       | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.002   | 0.01   |   | 0.0296       | mg/L  |
| * Beryllium, Total                    | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.0006  | 0.003  | U | Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.02    | 0.1    |   | 0.825        | mg/L  |
| * Calcium, Total                      | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.1     | 0.5    |   | 56.3         | mg/L  |
| * Cadmium, Total                      | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.0003  | 0.001  | U | Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.0008  | 0.003  | U | Not Detected | mg/L  |
| * Cobalt, Total                       | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.002   | 0.005  | U | Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.002   | 0.01   | U | Not Detected | mg/L  |
| * Iron, Dissolved                     | GAS     | 12/13/2018 | EPA 200.7 |          | 2.03  | 0.01    | 0.05   | U | Not Detected | mg/L  |
| * Iron, Total                         | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.01    | 0.05   |   | 0.457        | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 12/18/2018 | EPA 245.1 |          | 1     | 0.00025 | 0.0005 | U | Not Detected | mg/L  |
| * Lithium, Total                      | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.01    | 0.02   | U | Not Detected | mg/L  |
| * Magnesium, Total                    | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.1     | 0.5    |   | 25.5         | mg/L  |
| * Molybdenum, Total                   | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.002   | 0.01   | J | 0.00874      | mg/L  |
| * Lead, Total                         | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.001   | 0.005  | U | Not Detected | mg/L  |
| * Sodium, Total                       | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.1     | 0.5    |   | 15.8         | mg/L  |
| * Manganese, Dissolved                | DLJ     | 12/13/2018 | EPA 200.8 |          | 5.075 | 0.001   | 0.005  | U | Not Detected | mg/L  |
| * Manganese, Total                    | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.001   | 0.005  |   | 0.00832      | mg/L  |
| * Potassium, Total                    | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.215   | 2.5    | J | 1.97         | mg/L  |
| * Selenium, Total                     | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.002   | 0.01   | U | Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.0002  | 0.001  | U | Not Detected | mg/L  |

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 Sample Date: 05-Dec-18  
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 Delivery Date: 06-Dec-18

Description: Gaston Ash Pond - MW-27 DUP

Laboratory ID Number: AY28253

| Name                   | Analyst | Test Date  | Reference | Vio Spec | DF | MDL | RL | Q Results  | Units |
|------------------------|---------|------------|-----------|----------|----|-----|----|------------|-------|
| * Solids, Dissolved    | CES     | 12/14/2018 | SM 2540C  |          | 1  |     | 25 | 307        | mg/L  |
| Filter Completion Date | CRB     | 12/11/2018 | SM 2540C  |          | 1  |     |    | 12/11/2018 | Date  |

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 Customer ID:  
 Delivery Date: 06-Dec-18

Description: Gaston Ash Pond - MW-27 DUP

Laboratory ID Number: AY28253

| Sample  | Analysis               | Units | MB         |         | Spike | MS      | MSD     | LCS     | LCS              |     | Rec   |                     | Prec Limit |
|---------|------------------------|-------|------------|---------|-------|---------|---------|---------|------------------|-----|-------|---------------------|------------|
|         |                        |       | Limit      | MB      |       |         |         |         | Limit            | Rec | Limit | Prec                |            |
| AY28255 | Lead, Total            | mg/L  | 0.0000112  | 0.0022  | 0.10  | 0.106   | 0.105   | 0.102   | 0.085 to 0.115   |     | 106   | 70 to 130 0.764 20  |            |
| AY28255 | Mercury, Total by CVAA | mg/L  | -0.0000112 | 0.0005  | 0.004 | 0.00378 | 0.00379 | 0.00382 | 0.0034 to 0.0046 |     | 94.4  | 70 to 130 0.391 20  |            |
| AY28845 | Lithium, Total         | mg/L  | -0.0000717 | 0.022   | 0.20  | 0.328   | 0.329   | 0.213   | 0.17 to 0.23     |     | 119   | 70 to 130 0.245 20  |            |
| AY28255 | Mangenes, Total        | mg/L  | 0.0000706  | 0.0022  | 0.10  | 0.0960  | 0.0956  | 0.0967  | 0.085 to 0.115   |     | 96.0  | 70 to 130 0.417 20  |            |
| AY28255 | Molybdenum, Total      | mg/L  | 0.0000297  | 0.0044  | 0.10  | 0.0915  | 0.0878  | 0.0897  | 0.085 to 0.115   |     | 91.5  | 70 to 130 4.16 20   |            |
| AY28845 | Calcium, Total         | mg/L  | -0.00557   | 0.22    | 5.00  | 86.6    | 98.8    | 5.13    | 4.25 to 5.75     |     | 142   | 70 to 130 13.2 20   |            |
| AY28845 | Magnesium, Total       | mg/L  | -0.00141   | 0.22    | 5.00  | 22.9    | 23.0    | 5.35    | 4.25 to 5.75     |     | 106   | 70 to 130 0.486 20  |            |
| AY28255 | Cadmium, Total         | mg/L  | 0.00000528 | 0.00066 | 0.10  | 0.102   | 0.101   | 0.102   | 0.085 to 0.115   |     | 102   | 70 to 130 1.17 20   |            |
| AY28255 | Potassium, Total       | mg/L  | 0.00121    | 0.473   | 10.0  | 10.2    | 10.2    | 10.4    | 8.5 to 11.5      |     | 102   | 70 to 130 0.582 20  |            |
| AY28255 | Antimony, Total        | mg/L  | 0.000156   | 0.00176 | 0.10  | 0.0982  | 0.0971  | 0.0992  | 0.085 to 0.115   |     | 98.2  | 70 to 130 1.09 20   |            |
| AY28845 | Iron, Total            | mg/L  | 0.0000756  | 0.022   | 0.2   | 0.740   | 0.745   | 0.209   | 0.17 to 0.23     |     | 102   | 70 to 130 0.632 20  |            |
| AY28255 | Cobalt, Total          | mg/L  | 0.0000715  | 0.0044  | 0.10  | 0.0925  | 0.0912  | 0.0915  | 0.085 to 0.115   |     | 92.5  | 70 to 130 1.42 20   |            |
| AY28255 | Chromium, Total        | mg/L  | 0.0000761  | 0.0044  | 0.10  | 0.0945  | 0.0951  | 0.0954  | 0.085 to 0.115   |     | 94.5  | 70 to 130 0.628 20  |            |
| AY28255 | Iron, Dissolved        | mg/L  | 0.000281   | 0.022   | 0.2   | 0.202   | 0.205   | 0.201   | 0.17 to 0.23     |     | 101   | 70 to 130 1.61 20   |            |
| AY28255 | Thallium, Total        | mg/L  | 0.00000461 | 0.00044 | 0.10  | 0.105   | 0.104   | 0.0996  | 0.085 to 0.115   |     | 105   | 70 to 130 0.558 20  |            |
| AY28255 | Arsenic, Total         | mg/L  | 0.0000218  | 0.0022  | 0.10  | 0.0997  | 0.0997  | 0.102   | 0.085 to 0.115   |     | 99.7  | 70 to 130 0.0099220 |            |
| AY28255 | Barium, Total          | mg/L  | 0.0000218  | 0.0044  | 0.10  | 0.0971  | 0.0971  | 0.0977  | 0.085 to 0.115   |     | 97.1  | 70 to 130 0.0400 20 |            |
| AY28255 | Beryllium, Total       | mg/L  | 0.000000   | 0.00132 | 0.10  | 0.0927  | 0.0985  | 0.104   | 0.085 to 0.115   |     | 92.7  | 70 to 130 6.08 20   |            |
| AY28255 | Mangenes, Dissolved    | mg/L  | 0.00000297 | 0.0022  | 0.10  | 0.0856  | 0.0967  |         | 0.085 to 0.115   |     | 85.6  | 70 to 130 12.2 20   |            |
| AY28845 | Boron, Total           | mg/L  | 0.000254   | 0.044   | 1.00  | 3.49    | 3.50    | 1.01    | 0.85 to 1.15     |     | 100   | 70 to 130 0.237 20  |            |
| AY28255 | Selenium, Total        | mg/L  | 0.0000603  | 0.0044  | 0.10  | 0.104   | 0.104   | 0.107   | 0.085 to 0.115   |     | 104   | 70 to 130 0.290 20  |            |
| AY28845 | Sodium, Total          | mg/L  | 0.000292   | 0.22    | 5.00  | 34.5    | 34.6    | 5.26    | 4.25 to 5.75     |     | 112   | 70 to 130 0.289 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 01/15/2019

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  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 05-Dec-18  
 Customer ID:  
 Delivery Date: 06-Dec-18

Description: Gaston Ash Pond - MW-27 DUP

Laboratory ID Number: AY28253

| Sample  | Analysis          | Units | MB     | MB Limit | Spike | MS | Sample Duplicate | LCS  | LCS Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|-------------------|-------|--------|----------|-------|----|------------------|------|-----------|-----|-----------|------|------------|
| AY28254 | Solids, Dissolved | mg/L  | 0.0000 | 25       |       |    | 444              | 55.0 | 40 to 60  |     |           | 0.00 | 5          |

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

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CC:

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

**Certificate Of Analysis**  **Alabama Power**



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 06-Dec-18  
 Customer ID:  
 Delivery Date: 06-Dec-18

Description: Gaston Ash Pond - MW-26

Laboratory ID Number: AY28254

| Name                                  | Analyst | Test Date  | Reference | Vio Spec | DF    | MDL     | RL     | Q | Results      | Units |
|---------------------------------------|---------|------------|-----------|----------|-------|---------|--------|---|--------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |            |           |          |       |         |        |   |              |       |
| * Arsenic, Total                      | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.001   | 0.005  | U | Not Detected | mg/L  |
| * Barium, Total                       | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.002   | 0.01   |   | 0.0188       | mg/L  |
| * Beryllium, Total                    | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.0006  | 0.003  | U | Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.02    | 0.1    |   | 1.38         | mg/L  |
| * Calcium, Total                      | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.1     | 0.5    |   | 71.2         | mg/L  |
| * Cadmium, Total                      | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.0003  | 0.001  | U | Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.0008  | 0.003  | U | Not Detected | mg/L  |
| * Cobalt, Total                       | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.002   | 0.005  | U | Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.002   | 0.01   | U | Not Detected | mg/L  |
| * Iron, Dissolved                     | GAS     | 12/13/2018 | EPA 200.7 |          | 2.03  | 0.01    | 0.05   | U | Not Detected | mg/L  |
| * Iron, Total                         | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.01    | 0.05   |   | 0.276        | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 12/18/2018 | EPA 245.1 |          | 1     | 0.00025 | 0.0005 | U | Not Detected | mg/L  |
| * Lithium, Total                      | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.01    | 0.02   | U | Not Detected | mg/L  |
| * Magnesium, Total                    | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.1     | 0.5    |   | 36.4         | mg/L  |
| * Molybdenum, Total                   | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.002   | 0.01   | U | Not Detected | mg/L  |
| * Lead, Total                         | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.001   | 0.005  | U | Not Detected | mg/L  |
| * Sodium, Total                       | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.1     | 0.5    |   | 21.9         | mg/L  |
| * Manganese, Dissolved                | DLJ     | 12/13/2018 | EPA 200.8 |          | 5.075 | 0.001   | 0.005  |   | 0.0448       | mg/L  |
| * Manganese, Total                    | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.001   | 0.005  |   | 0.0601       | mg/L  |
| * Potassium, Total                    | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.215   | 2.5    | J | 1.11         | mg/L  |
| * Selenium, Total                     | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.002   | 0.01   | U | Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 12/14/2018 | 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 01/15/2019

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  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 06-Dec-18  
 Customer ID:  
 Delivery Date: 06-Dec-18

Description: Gaston Ash Pond - MW-26

Laboratory ID Number: AY28254

| Name                   | Analyst | Test Date  | Reference | Vio Spec | DF | MDL | RL | Q Results  | Units |
|------------------------|---------|------------|-----------|----------|----|-----|----|------------|-------|
| * Solids, Dissolved    | CES     | 12/14/2018 | SM 2540C  |          | 1  |     | 25 | 444        | mg/L  |
| Filter Completion Date | CRB     | 12/11/2018 | SM 2540C  |          | 1  |     |    | 12/11/2018 | Date  |

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 Calera, AL 35040  
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 FAX (205) 257-1654

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 06-Dec-18  
 Customer ID:  
 Delivery Date: 06-Dec-18

Description: Gaston Ash Pond - MW-26

Laboratory ID Number: AY28254

| Sample  | Analysis               | Units | MB         |         | Spike | MS      | MSD     | LCS     | LCS              |     | Rec   |           | Prec | Limit     |    |
|---------|------------------------|-------|------------|---------|-------|---------|---------|---------|------------------|-----|-------|-----------|------|-----------|----|
|         |                        |       | Limit      | MB      |       |         |         |         | Limit            | Rec | Limit | Prec      |      |           |    |
| AY28255 | Lead, Total            | mg/L  | 0.0000112  | 0.0022  | 0.10  | 0.106   | 0.105   | 0.102   | 0.085 to 0.115   |     | 106   | 70 to 130 |      | 0.764     | 20 |
| AY28255 | Mercury, Total by CVAA | mg/L  | -0.0000112 | 0.0005  | 0.004 | 0.00378 | 0.00379 | 0.00382 | 0.0034 to 0.0046 |     | 94.4  | 70 to 130 |      | 0.391     | 20 |
| AY28845 | Lithium, Total         | mg/L  | -0.0000717 | 0.022   | 0.20  | 0.328   | 0.329   | 0.213   | 0.17 to 0.23     |     | 119   | 70 to 130 |      | 0.245     | 20 |
| AY28255 | Mangenes, Total        | mg/L  | 0.0000706  | 0.0022  | 0.10  | 0.0960  | 0.0956  | 0.0967  | 0.085 to 0.115   |     | 96.0  | 70 to 130 |      | 0.417     | 20 |
| AY28255 | Molybdenum, Total      | mg/L  | 0.0000297  | 0.0044  | 0.10  | 0.0915  | 0.0878  | 0.0897  | 0.085 to 0.115   |     | 91.5  | 70 to 130 |      | 4.16      | 20 |
| AY28845 | Calcium, Total         | mg/L  | -0.00557   | 0.22    | 5.00  | 86.6    | 98.8    | 5.13    | 4.25 to 5.75     |     | 142   | 70 to 130 |      | 13.2      | 20 |
| AY28845 | Magnesium, Total       | mg/L  | -0.00141   | 0.22    | 5.00  | 22.9    | 23.0    | 5.35    | 4.25 to 5.75     |     | 106   | 70 to 130 |      | 0.486     | 20 |
| AY28255 | Antimony, Total        | mg/L  | 0.000156   | 0.00176 | 0.10  | 0.0982  | 0.0971  | 0.0992  | 0.085 to 0.115   |     | 98.2  | 70 to 130 |      | 1.09      | 20 |
| AY28845 | Iron, Total            | mg/L  | 0.0000756  | 0.022   | 0.2   | 0.740   | 0.745   | 0.209   | 0.17 to 0.23     |     | 102   | 70 to 130 |      | 0.632     | 20 |
| AY28255 | Selenium, Total        | mg/L  | 0.0000603  | 0.0044  | 0.10  | 0.104   | 0.104   | 0.107   | 0.085 to 0.115   |     | 104   | 70 to 130 |      | 0.290     | 20 |
| AY28845 | Sodium, Total          | mg/L  | 0.000292   | 0.22    | 5.00  | 34.5    | 34.6    | 5.26    | 4.25 to 5.75     |     | 112   | 70 to 130 |      | 0.289     | 20 |
| AY28255 | Cobalt, Total          | mg/L  | 0.0000715  | 0.0044  | 0.10  | 0.0925  | 0.0912  | 0.0915  | 0.085 to 0.115   |     | 92.5  | 70 to 130 |      | 1.42      | 20 |
| AY28255 | Chromium, Total        | mg/L  | 0.0000761  | 0.0044  | 0.10  | 0.0945  | 0.0951  | 0.0954  | 0.085 to 0.115   |     | 94.5  | 70 to 130 |      | 0.628     | 20 |
| AY28255 | Iron, Dissolved        | mg/L  | 0.000281   | 0.022   | 0.2   | 0.202   | 0.205   | 0.201   | 0.17 to 0.23     |     | 101   | 70 to 130 |      | 1.61      | 20 |
| AY28255 | Thallium, Total        | mg/L  | 0.00000461 | 0.00044 | 0.10  | 0.105   | 0.104   | 0.0996  | 0.085 to 0.115   |     | 105   | 70 to 130 |      | 0.558     | 20 |
| AY28255 | Cadmium, Total         | mg/L  | 0.00000528 | 0.00066 | 0.10  | 0.102   | 0.101   | 0.102   | 0.085 to 0.115   |     | 102   | 70 to 130 |      | 1.17      | 20 |
| AY28255 | Potassium, Total       | mg/L  | 0.00121    | 0.473   | 10.0  | 10.2    | 10.2    | 10.4    | 8.5 to 11.5      |     | 102   | 70 to 130 |      | 0.582     | 20 |
| AY28255 | Arsenic, Total         | mg/L  | 0.0000218  | 0.0022  | 0.10  | 0.0997  | 0.0997  | 0.102   | 0.085 to 0.115   |     | 99.7  | 70 to 130 |      | 0.0099220 |    |
| AY28255 | Barium, Total          | mg/L  | 0.0000218  | 0.0044  | 0.10  | 0.0971  | 0.0971  | 0.0977  | 0.085 to 0.115   |     | 97.1  | 70 to 130 |      | 0.0400    | 20 |
| AY28255 | Beryllium, Total       | mg/L  | 0.000000   | 0.00132 | 0.10  | 0.0927  | 0.0985  | 0.104   | 0.085 to 0.115   |     | 92.7  | 70 to 130 |      | 6.08      | 20 |
| AY28255 | Mangenes, Dissolved    | mg/L  | 0.00000297 | 0.0022  | 0.10  | 0.0856  | 0.0967  |         | 0.085 to 0.115   |     | 85.6  | 70 to 130 |      | 12.2      | 20 |
| AY28845 | Boron, Total           | mg/L  | 0.000254   | 0.044   | 1.00  | 3.49    | 3.50    | 1.01    | 0.85 to 1.15     |     | 100   | 70 to 130 |      | 0.237     | 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 01/15/2019



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  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 06-Dec-18  
 Customer ID:  
 Delivery Date: 06-Dec-18

Description: Gaston Ash Pond - MW-26

Laboratory ID Number: AY28254

| Sample  | Analysis          | Units | MB     | MB    | Spike | MS | Sample    | LCS  | Rec      | Prec  |      |       |
|---------|-------------------|-------|--------|-------|-------|----|-----------|------|----------|-------|------|-------|
|         |                   |       | Limit  | Limit |       |    | Duplicate | LCS  | Limit    | Limit | Prec | Limit |
| AY28254 | Solids, Dissolved | mg/L  | 0.0000 | 25    |       |    | 444       | 55.0 | 40 to 60 |       | 0.00 | 5     |

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

# Certificate Of Analysis



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAPEB  
 Sample Date: 06-Dec-18  
 Customer ID:  
 Delivery Date: 06-Dec-18

Description: Gaston Ash Pond Equipment Blank

Laboratory ID Number: AY28255

| Name                                  | Analyst | Test Date  | Reference | Vio Spec | DF    | MDL     | RL     | Q Results      | Units |
|---------------------------------------|---------|------------|-----------|----------|-------|---------|--------|----------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |            |           |          |       |         |        |                |       |
| * Arsenic, Total                      | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.001   | 0.005  | U Not Detected | mg/L  |
| * Barium, Total                       | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.002   | 0.01   | U Not Detected | mg/L  |
| * Beryllium, Total                    | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.0006  | 0.003  | U Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.02    | 0.1    | U Not Detected | mg/L  |
| * Calcium, Total                      | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.1     | 0.5    | U Not Detected | mg/L  |
| * Cadmium, Total                      | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.0003  | 0.001  | U Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.0008  | 0.003  | U Not Detected | mg/L  |
| * Cobalt, Total                       | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.002   | 0.005  | U Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.002   | 0.01   | U Not Detected | mg/L  |
| * Iron, Dissolved                     | GAS     | 12/13/2018 | EPA 200.7 |          | 2.03  | 0.01    | 0.05   | U Not Detected | mg/L  |
| * Iron, Total                         | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.01    | 0.05   | U Not Detected | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 12/18/2018 | EPA 245.1 |          | 1     | 0.00025 | 0.0005 | U Not Detected | mg/L  |
| * Lithium, Total                      | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.01    | 0.02   | U Not Detected | mg/L  |
| * Magnesium, Total                    | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.1     | 0.5    | U Not Detected | mg/L  |
| * Molybdenum, Total                   | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.002   | 0.01   | U Not Detected | mg/L  |
| * Lead, Total                         | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.001   | 0.005  | U Not Detected | mg/L  |
| * Sodium, Total                       | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.1     | 0.5    | U Not Detected | mg/L  |
| * Manganese, Dissolved                | DLJ     | 12/13/2018 | EPA 200.8 |          | 5.075 | 0.001   | 0.005  | U Not Detected | mg/L  |
| * Manganese, Total                    | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.001   | 0.005  | U Not Detected | mg/L  |
| * Potassium, Total                    | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.215   | 2.5    | U Not Detected | mg/L  |
| * Selenium, Total                     | DLJ     | 12/14/2018 | EPA 200.8 |          | 5.075 | 0.002   | 0.01   | U Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 12/14/2018 | 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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 FAX (205) 257-1654

# Certificate Of Analysis Alabama Power



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAPEB  
 Sample Date: 06-Dec-18  
 Customer ID:  
 Delivery Date: 06-Dec-18

Description: Gaston Ash Pond Equipment Blank

Laboratory ID Number: AY28255

| Name                   | Analyst | Test Date  | Reference | Vio Spec | DF | MDL | RL | Q Results      | Units |
|------------------------|---------|------------|-----------|----------|----|-----|----|----------------|-------|
| * Solids, Dissolved    | CES     | 12/14/2018 | SM 2540C  |          | 1  |     | 25 | U Not Detected | mg/L  |
| Filter Completion Date | CRB     | 12/11/2018 | SM 2540C  |          | 1  |     |    | 12/11/2018     | Date  |

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

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAPEB  
 Sample Date: 06-Dec-18  
 Customer ID:  
 Delivery Date: 06-Dec-18

Description: Gaston Ash Pond Equipment Blank

Laboratory ID Number: AY28255

| Sample  | Analysis               | Units | MB         |         | Spike | MS      | MSD     | LCS     | LCS              |      | Rec       |           | Prec | Limit |
|---------|------------------------|-------|------------|---------|-------|---------|---------|---------|------------------|------|-----------|-----------|------|-------|
|         |                        |       | Limit      | MB      |       |         |         |         | Limit            | Rec  | Limit     | Prec      |      |       |
| AY28255 | Lead, Total            | mg/L  | 0.0000112  | 0.0022  | 0.10  | 0.106   | 0.105   | 0.102   | 0.085 to 0.115   | 106  | 70 to 130 | 0.764     | 20   |       |
| AY28255 | Manganese, Total       | mg/L  | 0.0000706  | 0.0022  | 0.10  | 0.0960  | 0.0956  | 0.0967  | 0.085 to 0.115   | 96.0 | 70 to 130 | 0.417     | 20   |       |
| AY28255 | Molybdenum, Total      | mg/L  | 0.0000297  | 0.0044  | 0.10  | 0.0915  | 0.0878  | 0.0897  | 0.085 to 0.115   | 91.5 | 70 to 130 | 4.16      | 20   |       |
| AY28845 | Calcium, Total         | mg/L  | -0.00557   | 0.22    | 5.00  | 86.6    | 98.8    | 5.13    | 4.25 to 5.75     | 142  | 70 to 130 | 13.2      | 20   |       |
| AY28845 | Magnesium, Total       | mg/L  | -0.00141   | 0.22    | 5.00  | 22.9    | 23.0    | 5.35    | 4.25 to 5.75     | 106  | 70 to 130 | 0.486     | 20   |       |
| AY28255 | Antimony, Total        | mg/L  | 0.000156   | 0.00176 | 0.10  | 0.0982  | 0.0971  | 0.0992  | 0.085 to 0.115   | 98.2 | 70 to 130 | 1.09      | 20   |       |
| AY28845 | Iron, Total            | mg/L  | 0.0000756  | 0.022   | 0.2   | 0.740   | 0.745   | 0.209   | 0.17 to 0.23     | 102  | 70 to 130 | 0.632     | 20   |       |
| AY28255 | Mercury, Total by CVAA | mg/L  | -0.0000112 | 0.0005  | 0.004 | 0.00378 | 0.00379 | 0.00382 | 0.0034 to 0.0046 | 94.4 | 70 to 130 | 0.391     | 20   |       |
| AY28845 | Lithium, Total         | mg/L  | -0.0000717 | 0.022   | 0.20  | 0.328   | 0.329   | 0.213   | 0.17 to 0.23     | 119  | 70 to 130 | 0.245     | 20   |       |
| AY28255 | Selenium, Total        | mg/L  | 0.0000603  | 0.0044  | 0.10  | 0.104   | 0.104   | 0.107   | 0.085 to 0.115   | 104  | 70 to 130 | 0.290     | 20   |       |
| AY28845 | Sodium, Total          | mg/L  | 0.000292   | 0.22    | 5.00  | 34.5    | 34.6    | 5.26    | 4.25 to 5.75     | 112  | 70 to 130 | 0.289     | 20   |       |
| AY28255 | Cobalt, Total          | mg/L  | 0.0000715  | 0.0044  | 0.10  | 0.0925  | 0.0912  | 0.0915  | 0.085 to 0.115   | 92.5 | 70 to 130 | 1.42      | 20   |       |
| AY28255 | Chromium, Total        | mg/L  | 0.0000761  | 0.0044  | 0.10  | 0.0945  | 0.0951  | 0.0954  | 0.085 to 0.115   | 94.5 | 70 to 130 | 0.628     | 20   |       |
| AY28255 | Iron, Dissolved        | mg/L  | 0.000281   | 0.022   | 0.2   | 0.202   | 0.205   | 0.201   | 0.17 to 0.23     | 101  | 70 to 130 | 1.61      | 20   |       |
| AY28255 | Thallium, Total        | mg/L  | 0.00000461 | 0.00044 | 0.10  | 0.105   | 0.104   | 0.0996  | 0.085 to 0.115   | 105  | 70 to 130 | 0.558     | 20   |       |
| AY28255 | Arsenic, Total         | mg/L  | 0.0000218  | 0.0022  | 0.10  | 0.0997  | 0.0997  | 0.102   | 0.085 to 0.115   | 99.7 | 70 to 130 | 0.0099220 | 20   |       |
| AY28255 | Barium, Total          | mg/L  | 0.0000218  | 0.0044  | 0.10  | 0.0971  | 0.0971  | 0.0977  | 0.085 to 0.115   | 97.1 | 70 to 130 | 0.0400    | 20   |       |
| AY28255 | Beryllium, Total       | mg/L  | 0.000000   | 0.00132 | 0.10  | 0.0927  | 0.0985  | 0.104   | 0.085 to 0.115   | 92.7 | 70 to 130 | 6.08      | 20   |       |
| AY28255 | Manganese, Dissolved   | mg/L  | 0.00000297 | 0.0022  | 0.10  | 0.0856  | 0.0967  |         | 0.085 to 0.115   | 85.6 | 70 to 130 | 12.2      | 20   |       |
| AY28845 | Boron, Total           | mg/L  | 0.000254   | 0.044   | 1.00  | 3.49    | 3.50    | 1.01    | 0.85 to 1.15     | 100  | 70 to 130 | 0.237     | 20   |       |
| AY28255 | Cadmium, Total         | mg/L  | 0.00000528 | 0.00066 | 0.10  | 0.102   | 0.101   | 0.102   | 0.085 to 0.115   | 102  | 70 to 130 | 1.17      | 20   |       |
| AY28255 | Potassium, Total       | mg/L  | 0.00121    | 0.473   | 10.0  | 10.2    | 10.2    | 10.4    | 8.5 to 11.5      | 102  | 70 to 130 | 0.582     | 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:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 01/15/2019

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  
 Lauren Parker

Customer Account: WMWGASAPEB  
 Sample Date: 06-Dec-18  
 Customer ID:  
 Delivery Date: 06-Dec-18

Description: Gaston Ash Pond Equipment Blank

Laboratory ID Number: AY28255

| Sample  | Analysis          | Units | MB     | MB    | Spike | MS | Sample    | LCS  | Rec      | Prec  |   |
|---------|-------------------|-------|--------|-------|-------|----|-----------|------|----------|-------|---|
|         |                   |       | Limit  | Limit |       |    | Duplicate | LCS  | Limit    | Limit |   |
| AY28254 | Solids, Dissolved | mg/L  | 0.0000 | 25    |       |    | 444       | 55.0 | 40 to 60 | 0.00  | 5 |

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 01/15/2019

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  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 13-Dec-18  
 Customer ID:  
 Delivery Date: 14-Dec-18

Description: Gaston Ash Pond - MW-20SV

Laboratory ID Number: AY28748

| Name                                  | Analyst | Test Date  | Reference | Vio Spec | DF    | MDL     | RL     | Q Results      | Units |
|---------------------------------------|---------|------------|-----------|----------|-------|---------|--------|----------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |            |           |          |       |         |        |                |       |
| * Arsenic, Total                      | DLJ     | 1/2/2019   | EPA 200.8 |          | 5.075 | 0.001   | 0.005  | J 0.00301      | mg/L  |
| * Barium, Total                       | DLJ     | 1/2/2019   | EPA 200.8 |          | 5.075 | 0.002   | 0.01   | 0.0863         | mg/L  |
| * Beryllium, Total                    | DLJ     | 1/2/2019   | EPA 200.8 |          | 5.075 | 0.0006  | 0.003  | U Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.02    | 0.1    | 1.73           | mg/L  |
| * Calcium, Total                      | GAS     | 12/28/2018 | EPA 200.7 |          | 10.15 | 1.015   | 5.075  | 117            | mg/L  |
| * Cadmium, Total                      | DLJ     | 1/2/2019   | EPA 200.8 |          | 5.075 | 0.0003  | 0.001  | U Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 1/2/2019   | EPA 200.8 |          | 5.075 | 0.0008  | 0.003  | J 0.000904     | mg/L  |
| * Molybdenum, Total                   | DLJ     | 1/2/2019   | EPA 200.8 |          | 5.075 | 0.002   | 0.01   | 0.118          | mg/L  |
| * Lithium, Total                      | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.01    | 0.02   | U Not Detected | mg/L  |
| * Magnesium, Total                    | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.1     | 0.5    | 42.4           | mg/L  |
| * Cobalt, Total                       | DLJ     | 1/2/2019   | EPA 200.8 |          | 5.075 | 0.002   | 0.005  | J 0.00427      | mg/L  |
| * Chromium, Total                     | DLJ     | 1/2/2019   | EPA 200.8 |          | 5.075 | 0.002   | 0.01   | U Not Detected | mg/L  |
| * Iron, Dissolved                     | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.01    | 0.05   | 1.58           | mg/L  |
| * Iron, Total                         | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.01    | 0.05   | 2.10           | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 12/18/2018 | EPA 245.1 |          | 1     | 0.00025 | 0.0005 | U Not Detected | mg/L  |
| * Lead, Total                         | DLJ     | 1/2/2019   | EPA 200.8 |          | 5.075 | 0.001   | 0.005  | U Not Detected | mg/L  |
| * Potassium, Total                    | DLJ     | 1/2/2019   | EPA 200.8 |          | 5.075 | 0.215   | 2.5    | J 0.582        | mg/L  |
| * Manganese, Dissolved                | DLJ     | 1/2/2019   | EPA 200.8 |          | 5.075 | 0.001   | 0.005  | 1.17           | mg/L  |
| * Manganese, Total                    | DLJ     | 1/2/2019   | EPA 200.8 |          | 5.075 | 0.001   | 0.005  | 1.20           | mg/L  |
| * Sodium, Total                       | GAS     | 12/20/2018 | EPA 200.7 |          | 2.03  | 0.1     | 0.5    | 13.2           | mg/L  |
| * Selenium, Total                     | DLJ     | 1/2/2019   | EPA 200.8 |          | 5.075 | 0.002   | 0.01   | U Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 1/2/2019   | EPA 200.8 |          | 5.075 | 0.0002  | 0.001  | U Not Detected | mg/L  |

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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:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Recovery for Manganese is out of spec. Spike amount is less than 30% of the sample amount. LBM 01/15/2019

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  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 13-Dec-18  
 Customer ID:  
 Delivery Date: 14-Dec-18

Description: Gaston Ash Pond - MW-20SV

Laboratory ID Number: AY28748

| Sample  | Analysis               | Units | MB          |         | Spike | MS      | MSD     | LCS     | LCS              |     | Rec   |           | Prec  | Limit |
|---------|------------------------|-------|-------------|---------|-------|---------|---------|---------|------------------|-----|-------|-----------|-------|-------|
|         |                        |       | MB          | Limit   |       |         |         |         | Limit            | Rec | Limit | Prec      |       |       |
| AY28748 | Chromium, Total        | mg/L  | 0.0000619   | 0.0044  | 0.10  | 0.0897  | 0.0941  | 0.0953  | 0.085 to 0.115   |     | 89.7  | 70 to 130 | 4.74  | 20    |
| AY28255 | Mercury, Total by CVAA | mg/L  | -0.0000112  | 0.0005  | 0.004 | 0.00378 | 0.00379 | 0.00382 | 0.0034 to 0.0046 |     | 94.4  | 70 to 130 | 0.391 | 20    |
| AY28748 | Cobalt, Total          | mg/L  | 0.000000264 | 0.0044  | 0.10  | 0.0941  | 0.0950  | 0.0908  | 0.085 to 0.115   |     | 89.9  | 70 to 130 | 0.868 | 20    |
| AY28748 | Lead, Total            | mg/L  | 0.00000601  | 0.0022  | 0.10  | 0.0900  | 0.0936  | 0.101   | 0.085 to 0.115   |     | 90.0  | 70 to 130 | 3.92  | 20    |
| AY28845 | Lithium, Total         | mg/L  | -0.0000717  | 0.022   | 0.20  | 0.328   | 0.329   | 0.213   | 0.17 to 0.23     |     | 119   | 70 to 130 | 0.245 | 20    |
| AY28748 | Arsenic, Total         | mg/L  | 0.0000122   | 0.0022  | 0.10  | 0.0913  | 0.0952  | 0.0923  | 0.085 to 0.115   |     | 88.3  | 70 to 130 | 4.24  | 20    |
| AY28845 | Iron, Total            | mg/L  | 0.0000756   | 0.022   | 0.2   | 0.740   | 0.745   | 0.209   | 0.17 to 0.23     |     | 102   | 70 to 130 | 0.632 | 20    |
| AY28748 | Barium, Total          | mg/L  | 0.0000137   | 0.0044  | 0.10  | 0.180   | 0.182   | 0.0922  | 0.085 to 0.115   |     | 94.1  | 70 to 130 | 0.748 | 20    |
| AY28748 | Cadmium, Total         | mg/L  | 0.00000176  | 0.00066 | 0.10  | 0.0920  | 0.0953  | 0.0916  | 0.085 to 0.115   |     | 92.0  | 70 to 130 | 3.52  | 20    |
| AY28748 | Thallium, Total        | mg/L  | 0.00000776  | 0.00044 | 0.10  | 0.0889  | 0.100   | 0.101   | 0.085 to 0.115   |     | 88.9  | 70 to 130 | 12.2  | 20    |
| AY28845 | Calcium, Total         | mg/L  | -0.00557    | 0.22    | 5.00  | 86.6    | 98.8    | 5.13    | 4.25 to 5.75     |     | 142   | 70 to 130 | 13.2  | 20    |
| AY28845 | Magnesium, Total       | mg/L  | -0.00141    | 0.22    | 5.00  | 22.9    | 23.0    | 5.35    | 4.25 to 5.75     |     | 106   | 70 to 130 | 0.486 | 20    |
| AY28748 | Antimony, Total        | mg/L  | 0.000245    | 0.00176 | 0.10  | 0.0914  | 0.0979  | 0.0929  | 0.085 to 0.115   |     | 90.5  | 70 to 130 | 6.77  | 20    |
| AY28845 | Sodium, Total          | mg/L  | 0.000292    | 0.22    | 5.00  | 34.5    | 34.6    | 5.26    | 4.25 to 5.75     |     | 112   | 70 to 130 | 0.289 | 20    |
| AY28748 | Beryllium, Total       | mg/L  | 0.00000801  | 0.00132 | 0.10  | 0.0959  | 0.0932  | 0.100   | 0.085 to 0.115   |     | 95.9  | 70 to 130 | 2.84  | 20    |
| AY28748 | Manganese, Total       | mg/L  | 0.0000269   | 0.0022  | 0.10  | 1.27    | 1.31    | 0.0906  | 0.085 to 0.115   |     | 64.1  | 70 to 130 | 3.68  | 20    |
| AY28748 | Selenium, Total        | mg/L  | 0.0000291   | 0.0044  | 0.10  | 0.0910  | 0.0948  | 0.0963  | 0.085 to 0.115   |     | 91.0  | 70 to 130 | 4.11  | 20    |
| AY28748 | Potassium, Total       | mg/L  | 0.00546     | 0.473   | 10.0  | 10.6    | 11.0    | 10.2    | 8.5 to 11.5      |     | 101   | 70 to 130 | 3.24  | 20    |
| AY28845 | Iron, Dissolved        | mg/L  | 0.0000901   | 0.022   | 0.2   | 0.662   | 0.659   | 0.204   | 0.17 to 0.23     |     | 104   | 70 to 130 | 0.476 | 20    |
| AY28748 | Molybdenum, Total      | mg/L  | 0.0000382   | 0.0044  | 0.10  | 0.201   | 0.212   | 0.0882  | 0.085 to 0.115   |     | 83.5  | 70 to 130 | 4.95  | 20    |
| AY28845 | Boron, Total           | mg/L  | 0.000254    | 0.044   | 1.00  | 3.49    | 3.50    | 1.01    | 0.85 to 1.15     |     | 100   | 70 to 130 | 0.237 | 20    |
| AY28845 | Manganese, Dissolved   | mg/L  | 0.00000108  | 0.0022  | 0.10  | 1.05    | 0.973   |         | 0.085 to 0.115   |     | 160   | 70 to 130 | 7.68  | 20    |

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Recovery for Manganese is out of spec. Spike amount is less than 30% of the sample amount. LBM 01/15/2019

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**

Revised Copy



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 17-Dec-18  
 Customer ID:  
 Delivery Date: 17-Dec-18

Description: Gaston Ash Pond - MW-17SV

Laboratory ID Number: AY28845

| Name                                  | Analyst | Test Date  | Reference | Vio | Spec | DF    | MDL     | RL     | Q | Results      | Units |
|---------------------------------------|---------|------------|-----------|-----|------|-------|---------|--------|---|--------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |            |           |     |      |       |         |        |   |              |       |
| * Arsenic, Total                      | DLJ     | 1/2/2019   | EPA 200.8 |     |      | 5.075 | 0.001   | 0.005  | J | 0.00173      | mg/L  |
| * Barium, Total                       | DLJ     | 1/2/2019   | EPA 200.8 |     |      | 5.075 | 0.002   | 0.01   |   | 0.0610       | mg/L  |
| * Beryllium, Total                    | DLJ     | 1/2/2019   | EPA 200.8 |     |      | 5.075 | 0.0006  | 0.003  | U | Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 12/20/2018 | EPA 200.7 |     |      | 2.03  | 0.02    | 0.1    |   | 2.48         | mg/L  |
| * Calcium, Total                      | GAS     | 12/20/2018 | EPA 200.7 |     |      | 2.03  | 0.1     | 0.5    |   | 79.5         | mg/L  |
| * Cadmium, Total                      | DLJ     | 1/2/2019   | EPA 200.8 |     |      | 5.075 | 0.0003  | 0.001  | U | Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 1/2/2019   | EPA 200.8 |     |      | 5.075 | 0.0008  | 0.003  | U | Not Detected | mg/L  |
| * Cobalt, Total                       | DLJ     | 1/2/2019   | EPA 200.8 |     |      | 5.075 | 0.002   | 0.005  | J | 0.00461      | mg/L  |
| * Chromium, Total                     | DLJ     | 1/2/2019   | EPA 200.8 |     |      | 5.075 | 0.002   | 0.01   | U | Not Detected | mg/L  |
| * Iron, Dissolved                     | GAS     | 12/20/2018 | EPA 200.7 |     |      | 2.03  | 0.01    | 0.05   |   | 0.455        | mg/L  |
| * Iron, Total                         | GAS     | 12/20/2018 | EPA 200.7 |     |      | 2.03  | 0.01    | 0.05   |   | 0.537        | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 12/20/2018 | EPA 245.1 |     |      | 1     | 0.00025 | 0.0005 | U | Not Detected | mg/L  |
| * Lithium, Total                      | GAS     | 12/20/2018 | EPA 200.7 |     |      | 2.03  | 0.01    | 0.02   |   | 0.0898       | mg/L  |
| * Magnesium, Total                    | GAS     | 12/20/2018 | EPA 200.7 |     |      | 2.03  | 0.1     | 0.5    |   | 17.6         | mg/L  |
| * Molybdenum, Total                   | DLJ     | 1/2/2019   | EPA 200.8 |     |      | 5.075 | 0.002   | 0.01   |   | 0.455        | mg/L  |
| * Lead, Total                         | DLJ     | 1/2/2019   | EPA 200.8 |     |      | 5.075 | 0.001   | 0.005  | U | Not Detected | mg/L  |
| * Sodium, Total                       | GAS     | 12/20/2018 | EPA 200.7 |     |      | 2.03  | 0.1     | 0.5    |   | 28.9         | mg/L  |
| * Manganese, Dissolved                | DLJ     | 1/2/2019   | EPA 200.8 |     |      | 5.075 | 0.001   | 0.005  |   | 0.891        | mg/L  |
| * Manganese, Total                    | DLJ     | 1/2/2019   | EPA 200.8 |     |      | 5.075 | 0.001   | 0.005  |   | 0.966        | mg/L  |
| * Potassium, Total                    | DLJ     | 1/2/2019   | EPA 200.8 |     |      | 5.075 | 0.215   | 2.5    |   | 12.0         | mg/L  |
| * Selenium, Total                     | DLJ     | 1/2/2019   | EPA 200.8 |     |      | 5.075 | 0.002   | 0.01   | U | Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 1/2/2019   | 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:** Revised Copy:

Correcting Alkalinity QC description from MSD to Sample Duplicate. LBM 3/26/2019

The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Recovery for Calcium, Sodium, and Dissolved Manganese are out of spec. Spike amounts are less than 30% of the sample amount. LBM 01/15/2019



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 Calera, AL 35040  
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**Certificate Of Analysis**  Alabama Power

Revised Copy



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 17-Dec-18  
 Customer ID:  
 Delivery Date: 17-Dec-18

Description: Gaston Ash Pond - MW-17SV

Laboratory ID Number: AY28845

| Name                             | Analyst | Test Date  | Reference    | Vio Spec | DF | MDL | RL   | Q Results  | Units |
|----------------------------------|---------|------------|--------------|----------|----|-----|------|------------|-------|
| pH for Alkalinity                | EMG     | 12/21/2018 | SM 4500H+ B  |          | 1  |     | 4.00 | 7.41       | SU    |
| Alkalinity, Total as CaCO3       | EMG     | 12/21/2018 | SM 2320 B    |          | 1  |     | 0.1  | 55.7       | mg/L  |
| Carbonate Alkalinity, as CaCO3   | EMG     | 12/21/2018 | SM 4500CO2 D |          | 1  |     |      | 0.13       | mg/L  |
| Bicarbonate Alkalinity, as CaCO3 | EMG     | 12/21/2018 | SM 4500CO2 D |          | 1  |     |      | 55.6       | mg/L  |
| * Solids, Dissolved              | CRB     | 12/26/2018 | SM 2540C     |          | 1  |     | 25   | 448        | mg/L  |
| Filter Completion Date           | CRB     | 12/20/2018 | SM 2540C     |          | 1  |     |      | 12/20/2018 | Date  |

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**Comments:** Revised Copy:

Correcting Alkalinity QC description from MSD to Sample Duplicate. LBM 3/26/2019

The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Recovery for Calcium, Sodium, and Dissolved Manganese are out of spec. Spike amounts are less than 30% of the sample amount. LBM 01/15/2019

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



Revised Copy



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 17-Dec-18  
 Customer ID:  
 Delivery Date: 17-Dec-18

Description: Gaston Ash Pond - MW-17SV

Laboratory ID Number: AY28845

| Sample  | Analysis               | Units | MB          |         | Spike | MS      | MSD     | LCS     | LCS              |      | Rec       |       | Prec |
|---------|------------------------|-------|-------------|---------|-------|---------|---------|---------|------------------|------|-----------|-------|------|
|         |                        |       | Limit       | MB      |       |         |         |         | Limit            | Rec  | Limit     | Prec  |      |
| AY28748 | Chromium, Total        | mg/L  | 0.0000619   | 0.0044  | 0.10  | 0.0897  | 0.0941  | 0.0953  | 0.085 to 0.115   | 89.7 | 70 to 130 | 4.74  | 20   |
| AY28748 | Potassium, Total       | mg/L  | 0.00546     | 0.473   | 10.0  | 10.6    | 11.0    | 10.2    | 8.5 to 11.5      | 101  | 70 to 130 | 3.24  | 20   |
| AY28845 | Iron, Dissolved        | mg/L  | 0.0000901   | 0.022   | 0.2   | 0.662   | 0.659   | 0.204   | 0.17 to 0.23     | 104  | 70 to 130 | 0.476 | 20   |
| AY28748 | Cobalt, Total          | mg/L  | 0.000000264 | 0.0044  | 0.10  | 0.0941  | 0.0950  | 0.0908  | 0.085 to 0.115   | 89.9 | 70 to 130 | 0.868 | 20   |
| AY28748 | Lead, Total            | mg/L  | 0.00000601  | 0.0022  | 0.10  | 0.0900  | 0.0936  | 0.101   | 0.085 to 0.115   | 90.0 | 70 to 130 | 3.92  | 20   |
| AY28845 | Lithium, Total         | mg/L  | -0.0000717  | 0.022   | 0.20  | 0.328   | 0.329   | 0.213   | 0.17 to 0.23     | 119  | 70 to 130 | 0.245 | 20   |
| AY28748 | Arsenic, Total         | mg/L  | 0.0000122   | 0.0022  | 0.10  | 0.0913  | 0.0952  | 0.0923  | 0.085 to 0.115   | 88.3 | 70 to 130 | 4.24  | 20   |
| AY28845 | Iron, Total            | mg/L  | 0.0000756   | 0.022   | 0.2   | 0.740   | 0.745   | 0.209   | 0.17 to 0.23     | 102  | 70 to 130 | 0.632 | 20   |
| AY28845 | Mercury, Total by CVAA | mg/L  | 0.0000356   | 0.0005  | 0.004 | 0.00397 | 0.00392 | 0.00417 | 0.0034 to 0.0046 | 99.4 | 70 to 130 | 1.30  | 20   |
| AY28748 | Beryllium, Total       | mg/L  | 0.00000801  | 0.00132 | 0.10  | 0.0959  | 0.0932  | 0.100   | 0.085 to 0.115   | 95.9 | 70 to 130 | 2.84  | 20   |
| AY28748 | Mangenes, Total        | mg/L  | 0.0000269   | 0.0022  | 0.10  | 1.27    | 1.31    | 0.0906  | 0.085 to 0.115   | 64.1 | 70 to 130 | 3.68  | 20   |
| AY28748 | Selenium, Total        | mg/L  | 0.0000291   | 0.0044  | 0.10  | 0.0910  | 0.0948  | 0.0963  | 0.085 to 0.115   | 91.0 | 70 to 130 | 4.11  | 20   |
| AY28748 | Antimony, Total        | mg/L  | 0.000245    | 0.00176 | 0.10  | 0.0914  | 0.0979  | 0.0929  | 0.085 to 0.115   | 90.5 | 70 to 130 | 6.77  | 20   |
| AY28845 | Sodium, Total          | mg/L  | 0.000292    | 0.22    | 5.00  | 34.5    | 34.6    | 5.26    | 4.25 to 5.75     | 112  | 70 to 130 | 0.289 | 20   |
| AY28748 | Molybdenum, Total      | mg/L  | 0.0000382   | 0.0044  | 0.10  | 0.201   | 0.212   | 0.0882  | 0.085 to 0.115   | 83.5 | 70 to 130 | 4.95  | 20   |
| AY28845 | Boron, Total           | mg/L  | 0.000254    | 0.044   | 1.00  | 3.49    | 3.50    | 1.01    | 0.85 to 1.15     | 100  | 70 to 130 | 0.237 | 20   |
| AY28845 | Mangenes, Dissolved    | mg/L  | 0.00000108  | 0.0022  | 0.10  | 1.05    | 0.973   |         | 0.085 to 0.115   | 160  | 70 to 130 | 7.68  | 20   |
| AY28748 | Barium, Total          | mg/L  | 0.0000137   | 0.0044  | 0.10  | 0.180   | 0.182   | 0.0922  | 0.085 to 0.115   | 94.1 | 70 to 130 | 0.748 | 20   |
| AY28748 | Cadmium, Total         | mg/L  | 0.00000176  | 0.00066 | 0.10  | 0.0920  | 0.0953  | 0.0916  | 0.085 to 0.115   | 92.0 | 70 to 130 | 3.52  | 20   |
| AY28748 | Thallium, Total        | mg/L  | 0.00000776  | 0.00044 | 0.10  | 0.0889  | 0.100   | 0.101   | 0.085 to 0.115   | 88.9 | 70 to 130 | 12.2  | 20   |
| AY28845 | Calcium, Total         | mg/L  | -0.00557    | 0.22    | 5.00  | 86.6    | 98.8    | 5.13    | 4.25 to 5.75     | 142  | 70 to 130 | 13.2  | 20   |
| AY28845 | Magnesium, Total       | mg/L  | -0.00141    | 0.22    | 5.00  | 22.9    | 23.0    | 5.35    | 4.25 to 5.75     | 106  | 70 to 130 | 0.486 | 20   |

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

**Comments:** Revised Copy:

Correcting Alkalinity QC description from MSD to Sample Duplicate. LBM 3/26/2019

The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Recovery for Calcium, Sodium, and Dissolved Manganese are out of spec. Spike amounts are less than 30% of the sample amount. LBM 01/15/2019

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 Calera, AL 35040  
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 FAX (205) 257-1654

# Batch QC Summary



Revised Copy



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 17-Dec-18  
 Customer ID:  
 Delivery Date: 17-Dec-18

Description: Gaston Ash Pond - MW-17SV

Laboratory ID Number: AY28845

| Sample  | Analysis                   | Units | MB    | Limit | Spike | MS | Sample Duplicate | LCS  | LCS Limit    | Rec | Rec Limit | Prec  | Prec Limit |
|---------|----------------------------|-------|-------|-------|-------|----|------------------|------|--------------|-----|-----------|-------|------------|
| AY28845 | pH for Alkalinity          | SU    |       |       |       |    |                  | 7.00 | 6.95 to 7.05 |     |           |       |            |
| AY28845 | Alkalinity, Total as CaCO3 | mg/L  |       |       |       |    | 56.2             | 49.8 | 45.0 to 55.0 |     |           | 1.00  | 10         |
| AY28845 | Solids, Dissolved          | mg/L  | -1.00 | 25    |       |    | 446              | 48.0 | 40 to 60     |     |           | 0.224 | 5          |

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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  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 25-Feb-19  
 Customer ID:  
 Delivery Date: 27-Feb-19

Description: Gaston Ash Pond - MW-16V

Laboratory ID Number: AZ05127

| Name                                  | Analyst | Test Date | Reference | Vio Spec | DF    | MDL    | RL     | Q Results      | Units |
|---------------------------------------|---------|-----------|-----------|----------|-------|--------|--------|----------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |           |          |       |        |        |                |       |
| * Arsenic, Total                      | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.001  | 0.005  | J 0.00105      | mg/L  |
| * Barium, Total                       | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.002  | 0.01   | 0.0423         | mg/L  |
| * Beryllium, Total                    | RDA     | 3/1/2019  | 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    | 1.33           | mg/L  |
| * Calcium, Total                      | GAS     | 3/5/2019  | EPA 200.7 |          | 2.03  | 0.1    | 0.5    | 36.8           | mg/L  |
| * Cadmium, Total                      | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.0003 | 0.001  | U Not Detected | mg/L  |
| * Antimony, Total                     | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.0008 | 0.003  | U Not Detected | mg/L  |
| * Molybdenum, Total                   | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.002  | 0.01   | 0.667          | mg/L  |
| * Lead, Total                         | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Cobalt, Total                       | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.002  | 0.005  | U Not Detected | mg/L  |
| * Chromium, Total                     | RDA     | 3/1/2019  | 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   | J 0.0241       | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 3/12/2019 | 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   | 0.298          | mg/L  |
| * Magnesium, Total                    | GAS     | 3/5/2019  | EPA 200.7 |          | 2.03  | 0.1    | 0.5    | 10.8           | mg/L  |
| * Manganese, Dissolved                | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.001  | 0.005  | K 0.00844      | mg/L  |
| * Manganese, Total                    | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.001  | 0.005  | 0.00849        | mg/L  |
| * Potassium, Total                    | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.215  | 2.5    | 19.1           | mg/L  |
| * Sodium, Total                       | GAS     | 3/5/2019  | EPA 200.7 |          | 2.03  | 0.1    | 0.5    | 19.8           | mg/L  |
| * Selenium, Total                     | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Thallium, Total                     | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.0002 | 0.001  | J 0.000537     | mg/L  |

**General Characteristics**

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Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

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# Certificate Of Analysis



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 25-Feb-19  
 Customer ID:  
 Delivery Date: 27-Feb-19

Description: Gaston Ash Pond - MW-16V

Laboratory ID Number: AZ05127

| Name                             | Analyst | Test Date | Reference    | Vio Spec | DF | MDL  | RL   | Q Results  | Units |
|----------------------------------|---------|-----------|--------------|----------|----|------|------|------------|-------|
| pH for Alkalinity                | EMG     | 3/6/2019  | SM 4500H+ B  |          | 1  |      | 4.00 | 8.63       | SU    |
| Alkalinity, Total as CaCO3       | EMG     | 3/6/2019  | SM 2320 B    |          | 1  |      | 0.1  | 33.8       | mg/L  |
| Carbonate Alkalinity, as CaCO3   | EMG     | 3/6/2019  | SM 4500CO2 D |          | 1  |      |      | 1.30       | mg/L  |
| Bicarbonate Alkalinity, as CaCO3 | EMG     | 3/6/2019  | SM 4500CO2 D |          | 1  |      |      | 32.3       | mg/L  |
| * Solids, Dissolved              | CRB     | 3/7/2019  | SM 2540C     |          | 1  |      | 25   | 264        | mg/L  |
| Filter Completion Date           | CRB     | 3/1/2019  | SM 2540C     |          | 1  |      |      | 03/01/2019 | Date  |
| * Chloride                       | JCC     | 3/1/2019  | SM4500CI E   |          | 1  | 0.50 | 1    | 16.4       | mg/L  |
| * Fluoride                       | JCC     | 2/28/2019 | SM4500F C    |          | 1  | 0.05 | 0.1  | J 0.095    | mg/L  |
| * Sulfate                        | JCC     | 3/5/2019  | SM4500SO4 E  |          | 10 | 5.00 | 10   | 142        | mg/L  |

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# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 25-Feb-19  
 Customer ID:  
 Delivery Date: 27-Feb-19

Description: Gaston Ash Pond - MW-16V

Laboratory ID Number: AZ05127

| Sample  | Analysis               | Units | MB           |         | Spike | MS      | MSD     | LCS     | LCS              |      | Rec       |        | Prec |
|---------|------------------------|-------|--------------|---------|-------|---------|---------|---------|------------------|------|-----------|--------|------|
|         |                        |       | MB           | Limit   |       |         |         |         | Limit            | Rec  | Limit     | Prec   |      |
| AZ05134 | Thallium, Total        | mg/L  | 0.00000429   | 0.00044 | 0.10  | 0.101   | 0.104   | 0.103   | 0.085 to 0.115   | 101  | 70 to 130 | 3.05   | 20   |
| AZ05134 | Sodium, Total          | mg/L  | -0.00493     | 0.22    | 5.00  | 5.07    | 5.13    | 4.97    | 4.25 to 5.75     | 101  | 70 to 130 | 1.15   | 20   |
| AZ05134 | Barium, Total          | mg/L  | -0.000000179 | 0.0044  | 0.10  | 0.0922  | 0.0934  | 0.0918  | 0.085 to 0.115   | 92.2 | 70 to 130 | 1.37   | 20   |
| AZ05134 | Beryllium, Total       | mg/L  | 0.000000     | 0.00132 | 0.10  | 0.114   | 0.117   | 0.114   | 0.085 to 0.115   | 114  | 70 to 130 | 2.40   | 20   |
| AZ05134 | Boron, Total           | mg/L  | -0.00467     | 0.044   | 1.00  | 1.02    | 1.02    | 0.992   | 0.85 to 1.15     | 102  | 70 to 130 | 0.575  | 20   |
| AZ05134 | Arsenic, Total         | mg/L  | 0.0000163    | 0.0022  | 0.10  | 0.100   | 0.102   | 0.103   | 0.085 to 0.115   | 100  | 70 to 130 | 2.11   | 20   |
| AZ05134 | Calcium, Total         | mg/L  | -0.00551     | 0.22    | 5.00  | 5.38    | 5.33    | 5.21    | 4.25 to 5.75     | 108  | 70 to 130 | 0.925  | 20   |
| AZ05134 | Magnesium, Total       | mg/L  | -0.00149     | 0.22    | 5.00  | 5.34    | 5.29    | 5.13    | 4.25 to 5.75     | 107  | 70 to 130 | 0.966  | 20   |
| AZ05134 | Molybdenum, Total      | mg/L  | 0.0000263    | 0.0044  | 0.10  | 0.0975  | 0.0989  | 0.0965  | 0.085 to 0.115   | 97.5 | 70 to 130 | 1.46   | 20   |
| AZ05134 | Cadmium, Total         | mg/L  | 0.00000589   | 0.00066 | 0.10  | 0.0898  | 0.0898  | 0.0885  | 0.085 to 0.115   | 89.8 | 70 to 130 | 0.0093 | 120  |
| AZ05134 | Cobalt, Total          | mg/L  | 0.00000664   | 0.0044  | 0.10  | 0.107   | 0.108   | 0.106   | 0.085 to 0.115   | 107  | 70 to 130 | 1.05   | 20   |
| AZ05134 | Iron, Dissolved        | mg/L  | 0.00363      | 0.022   | 0.2   | 0.206   | 0.207   | 0.201   | 0.17 to 0.23     | 103  | 70 to 130 | 0.160  | 20   |
| AZ05134 | Potassium, Total       | mg/L  | 0.0127       | 0.473   | 10.0  | 10.1    | 10.3    | 10.0    | 8.5 to 11.5      | 101  | 70 to 130 | 1.97   | 20   |
| AZ05134 | Lithium, Total         | mg/L  | -0.0000674   | 0.022   | 0.20  | 0.199   | 0.200   | 0.195   | 0.17 to 0.23     | 99.6 | 70 to 130 | 0.143  | 20   |
| AZ05134 | Selenium, Total        | mg/L  | 0.0000290    | 0.0044  | 0.10  | 0.0974  | 0.0990  | 0.103   | 0.085 to 0.115   | 97.4 | 70 to 130 | 1.61   | 20   |
| AZ05134 | Mercury, Total by CVAA | mg/L  | 0.0000812    | 0.0005  | 0.004 | 0.00329 | 0.00317 | 0.00352 | 0.0034 to 0.0046 | 82.3 | 70 to 130 | 3.78   | 20   |
| AZ05134 | Antimony, Total        | mg/L  | 0.000376     | 0.00176 | 0.10  | 0.0849  | 0.0870  | 0.0859  | 0.085 to 0.115   | 84.9 | 70 to 130 | 2.36   | 20   |
| AZ05134 | Iron, Total            | mg/L  | -0.000182    | 0.022   | 0.2   | 0.207   | 0.207   | 0.201   | 0.17 to 0.23     | 103  | 70 to 130 | 0.0610 | 20   |
| AZ05134 | Manganese, Total       | mg/L  | 0.00000949   | 0.0022  | 0.10  | 0.0972  | 0.0998  | 0.100   | 0.085 to 0.115   | 97.2 | 70 to 130 | 2.69   | 20   |
| AZ05134 | Lead, Total            | mg/L  | 0.00000608   | 0.0022  | 0.10  | 0.100   | 0.102   | 0.104   | 0.085 to 0.115   | 100  | 70 to 130 | 1.87   | 20   |
| AZ05134 | Chromium, Total        | mg/L  | 0.0000237    | 0.0044  | 0.10  | 0.103   | 0.105   | 0.104   | 0.085 to 0.115   | 103  | 70 to 130 | 2.64   | 20   |
| AZ05134 | Manganese, Dissolved   | mg/L  | 0.00000482   | 0.0022  | 0.10  | 0.101   | 0.101   |         | 0.085 to 0.115   | 101  | 70 to 130 | 0.0106 | 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  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 25-Feb-19  
 Customer ID:  
 Delivery Date: 27-Feb-19

Description: Gaston Ash Pond - MW-16V

Laboratory ID Number: AZ05127

| Sample  | Analysis                   | Units | MB      | MB Limit | Spike | MS   | Sample    |      | LCS Limit    | Rec  |           | Prec Limit |    |
|---------|----------------------------|-------|---------|----------|-------|------|-----------|------|--------------|------|-----------|------------|----|
|         |                            |       |         |          |       |      | Duplicate | LCS  |              | Rec  | Limit     |            |    |
| AZ05134 | Sulfate                    | mg/L  | -0.141  | 0.50     | 20.0  | 19.7 | -0.187    | 19.8 | 18 to 22     | 98.5 | 80 to 120 | 0.00       | 20 |
| AZ05134 | Fluoride                   | mg/L  | 0.00602 | 0.05     | 2.50  | 2.38 | 0.0349    | 2.45 | 2.25 to 2.75 | 95.2 | 80 to 120 | 0.00       | 20 |
| AZ05133 | Alkalinity, Total as CaCO3 | mg/L  |         |          |       |      | 61.2      | 49.7 | 45.0 to 55.0 |      |           | 0.716      | 10 |
| AZ05133 | Solids, Dissolved          | mg/L  | 0.0000  | 25       |       |      | 807       | 55.0 | 40 to 60     |      |           | 2.09       | 5  |
| AZ05133 | pH for Alkalinity          | SU    |         |          |       |      |           | 7.00 | 6.95 to 7.05 |      |           |            |    |
| AZ05134 | Chloride                   | mg/L  | -0.0364 | 0.50     | 10.0  | 10.3 | 0.174     | 9.99 | 9 to 11      | 103  | 80 to 120 | 0.00       | 20 |

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CC:

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# Certificate Of Analysis



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 25-Feb-19  
 Customer ID:  
 Delivery Date: 27-Feb-19

Description: Gaston Ash Pond - MW-16V DUP

Laboratory ID Number: AZ05128

| Name                                  | Analyst | Test Date | Reference | Vio Spec | DF    | MDL    | RL     | Q | Results      | Units |
|---------------------------------------|---------|-----------|-----------|----------|-------|--------|--------|---|--------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |           |          |       |        |        |   |              |       |
| * Arsenic, Total                      | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.001  | 0.005  | J | 0.00101      | mg/L  |
| * Barium, Total                       | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.002  | 0.01   |   | 0.0441       | mg/L  |
| * Beryllium, Total                    | RDA     | 3/1/2019  | 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    |   | 1.34         | mg/L  |
| * Calcium, Total                      | GAS     | 3/5/2019  | EPA 200.7 |          | 2.03  | 0.1    | 0.5    |   | 36.6         | mg/L  |
| * Cadmium, Total                      | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.0003 | 0.001  | U | Not Detected | mg/L  |
| * Antimony, Total                     | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.0008 | 0.003  | U | Not Detected | mg/L  |
| * Molybdenum, Total                   | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.002  | 0.01   |   | 0.700        | mg/L  |
| * Lead, Total                         | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.001  | 0.005  | U | Not Detected | mg/L  |
| * Cobalt, Total                       | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.002  | 0.005  | U | Not Detected | mg/L  |
| * Chromium, Total                     | RDA     | 3/1/2019  | 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   | J | 0.0276       | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 3/12/2019 | 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   |   | 0.301        | mg/L  |
| * Magnesium, Total                    | GAS     | 3/5/2019  | EPA 200.7 |          | 2.03  | 0.1    | 0.5    |   | 10.8         | mg/L  |
| * Manganese, Dissolved                | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.001  | 0.005  | K | 0.00842      | mg/L  |
| * Manganese, Total                    | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.001  | 0.005  |   | 0.00874      | mg/L  |
| * Potassium, Total                    | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.215  | 2.5    |   | 19.9         | mg/L  |
| * Sodium, Total                       | GAS     | 3/5/2019  | EPA 200.7 |          | 2.03  | 0.1    | 0.5    |   | 20.0         | mg/L  |
| * Selenium, Total                     | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.002  | 0.01   | U | Not Detected | mg/L  |
| * Thallium, Total                     | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.0002 | 0.001  | J | 0.000575     | 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 04/01/2019



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  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 25-Feb-19  
 Customer ID:  
 Delivery Date: 27-Feb-19

Description: Gaston Ash Pond - MW-16V DUP

Laboratory ID Number: AZ05128

| Name                             | Analyst | Test Date | Reference    | Vio Spec | DF | MDL  | RL   | Q Results  | Units |
|----------------------------------|---------|-----------|--------------|----------|----|------|------|------------|-------|
| pH for Alkalinity                | EMG     | 3/6/2019  | SM 4500H+ B  |          | 1  |      | 4.00 | 8.62       | SU    |
| Alkalinity, Total as CaCO3       | EMG     | 3/6/2019  | SM 2320 B    |          | 1  |      | 0.1  | 33.3       | mg/L  |
| Carbonate Alkalinity, as CaCO3   | EMG     | 3/6/2019  | SM 4500CO2 D |          | 1  |      |      | 1.25       | mg/L  |
| Bicarbonate Alkalinity, as CaCO3 | EMG     | 3/6/2019  | SM 4500CO2 D |          | 1  |      |      | 31.8       | mg/L  |
| * Solids, Dissolved              | CRB     | 3/7/2019  | SM 2540C     |          | 1  |      | 25   | 264        | mg/L  |
| Filter Completion Date           | CRB     | 3/1/2019  | SM 2540C     |          | 1  |      |      | 03/01/2019 | Date  |
| * Chloride                       | JCC     | 3/1/2019  | SM4500CI E   |          | 1  | 0.50 | 1    | 16.6       | mg/L  |
| * Fluoride                       | JCC     | 2/28/2019 | SM4500F C    |          | 1  | 0.05 | 0.1  | 0.132      | mg/L  |
| * Sulfate                        | JCC     | 3/5/2019  | SM4500SO4 E  |          | 10 | 5.00 | 10   | 147        | mg/L  |

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# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 25-Feb-19  
 Customer ID:  
 Delivery Date: 27-Feb-19

Description: Gaston Ash Pond - MW-16V DUP

Laboratory ID Number: AZ05128

| Sample  | Analysis               | Units | MB           | MB      |       | MS      | MSD     | LCS     | LCS              |      | Rec       |        | Prec |
|---------|------------------------|-------|--------------|---------|-------|---------|---------|---------|------------------|------|-----------|--------|------|
|         |                        |       |              | Limit   | Spike |         |         |         | Limit            | Rec  | Limit     | Prec   |      |
| AZ05134 | Thallium, Total        | mg/L  | 0.00000429   | 0.00044 | 0.10  | 0.101   | 0.104   | 0.103   | 0.085 to 0.115   | 101  | 70 to 130 | 3.05   | 20   |
| AZ05134 | Sodium, Total          | mg/L  | -0.00493     | 0.22    | 5.00  | 5.07    | 5.13    | 4.97    | 4.25 to 5.75     | 101  | 70 to 130 | 1.15   | 20   |
| AZ05134 | Chromium, Total        | mg/L  | 0.0000237    | 0.0044  | 0.10  | 0.103   | 0.105   | 0.104   | 0.085 to 0.115   | 103  | 70 to 130 | 2.64   | 20   |
| AZ05134 | Mangenes, Dissolved    | mg/L  | 0.00000482   | 0.0022  | 0.10  | 0.101   | 0.101   |         | 0.085 to 0.115   | 101  | 70 to 130 | 0.0106 | 20   |
| AZ05134 | Arsenic, Total         | mg/L  | 0.0000163    | 0.0022  | 0.10  | 0.100   | 0.102   | 0.103   | 0.085 to 0.115   | 100  | 70 to 130 | 2.11   | 20   |
| AZ05134 | Calcium, Total         | mg/L  | -0.00551     | 0.22    | 5.00  | 5.38    | 5.33    | 5.21    | 4.25 to 5.75     | 108  | 70 to 130 | 0.925  | 20   |
| AZ05134 | Magnesium, Total       | mg/L  | -0.00149     | 0.22    | 5.00  | 5.34    | 5.29    | 5.13    | 4.25 to 5.75     | 107  | 70 to 130 | 0.966  | 20   |
| AZ05134 | Molybdenum, Total      | mg/L  | 0.0000263    | 0.0044  | 0.10  | 0.0975  | 0.0989  | 0.0965  | 0.085 to 0.115   | 97.5 | 70 to 130 | 1.46   | 20   |
| AZ05134 | Barium, Total          | mg/L  | -0.000000179 | 0.0044  | 0.10  | 0.0922  | 0.0934  | 0.0918  | 0.085 to 0.115   | 92.2 | 70 to 130 | 1.37   | 20   |
| AZ05134 | Beryllium, Total       | mg/L  | 0.000000     | 0.00132 | 0.10  | 0.114   | 0.117   | 0.114   | 0.085 to 0.115   | 114  | 70 to 130 | 2.40   | 20   |
| AZ05134 | Boron, Total           | mg/L  | -0.00467     | 0.044   | 1.00  | 1.02    | 1.02    | 0.992   | 0.85 to 1.15     | 102  | 70 to 130 | 0.575  | 20   |
| AZ05134 | Iron, Total            | mg/L  | -0.000182    | 0.022   | 0.2   | 0.207   | 0.207   | 0.201   | 0.17 to 0.23     | 103  | 70 to 130 | 0.0610 | 20   |
| AZ05134 | Mangenes, Total        | mg/L  | 0.00000949   | 0.0022  | 0.10  | 0.0972  | 0.0998  | 0.100   | 0.085 to 0.115   | 97.2 | 70 to 130 | 2.69   | 20   |
| AZ05134 | Lead, Total            | mg/L  | 0.00000608   | 0.0022  | 0.10  | 0.100   | 0.102   | 0.104   | 0.085 to 0.115   | 100  | 70 to 130 | 1.87   | 20   |
| AZ05134 | Mercury, Total by CVAA | mg/L  | 0.0000812    | 0.0005  | 0.004 | 0.00329 | 0.00317 | 0.00352 | 0.0034 to 0.0046 | 82.3 | 70 to 130 | 3.78   | 20   |
| AZ05134 | Antimony, Total        | mg/L  | 0.000376     | 0.00176 | 0.10  | 0.0849  | 0.0870  | 0.0859  | 0.085 to 0.115   | 84.9 | 70 to 130 | 2.36   | 20   |
| AZ05134 | Cadmium, Total         | mg/L  | 0.00000589   | 0.00066 | 0.10  | 0.0898  | 0.0898  | 0.0885  | 0.085 to 0.115   | 89.8 | 70 to 130 | 0.0093 | 120  |
| AZ05134 | Cobalt, Total          | mg/L  | 0.00000664   | 0.0044  | 0.10  | 0.107   | 0.108   | 0.106   | 0.085 to 0.115   | 107  | 70 to 130 | 1.05   | 20   |
| AZ05134 | Iron, Dissolved        | mg/L  | 0.00363      | 0.022   | 0.2   | 0.206   | 0.207   | 0.201   | 0.17 to 0.23     | 103  | 70 to 130 | 0.160  | 20   |
| AZ05134 | Potassium, Total       | mg/L  | 0.0127       | 0.473   | 10.0  | 10.1    | 10.3    | 10.0    | 8.5 to 11.5      | 101  | 70 to 130 | 1.97   | 20   |
| AZ05134 | Lithium, Total         | mg/L  | -0.0000674   | 0.022   | 0.20  | 0.199   | 0.200   | 0.195   | 0.17 to 0.23     | 99.6 | 70 to 130 | 0.143  | 20   |
| AZ05134 | Selenium, Total        | mg/L  | 0.0000290    | 0.0044  | 0.10  | 0.0974  | 0.0990  | 0.103   | 0.085 to 0.115   | 97.4 | 70 to 130 | 1.61   | 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  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 25-Feb-19  
 Customer ID:  
 Delivery Date: 27-Feb-19

Description: Gaston Ash Pond - MW-16V DUP

Laboratory ID Number: AZ05128

| Sample  | Analysis                   | Units | MB      | MB Limit | Spike | MS   | Sample Duplicate | LCS  | LCS Limit    | Rec  | Rec Limit | Prec  | Prec Limit |
|---------|----------------------------|-------|---------|----------|-------|------|------------------|------|--------------|------|-----------|-------|------------|
| AZ05134 | Fluoride                   | mg/L  | 0.00602 | 0.05     | 2.50  | 2.38 | 0.0349           | 2.45 | 2.25 to 2.75 | 95.2 | 80 to 120 | 0.00  | 20         |
| AZ05134 | Sulfate                    | mg/L  | -0.141  | 0.50     | 20.0  | 19.7 | -0.187           | 19.8 | 18 to 22     | 98.5 | 80 to 120 | 0.00  | 20         |
| AZ05133 | Alkalinity, Total as CaCO3 | mg/L  |         |          |       |      | 61.2             | 49.7 | 45.0 to 55.0 |      |           | 0.716 | 10         |
| AZ05133 | Solids, Dissolved          | mg/L  | 0.0000  | 25       |       |      | 807              | 55.0 | 40 to 60     |      |           | 2.09  | 5          |
| AZ05133 | pH for Alkalinity          | SU    |         |          |       |      |                  | 7.00 | 6.95 to 7.05 |      |           |       |            |
| AZ05134 | Chloride                   | mg/L  | -0.0364 | 0.50     | 10.0  | 10.3 | 0.174            | 9.99 | 9 to 11      | 103  | 80 to 120 | 0.00  | 20         |

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CC:

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



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 26-Feb-19  
 Customer ID:  
 Delivery Date: 27-Feb-19

Description: Gaston Ash Pond - MW-28H

Laboratory ID Number: AZ05129

| Name                                  | Analyst | Test Date | Reference | Vio Spec | DF    | MDL    | RL     | Q Results      | Units |
|---------------------------------------|---------|-----------|-----------|----------|-------|--------|--------|----------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |           |          |       |        |        |                |       |
| * Arsenic, Total                      | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.001  | 0.005  | J 0.00192      | mg/L  |
| * Barium, Total                       | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.002  | 0.01   | 0.0278         | mg/L  |
| * Beryllium, Total                    | RDA     | 3/1/2019  | 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    | 0.754          | mg/L  |
| * Calcium, Total                      | GAS     | 3/5/2019  | EPA 200.7 |          | 2.03  | 0.1    | 0.5    | 41.0           | mg/L  |
| * Cadmium, Total                      | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.0003 | 0.001  | U Not Detected | mg/L  |
| * Antimony, Total                     | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.0008 | 0.003  | U Not Detected | mg/L  |
| * Molybdenum, Total                   | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.002  | 0.01   | 0.465          | mg/L  |
| * Lead, Total                         | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Cobalt, Total                       | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.002  | 0.005  | U Not Detected | mg/L  |
| * Chromium, Total                     | RDA     | 3/1/2019  | 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 0.0235       | mg/L  |
| * Iron, Total                         | GAS     | 3/5/2019  | EPA 200.7 |          | 2.03  | 0.01   | 0.05   | 0.158          | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 3/12/2019 | 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   | 0.132          | mg/L  |
| * Magnesium, Total                    | GAS     | 3/5/2019  | EPA 200.7 |          | 2.03  | 0.1    | 0.5    | 18.3           | mg/L  |
| * Manganese, Dissolved                | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.001  | 0.005  | K 0.0156       | mg/L  |
| * Manganese, Total                    | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.001  | 0.005  | 0.0158         | mg/L  |
| * Potassium, Total                    | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.215  | 2.5    | 9.41           | mg/L  |
| * Sodium, Total                       | GAS     | 3/5/2019  | EPA 200.7 |          | 2.03  | 0.1    | 0.5    | 19.0           | mg/L  |
| * Selenium, Total                     | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Thallium, Total                     | RDA     | 3/1/2019  | 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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# Certificate Of Analysis



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 26-Feb-19  
 Customer ID:  
 Delivery Date: 27-Feb-19

Description: Gaston Ash Pond - MW-28H

Laboratory ID Number: AZ05129

| Name                             | Analyst | Test Date | Reference    | Vio Spec | DF | MDL  | RL   | Q Results  | Units |
|----------------------------------|---------|-----------|--------------|----------|----|------|------|------------|-------|
| pH for Alkalinity                | EMG     | 3/6/2019  | SM 4500H+ B  |          | 1  |      | 4.00 | 8.30       | SU    |
| Alkalinity, Total as CaCO3       | EMG     | 3/6/2019  | SM 2320 B    |          | 1  |      | 0.1  | 64.3       | mg/L  |
| Carbonate Alkalinity, as CaCO3   | EMG     | 3/6/2019  | SM 4500CO2 D |          | 1  |      |      | 1.18       | mg/L  |
| Bicarbonate Alkalinity, as CaCO3 | EMG     | 3/6/2019  | SM 4500CO2 D |          | 1  |      |      | 63.0       | mg/L  |
| * Solids, Dissolved              | CRB     | 3/7/2019  | SM 2540C     |          | 1  |      | 25   | 277        | mg/L  |
| Filter Completion Date           | CRB     | 3/1/2019  | SM 2540C     |          | 1  |      |      | 03/01/2019 | Date  |
| * Chloride                       | JCC     | 3/1/2019  | SM4500CI E   |          | 1  | 0.50 | 1    | 12.7       | mg/L  |
| * Fluoride                       | JCC     | 2/28/2019 | SM4500F C    |          | 1  | 0.05 | 0.1  | J 0.0777   | mg/L  |
| * Sulfate                        | JCC     | 3/5/2019  | SM4500SO4 E  |          | 10 | 5.00 | 10   | 131        | mg/L  |

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# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 26-Feb-19  
 Customer ID:  
 Delivery Date: 27-Feb-19

Description: Gaston Ash Pond - MW-28H

Laboratory ID Number: AZ05129

| Sample  | Analysis               | Units | MB           | MB      |       | MS      | MSD     | LCS     | LCS              |      | Rec       |           | Prec |
|---------|------------------------|-------|--------------|---------|-------|---------|---------|---------|------------------|------|-----------|-----------|------|
|         |                        |       |              | Limit   | Spike |         |         |         | Limit            | Rec  | Limit     | Prec      |      |
| AZ05134 | Sodium, Total          | mg/L  | -0.00493     | 0.22    | 5.00  | 5.07    | 5.13    | 4.97    | 4.25 to 5.75     | 101  | 70 to 130 | 1.15      | 20   |
| AZ05134 | Thallium, Total        | mg/L  | 0.00000429   | 0.00044 | 0.10  | 0.101   | 0.104   | 0.103   | 0.085 to 0.115   | 101  | 70 to 130 | 3.05      | 20   |
| AZ05134 | Mercury, Total by CVAA | mg/L  | 0.0000812    | 0.0005  | 0.004 | 0.00329 | 0.00317 | 0.00352 | 0.0034 to 0.0046 | 82.3 | 70 to 130 | 3.78      | 20   |
| AZ05134 | Antimony, Total        | mg/L  | 0.000376     | 0.00176 | 0.10  | 0.0849  | 0.0870  | 0.0859  | 0.085 to 0.115   | 84.9 | 70 to 130 | 2.36      | 20   |
| AZ05134 | Barium, Total          | mg/L  | -0.000000179 | 0.0044  | 0.10  | 0.0922  | 0.0934  | 0.0918  | 0.085 to 0.115   | 92.2 | 70 to 130 | 1.37      | 20   |
| AZ05134 | Beryllium, Total       | mg/L  | 0.000000     | 0.00132 | 0.10  | 0.114   | 0.117   | 0.114   | 0.085 to 0.115   | 114  | 70 to 130 | 2.40      | 20   |
| AZ05134 | Boron, Total           | mg/L  | -0.00467     | 0.044   | 1.00  | 1.02    | 1.02    | 0.992   | 0.85 to 1.15     | 102  | 70 to 130 | 0.575     | 20   |
| AZ05134 | Arsenic, Total         | mg/L  | 0.0000163    | 0.0022  | 0.10  | 0.100   | 0.102   | 0.103   | 0.085 to 0.115   | 100  | 70 to 130 | 2.11      | 20   |
| AZ05134 | Calcium, Total         | mg/L  | -0.00551     | 0.22    | 5.00  | 5.38    | 5.33    | 5.21    | 4.25 to 5.75     | 108  | 70 to 130 | 0.925     | 20   |
| AZ05134 | Magnesium, Total       | mg/L  | -0.00149     | 0.22    | 5.00  | 5.34    | 5.29    | 5.13    | 4.25 to 5.75     | 107  | 70 to 130 | 0.966     | 20   |
| AZ05134 | Molybdenum, Total      | mg/L  | 0.0000263    | 0.0044  | 0.10  | 0.0975  | 0.0989  | 0.0965  | 0.085 to 0.115   | 97.5 | 70 to 130 | 1.46      | 20   |
| AZ05134 | Iron, Total            | mg/L  | -0.000182    | 0.022   | 0.2   | 0.207   | 0.207   | 0.201   | 0.17 to 0.23     | 103  | 70 to 130 | 0.0610    | 20   |
| AZ05134 | Mangenes, Total        | mg/L  | 0.00000949   | 0.0022  | 0.10  | 0.0972  | 0.0998  | 0.100   | 0.085 to 0.115   | 97.2 | 70 to 130 | 2.69      | 20   |
| AZ05134 | Lead, Total            | mg/L  | 0.00000608   | 0.0022  | 0.10  | 0.100   | 0.102   | 0.104   | 0.085 to 0.115   | 100  | 70 to 130 | 1.87      | 20   |
| AZ05134 | Cadmium, Total         | mg/L  | 0.00000589   | 0.00066 | 0.10  | 0.0898  | 0.0898  | 0.0885  | 0.085 to 0.115   | 89.8 | 70 to 130 | 0.0093120 | 20   |
| AZ05134 | Cobalt, Total          | mg/L  | 0.00000664   | 0.0044  | 0.10  | 0.107   | 0.108   | 0.106   | 0.085 to 0.115   | 107  | 70 to 130 | 1.05      | 20   |
| AZ05134 | Iron, Dissolved        | mg/L  | 0.00363      | 0.022   | 0.2   | 0.206   | 0.207   | 0.201   | 0.17 to 0.23     | 103  | 70 to 130 | 0.160     | 20   |
| AZ05134 | Potassium, Total       | mg/L  | 0.0127       | 0.473   | 10.0  | 10.1    | 10.3    | 10.0    | 8.5 to 11.5      | 101  | 70 to 130 | 1.97      | 20   |
| AZ05134 | Lithium, Total         | mg/L  | -0.0000674   | 0.022   | 0.20  | 0.199   | 0.200   | 0.195   | 0.17 to 0.23     | 99.6 | 70 to 130 | 0.143     | 20   |
| AZ05134 | Selenium, Total        | mg/L  | 0.0000290    | 0.0044  | 0.10  | 0.0974  | 0.0990  | 0.103   | 0.085 to 0.115   | 97.4 | 70 to 130 | 1.61      | 20   |
| AZ05134 | Chromium, Total        | mg/L  | 0.0000237    | 0.0044  | 0.10  | 0.103   | 0.105   | 0.104   | 0.085 to 0.115   | 103  | 70 to 130 | 2.64      | 20   |
| AZ05134 | Mangenes, Dissolved    | mg/L  | 0.00000482   | 0.0022  | 0.10  | 0.101   | 0.101   |         | 0.085 to 0.115   | 101  | 70 to 130 | 0.0106    | 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 04/01/2019

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  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 26-Feb-19  
 Customer ID:  
 Delivery Date: 27-Feb-19

Description: Gaston Ash Pond - MW-28H

Laboratory ID Number: AZ05129

| Sample  | Analysis                   | Units | MB      | MB Limit | Spike | MS   | Sample    |      | LCS Limit    | Rec  |           | Prec Limit |    |
|---------|----------------------------|-------|---------|----------|-------|------|-----------|------|--------------|------|-----------|------------|----|
|         |                            |       |         |          |       |      | Duplicate | LCS  |              | Rec  | Limit     |            |    |
| AZ05134 | Sulfate                    | mg/L  | -0.141  | 0.50     | 20.0  | 19.7 | -0.187    | 19.8 | 18 to 22     | 98.5 | 80 to 120 | 0.00       | 20 |
| AZ05134 | Fluoride                   | mg/L  | 0.00602 | 0.05     | 2.50  | 2.38 | 0.0349    | 2.45 | 2.25 to 2.75 | 95.2 | 80 to 120 | 0.00       | 20 |
| AZ05133 | Alkalinity, Total as CaCO3 | mg/L  |         |          |       |      | 61.2      | 49.7 | 45.0 to 55.0 |      |           | 0.716      | 10 |
| AZ05133 | Solids, Dissolved          | mg/L  | 0.0000  | 25       |       |      | 807       | 55.0 | 40 to 60     |      |           | 2.09       | 5  |
| AZ05133 | pH for Alkalinity          | SU    |         |          |       |      |           | 7.00 | 6.95 to 7.05 |      |           |            |    |
| AZ05134 | Chloride                   | mg/L  | -0.0364 | 0.50     | 10.0  | 10.3 | 0.174     | 9.99 | 9 to 11      | 103  | 80 to 120 | 0.00       | 20 |

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Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

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CC:

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

**Certificate Of Analysis**  **Alabama Power**



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAPFB  
 Sample Date: 26-Feb-19  
 Customer ID:  
 Delivery Date: 27-Feb-19

Description: Gaston Ash Pond Field Blank

Laboratory ID Number: AZ05130

| Name                                  | Analyst | Test Date | Reference | Vio Spec | DF    | MDL    | RL     | Q Results      | Units |
|---------------------------------------|---------|-----------|-----------|----------|-------|--------|--------|----------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |           |          |       |        |        |                |       |
| * Arsenic, Total                      | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Barium, Total                       | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Beryllium, Total                    | RDA     | 3/1/2019  | 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                      | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.0003 | 0.001  | U Not Detected | mg/L  |
| * Antimony, Total                     | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.0008 | 0.003  | U Not Detected | mg/L  |
| * Molybdenum, Total                   | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Lead, Total                         | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Cobalt, Total                       | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.002  | 0.005  | U Not Detected | mg/L  |
| * Chromium, Total                     | RDA     | 3/1/2019  | 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     | 3/12/2019 | 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                | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Manganese, Total                    | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Potassium, Total                    | RDA     | 3/1/2019  | 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                     | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Thallium, Total                     | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.0002 | 0.001  | U Not Detected | mg/L  |

**General Characteristics**

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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 04/01/2019



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  
 Lauren Parker

Customer Account: WMWGASAPFB  
 Sample Date: 26-Feb-19  
 Customer ID:  
 Delivery Date: 27-Feb-19

Description: Gaston Ash Pond Field Blank

Laboratory ID Number: AZ05130

| Name                   | Analyst | Test Date | Reference   | Vio Spec | DF | MDL  | RL  | Q Results      | Units |
|------------------------|---------|-----------|-------------|----------|----|------|-----|----------------|-------|
| * Solids, Dissolved    | CRB     | 3/7/2019  | SM 2540C    |          | 1  |      | 25  | U Not Detected | mg/L  |
| Filter Completion Date | CRB     | 3/1/2019  | SM 2540C    |          | 1  |      |     | 03/01/2019     | Date  |
| * Chloride             | JCC     | 3/1/2019  | SM4500Cl E  |          | 1  | 0.50 | 1   | U Not Detected | mg/L  |
| * Fluoride             | JCC     | 2/28/2019 | 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  
 Lauren Parker

Customer Account: WMWGASAPFB  
 Sample Date: 26-Feb-19  
 Customer ID:  
 Delivery Date: 27-Feb-19

Description: Gaston Ash Pond Field Blank

Laboratory ID Number: AZ05130

| Sample  | Analysis               | Units | MB           |         |       | LCS     |         |         | Rec              |      | Prec      | Limit     |       |
|---------|------------------------|-------|--------------|---------|-------|---------|---------|---------|------------------|------|-----------|-----------|-------|
|         |                        |       | MB           | Limit   | Spike | MS      | MSD     | LCS     | Limit            | Rec  |           |           | Limit |
| AZ05134 | Thallium, Total        | mg/L  | 0.00000429   | 0.00044 | 0.10  | 0.101   | 0.104   | 0.103   | 0.085 to 0.115   | 101  | 70 to 130 | 3.05      | 20    |
| AZ05134 | Sodium, Total          | mg/L  | -0.00493     | 0.22    | 5.00  | 5.07    | 5.13    | 4.97    | 4.25 to 5.75     | 101  | 70 to 130 | 1.15      | 20    |
| AZ05134 | Barium, Total          | mg/L  | -0.000000179 | 0.0044  | 0.10  | 0.0922  | 0.0934  | 0.0918  | 0.085 to 0.115   | 92.2 | 70 to 130 | 1.37      | 20    |
| AZ05134 | Beryllium, Total       | mg/L  | 0.000000     | 0.00132 | 0.10  | 0.114   | 0.117   | 0.114   | 0.085 to 0.115   | 114  | 70 to 130 | 2.40      | 20    |
| AZ05134 | Boron, Total           | mg/L  | -0.00467     | 0.044   | 1.00  | 1.02    | 1.02    | 0.992   | 0.85 to 1.15     | 102  | 70 to 130 | 0.575     | 20    |
| AZ05134 | Chromium, Total        | mg/L  | 0.0000237    | 0.0044  | 0.10  | 0.103   | 0.105   | 0.104   | 0.085 to 0.115   | 103  | 70 to 130 | 2.64      | 20    |
| AZ05134 | Manganese, Dissolved   | mg/L  | 0.00000482   | 0.0022  | 0.10  | 0.101   | 0.101   |         | 0.085 to 0.115   | 101  | 70 to 130 | 0.0106    | 20    |
| AZ05134 | Iron, Total            | mg/L  | -0.000182    | 0.022   | 0.2   | 0.207   | 0.207   | 0.201   | 0.17 to 0.23     | 103  | 70 to 130 | 0.0610    | 20    |
| AZ05134 | Manganese, Total       | mg/L  | 0.00000949   | 0.0022  | 0.10  | 0.0972  | 0.0998  | 0.100   | 0.085 to 0.115   | 97.2 | 70 to 130 | 2.69      | 20    |
| AZ05134 | Lead, Total            | mg/L  | 0.00000608   | 0.0022  | 0.10  | 0.100   | 0.102   | 0.104   | 0.085 to 0.115   | 100  | 70 to 130 | 1.87      | 20    |
| AZ05134 | Arsenic, Total         | mg/L  | 0.0000163    | 0.0022  | 0.10  | 0.100   | 0.102   | 0.103   | 0.085 to 0.115   | 100  | 70 to 130 | 2.11      | 20    |
| AZ05134 | Calcium, Total         | mg/L  | -0.00551     | 0.22    | 5.00  | 5.38    | 5.33    | 5.21    | 4.25 to 5.75     | 108  | 70 to 130 | 0.925     | 20    |
| AZ05134 | Magnesium, Total       | mg/L  | -0.00149     | 0.22    | 5.00  | 5.34    | 5.29    | 5.13    | 4.25 to 5.75     | 107  | 70 to 130 | 0.966     | 20    |
| AZ05134 | Molybdenum, Total      | mg/L  | 0.0000263    | 0.0044  | 0.10  | 0.0975  | 0.0989  | 0.0965  | 0.085 to 0.115   | 97.5 | 70 to 130 | 1.46      | 20    |
| AZ05134 | Cadmium, Total         | mg/L  | 0.00000589   | 0.00066 | 0.10  | 0.0898  | 0.0898  | 0.0885  | 0.085 to 0.115   | 89.8 | 70 to 130 | 0.0093120 |       |
| AZ05134 | Cobalt, Total          | mg/L  | 0.00000664   | 0.0044  | 0.10  | 0.107   | 0.108   | 0.106   | 0.085 to 0.115   | 107  | 70 to 130 | 1.05      | 20    |
| AZ05134 | Iron, Dissolved        | mg/L  | 0.00363      | 0.022   | 0.2   | 0.206   | 0.207   | 0.201   | 0.17 to 0.23     | 103  | 70 to 130 | 0.160     | 20    |
| AZ05134 | Potassium, Total       | mg/L  | 0.0127       | 0.473   | 10.0  | 10.1    | 10.3    | 10.0    | 8.5 to 11.5      | 101  | 70 to 130 | 1.97      | 20    |
| AZ05134 | Lithium, Total         | mg/L  | -0.0000674   | 0.022   | 0.20  | 0.199   | 0.200   | 0.195   | 0.17 to 0.23     | 99.6 | 70 to 130 | 0.143     | 20    |
| AZ05134 | Selenium, Total        | mg/L  | 0.0000290    | 0.0044  | 0.10  | 0.0974  | 0.0990  | 0.103   | 0.085 to 0.115   | 97.4 | 70 to 130 | 1.61      | 20    |
| AZ05134 | Mercury, Total by CVAA | mg/L  | 0.0000812    | 0.0005  | 0.004 | 0.00329 | 0.00317 | 0.00352 | 0.0034 to 0.0046 | 82.3 | 70 to 130 | 3.78      | 20    |
| AZ05134 | Antimony, Total        | mg/L  | 0.000376     | 0.00176 | 0.10  | 0.0849  | 0.0870  | 0.0859  | 0.085 to 0.115   | 84.9 | 70 to 130 | 2.36      | 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 04/01/2019

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 FAX (205) 257-1654

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAPFB  
 Sample Date: 26-Feb-19  
 Customer ID:  
 Delivery Date: 27-Feb-19

Description: Gaston Ash Pond Field Blank

Laboratory ID Number: AZ05130

| Sample  | Analysis          | Units | MB      | MB    |       |      | Sample    |      | LCS          | Rec  |           |      | Prec  |
|---------|-------------------|-------|---------|-------|-------|------|-----------|------|--------------|------|-----------|------|-------|
|         |                   |       |         | Limit | Spike | MS   | Duplicate | LCS  | Limit        | Rec  | Limit     | Prec | Limit |
| AZ05134 | Fluoride          | mg/L  | 0.00602 | 0.05  | 2.50  | 2.38 | 0.0349    | 2.45 | 2.25 to 2.75 | 95.2 | 80 to 120 | 0.00 | 20    |
| AZ05133 | Solids, Dissolved | mg/L  | 0.0000  | 25    |       |      | 807       | 55.0 | 40 to 60     |      |           | 2.09 | 5     |
| AZ05134 | Sulfate           | mg/L  | -0.141  | 0.50  | 20.0  | 19.7 | -0.187    | 19.8 | 18 to 22     | 98.5 | 80 to 120 | 0.00 | 20    |
| AZ05134 | Chloride          | mg/L  | -0.0364 | 0.50  | 10.0  | 10.3 | 0.174     | 9.99 | 9 to 11      | 103  | 80 to 120 | 0.00 | 20    |

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Laboratory certification ID: E571114

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Expiration: June 30, 2019

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CC:

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**Certificate Of Analysis**  **Alabama Power**



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 26-Feb-19  
 Customer ID:  
 Delivery Date: 27-Feb-19

Description: Gaston Ash Pond - MW-29H

Laboratory ID Number: AZ05131

| Name                                  | Analyst | Test Date | Reference | Vio Spec | DF    | MDL    | RL     | Q Results      | Units |
|---------------------------------------|---------|-----------|-----------|----------|-------|--------|--------|----------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |           |          |       |        |        |                |       |
| * Arsenic, Total                      | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.001  | 0.005  | J 0.00168      | mg/L  |
| * Barium, Total                       | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.002  | 0.01   | 0.0502         | mg/L  |
| * Beryllium, Total                    | RDA     | 3/1/2019  | 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    | 1.17           | mg/L  |
| * Calcium, Total                      | GAS     | 3/5/2019  | EPA 200.7 |          | 2.03  | 0.1    | 0.5    | 45.0           | mg/L  |
| * Cadmium, Total                      | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.0003 | 0.001  | U Not Detected | mg/L  |
| * Antimony, Total                     | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.0008 | 0.003  | U Not Detected | mg/L  |
| * Molybdenum, Total                   | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.002  | 0.01   | 1.08           | mg/L  |
| * Lead, Total                         | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Cobalt, Total                       | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.002  | 0.005  | U Not Detected | mg/L  |
| * Chromium, Total                     | RDA     | 3/1/2019  | 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   | 0.133          | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 3/12/2019 | 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   | 0.277          | mg/L  |
| * Magnesium, Total                    | GAS     | 3/5/2019  | EPA 200.7 |          | 2.03  | 0.1    | 0.5    | 19.3           | mg/L  |
| * Manganese, Dissolved                | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.001  | 0.005  | K 0.00527      | mg/L  |
| * Manganese, Total                    | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.001  | 0.005  | 0.00736        | mg/L  |
| * Potassium, Total                    | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.215  | 2.5    | 14.3           | mg/L  |
| * Sodium, Total                       | GAS     | 3/5/2019  | EPA 200.7 |          | 2.03  | 0.1    | 0.5    | 24.3           | mg/L  |
| * Selenium, Total                     | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Thallium, Total                     | RDA     | 3/1/2019  | 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 04/01/2019

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  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 26-Feb-19  
 Customer ID:  
 Delivery Date: 27-Feb-19

Description: Gaston Ash Pond - MW-29H

Laboratory ID Number: AZ05131

| Name                             | Analyst | Test Date | Reference    | Vio Spec | DF | MDL  | RL   | Q Results  | Units |
|----------------------------------|---------|-----------|--------------|----------|----|------|------|------------|-------|
| pH for Alkalinity                | EMG     | 3/6/2019  | SM 4500H+ B  |          | 1  |      | 4.00 | 8.62       | SU    |
| Alkalinity, Total as CaCO3       | EMG     | 3/6/2019  | SM 2320 B    |          | 1  |      | 0.1  | 52.3       | mg/L  |
| Carbonate Alkalinity, as CaCO3   | EMG     | 3/6/2019  | SM 4500CO2 D |          | 1  |      |      | 1.96       | mg/L  |
| Bicarbonate Alkalinity, as CaCO3 | EMG     | 3/6/2019  | SM 4500CO2 D |          | 1  |      |      | 50.1       | mg/L  |
| * Solids, Dissolved              | CRB     | 3/7/2019  | SM 2540C     |          | 1  |      | 25   | 326        | mg/L  |
| Filter Completion Date           | CRB     | 3/1/2019  | SM 2540C     |          | 1  |      |      | 03/01/2019 | Date  |
| * Chloride                       | JCC     | 3/1/2019  | SM4500CI E   |          | 1  | 0.50 | 1    | 16.4       | mg/L  |
| * Fluoride                       | JCC     | 2/28/2019 | SM4500F C    |          | 1  | 0.05 | 0.1  | 0.106      | mg/L  |
| * Sulfate                        | JCC     | 3/5/2019  | SM4500SO4 E  |          | 10 | 5.00 | 10   | 164        | mg/L  |

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# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 26-Feb-19  
 Customer ID:  
 Delivery Date: 27-Feb-19

Description: Gaston Ash Pond - MW-29H

Laboratory ID Number: AZ05131

| Sample  | Analysis               | Units | MB           | MB      |       | MS      | MSD     | LCS     | LCS              |      | Rec       |           | Prec |
|---------|------------------------|-------|--------------|---------|-------|---------|---------|---------|------------------|------|-----------|-----------|------|
|         |                        |       |              | Limit   | Spike |         |         |         | Limit            | Rec  | Limit     | Prec      |      |
| AZ05134 | Sodium, Total          | mg/L  | -0.00493     | 0.22    | 5.00  | 5.07    | 5.13    | 4.97    | 4.25 to 5.75     | 101  | 70 to 130 | 1.15      | 20   |
| AZ05134 | Thallium, Total        | mg/L  | 0.00000429   | 0.00044 | 0.10  | 0.101   | 0.104   | 0.103   | 0.085 to 0.115   | 101  | 70 to 130 | 3.05      | 20   |
| AZ05134 | Arsenic, Total         | mg/L  | 0.0000163    | 0.0022  | 0.10  | 0.100   | 0.102   | 0.103   | 0.085 to 0.115   | 100  | 70 to 130 | 2.11      | 20   |
| AZ05134 | Calcium, Total         | mg/L  | -0.00551     | 0.22    | 5.00  | 5.38    | 5.33    | 5.21    | 4.25 to 5.75     | 108  | 70 to 130 | 0.925     | 20   |
| AZ05134 | Magnesium, Total       | mg/L  | -0.00149     | 0.22    | 5.00  | 5.34    | 5.29    | 5.13    | 4.25 to 5.75     | 107  | 70 to 130 | 0.966     | 20   |
| AZ05134 | Molybdenum, Total      | mg/L  | 0.0000263    | 0.0044  | 0.10  | 0.0975  | 0.0989  | 0.0965  | 0.085 to 0.115   | 97.5 | 70 to 130 | 1.46      | 20   |
| AZ05134 | Barium, Total          | mg/L  | -0.000000179 | 0.0044  | 0.10  | 0.0922  | 0.0934  | 0.0918  | 0.085 to 0.115   | 92.2 | 70 to 130 | 1.37      | 20   |
| AZ05134 | Beryllium, Total       | mg/L  | 0.000000     | 0.00132 | 0.10  | 0.114   | 0.117   | 0.114   | 0.085 to 0.115   | 114  | 70 to 130 | 2.40      | 20   |
| AZ05134 | Boron, Total           | mg/L  | -0.00467     | 0.044   | 1.00  | 1.02    | 1.02    | 0.992   | 0.85 to 1.15     | 102  | 70 to 130 | 0.575     | 20   |
| AZ05134 | Cadmium, Total         | mg/L  | 0.00000589   | 0.00066 | 0.10  | 0.0898  | 0.0898  | 0.0885  | 0.085 to 0.115   | 89.8 | 70 to 130 | 0.0093120 | 20   |
| AZ05134 | Cobalt, Total          | mg/L  | 0.00000664   | 0.0044  | 0.10  | 0.107   | 0.108   | 0.106   | 0.085 to 0.115   | 107  | 70 to 130 | 1.05      | 20   |
| AZ05134 | Iron, Dissolved        | mg/L  | 0.00363      | 0.022   | 0.2   | 0.206   | 0.207   | 0.201   | 0.17 to 0.23     | 103  | 70 to 130 | 0.160     | 20   |
| AZ05134 | Potassium, Total       | mg/L  | 0.0127       | 0.473   | 10.0  | 10.1    | 10.3    | 10.0    | 8.5 to 11.5      | 101  | 70 to 130 | 1.97      | 20   |
| AZ05134 | Lithium, Total         | mg/L  | -0.0000674   | 0.022   | 0.20  | 0.199   | 0.200   | 0.195   | 0.17 to 0.23     | 99.6 | 70 to 130 | 0.143     | 20   |
| AZ05134 | Selenium, Total        | mg/L  | 0.0000290    | 0.0044  | 0.10  | 0.0974  | 0.0990  | 0.103   | 0.085 to 0.115   | 97.4 | 70 to 130 | 1.61      | 20   |
| AZ05134 | Iron, Total            | mg/L  | -0.000182    | 0.022   | 0.2   | 0.207   | 0.207   | 0.201   | 0.17 to 0.23     | 103  | 70 to 130 | 0.0610    | 20   |
| AZ05134 | Manganese, Total       | mg/L  | 0.00000949   | 0.0022  | 0.10  | 0.0972  | 0.0998  | 0.100   | 0.085 to 0.115   | 97.2 | 70 to 130 | 2.69      | 20   |
| AZ05134 | Lead, Total            | mg/L  | 0.00000608   | 0.0022  | 0.10  | 0.100   | 0.102   | 0.104   | 0.085 to 0.115   | 100  | 70 to 130 | 1.87      | 20   |
| AZ05134 | Chromium, Total        | mg/L  | 0.0000237    | 0.0044  | 0.10  | 0.103   | 0.105   | 0.104   | 0.085 to 0.115   | 103  | 70 to 130 | 2.64      | 20   |
| AZ05134 | Manganese, Dissolved   | mg/L  | 0.00000482   | 0.0022  | 0.10  | 0.101   | 0.101   |         | 0.085 to 0.115   | 101  | 70 to 130 | 0.0106    | 20   |
| AZ05134 | Mercury, Total by CVAA | mg/L  | 0.0000812    | 0.0005  | 0.004 | 0.00329 | 0.00317 | 0.00352 | 0.0034 to 0.0046 | 82.3 | 70 to 130 | 3.78      | 20   |
| AZ05134 | Antimony, Total        | mg/L  | 0.000376     | 0.00176 | 0.10  | 0.0849  | 0.0870  | 0.0859  | 0.085 to 0.115   | 84.9 | 70 to 130 | 2.36      | 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  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 26-Feb-19  
 Customer ID:  
 Delivery Date: 27-Feb-19

Description: Gaston Ash Pond - MW-29H

Laboratory ID Number: AZ05131

| Sample  | Analysis                   | Units | MB      | Limit | Spike | MS   | Sample Duplicate | LCS  | LCS Limit    | Rec  | Rec Limit | Prec  | Prec Limit |
|---------|----------------------------|-------|---------|-------|-------|------|------------------|------|--------------|------|-----------|-------|------------|
| AZ05134 | Sulfate                    | mg/L  | -0.141  | 0.50  | 20.0  | 19.7 | -0.187           | 19.8 | 18 to 22     | 98.5 | 80 to 120 | 0.00  | 20         |
| AZ05134 | Fluoride                   | mg/L  | 0.00602 | 0.05  | 2.50  | 2.38 | 0.0349           | 2.45 | 2.25 to 2.75 | 95.2 | 80 to 120 | 0.00  | 20         |
| AZ05133 | Alkalinity, Total as CaCO3 | mg/L  |         |       |       |      | 61.2             | 49.7 | 45.0 to 55.0 |      |           | 0.716 | 10         |
| AZ05133 | Solids, Dissolved          | mg/L  | 0.0000  | 25    |       |      | 807              | 55.0 | 40 to 60     |      |           | 2.09  | 5          |
| AZ05133 | pH for Alkalinity          | SU    |         |       |       |      |                  | 7.00 | 6.95 to 7.05 |      |           |       |            |
| AZ05134 | Chloride                   | mg/L  | -0.0364 | 0.50  | 10.0  | 10.3 | 0.174            | 9.99 | 9 to 11      | 103  | 80 to 120 | 0.00  | 20         |

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CC:

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



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 27-Feb-19  
 Customer ID:  
 Delivery Date: 27-Feb-19

Description: Gaston Ash Pond - MW-17V

Laboratory ID Number: AZ05132

| Name                                  | Analyst | Test Date | Reference | Vio Spec | DF    | MDL    | RL     | Q | Results      | Units |
|---------------------------------------|---------|-----------|-----------|----------|-------|--------|--------|---|--------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |           |          |       |        |        |   |              |       |
| * Arsenic, Total                      | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.001  | 0.005  | J | 0.00112      | mg/L  |
| * Barium, Total                       | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.002  | 0.01   |   | 0.0434       | mg/L  |
| * Beryllium, Total                    | RDA     | 3/1/2019  | 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    |   | 2.03         | mg/L  |
| * Calcium, Total                      | GAS     | 3/5/2019  | EPA 200.7 |          | 2.03  | 0.1    | 0.5    |   | 55.8         | mg/L  |
| * Cadmium, Total                      | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.0003 | 0.001  | J | 0.000302     | mg/L  |
| * Antimony, Total                     | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.0008 | 0.003  | U | Not Detected | mg/L  |
| * Molybdenum, Total                   | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.002  | 0.01   |   | 1.82         | mg/L  |
| * Lead, Total                         | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.001  | 0.005  | U | Not Detected | mg/L  |
| * Cobalt, Total                       | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.002  | 0.005  | U | Not Detected | mg/L  |
| * Chromium, Total                     | RDA     | 3/1/2019  | 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   | J | 0.0141       | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 3/12/2019 | 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   |   | 0.364        | mg/L  |
| * Magnesium, Total                    | GAS     | 3/5/2019  | EPA 200.7 |          | 2.03  | 0.1    | 0.5    |   | 23.1         | mg/L  |
| * Manganese, Dissolved                | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.001  | 0.005  | J | 0.00482      | mg/L  |
| * Manganese, Total                    | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.001  | 0.005  |   | 0.00513      | mg/L  |
| * Potassium, Total                    | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.215  | 2.5    |   | 24.8         | mg/L  |
| * Sodium, Total                       | GAS     | 3/5/2019  | EPA 200.7 |          | 2.03  | 0.1    | 0.5    |   | 40.2         | mg/L  |
| * Selenium, Total                     | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.002  | 0.01   | U | Not Detected | mg/L  |
| * Thallium, Total                     | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.0002 | 0.001  | U | Not Detected | mg/L  |

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# Certificate Of Analysis Alabama Power



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 27-Feb-19  
 Customer ID:  
 Delivery Date: 27-Feb-19

Description: Gaston Ash Pond - MW-17V

Laboratory ID Number: AZ05132

| Name                             | Analyst | Test Date | Reference    | Vio Spec | DF | MDL  | RL   | Q Results  | Units |
|----------------------------------|---------|-----------|--------------|----------|----|------|------|------------|-------|
| pH for Alkalinity                | EMG     | 3/6/2019  | SM 4500H+ B  |          | 1  |      | 4.00 | 8.79       | SU    |
| Alkalinity, Total as CaCO3       | EMG     | 3/6/2019  | SM 2320 B    |          | 1  |      | 0.1  | 44.1       | mg/L  |
| Carbonate Alkalinity, as CaCO3   | EMG     | 3/6/2019  | SM 4500CO2 D |          | 1  |      |      | 2.40       | mg/L  |
| Bicarbonate Alkalinity, as CaCO3 | EMG     | 3/6/2019  | SM 4500CO2 D |          | 1  |      |      | 41.4       | mg/L  |
| * Solids, Dissolved              | CRB     | 3/7/2019  | SM 2540C     |          | 1  |      | 25   | 459        | mg/L  |
| Filter Completion Date           | CRB     | 3/1/2019  | SM 2540C     |          | 1  |      |      | 03/01/2019 | Date  |
| * Chloride                       | JCC     | 3/1/2019  | SM4500Cl E   |          | 2  | 1.00 | 2    | 23.8       | mg/L  |
| * Fluoride                       | JCC     | 2/28/2019 | SM4500F C    |          | 1  | 0.05 | 0.1  | 0.130      | mg/L  |
| * Sulfate                        | JCC     | 3/5/2019  | SM4500SO4 E  |          | 10 | 5.00 | 10   | 265        | mg/L  |

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# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 27-Feb-19  
 Customer ID:  
 Delivery Date: 27-Feb-19

Description: Gaston Ash Pond - MW-17V

Laboratory ID Number: AZ05132

| Sample  | Analysis               | Units | MB           | MB      |       |         | MS      | MSD     | LCS              | LCS   |           | Rec    |      | Prec Limit |
|---------|------------------------|-------|--------------|---------|-------|---------|---------|---------|------------------|-------|-----------|--------|------|------------|
|         |                        |       |              | Limit   | Spike | MS      |         |         |                  | Limit | Rec       | Limit  | Prec |            |
| AZ05134 | Sodium, Total          | mg/L  | -0.00493     | 0.22    | 5.00  | 5.07    | 5.13    | 4.97    | 4.25 to 5.75     | 101   | 70 to 130 | 1.15   | 20   |            |
| AZ05134 | Thallium, Total        | mg/L  | 0.00000429   | 0.00044 | 0.10  | 0.101   | 0.104   | 0.103   | 0.085 to 0.115   | 101   | 70 to 130 | 3.05   | 20   |            |
| AZ05134 | Barium, Total          | mg/L  | -0.000000179 | 0.0044  | 0.10  | 0.0922  | 0.0934  | 0.0918  | 0.085 to 0.115   | 92.2  | 70 to 130 | 1.37   | 20   |            |
| AZ05134 | Beryllium, Total       | mg/L  | 0.000000     | 0.00132 | 0.10  | 0.114   | 0.117   | 0.114   | 0.085 to 0.115   | 114   | 70 to 130 | 2.40   | 20   |            |
| AZ05134 | Boron, Total           | mg/L  | -0.00467     | 0.044   | 1.00  | 1.02    | 1.02    | 0.992   | 0.85 to 1.15     | 102   | 70 to 130 | 0.575  | 20   |            |
| AZ05134 | Iron, Total            | mg/L  | -0.000182    | 0.022   | 0.2   | 0.207   | 0.207   | 0.201   | 0.17 to 0.23     | 103   | 70 to 130 | 0.0610 | 20   |            |
| AZ05134 | Manganese, Total       | mg/L  | 0.00000949   | 0.0022  | 0.10  | 0.0972  | 0.0998  | 0.100   | 0.085 to 0.115   | 97.2  | 70 to 130 | 2.69   | 20   |            |
| AZ05134 | Lead, Total            | mg/L  | 0.00000608   | 0.0022  | 0.10  | 0.100   | 0.102   | 0.104   | 0.085 to 0.115   | 100   | 70 to 130 | 1.87   | 20   |            |
| AZ05134 | Chromium, Total        | mg/L  | 0.0000237    | 0.0044  | 0.10  | 0.103   | 0.105   | 0.104   | 0.085 to 0.115   | 103   | 70 to 130 | 2.64   | 20   |            |
| AZ05134 | Manganese, Dissolved   | mg/L  | 0.00000482   | 0.0022  | 0.10  | 0.101   | 0.101   |         | 0.085 to 0.115   | 101   | 70 to 130 | 0.0106 | 20   |            |
| AZ05134 | Cadmium, Total         | mg/L  | 0.00000589   | 0.00066 | 0.10  | 0.0898  | 0.0898  | 0.0885  | 0.085 to 0.115   | 89.8  | 70 to 130 | 0.0093 | 120  |            |
| AZ05134 | Cobalt, Total          | mg/L  | 0.00000664   | 0.0044  | 0.10  | 0.107   | 0.108   | 0.106   | 0.085 to 0.115   | 107   | 70 to 130 | 1.05   | 20   |            |
| AZ05134 | Iron, Dissolved        | mg/L  | 0.00363      | 0.022   | 0.2   | 0.206   | 0.207   | 0.201   | 0.17 to 0.23     | 103   | 70 to 130 | 0.160  | 20   |            |
| AZ05134 | Potassium, Total       | mg/L  | 0.0127       | 0.473   | 10.0  | 10.1    | 10.3    | 10.0    | 8.5 to 11.5      | 101   | 70 to 130 | 1.97   | 20   |            |
| AZ05134 | Lithium, Total         | mg/L  | -0.0000674   | 0.022   | 0.20  | 0.199   | 0.200   | 0.195   | 0.17 to 0.23     | 99.6  | 70 to 130 | 0.143  | 20   |            |
| AZ05134 | Selenium, Total        | mg/L  | 0.0000290    | 0.0044  | 0.10  | 0.0974  | 0.0990  | 0.103   | 0.085 to 0.115   | 97.4  | 70 to 130 | 1.61   | 20   |            |
| AZ05134 | Mercury, Total by CVAA | mg/L  | 0.0000812    | 0.0005  | 0.004 | 0.00329 | 0.00317 | 0.00352 | 0.0034 to 0.0046 | 82.3  | 70 to 130 | 3.78   | 20   |            |
| AZ05134 | Antimony, Total        | mg/L  | 0.000376     | 0.00176 | 0.10  | 0.0849  | 0.0870  | 0.0859  | 0.085 to 0.115   | 84.9  | 70 to 130 | 2.36   | 20   |            |
| AZ05134 | Arsenic, Total         | mg/L  | 0.0000163    | 0.0022  | 0.10  | 0.100   | 0.102   | 0.103   | 0.085 to 0.115   | 100   | 70 to 130 | 2.11   | 20   |            |
| AZ05134 | Calcium, Total         | mg/L  | -0.00551     | 0.22    | 5.00  | 5.38    | 5.33    | 5.21    | 4.25 to 5.75     | 108   | 70 to 130 | 0.925  | 20   |            |
| AZ05134 | Magnesium, Total       | mg/L  | -0.00149     | 0.22    | 5.00  | 5.34    | 5.29    | 5.13    | 4.25 to 5.75     | 107   | 70 to 130 | 0.966  | 20   |            |
| AZ05134 | Molybdenum, Total      | mg/L  | 0.0000263    | 0.0044  | 0.10  | 0.0975  | 0.0989  | 0.0965  | 0.085 to 0.115   | 97.5  | 70 to 130 | 1.46   | 20   |            |

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 04/01/2019

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  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 27-Feb-19  
 Customer ID:  
 Delivery Date: 27-Feb-19

Description: Gaston Ash Pond - MW-17V

Laboratory ID Number: AZ05132

| Sample  | Analysis                   | Units | MB      | MB Limit | Spike | MS   | Sample    |      | LCS Limit    | Rec  |           | Prec Limit |    |
|---------|----------------------------|-------|---------|----------|-------|------|-----------|------|--------------|------|-----------|------------|----|
|         |                            |       |         |          |       |      | Duplicate | LCS  |              | Rec  | Limit     |            |    |
| AZ05134 | Sulfate                    | mg/L  | -0.141  | 0.50     | 20.0  | 19.7 | -0.187    | 19.8 | 18 to 22     | 98.5 | 80 to 120 | 0.00       | 20 |
| AZ05134 | Fluoride                   | mg/L  | 0.00602 | 0.05     | 2.50  | 2.38 | 0.0349    | 2.45 | 2.25 to 2.75 | 95.2 | 80 to 120 | 0.00       | 20 |
| AZ05133 | Alkalinity, Total as CaCO3 | mg/L  |         |          |       |      | 61.2      | 49.7 | 45.0 to 55.0 |      |           | 0.716      | 10 |
| AZ05133 | Solids, Dissolved          | mg/L  | 0.0000  | 25       |       |      | 807       | 55.0 | 40 to 60     |      |           | 2.09       | 5  |
| AZ05133 | pH for Alkalinity          | SU    |         |          |       |      |           | 7.00 | 6.95 to 7.05 |      |           |            |    |
| AZ05134 | Chloride                   | mg/L  | -0.0364 | 0.50     | 10.0  | 10.3 | 0.174     | 9.99 | 9 to 11      | 103  | 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  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 27-Feb-19  
 Customer ID:  
 Delivery Date: 27-Feb-19

Description: Gaston Ash Pond - MW-20V

Laboratory ID Number: AZ05133

| Name                                  | Analyst | Test Date | Reference | Vio Spec | DF    | MDL    | RL     | Q Results      | Units |
|---------------------------------------|---------|-----------|-----------|----------|-------|--------|--------|----------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |           |          |       |        |        |                |       |
| * Arsenic, Total                      | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.001  | 0.005  | J 0.00119      | mg/L  |
| * Barium, Total                       | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.002  | 0.01   | 0.0219         | mg/L  |
| * Beryllium, Total                    | RDA     | 3/1/2019  | 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    | 2.79           | mg/L  |
| * Calcium, Total                      | GAS     | 3/5/2019  | EPA 200.7 |          | 10.15 | 1.015  | 5.075  | 115            | mg/L  |
| * Cadmium, Total                      | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.0003 | 0.001  | U Not Detected | mg/L  |
| * Antimony, Total                     | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.0008 | 0.003  | U Not Detected | mg/L  |
| * Molybdenum, Total                   | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.002  | 0.01   | 0.287          | mg/L  |
| * Lead, Total                         | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Cobalt, Total                       | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.002  | 0.005  | U Not Detected | mg/L  |
| * Chromium, Total                     | RDA     | 3/1/2019  | 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 0.199        | mg/L  |
| * Iron, Total                         | GAS     | 3/5/2019  | EPA 200.7 |          | 2.03  | 0.01   | 0.05   | 0.365          | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 3/12/2019 | 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   | 0.0372         | mg/L  |
| * Magnesium, Total                    | GAS     | 3/5/2019  | EPA 200.7 |          | 2.03  | 0.1    | 0.5    | 78.6           | mg/L  |
| * Manganese, Dissolved                | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.001  | 0.005  | K 0.0160       | mg/L  |
| * Manganese, Total                    | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.001  | 0.005  | 0.0172         | mg/L  |
| * Potassium, Total                    | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.215  | 2.5    | J 0.650        | mg/L  |
| * Sodium, Total                       | GAS     | 3/5/2019  | EPA 200.7 |          | 2.03  | 0.1    | 0.5    | 15.3           | mg/L  |
| * Selenium, Total                     | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Thallium, Total                     | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.0002 | 0.001  | U Not Detected | mg/L  |

**General Characteristics**

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Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

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

# Certificate Of Analysis Alabama Power



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 27-Feb-19  
 Customer ID:  
 Delivery Date: 27-Feb-19

Description: Gaston Ash Pond - MW-20V

Laboratory ID Number: AZ05133

| Name                             | Analyst | Test Date | Reference    | Vio Spec | DF | MDL   | RL   | Q Results  | Units |
|----------------------------------|---------|-----------|--------------|----------|----|-------|------|------------|-------|
| pH for Alkalinity                | EMG     | 3/6/2019  | SM 4500H+ B  |          | 1  |       | 4.00 | 8.43       | SU    |
| Alkalinity, Total as CaCO3       | EMG     | 3/6/2019  | SM 2320 B    |          | 1  |       | 0.1  | 61.7       | mg/L  |
| Carbonate Alkalinity, as CaCO3   | EMG     | 3/6/2019  | SM 4500CO2 D |          | 1  |       |      | 1.52       | mg/L  |
| Bicarbonate Alkalinity, as CaCO3 | EMG     | 3/6/2019  | SM 4500CO2 D |          | 1  |       |      | 60.0       | mg/L  |
| * Solids, Dissolved              | CRB     | 3/7/2019  | SM 2540C     |          | 1  |       | 50   | 774        | mg/L  |
| Filter Completion Date           | CRB     | 3/1/2019  | SM 2540C     |          | 1  |       |      | 03/01/2019 | Date  |
| * Chloride                       | JCC     | 3/1/2019  | SM4500CI E   |          | 1  | 0.50  | 1    | 16.5       | mg/L  |
| * Fluoride                       | JCC     | 2/28/2019 | SM4500F C    |          | 1  | 0.05  | 0.1  | J 0.0806   | mg/L  |
| * Sulfate                        | JCC     | 3/5/2019  | SM4500SO4 E  |          | 20 | 10.00 | 20   | 491        | mg/L  |

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# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 27-Feb-19  
 Customer ID:  
 Delivery Date: 27-Feb-19

Description: Gaston Ash Pond - MW-20V

Laboratory ID Number: AZ05133

| Sample  | Analysis               | Units | MB           | MB      |       |         |         | LCS     |                  |      | Rec       |           | Prec  |
|---------|------------------------|-------|--------------|---------|-------|---------|---------|---------|------------------|------|-----------|-----------|-------|
|         |                        |       |              | Limit   | Spike | MS      | MSD     | LCS     | Limit            | Rec  | Limit     | Prec      | Limit |
| AZ05134 | Sodium, Total          | mg/L  | -0.00493     | 0.22    | 5.00  | 5.07    | 5.13    | 4.97    | 4.25 to 5.75     | 101  | 70 to 130 | 1.15      | 20    |
| AZ05134 | Thallium, Total        | mg/L  | 0.00000429   | 0.00044 | 0.10  | 0.101   | 0.104   | 0.103   | 0.085 to 0.115   | 101  | 70 to 130 | 3.05      | 20    |
| AZ05134 | Barium, Total          | mg/L  | -0.000000179 | 0.0044  | 0.10  | 0.0922  | 0.0934  | 0.0918  | 0.085 to 0.115   | 92.2 | 70 to 130 | 1.37      | 20    |
| AZ05134 | Beryllium, Total       | mg/L  | 0.000000     | 0.00132 | 0.10  | 0.114   | 0.117   | 0.114   | 0.085 to 0.115   | 114  | 70 to 130 | 2.40      | 20    |
| AZ05134 | Boron, Total           | mg/L  | -0.00467     | 0.044   | 1.00  | 1.02    | 1.02    | 0.992   | 0.85 to 1.15     | 102  | 70 to 130 | 0.575     | 20    |
| AZ05134 | Arsenic, Total         | mg/L  | 0.0000163    | 0.0022  | 0.10  | 0.100   | 0.102   | 0.103   | 0.085 to 0.115   | 100  | 70 to 130 | 2.11      | 20    |
| AZ05134 | Calcium, Total         | mg/L  | -0.00551     | 0.22    | 5.00  | 5.38    | 5.33    | 5.21    | 4.25 to 5.75     | 108  | 70 to 130 | 0.925     | 20    |
| AZ05134 | Magnesium, Total       | mg/L  | -0.00149     | 0.22    | 5.00  | 5.34    | 5.29    | 5.13    | 4.25 to 5.75     | 107  | 70 to 130 | 0.966     | 20    |
| AZ05134 | Molybdenum, Total      | mg/L  | 0.0000263    | 0.0044  | 0.10  | 0.0975  | 0.0989  | 0.0965  | 0.085 to 0.115   | 97.5 | 70 to 130 | 1.46      | 20    |
| AZ05134 | Mercury, Total by CVAA | mg/L  | 0.0000812    | 0.0005  | 0.004 | 0.00329 | 0.00317 | 0.00352 | 0.0034 to 0.0046 | 82.3 | 70 to 130 | 3.78      | 20    |
| AZ05134 | Antimony, Total        | mg/L  | 0.000376     | 0.00176 | 0.10  | 0.0849  | 0.0870  | 0.0859  | 0.085 to 0.115   | 84.9 | 70 to 130 | 2.36      | 20    |
| AZ05134 | Cadmium, Total         | mg/L  | 0.00000589   | 0.00066 | 0.10  | 0.0898  | 0.0898  | 0.0885  | 0.085 to 0.115   | 89.8 | 70 to 130 | 0.0093120 | 20    |
| AZ05134 | Cobalt, Total          | mg/L  | 0.00000664   | 0.0044  | 0.10  | 0.107   | 0.108   | 0.106   | 0.085 to 0.115   | 107  | 70 to 130 | 1.05      | 20    |
| AZ05134 | Iron, Dissolved        | mg/L  | 0.00363      | 0.022   | 0.2   | 0.206   | 0.207   | 0.201   | 0.17 to 0.23     | 103  | 70 to 130 | 0.160     | 20    |
| AZ05134 | Potassium, Total       | mg/L  | 0.0127       | 0.473   | 10.0  | 10.1    | 10.3    | 10.0    | 8.5 to 11.5      | 101  | 70 to 130 | 1.97      | 20    |
| AZ05134 | Lithium, Total         | mg/L  | -0.0000674   | 0.022   | 0.20  | 0.199   | 0.200   | 0.195   | 0.17 to 0.23     | 99.6 | 70 to 130 | 0.143     | 20    |
| AZ05134 | Selenium, Total        | mg/L  | 0.0000290    | 0.0044  | 0.10  | 0.0974  | 0.0990  | 0.103   | 0.085 to 0.115   | 97.4 | 70 to 130 | 1.61      | 20    |
| AZ05134 | Iron, Total            | mg/L  | -0.000182    | 0.022   | 0.2   | 0.207   | 0.207   | 0.201   | 0.17 to 0.23     | 103  | 70 to 130 | 0.0610    | 20    |
| AZ05134 | Manganese, Total       | mg/L  | 0.00000949   | 0.0022  | 0.10  | 0.0972  | 0.0998  | 0.100   | 0.085 to 0.115   | 97.2 | 70 to 130 | 2.69      | 20    |
| AZ05134 | Lead, Total            | mg/L  | 0.00000608   | 0.0022  | 0.10  | 0.100   | 0.102   | 0.104   | 0.085 to 0.115   | 100  | 70 to 130 | 1.87      | 20    |
| AZ05134 | Chromium, Total        | mg/L  | 0.0000237    | 0.0044  | 0.10  | 0.103   | 0.105   | 0.104   | 0.085 to 0.115   | 103  | 70 to 130 | 2.64      | 20    |
| AZ05134 | Manganese, Dissolved   | mg/L  | 0.00000482   | 0.0022  | 0.10  | 0.101   | 0.101   |         | 0.085 to 0.115   | 101  | 70 to 130 | 0.0106    | 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  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 27-Feb-19  
 Customer ID:  
 Delivery Date: 27-Feb-19

Description: Gaston Ash Pond - MW-20V

Laboratory ID Number: AZ05133

| Sample  | Analysis                   | Units | MB      | MB Limit | Spike | MS   | Sample    |      | LCS Limit    | Rec  |           | Prec Limit |    |
|---------|----------------------------|-------|---------|----------|-------|------|-----------|------|--------------|------|-----------|------------|----|
|         |                            |       |         |          |       |      | Duplicate | LCS  |              | Rec  | Limit     |            |    |
| AZ05134 | Sulfate                    | mg/L  | -0.141  | 0.50     | 20.0  | 19.7 | -0.187    | 19.8 | 18 to 22     | 98.5 | 80 to 120 | 0.00       | 20 |
| AZ05134 | Fluoride                   | mg/L  | 0.00602 | 0.05     | 2.50  | 2.38 | 0.0349    | 2.45 | 2.25 to 2.75 | 95.2 | 80 to 120 | 0.00       | 20 |
| AZ05133 | pH for Alkalinity          | SU    |         |          |       |      |           | 7.00 | 6.95 to 7.05 |      |           |            |    |
| AZ05134 | Chloride                   | mg/L  | -0.0364 | 0.50     | 10.0  | 10.3 | 0.174     | 9.99 | 9 to 11      | 103  | 80 to 120 | 0.00       | 20 |
| AZ05133 | Alkalinity, Total as CaCO3 | mg/L  |         |          |       |      | 61.2      | 49.7 | 45.0 to 55.0 |      |           | 0.716      | 10 |
| AZ05133 | Solids, Dissolved          | mg/L  | 0.0000  | 25       |       |      | 807       | 55.0 | 40 to 60     |      |           | 2.09       | 5  |

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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  
 Lauren Parker

Customer Account: WMWGASAPEB  
 Sample Date: 27-Feb-19  
 Customer ID:  
 Delivery Date: 27-Feb-19

Description: Gaston Ash Pond Equipment Blank

Laboratory ID Number: AZ05134

| Name                                  | Analyst | Test Date | Reference | Vio Spec | DF    | MDL    | RL     | Q Results      | Units |
|---------------------------------------|---------|-----------|-----------|----------|-------|--------|--------|----------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |           |          |       |        |        |                |       |
| * Arsenic, Total                      | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Barium, Total                       | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Beryllium, Total                    | RDA     | 3/1/2019  | 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                      | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.0003 | 0.001  | U Not Detected | mg/L  |
| * Antimony, Total                     | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.0008 | 0.003  | U Not Detected | mg/L  |
| * Molybdenum, Total                   | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Lead, Total                         | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Cobalt, Total                       | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.002  | 0.005  | U Not Detected | mg/L  |
| * Chromium, Total                     | RDA     | 3/1/2019  | 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     | 3/12/2019 | 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                | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Manganese, Total                    | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Potassium, Total                    | RDA     | 3/1/2019  | 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                     | RDA     | 3/1/2019  | EPA 200.8 |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Thallium, Total                     | RDA     | 3/1/2019  | 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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 04/01/2019



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  
 Lauren Parker

Customer Account: WMWGASAPEB  
 Sample Date: 27-Feb-19  
 Customer ID:  
 Delivery Date: 27-Feb-19

Description: Gaston Ash Pond Equipment Blank

Laboratory ID Number: AZ05134

| Name                   | Analyst | Test Date | Reference   | Vio Spec | DF | MDL  | RL  | Q Results      | Units |
|------------------------|---------|-----------|-------------|----------|----|------|-----|----------------|-------|
| * Solids, Dissolved    | CRB     | 3/7/2019  | SM 2540C    |          | 1  |      | 25  | U Not Detected | mg/L  |
| Filter Completion Date | CRB     | 3/1/2019  | SM 2540C    |          | 1  |      |     | 03/01/2019     | Date  |
| * Chloride             | JCC     | 3/1/2019  | SM4500Cl E  |          | 1  | 0.50 | 1   | U Not Detected | mg/L  |
| * Fluoride             | JCC     | 2/28/2019 | 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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\* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

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# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAPEB  
 Sample Date: 27-Feb-19  
 Customer ID:  
 Delivery Date: 27-Feb-19

Description: Gaston Ash Pond Equipment Blank

Laboratory ID Number: AZ05134

| Sample  | Analysis               | Units | MB           | MB      |       |         |         | LCS     |                  | Rec  |           | Prec      |       |
|---------|------------------------|-------|--------------|---------|-------|---------|---------|---------|------------------|------|-----------|-----------|-------|
|         |                        |       |              | Limit   | Spike | MS      | MSD     | LCS     | Limit            | Rec  | Limit     | Prec      | Limit |
| AZ05134 | Sodium, Total          | mg/L  | -0.00493     | 0.22    | 5.00  | 5.07    | 5.13    | 4.97    | 4.25 to 5.75     | 101  | 70 to 130 | 1.15      | 20    |
| AZ05134 | Thallium, Total        | mg/L  | 0.00000429   | 0.00044 | 0.10  | 0.101   | 0.104   | 0.103   | 0.085 to 0.115   | 101  | 70 to 130 | 3.05      | 20    |
| AZ05134 | Iron, Total            | mg/L  | -0.000182    | 0.022   | 0.2   | 0.207   | 0.207   | 0.201   | 0.17 to 0.23     | 103  | 70 to 130 | 0.0610    | 20    |
| AZ05134 | Manganese, Total       | mg/L  | 0.00000949   | 0.0022  | 0.10  | 0.0972  | 0.0998  | 0.100   | 0.085 to 0.115   | 97.2 | 70 to 130 | 2.69      | 20    |
| AZ05134 | Lead, Total            | mg/L  | 0.00000608   | 0.0022  | 0.10  | 0.100   | 0.102   | 0.104   | 0.085 to 0.115   | 100  | 70 to 130 | 1.87      | 20    |
| AZ05134 | Arsenic, Total         | mg/L  | 0.0000163    | 0.0022  | 0.10  | 0.100   | 0.102   | 0.103   | 0.085 to 0.115   | 100  | 70 to 130 | 2.11      | 20    |
| AZ05134 | Calcium, Total         | mg/L  | -0.00551     | 0.22    | 5.00  | 5.38    | 5.33    | 5.21    | 4.25 to 5.75     | 108  | 70 to 130 | 0.925     | 20    |
| AZ05134 | Magnesium, Total       | mg/L  | -0.00149     | 0.22    | 5.00  | 5.34    | 5.29    | 5.13    | 4.25 to 5.75     | 107  | 70 to 130 | 0.966     | 20    |
| AZ05134 | Molybdenum, Total      | mg/L  | 0.0000263    | 0.0044  | 0.10  | 0.0975  | 0.0989  | 0.0965  | 0.085 to 0.115   | 97.5 | 70 to 130 | 1.46      | 20    |
| AZ05134 | Barium, Total          | mg/L  | -0.000000179 | 0.0044  | 0.10  | 0.0922  | 0.0934  | 0.0918  | 0.085 to 0.115   | 92.2 | 70 to 130 | 1.37      | 20    |
| AZ05134 | Beryllium, Total       | mg/L  | 0.000000     | 0.00132 | 0.10  | 0.114   | 0.117   | 0.114   | 0.085 to 0.115   | 114  | 70 to 130 | 2.40      | 20    |
| AZ05134 | Boron, Total           | mg/L  | -0.00467     | 0.044   | 1.00  | 1.02    | 1.02    | 0.992   | 0.85 to 1.15     | 102  | 70 to 130 | 0.575     | 20    |
| AZ05134 | Cadmium, Total         | mg/L  | 0.00000589   | 0.00066 | 0.10  | 0.0898  | 0.0898  | 0.0885  | 0.085 to 0.115   | 89.8 | 70 to 130 | 0.0093120 | 20    |
| AZ05134 | Cobalt, Total          | mg/L  | 0.00000664   | 0.0044  | 0.10  | 0.107   | 0.108   | 0.106   | 0.085 to 0.115   | 107  | 70 to 130 | 1.05      | 20    |
| AZ05134 | Iron, Dissolved        | mg/L  | 0.00363      | 0.022   | 0.2   | 0.206   | 0.207   | 0.201   | 0.17 to 0.23     | 103  | 70 to 130 | 0.160     | 20    |
| AZ05134 | Potassium, Total       | mg/L  | 0.0127       | 0.473   | 10.0  | 10.1    | 10.3    | 10.0    | 8.5 to 11.5      | 101  | 70 to 130 | 1.97      | 20    |
| AZ05134 | Lithium, Total         | mg/L  | -0.0000674   | 0.022   | 0.20  | 0.199   | 0.200   | 0.195   | 0.17 to 0.23     | 99.6 | 70 to 130 | 0.143     | 20    |
| AZ05134 | Selenium, Total        | mg/L  | 0.0000290    | 0.0044  | 0.10  | 0.0974  | 0.0990  | 0.103   | 0.085 to 0.115   | 97.4 | 70 to 130 | 1.61      | 20    |
| AZ05134 | Mercury, Total by CVAA | mg/L  | 0.0000812    | 0.0005  | 0.004 | 0.00329 | 0.00317 | 0.00352 | 0.0034 to 0.0046 | 82.3 | 70 to 130 | 3.78      | 20    |
| AZ05134 | Antimony, Total        | mg/L  | 0.000376     | 0.00176 | 0.10  | 0.0849  | 0.0870  | 0.0859  | 0.085 to 0.115   | 84.9 | 70 to 130 | 2.36      | 20    |
| AZ05134 | Chromium, Total        | mg/L  | 0.0000237    | 0.0044  | 0.10  | 0.103   | 0.105   | 0.104   | 0.085 to 0.115   | 103  | 70 to 130 | 2.64      | 20    |
| AZ05134 | Manganese, Dissolved   | mg/L  | 0.00000482   | 0.0022  | 0.10  | 0.101   | 0.101   |         | 0.085 to 0.115   | 101  | 70 to 130 | 0.0106    | 20    |

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# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAPEB  
 Sample Date: 27-Feb-19  
 Customer ID:  
 Delivery Date: 27-Feb-19

Description: Gaston Ash Pond Equipment Blank

Laboratory ID Number: AZ05134

| Sample  | Analysis          | Units | MB      | MB Limit | Spike | MS   | Sample    |      | LCS Limit    | Rec  |           |      | Prec Limit |
|---------|-------------------|-------|---------|----------|-------|------|-----------|------|--------------|------|-----------|------|------------|
|         |                   |       |         |          |       |      | Duplicate | LCS  |              | Rec  | Limit     | Prec |            |
| AZ05133 | Solids, Dissolved | mg/L  | 0.0000  | 25       |       |      | 807       | 55.0 | 40 to 60     |      |           | 2.09 | 5          |
| AZ05134 | Fluoride          | mg/L  | 0.00602 | 0.05     | 2.50  | 2.38 | 0.0349    | 2.45 | 2.25 to 2.75 | 95.2 | 80 to 120 | 0.00 | 20         |
| AZ05134 | Sulfate           | mg/L  | -0.141  | 0.50     | 20.0  | 19.7 | -0.187    | 19.8 | 18 to 22     | 98.5 | 80 to 120 | 0.00 | 20         |
| AZ05134 | Chloride          | mg/L  | -0.0364 | 0.50     | 10.0  | 10.3 | 0.174     | 9.99 | 9 to 11      | 103  | 80 to 120 | 0.00 | 20         |

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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.                                                                                                                  |



# 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, Lauren Parker |
| Site Representative     | Tanisha Fenderson | Requested By | Lauren Parker                           |
| Collector               | Anthony Goggins   | Location     | Gaston Ash Pond                         |

|         |   |        |        |   |                |        |   |            |        |   |     |     |
|---------|---|--------|--------|---|----------------|--------|---|------------|--------|---|-----|-----|
| Bottles | 1 | Metals | 500 mL | 3 | TDS            | 500 mL | 5 | Alkalinity | 250 mL | 7 | N/A | N/A |
|         | 2 | Hg     | 250 mL | 4 | Dissolved Meta | 500 mL | 6 | N/A        | N/A    | 8 | N/A | N/A |

Comments: Alkalinity will be recollected due to temperature exceedance per Dyers request. LBM 12/28/18

| Sample # | Date       | Time  | Bottle Count | Description      | Lab Filter | Lab Id  |
|----------|------------|-------|--------------|------------------|------------|---------|
| MW-23S   | 12/5/18    | 11:53 | 5            | Groundwater      |            | AY28249 |
| FB-1     | 12/05/2018 | 11:42 | 5            | Field Blank      |            | AY28250 |
| MW-23D   | 12/05/2018 | 13:44 | 5            | Groundwater      |            | AY28251 |
| MW-27    | 12/05/2018 | 16:08 | 5            | Groundwater      |            | AY28252 |
| MW-27DUP | 12/05/2018 | 16:08 | 5            | Sample Duplicate |            | AY28253 |
| MW-26    | 12/06/2018 | 09:15 | 5            | Groundwater      |            | AY28254 |
| EB-1     | 12/06/2018 | 10:00 | 5            | Equipment Blank  |            | AY28255 |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |
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|                 |             |                  |
|-----------------|-------------|------------------|
| Relinquished By | Received By | Date/Time        |
|                 |             | 12/06/2018 12:52 |
|                 |             |                  |
|                 |             |                  |

|              |                |                                                 |                                     |
|--------------|----------------|-------------------------------------------------|-------------------------------------|
| SmarTroll ID | 4696-23443-3-2 | All metals and radiological bottles have pH < 2 | <input checked="" type="checkbox"/> |
| Turbidity ID | 5160-26211-1-1 | Cooler Temp                                     | 1.5 degrees C                       |
| Sample Event | 1190           | Thermometer ID                                  | 5408-27568-2-2                      |
|              |                | pH Strip ID                                     | 7114-38608-1-1                      |



# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA 12/13/2018 17:30

|                         |                   |              |                                       |
|-------------------------|-------------------|--------------|---------------------------------------|
| Requested Complete Date | Routine           | Results To   | Dustin Brooks,Greg Dyer,Lauren Parker |
| Site Representative     | Tanisha Fenderson | Requested By | Lauren Parker                         |
| Collector               | Ben Rothschadl    | Location     | Gaston Ash Pond                       |

| Bottles | 1 | Metals           | 500 mL | 3 | Hg  | 250 mL | 5 | Alkalinity | 250 mL | 7 | N/A | N/A |
|---------|---|------------------|--------|---|-----|--------|---|------------|--------|---|-----|-----|
|         | 2 | Dissolved Metals | 500 mL | 4 | TDS | 500 mL | 6 | N/A        | N/A    | 8 | N/A | N/A |

**Comments** Secured Groundwater Samples in GSC Building 8 Shipping Lab at 1730 on December 13, 2018. TDS & Alkalinity will be recollected due to temperature exceedance per Dyer's request. LBM 12/28/18

| Sample # | Date     | Time  | Bottle Count | Description | Lab Filter | Lab Id  |
|----------|----------|-------|--------------|-------------|------------|---------|
| MW-20SV  | 12/13/18 | 14:30 | 5            | Groundwater |            | AY28748 |
|          |          |       |              |             |            |         |
|          |          |       |              |             |            |         |
|          |          |       |              |             |            |         |
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| Relinquished By                                                                                                                 | Received By                                                                                                                                                                                                               | Date/Time        |
|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Benjamin Tyler Rothschadl<br><small>Digitally signed by Benjamin Tyler Rothschadl<br/>Date: 2018.12.13 16:55:24 -06'00'</small> | Laura Midkiff<br><small>Digitally signed by Laura Midkiff<br/>DN: cn=Laura Midkiff, ou=Alabama Power Company, ou=Environmental Affairs, email=lmidkiff@southernco.com, c=US<br/>Date: 2018.12.14 07:42:02 -06'00'</small> | 12/14/2018 07:42 |
|                                                                                                                                 |                                                                                                                                                                                                                           |                  |
|                                                                                                                                 |                                                                                                                                                                                                                           |                  |

|              |                |                                                 |                                     |
|--------------|----------------|-------------------------------------------------|-------------------------------------|
| SmarTroll ID | 6496-34170-1-1 | All metals and radiological bottles have pH < 2 | <input checked="" type="checkbox"/> |
| Turbidity ID | 4677-23342-4-1 | Cooler Temp                                     | 1.0 degrees C                       |
| Sample Event | 1190           | Thermometer ID                                  | 5408-27568-2-2                      |
|              |                | pH Strip ID                                     | 7114-38608-1-1                      |



Chain of Custody  
Groundwater  
APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA 12/17/2018 12:00

|                         |                   |              |                                         |  |
|-------------------------|-------------------|--------------|-----------------------------------------|--|
| Requested Complete Date | Routine           | Results To   | Dustin Brooks, Greg Dyer, Lauren Parker |  |
| Site Representative     | Tanisha Fenderson | Requested By | Lauren Parker                           |  |
| Collector               | Ben Rothschild    | Location     | Gaston Ash Pond                         |  |

|         |   |                |        |   |     |        |   |            |        |   |     |     |
|---------|---|----------------|--------|---|-----|--------|---|------------|--------|---|-----|-----|
| Bottles | 1 | Metals         | 500 mL | 3 | Hg  | 250 mL | 5 | Alkalinity | 250 mL | 7 | N/A | N/A |
|         | 2 | Dissolved Meta | 500 mL | 4 | TDS | 500 mL | 6 | N/A        | N/A    | 8 | N/A | N/A |

Comments

| Sample # | Date     | Time  | Bottle Count | Description | Lab Filter | Lab Id  |
|----------|----------|-------|--------------|-------------|------------|---------|
| MW-17SV  | 12/17/18 | 10:19 | 5            | Groundwater |            | AY28845 |
|          |          |       |              |             |            |         |
|          |          |       |              |             |            |         |
|          |          |       |              |             |            |         |
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|                 |             |                  |
|-----------------|-------------|------------------|
| Relinquished By | Received By | Date/Time        |
|                 |             | 12/17/2018 12:56 |
|                 |             |                  |
|                 |             |                  |

|              |                |                                                 |                                     |
|--------------|----------------|-------------------------------------------------|-------------------------------------|
| SmarTroll ID | 6496-34170-1-1 | All metals and radiological bottles have pH < 2 | <input checked="" type="checkbox"/> |
| Turbidity ID | 4677-23342-4-1 | Cooler Temp                                     | 1.5 degrees C                       |
| Sample Event | 1190           | Thermometer ID                                  | 6603-34819-1-1                      |
|              |                | pH Strip ID                                     | 7114-38608-1-1                      |



**Chain of Custody**  
**Groundwater**  
 APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA 02/27/2019 15:36

|                         |                   |              |                                         |
|-------------------------|-------------------|--------------|-----------------------------------------|
| Requested Complete Date | Routine           | Results To   | Dustin Brooks, Greg Dyer, Lauren Parker |
| Site Representative     | Tanisha Fenderson | Requested By | Lauren Parker                           |
| Collector               | Anthony Goggins   | Location     | Gaston Ash Pond                         |

|         |          |        |                  |        |              |        |       |     |
|---------|----------|--------|------------------|--------|--------------|--------|-------|-----|
| Bottles | 1 Metals | 500 mL | 3 TDS            | 500 mL | 5 Anions     | 250 mL | 7 N/A | N/A |
|         | 2 Hg     | 250 mL | 4 Dissolved Meta | 500 mL | 6 Alkalinity | 250 mL | 8 N/A | N/A |

Comments: Radium Duplicate collected at MW-28H

| Sample #  | Date       | Time  | Bottle Count | Description      | Lab Filter | Lab Id  |
|-----------|------------|-------|--------------|------------------|------------|---------|
| MW-16V    | 2/25/19    | 15:04 | 6            | Groundwater      |            | AZ05127 |
| MW-16VDUP | 02/25/2019 | 15:04 | 6            | Sample Duplicate |            | AZ05128 |
| MW-28H    | 02/26/2019 | 12:45 | 6            | Groundwater      |            | AZ05129 |
| FB-1      | 02/26/2019 | 13:55 | 5            | Field Blank      |            | AZ05130 |
| MW-29H    | 02/26/2019 | 16:12 | 6            | Groundwater      |            | AZ05131 |
| MW-17V    | 02/27/2019 | 10:18 | 6            | Groundwater      |            | AZ05132 |
| MW-20V    | 02/27/2019 | 12:50 | 6            | Groundwater      |            | AZ05133 |
| EB-1      | 02/27/2019 | 13:20 | 5            | Equipment Blank  |            | AZ05134 |
|           |            |       |              |                  |            |         |
|           |            |       |              |                  |            |         |
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| Relinquished By | Received By | Date/Time        |
|                 |             | 02/27/2019 15:45 |
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|              |                |                                                                                     |
|--------------|----------------|-------------------------------------------------------------------------------------|
| 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 | 1190           | 0.3 degrees C                                                                       |
|              |                | Thermometer ID                                                                      |
|              |                | 5408-27568-2-2                                                                      |
|              |                | pH Strip ID                                                                         |
|              |                | 7260-39349-1-1                                                                      |





# 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, Lauren Parker |  |
| Site Representative     | Tanisha Fenderson |  | Requested By | Lauren Parker                           |  |
| Collector               | Anthony Goggins   |  | Location     | Gaston Ash Pond                         |  |

|         |   |        |        |   |     |     |   |     |     |   |     |     |
|---------|---|--------|--------|---|-----|-----|---|-----|-----|---|-----|-----|
| Bottles | 1 | Radium | 1 L    | 3 | N/A | N/A | 5 | N/A | N/A | 7 | N/A | N/A |
|         | 2 | Anions | 250 mL | 4 | N/A | N/A | 6 | N/A | N/A | 8 | N/A | N/A |

Comments: Radium Duplicate collected at MW-23S

| Sample # | Date       | Time  | Bottle Count | Description      | Lab Filter | Lab Id  |
|----------|------------|-------|--------------|------------------|------------|---------|
| MW-23S   | 12/5/18    | 11:53 | 4            | Groundwater      |            | AY28256 |
| FB-1     | 12/05/2018 | 11:42 | 2            | Field Blank      |            | AY28257 |
| MW-23D   | 12/05/2018 | 13:44 | 2            | Groundwater      |            | AY28258 |
| MW-27    | 12/05/2018 | 16:08 | 2            | Groundwater      |            | AY28259 |
| MW-27Dup | 12/05/2018 | 16:08 | 2            | Sample Duplicate |            | AY28260 |
| MW-26    | 12/06/2018 | 09:15 | 2            | Groundwater      |            | AY28261 |
| EB-1     | 12/06/2018 | 10:00 | 2            | Equipment Blank  |            | AY28262 |
|          |            |       |              |                  |            |         |
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|                        |                      |                  |
|------------------------|----------------------|------------------|
| Relinquished By        | Received By          | Date/Time        |
| <i>Anthony Goggins</i> | <i>Lauren Parker</i> | 12/06/2018 12:58 |
|                        |                      |                  |
|                        |                      |                  |

|              |                |
|--------------|----------------|
| SmarTroll ID | 4696-23443-3-2 |
| Turbidity ID | 5160-26211-1-1 |
| Sample Event | 1190           |

All metals and radiological bottles have pH < 2

|                |                |
|----------------|----------------|
| Cooler Temp    | 1.5 degrees C  |
| Thermometer ID | 5408-27568-2-2 |
| pH Strip ID    | 7114-38608-1-1 |



# Chain of Custody

## Groundwater

APC General Testing Laboratory

 Field Complete  
 Lab Complete

 Outside Lab

 Lab ETA 12/13/2018 17:30

|                         |                   |              |                                       |
|-------------------------|-------------------|--------------|---------------------------------------|
| Requested Complete Date | Routine           | Results To   | Dustin Brooks,Greg Dyer,Lauren Parker |
| Site Representative     | Tanisha Fenderson | Requested By | Lauren Parker                         |
| Collector               | Ben Rothschadl    | Location     | Gaston Ash Pond                       |

|         |   |        |        |   |     |     |   |     |     |   |     |     |
|---------|---|--------|--------|---|-----|-----|---|-----|-----|---|-----|-----|
| Bottles | 1 | Radium | 1 L    | 3 | N/A | N/A | 5 | N/A | N/A | 7 | N/A | N/A |
|         | 2 | Anions | 250 mL | 4 | N/A | N/A | 6 | N/A | N/A | 8 | N/A | N/A |

**Comments** Secured Groundwater Samples in GSC Building 8 Shipping Lab at 1730 on December 13, 2018. Anions will be recollected due to temperature exceedance per Dyer's request. LBM 12/28/18

| Sample # | Date     | Time  | Bottle Count | Description | Lab Filter | Lab Id  |
|----------|----------|-------|--------------|-------------|------------|---------|
| MW-20SV  | 12/13/18 | 14:30 | 2            | Groundwater |            | AY28749 |
|          |          |       |              |             |            |         |
|          |          |       |              |             |            |         |
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| Relinquished By                                                                                                                               | Received By                                                                                                                                                                                                                                    | Date/Time               |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| <b>Benjamin Tyler Rothschadl</b><br><small>Digitally signed by Benjamin Tyler Rothschadl<br/>       Date: 2018.12.13 16:57:23 -06'00'</small> | <b>Laura Midkiff</b><br><small>Digitally signed by Laura Midkiff<br/>       DN: cn=Laura Midkiff, ou=Alabama Power Company, ou=Environmental Affairs, email=lmidkiff@southernco.com, c=US<br/>       Date: 2018.12.14 07:42:15 -06'00'</small> | <b>12/14/2018 07:42</b> |
|                                                                                                                                               |                                                                                                                                                                                                                                                |                         |
|                                                                                                                                               |                                                                                                                                                                                                                                                |                         |

|              |                |
|--------------|----------------|
| SmarTroll ID | 6496-34170-1-1 |
| Turbidity ID | 4677-23342-4-1 |
| Sample Event | 1190           |

|                                                 |                                     |
|-------------------------------------------------|-------------------------------------|
| All metals and radiological bottles have pH < 2 | <input checked="" type="checkbox"/> |
| Cooler Temp                                     | 1.0 degrees C                       |
| Thermometer ID                                  | 5408-27568-2-2                      |
| pH Strip ID                                     | 7114-38608-1-1                      |



# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete

Outside Lab

Lab Complete

Lab ETA 12/17/2018 12:00

|                                                             |                   |                                        |                                         |
|-------------------------------------------------------------|-------------------|----------------------------------------|-----------------------------------------|
| Requested Complete Date<br>Site Representative<br>Collector | Routine           | Results To<br>Requested By<br>Location | Dustin Brooks, Greg Dyer, Lauren Parker |
|                                                             | Tanisha Fenderson |                                        | Lauren Parker                           |
|                                                             | Ben Rothschild    |                                        | Gaston Ash Pond                         |

|         |   |        |        |   |     |     |   |     |     |   |     |     |
|---------|---|--------|--------|---|-----|-----|---|-----|-----|---|-----|-----|
| Bottles | 1 | Radium | 1 L    | 3 | N/A | N/A | 5 | N/A | N/A | 7 | N/A | N/A |
|         | 2 | Anions | 250 mL | 4 | N/A | N/A | 6 | N/A | N/A | 8 | N/A | N/A |

Comments

| Sample # | Date     | Time  | Bottle Count | Description | Lab Filter | Lab Id  |
|----------|----------|-------|--------------|-------------|------------|---------|
| MW-17SV  | 12/17/18 | 10:19 | 2            | Groundwater |            | AY28846 |
|          |          |       |              |             |            |         |
|          |          |       |              |             |            |         |
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| Relinquished By | Received By | Date/Time        |
|                 |             | 12/17/2018 12:55 |
|                 |             |                  |
|                 |             |                  |

|              |                |
|--------------|----------------|
| SmarTroll ID | 6496-34170-1-1 |
| Turbidity ID | 4677-23342-4-1 |
| Sample Event | 1190           |

|                                                 |                                     |
|-------------------------------------------------|-------------------------------------|
| All metals and radiological bottles have pH < 2 | <input checked="" type="checkbox"/> |
| Cooler Temp                                     | 1.5 degrees C                       |
| Thermometer ID                                  | 6603-34819-1-1                      |
| pH Strip ID                                     | 7114-38608-1-1                      |



# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA **02/27/2019 15:36**

|                         |                   |              |                                         |
|-------------------------|-------------------|--------------|-----------------------------------------|
| Requested Complete Date | Routine           | Results To   | Dustin Brooks, Greg Dyer, Lauren Parker |
| Site Representative     | Tanisha Fenderson | Requested By | Lauren Parker                           |
| Collector               | Anthony Goggins   | Location     | Gaston 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-28H

| Sample #  | Date       | Time  | Bottle Count | Description      | Lab Filter | Lab Id  |
|-----------|------------|-------|--------------|------------------|------------|---------|
| MW-16V    | 2/25/19    | 15:04 | 1            | Groundwater      |            | AZ05135 |
| MW-16VDUP | 02/25/2019 | 15:04 | 1            | Sample Duplicate |            | AZ05136 |
| MW-28H    | 02/26/2019 | 12:45 | 3            | Groundwater      |            | AZ05137 |
| FB-1      | 02/26/2019 | 13:55 | 1            | Field Blank      |            | AZ05138 |
| MW-29H    | 02/26/2019 | 16:12 | 1            | Groundwater      |            | AZ05139 |
| MW-17V    | 02/27/2019 | 10:18 | 1            | Groundwater      |            | AZ05140 |
| MW-20V    | 02/27/2019 | 12:50 | 1            | Groundwater      |            | AZ05141 |
| EB-1      | 02/27/2019 | 13:20 | 1            | Equipment Blank  |            | AZ05142 |
|           |            |       |              |                  |            |         |
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|-----------------|-------------|------------------|
| Relinquished By | Received By | Date/Time        |
|                 |             | 02/27/2019 15:45 |
|                 |             |                  |
|                 |             |                  |

|                |                |                                                                                     |
|----------------|----------------|-------------------------------------------------------------------------------------|
| SmarTroll ID   | 7151-38849-2-1 | All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/> |
| Turbidity ID   | 5160-26211-1-1 |                                                                                     |
| Sample Event   | 1190           |                                                                                     |
| Cooler Temp    | N/A            |                                                                                     |
| Thermometer ID | N/A            |                                                                                     |
| pH Strip ID    | 7260-39349-1-1 |                                                                                     |

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-163353-1

TestAmerica Sample Delivery Group: Gaston Ash Pond 1190

Client Project/Site: CCR Plant Gaston

Revision: 2

For:

Alabama Power General Test Laboratory

744 County Rd 87

GSC #8

Calera, Alabama 35040

Attn: Laura Midkiff



Authorized for release by:

1/8/2019 2:46:04 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

[cheyenne.whitmire@testamericainc.com](mailto: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 Gaston

TestAmerica Job ID: 400-163353-1  
SDG: Gaston Ash Pond 1190

**Job ID: 400-163353-1**

**Laboratory: TestAmerica Pensacola**

## Narrative

### Job Narrative 400-163353-1

#### General Chemistry

Method(s) SM 4500 Cl- E: The following samples were diluted to bring the concentration of target analytes within the calibration range: AY28256 MW-23S (400-163353-1), AY28258 MW-23D (400-163353-3), AY28259 MW-27 (400-163353-4) and AY28260 MW-27 DUP (400-163353-5). Elevated reporting limits (RLs) are provided.

Method(s) SM 4500 SO4 E: Due to the concentration of sulfates in the parent sample the MS/MSD were diluted after the spike. The spike amounts were adjusted by the dilution factor. (400-163353-A-1 MS), (400-163353-A-1 MSD), (400-163797-F-4 MS) and (400-163797-F-4 MSD)

Method(s) SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 425037 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) SM 4500 SO4 E: The following samples were diluted to bring the concentration of target analytes within the calibration range: AY28256 MW-23S (400-163353-1), AY28258 MW-23D (400-163353-3), AY28259 MW-27 (400-163353-4), AY28260 MW-27 DUP (400-163353-5), AY28261 MW-26 (400-163353-6), AY28749MW-20SV (400-163353-8), AY28846 MW-17SV (400-163353-9), (240-106004-B-1), (240-106004-B-1 MS), (240-106004-B-1 MSD), AY28663 PW-18-9 (400-163353-10), AY28664 PW-18-3 (400-163353-11), AY28665 PW-18-3 DUP (400-163353-12), AY28668 PW-18-6B (400-163353-15), (400-163353-A-1 MS), (400-163353-A-1 MSD), (400-163797-F-4), (400-163797-F-4 MS) and (400-163797-F-4 MSD). Elevated reporting limits (RLs) are provided.

Method(s) SM 4500 SO4 E: Due to the concentration of sulfates in the parent sample the MS/MSD were diluted after the spike. The spike amounts were adjusted by the dilution factor. (240-106004-B-1 MS) and (240-106004-B-1 MSD)

Method(s) SM 4500 SO4 E: The matrix spike duplicate (MSD) recoveries for analytical batch 425083 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Report revised to remove: AY28749 MW-20SV (400-163353-8). Client will be resampling.

# Detection Summary

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

TestAmerica Job ID: 400-163353-1  
SDG: Gaston Ash Pond 1190

## Client Sample ID: AY28256 MW-23S

## Lab Sample ID: 400-163353-1

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | Dil Fac | D | Method        | Prep Type |
|----------|--------|-----------|------|-------|------|---------|---|---------------|-----------|
| Chloride | 57     |           | 4.0  | 2.8   | mg/L | 2       |   | SM 4500 Cl- E | Total/NA  |
| Fluoride | 0.050  | J         | 0.10 | 0.032 | mg/L | 1       |   | SM 4500 F C   | Total/NA  |
| Sulfate  | 76     |           | 25   | 7.0   | mg/L | 5       |   | SM 4500 SO4 E | Total/NA  |

## Client Sample ID: AY28257 FB-1

## Lab Sample ID: 400-163353-2

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | Dil Fac | D | Method      | Prep Type |
|----------|--------|-----------|------|-------|------|---------|---|-------------|-----------|
| Fluoride | 0.050  | J         | 0.10 | 0.032 | mg/L | 1       |   | SM 4500 F C | Total/NA  |

## Client Sample ID: AY28258 MW-23D

## Lab Sample ID: 400-163353-3

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | Dil Fac | D | Method        | Prep Type |
|----------|--------|-----------|------|-------|------|---------|---|---------------|-----------|
| Chloride | 69     |           | 4.0  | 2.8   | mg/L | 2       |   | SM 4500 Cl- E | Total/NA  |
| Fluoride | 0.040  | J         | 0.10 | 0.032 | mg/L | 1       |   | SM 4500 F C   | Total/NA  |
| Sulfate  | 110    |           | 25   | 7.0   | mg/L | 5       |   | SM 4500 SO4 E | Total/NA  |

## Client Sample ID: AY28259 MW-27

## Lab Sample ID: 400-163353-4

| Analyte  | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method        | Prep Type |
|----------|--------|-----------|-----|-----|------|---------|---|---------------|-----------|
| Chloride | 56     |           | 4.0 | 2.8 | mg/L | 2       |   | SM 4500 Cl- E | Total/NA  |
| Sulfate  | 66     |           | 25  | 7.0 | mg/L | 5       |   | SM 4500 SO4 E | Total/NA  |

## Client Sample ID: AY28260 MW-27 DUP

## Lab Sample ID: 400-163353-5

| Analyte  | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method        | Prep Type |
|----------|--------|-----------|-----|-----|------|---------|---|---------------|-----------|
| Chloride | 56     |           | 4.0 | 2.8 | mg/L | 2       |   | SM 4500 Cl- E | Total/NA  |
| Sulfate  | 65     |           | 25  | 7.0 | mg/L | 5       |   | SM 4500 SO4 E | Total/NA  |

## Client Sample ID: AY28261 MW-26

## Lab Sample ID: 400-163353-6

| Analyte  | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method        | Prep Type |
|----------|--------|-----------|-----|-----|------|---------|---|---------------|-----------|
| Chloride | 43     |           | 2.0 | 1.4 | mg/L | 1       |   | SM 4500 Cl- E | Total/NA  |
| Sulfate  | 150    |           | 25  | 7.0 | mg/L | 5       |   | SM 4500 SO4 E | Total/NA  |

## Client Sample ID: AY28262 EB-1

## Lab Sample ID: 400-163353-7

No Detections.

## Client Sample ID: AY28846 MW-17SV

## Lab Sample ID: 400-163353-9

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | Dil Fac | D | Method        | Prep Type |
|----------|--------|-----------|------|-------|------|---------|---|---------------|-----------|
| Chloride | 22     |           | 2.0  | 1.4   | mg/L | 1       |   | SM 4500 Cl- E | Total/NA  |
| Fluoride | 0.10   |           | 0.10 | 0.032 | mg/L | 1       |   | SM 4500 F C   | Total/NA  |
| Sulfate  | 220    |           | 200  | 56    | mg/L | 40      |   | SM 4500 SO4 E | Total/NA  |

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola



# Method Summary

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

TestAmerica Job ID: 400-163353-1  
SDG: Gaston Ash Pond 1190

| Method        | Method Description | Protocol | Laboratory |
|---------------|--------------------|----------|------------|
| SM 4500 Cl- E | Chloride, Total    | SM       | TAL PEN    |
| SM 4500 F C   | Fluoride           | SM       | TAL PEN    |
| SM 4500 SO4 E | Sulfate, Total     | SM       | TAL PEN    |

**Protocol References:**

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

**Laboratory References:**

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

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# Sample Summary

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

TestAmerica Job ID: 400-163353-1  
SDG: Gaston Ash Pond 1190

| Lab Sample ID | Client Sample ID  | Matrix | Collected      | Received       |
|---------------|-------------------|--------|----------------|----------------|
| 400-163353-1  | AY28256 MW-23S    | Water  | 12/05/18 11:53 | 12/11/18 09:18 |
| 400-163353-2  | AY28257 FB-1      | Water  | 12/05/18 11:42 | 12/11/18 09:18 |
| 400-163353-3  | AY28258 MW-23D    | Water  | 12/05/18 13:44 | 12/11/18 09:18 |
| 400-163353-4  | AY28259 MW-27     | Water  | 12/05/18 16:08 | 12/11/18 09:18 |
| 400-163353-5  | AY28260 MW-27 DUP | Water  | 12/05/18 16:08 | 12/11/18 09:18 |
| 400-163353-6  | AY28261 MW-26     | Water  | 12/06/18 09:15 | 12/11/18 09:18 |
| 400-163353-7  | AY28262 EB-1      | Water  | 12/06/18 10:00 | 12/11/18 09:18 |
| 400-163353-9  | AY28846 MW-17SV   | Water  | 12/17/18 10:19 | 12/19/18 09:47 |

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- 12
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# Client Sample Results

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

TestAmerica Job ID: 400-163353-1  
 SDG: Gaston Ash Pond 1190

**Client Sample ID: AY28256 MW-23S**

**Lab Sample ID: 400-163353-1**

Date Collected: 12/05/18 11:53

Matrix: Water

Date Received: 12/11/18 09:18

### General Chemistry

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 57     |           | 4.0  | 2.8   | mg/L |   |          | 12/28/18 10:36 | 2       |
| Fluoride | 0.050  | J         | 0.10 | 0.032 | mg/L |   |          | 12/21/18 10:32 | 1       |
| Sulfate  | 76     |           | 25   | 7.0   | mg/L |   |          | 12/28/18 16:14 | 5       |

**Client Sample ID: AY28257 FB-1**

**Lab Sample ID: 400-163353-2**

Date Collected: 12/05/18 11:42

Matrix: Water

Date Received: 12/11/18 09:18

### General Chemistry

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | <1.4   |           | 2.0  | 1.4   | mg/L |   |          | 12/28/18 11:24 | 1       |
| Fluoride | 0.050  | J         | 0.10 | 0.032 | mg/L |   |          | 12/21/18 10:34 | 1       |
| Sulfate  | <1.4   |           | 5.0  | 1.4   | mg/L |   |          | 12/28/18 15:46 | 1       |

**Client Sample ID: AY28258 MW-23D**

**Lab Sample ID: 400-163353-3**

Date Collected: 12/05/18 13:44

Matrix: Water

Date Received: 12/11/18 09:18

### General Chemistry

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 69     |           | 4.0  | 2.8   | mg/L |   |          | 12/28/18 12:35 | 2       |
| Fluoride | 0.040  | J         | 0.10 | 0.032 | mg/L |   |          | 12/21/18 10:37 | 1       |
| Sulfate  | 110    |           | 25   | 7.0   | mg/L |   |          | 12/28/18 16:10 | 5       |

**Client Sample ID: AY28259 MW-27**

**Lab Sample ID: 400-163353-4**

Date Collected: 12/05/18 16:08

Matrix: Water

Date Received: 12/11/18 09:18

### General Chemistry

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 56     |           | 4.0  | 2.8   | mg/L |   |          | 12/28/18 12:35 | 2       |
| Fluoride | <0.032 |           | 0.10 | 0.032 | mg/L |   |          | 12/21/18 10:41 | 1       |
| Sulfate  | 66     |           | 25   | 7.0   | mg/L |   |          | 12/28/18 16:10 | 5       |

**Client Sample ID: AY28260 MW-27 DUP**

**Lab Sample ID: 400-163353-5**

Date Collected: 12/05/18 16:08

Matrix: Water

Date Received: 12/11/18 09:18

### General Chemistry

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 56     |           | 4.0  | 2.8   | mg/L |   |          | 12/28/18 12:35 | 2       |
| Fluoride | <0.032 |           | 0.10 | 0.032 | mg/L |   |          | 12/21/18 10:45 | 1       |
| Sulfate  | 65     |           | 25   | 7.0   | mg/L |   |          | 12/28/18 16:14 | 5       |

# Client Sample Results

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

TestAmerica Job ID: 400-163353-1  
 SDG: Gaston Ash Pond 1190

**Client Sample ID: AY28261 MW-26**

**Date Collected: 12/06/18 09:15**

**Date Received: 12/11/18 09:18**

**Lab Sample ID: 400-163353-6**

**Matrix: Water**

**General Chemistry**

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 43     |           | 2.0  | 1.4   | mg/L |   |          | 12/28/18 11:27 | 1       |
| Fluoride | <0.032 |           | 0.10 | 0.032 | mg/L |   |          | 12/21/18 12:08 | 1       |
| Sulfate  | 150    |           | 25   | 7.0   | mg/L |   |          | 12/28/18 16:14 | 5       |

**Client Sample ID: AY28262 EB-1**

**Date Collected: 12/06/18 10:00**

**Date Received: 12/11/18 09:18**

**Lab Sample ID: 400-163353-7**

**Matrix: Water**

**General Chemistry**

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | <1.4   |           | 2.0  | 1.4   | mg/L |   |          | 12/28/18 11:27 | 1       |
| Fluoride | <0.032 |           | 0.10 | 0.032 | mg/L |   |          | 12/21/18 12:20 | 1       |
| Sulfate  | <1.4   |           | 5.0  | 1.4   | mg/L |   |          | 12/28/18 15:46 | 1       |

**Client Sample ID: AY28846 MW-17SV**

**Date Collected: 12/17/18 10:19**

**Date Received: 12/19/18 09:47**

**Lab Sample ID: 400-163353-9**

**Matrix: Water**

**General Chemistry**

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 22     |           | 2.0  | 1.4   | mg/L |   |          | 12/28/18 13:50 | 1       |
| Fluoride | 0.10   |           | 0.10 | 0.032 | mg/L |   |          | 12/24/18 15:00 | 1       |
| Sulfate  | 220    |           | 200  | 56    | mg/L |   |          | 12/28/18 17:37 | 40      |

# Definitions/Glossary

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

TestAmerica Job ID: 400-163353-1  
SDG: Gaston Ash Pond 1190

## Qualifiers

### General Chemistry

| Qualifier | Qualifier Description                                                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.                                            |
| 4         | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| PQL            | Practical Quantitation Limit                                                                                |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |

# Lab Chronicle

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

TestAmerica Job ID: 400-163353-1  
 SDG: Gaston Ash Pond 1190

**Client Sample ID: AY28256 MW-23S**

**Lab Sample ID: 400-163353-1**

**Date Collected: 12/05/18 11:53**

**Matrix: Water**

**Date Received: 12/11/18 09:18**

| Prep Type | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | SM 4500 Cl- E |     | 2               | 424956       | 12/28/18 10:36       | RRC     | TAL PEN |
| Total/NA  | Analysis   | SM 4500 F C   |     | 1               | 424224       | 12/21/18 10:32       | BAB     | TAL PEN |
| Total/NA  | Analysis   | SM 4500 SO4 E |     | 5               | 425037       | 12/28/18 16:14       | RRC     | TAL PEN |

**Client Sample ID: AY28257 FB-1**

**Lab Sample ID: 400-163353-2**

**Date Collected: 12/05/18 11:42**

**Matrix: Water**

**Date Received: 12/11/18 09:18**

| Prep Type | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | SM 4500 Cl- E |     | 1               | 424979       | 12/28/18 11:24       | RRC     | TAL PEN |
| Total/NA  | Analysis   | SM 4500 F C   |     | 1               | 424224       | 12/21/18 10:34       | BAB     | TAL PEN |
| Total/NA  | Analysis   | SM 4500 SO4 E |     | 1               | 425037       | 12/28/18 15:46       | RRC     | TAL PEN |

**Client Sample ID: AY28258 MW-23D**

**Lab Sample ID: 400-163353-3**

**Date Collected: 12/05/18 13:44**

**Matrix: Water**

**Date Received: 12/11/18 09:18**

| Prep Type | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | SM 4500 Cl- E |     | 2               | 424979       | 12/28/18 12:35       | RRC     | TAL PEN |
| Total/NA  | Analysis   | SM 4500 F C   |     | 1               | 424224       | 12/21/18 10:37       | BAB     | TAL PEN |
| Total/NA  | Analysis   | SM 4500 SO4 E |     | 5               | 425037       | 12/28/18 16:10       | RRC     | TAL PEN |

**Client Sample ID: AY28259 MW-27**

**Lab Sample ID: 400-163353-4**

**Date Collected: 12/05/18 16:08**

**Matrix: Water**

**Date Received: 12/11/18 09:18**

| Prep Type | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | SM 4500 Cl- E |     | 2               | 424979       | 12/28/18 12:35       | RRC     | TAL PEN |
| Total/NA  | Analysis   | SM 4500 F C   |     | 1               | 424224       | 12/21/18 10:41       | BAB     | TAL PEN |
| Total/NA  | Analysis   | SM 4500 SO4 E |     | 5               | 425037       | 12/28/18 16:10       | RRC     | TAL PEN |

**Client Sample ID: AY28260 MW-27 DUP**

**Lab Sample ID: 400-163353-5**

**Date Collected: 12/05/18 16:08**

**Matrix: Water**

**Date Received: 12/11/18 09:18**

| Prep Type | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | SM 4500 Cl- E |     | 2               | 424979       | 12/28/18 12:35       | RRC     | TAL PEN |
| Total/NA  | Analysis   | SM 4500 F C   |     | 1               | 424224       | 12/21/18 10:45       | BAB     | TAL PEN |
| Total/NA  | Analysis   | SM 4500 SO4 E |     | 5               | 425037       | 12/28/18 16:14       | RRC     | TAL PEN |

# Lab Chronicle

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

TestAmerica Job ID: 400-163353-1  
 SDG: Gaston Ash Pond 1190

**Client Sample ID: AY28261 MW-26**

**Lab Sample ID: 400-163353-6**

**Date Collected: 12/06/18 09:15**

**Matrix: Water**

**Date Received: 12/11/18 09:18**

| Prep Type | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | SM 4500 Cl- E |     | 1               | 424979       | 12/28/18 11:27       | RRC     | TAL PEN |
| Total/NA  | Analysis   | SM 4500 F C   |     | 1               | 424243       | 12/21/18 12:08       | BAB     | TAL PEN |
| Total/NA  | Analysis   | SM 4500 SO4 E |     | 5               | 425037       | 12/28/18 16:14       | RRC     | TAL PEN |

**Client Sample ID: AY28262 EB-1**

**Lab Sample ID: 400-163353-7**

**Date Collected: 12/06/18 10:00**

**Matrix: Water**

**Date Received: 12/11/18 09:18**

| Prep Type | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | SM 4500 Cl- E |     | 1               | 424979       | 12/28/18 11:27       | RRC     | TAL PEN |
| Total/NA  | Analysis   | SM 4500 F C   |     | 1               | 424243       | 12/21/18 12:20       | BAB     | TAL PEN |
| Total/NA  | Analysis   | SM 4500 SO4 E |     | 1               | 425037       | 12/28/18 15:46       | RRC     | TAL PEN |

**Client Sample ID: AY28846 MW-17SV**

**Lab Sample ID: 400-163353-9**

**Date Collected: 12/17/18 10:19**

**Matrix: Water**

**Date Received: 12/19/18 09:47**

| Prep Type | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | SM 4500 Cl- E |     | 1               | 425000       | 12/28/18 13:50       | RRC     | TAL PEN |
| Total/NA  | Analysis   | SM 4500 F C   |     | 1               | 424579       | 12/24/18 15:00       | BAB     | TAL PEN |
| Total/NA  | Analysis   | SM 4500 SO4 E |     | 40              | 425083       | 12/28/18 17:37       | RRC     | TAL PEN |

**Laboratory References:**

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

# QC Association Summary

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

TestAmerica Job ID: 400-163353-1  
SDG: Gaston Ash Pond 1190

## General Chemistry

### Analysis Batch: 424224

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 400-163353-1        | AY28256 MW-23S         | Total/NA  | Water  | SM 4500 F C |            |
| 400-163353-2        | AY28257 FB-1           | Total/NA  | Water  | SM 4500 F C |            |
| 400-163353-3        | AY28258 MW-23D         | Total/NA  | Water  | SM 4500 F C |            |
| 400-163353-4        | AY28259 MW-27          | Total/NA  | Water  | SM 4500 F C |            |
| 400-163353-5        | AY28260 MW-27 DUP      | Total/NA  | Water  | SM 4500 F C |            |
| MB 400-424224/3     | Method Blank           | Total/NA  | Water  | SM 4500 F C |            |
| LCS 400-424224/4    | Lab Control Sample     | Total/NA  | Water  | SM 4500 F C |            |
| 400-163351-A-12 MS  | Matrix Spike           | Total/NA  | Water  | SM 4500 F C |            |
| 400-163351-A-12 MSD | Matrix Spike Duplicate | Total/NA  | Water  | SM 4500 F C |            |
| 400-163351-A-19 DU  | Duplicate              | Total/NA  | Water  | SM 4500 F C |            |

### Analysis Batch: 424243

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method      | Prep Batch |
|-------------------|--------------------|-----------|--------|-------------|------------|
| 400-163353-6      | AY28261 MW-26      | Total/NA  | Water  | SM 4500 F C |            |
| 400-163353-7      | AY28262 EB-1       | Total/NA  | Water  | SM 4500 F C |            |
| MB 400-424243/3   | Method Blank       | Total/NA  | Water  | SM 4500 F C |            |
| LCS 400-424243/4  | Lab Control Sample | Total/NA  | Water  | SM 4500 F C |            |
| 400-163353-6 MS   | AY28261 MW-26      | Total/NA  | Water  | SM 4500 F C |            |
| 400-163353-6 MSD  | AY28261 MW-26      | Total/NA  | Water  | SM 4500 F C |            |
| 400-162757-E-6 DU | Duplicate          | Total/NA  | Water  | SM 4500 F C |            |

### Analysis Batch: 424579

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 400-163353-9       | AY28846 MW-17SV        | Total/NA  | Water  | SM 4500 F C |            |
| MB 400-424579/3    | Method Blank           | Total/NA  | Water  | SM 4500 F C |            |
| LCS 400-424579/4   | Lab Control Sample     | Total/NA  | Water  | SM 4500 F C |            |
| 400-162816-E-1 MS  | Matrix Spike           | Total/NA  | Water  | SM 4500 F C |            |
| 400-162816-E-1 MSD | Matrix Spike Duplicate | Total/NA  | Water  | SM 4500 F C |            |
| 400-163353-A-8 DU  | 400-163353-A-8 DU      | Total/NA  | Water  | SM 4500 F C |            |

### Analysis Batch: 424956

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method        | Prep Batch |
|--------------------|------------------------|-----------|--------|---------------|------------|
| 400-163353-1       | AY28256 MW-23S         | Total/NA  | Water  | SM 4500 CI- E |            |
| MB 400-424956/6    | Method Blank           | Total/NA  | Water  | SM 4500 CI- E |            |
| LCS 400-424956/7   | Lab Control Sample     | Total/NA  | Water  | SM 4500 CI- E |            |
| MRL 400-424956/3   | Lab Control Sample     | Total/NA  | Water  | SM 4500 CI- E |            |
| 400-163799-F-3 MS  | Matrix Spike           | Total/NA  | Water  | SM 4500 CI- E |            |
| 400-163799-F-3 MSD | Matrix Spike Duplicate | Total/NA  | Water  | SM 4500 CI- E |            |

### Analysis Batch: 424979

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method        | Prep Batch |
|------------------|--------------------|-----------|--------|---------------|------------|
| 400-163353-2     | AY28257 FB-1       | Total/NA  | Water  | SM 4500 CI- E |            |
| 400-163353-3     | AY28258 MW-23D     | Total/NA  | Water  | SM 4500 CI- E |            |
| 400-163353-4     | AY28259 MW-27      | Total/NA  | Water  | SM 4500 CI- E |            |
| 400-163353-5     | AY28260 MW-27 DUP  | Total/NA  | Water  | SM 4500 CI- E |            |
| 400-163353-6     | AY28261 MW-26      | Total/NA  | Water  | SM 4500 CI- E |            |
| 400-163353-7     | AY28262 EB-1       | Total/NA  | Water  | SM 4500 CI- E |            |
| MB 400-424979/6  | Method Blank       | Total/NA  | Water  | SM 4500 CI- E |            |
| LCS 400-424979/7 | Lab Control Sample | Total/NA  | Water  | SM 4500 CI- E |            |
| MRL 400-424979/3 | Lab Control Sample | Total/NA  | Water  | SM 4500 CI- E |            |
| 400-163353-2 MS  | AY28257 FB-1       | Total/NA  | Water  | SM 4500 CI- E |            |

TestAmerica Pensacola



# QC Association Summary

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

TestAmerica Job ID: 400-163353-1  
 SDG: Gaston Ash Pond 1190

## General Chemistry (Continued)

### Analysis Batch: 424979 (Continued)

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method        | Prep Batch |
|------------------|------------------|-----------|--------|---------------|------------|
| 400-163353-2 MSD | AY28257 FB-1     | Total/NA  | Water  | SM 4500 Cl- E |            |

### Analysis Batch: 425000

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method        | Prep Batch |
|------------------|--------------------|-----------|--------|---------------|------------|
| 400-163353-9     | AY28846 MW-17SV    | Total/NA  | Water  | SM 4500 Cl- E |            |
| MB 400-425000/6  | Method Blank       | Total/NA  | Water  | SM 4500 Cl- E |            |
| LCS 400-425000/7 | Lab Control Sample | Total/NA  | Water  | SM 4500 Cl- E |            |
| MRL 400-425000/3 | Lab Control Sample | Total/NA  | Water  | SM 4500 Cl- E |            |
| 400-163353-9 MS  | AY28846 MW-17SV    | Total/NA  | Water  | SM 4500 Cl- E |            |
| 400-163353-9 MSD | AY28846 MW-17SV    | Total/NA  | Water  | SM 4500 Cl- E |            |

### Analysis Batch: 425037

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method        | Prep Batch |
|------------------|--------------------|-----------|--------|---------------|------------|
| 400-163353-1     | AY28256 MW-23S     | Total/NA  | Water  | SM 4500 SO4 E |            |
| 400-163353-2     | AY28257 FB-1       | Total/NA  | Water  | SM 4500 SO4 E |            |
| 400-163353-3     | AY28258 MW-23D     | Total/NA  | Water  | SM 4500 SO4 E |            |
| 400-163353-4     | AY28259 MW-27      | Total/NA  | Water  | SM 4500 SO4 E |            |
| 400-163353-5     | AY28260 MW-27 DUP  | Total/NA  | Water  | SM 4500 SO4 E |            |
| 400-163353-6     | AY28261 MW-26      | Total/NA  | Water  | SM 4500 SO4 E |            |
| 400-163353-7     | AY28262 EB-1       | Total/NA  | Water  | SM 4500 SO4 E |            |
| MB 400-425037/6  | Method Blank       | Total/NA  | Water  | SM 4500 SO4 E |            |
| LCS 400-425037/7 | Lab Control Sample | Total/NA  | Water  | SM 4500 SO4 E |            |
| MRL 400-425037/3 | Lab Control Sample | Total/NA  | Water  | SM 4500 SO4 E |            |
| 400-163353-1 MS  | AY28256 MW-23S     | Total/NA  | Water  | SM 4500 SO4 E |            |
| 400-163353-1 MSD | AY28256 MW-23S     | Total/NA  | Water  | SM 4500 SO4 E |            |

### Analysis Batch: 425083

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method        | Prep Batch |
|--------------------|------------------------|-----------|--------|---------------|------------|
| 400-163353-9       | AY28846 MW-17SV        | Total/NA  | Water  | SM 4500 SO4 E |            |
| MB 400-425083/6    | Method Blank           | Total/NA  | Water  | SM 4500 SO4 E |            |
| LCS 400-425083/7   | Lab Control Sample     | Total/NA  | Water  | SM 4500 SO4 E |            |
| MRL 400-425083/3   | Lab Control Sample     | Total/NA  | Water  | SM 4500 SO4 E |            |
| 400-163662-G-1 MS  | Matrix Spike           | Total/NA  | Water  | SM 4500 SO4 E |            |
| 400-163662-G-1 MSD | Matrix Spike Duplicate | Total/NA  | Water  | SM 4500 SO4 E |            |

# QC Sample Results

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

TestAmerica Job ID: 400-163353-1  
 SDG: Gaston Ash Pond 1190

## Method: SM 4500 Cl- E - Chloride, Total

**Lab Sample ID: MB 400-424956/6**  
**Matrix: Water**  
**Analysis Batch: 424956**

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

| Analyte  | MB Result | MB Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Chloride | <1.4      |              | 2.0 | 1.4 | mg/L |   |          | 12/28/18 09:56 | 1       |

**Lab Sample ID: LCS 400-424956/7**  
**Matrix: Water**  
**Analysis Batch: 424956**

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

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Chloride | 30.0        | 31.9       |               | mg/L |   | 106  | 90 - 110     |

**Lab Sample ID: MRL 400-424956/3**  
**Matrix: Water**  
**Analysis Batch: 424956**

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

| Analyte  | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Chloride | 2.00        | 1.95       | J             | mg/L |   | 97   | 50 - 150     |

**Lab Sample ID: 400-163799-F-3 MS**  
**Matrix: Water**  
**Analysis Batch: 424956**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Chloride | 9.8           |                  | 10.0        | 21.0      |              | mg/L |   | 112  | 73 - 120     |

**Lab Sample ID: 400-163799-F-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 424956**

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

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-------|
| Chloride | 9.8           |                  | 10.0        | 20.6       |               | mg/L |   | 108  | 73 - 120     | 2   | 8     |

**Lab Sample ID: MB 400-424979/6**  
**Matrix: Water**  
**Analysis Batch: 424979**

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

| Analyte  | MB Result | MB Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Chloride | <1.4      |              | 2.0 | 1.4 | mg/L |   |          | 12/28/18 11:24 | 1       |

**Lab Sample ID: LCS 400-424979/7**  
**Matrix: Water**  
**Analysis Batch: 424979**

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

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Chloride | 30.0        | 32.1       |               | mg/L |   | 107  | 90 - 110     |

**Lab Sample ID: MRL 400-424979/3**  
**Matrix: Water**  
**Analysis Batch: 424979**

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

| Analyte  | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Chloride | 2.00        | 1.87       | J             | mg/L |   | 93   | 50 - 150     |

TestAmerica Pensacola

# QC Sample Results

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

TestAmerica Job ID: 400-163353-1  
 SDG: Gaston Ash Pond 1190

**Lab Sample ID: 400-163353-2 MS**  
**Matrix: Water**  
**Analysis Batch: 424979**

**Client Sample ID: AY28257 FB-1**  
**Prep Type: Total/NA**

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Chloride | <1.4          |                  | 10.0        | 10.9      |              | mg/L |   | 109  | 73 - 120     |

**Lab Sample ID: 400-163353-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 424979**

**Client Sample ID: AY28257 FB-1**  
**Prep Type: Total/NA**

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Chloride | <1.4          |                  | 10.0        | 10.9       |               | mg/L |   | 109  | 73 - 120     | 0   | 8         |

**Lab Sample ID: MB 400-425000/6**  
**Matrix: Water**  
**Analysis Batch: 425000**

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

| Analyte  | MB Result | MB Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Chloride | <1.4      |              | 2.0 | 1.4 | mg/L |   |          | 12/28/18 13:50 | 1       |

**Lab Sample ID: LCS 400-425000/7**  
**Matrix: Water**  
**Analysis Batch: 425000**

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

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Chloride | 30.0        | 31.7       |               | mg/L |   | 106  | 90 - 110     |

**Lab Sample ID: MRL 400-425000/3**  
**Matrix: Water**  
**Analysis Batch: 425000**

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

| Analyte  | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Chloride | 2.00        | 1.98       | J             | mg/L |   | 99   | 50 - 150     |

**Lab Sample ID: 400-163353-9 MS**  
**Matrix: Water**  
**Analysis Batch: 425000**

**Client Sample ID: AY28846 MW-17SV**  
**Prep Type: Total/NA**

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Chloride | 22            |                  | 10.0        | 32.4      |              | mg/L |   | 101  | 73 - 120     |

**Lab Sample ID: 400-163353-9 MSD**  
**Matrix: Water**  
**Analysis Batch: 425000**

**Client Sample ID: AY28846 MW-17SV**  
**Prep Type: Total/NA**

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Chloride | 22            |                  | 10.0        | 32.6       |               | mg/L |   | 103  | 73 - 120     | 1   | 8         |

# QC Sample Results

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

TestAmerica Job ID: 400-163353-1  
 SDG: Gaston Ash Pond 1190

## Method: SM 4500 F C - Fluoride

**Lab Sample ID: MB 400-424224/3**  
**Matrix: Water**  
**Analysis Batch: 424224**

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

| Analyte  | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Fluoride | <0.032    |              | 0.10 | 0.032 | mg/L |   |          | 12/21/18 09:20 | 1       |

**Lab Sample ID: LCS 400-424224/4**  
**Matrix: Water**  
**Analysis Batch: 424224**

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

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Fluoride | 4.00        | 3.91       |               | mg/L |   | 98   | 90 - 110     |

**Lab Sample ID: 400-163351-A-12 MS**  
**Matrix: Water**  
**Analysis Batch: 424224**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Fluoride | 0.060         | J                | 1.00        | 1.14      |              | mg/L |   | 108  | 75 - 125     |

**Lab Sample ID: 400-163351-A-12 MSD**  
**Matrix: Water**  
**Analysis Batch: 424224**

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

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Fluoride | 0.060         | J                | 1.00        | 1.14       |               | mg/L |   | 108  | 75 - 125     | 0   | 4         |

**Lab Sample ID: 400-163351-A-19 DU**  
**Matrix: Water**  
**Analysis Batch: 424224**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**

| Analyte  | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|----------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Fluoride | 0.040         | J                | 0.0400    | J            | mg/L |   | 0   | 4         |

**Lab Sample ID: MB 400-424243/3**  
**Matrix: Water**  
**Analysis Batch: 424243**

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

| Analyte  | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Fluoride | <0.032    |              | 0.10 | 0.032 | mg/L |   |          | 12/21/18 11:53 | 1       |

**Lab Sample ID: LCS 400-424243/4**  
**Matrix: Water**  
**Analysis Batch: 424243**

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

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Fluoride | 4.00        | 3.84       |               | mg/L |   | 96   | 90 - 110     |

**Lab Sample ID: 400-163353-6 MS**  
**Matrix: Water**  
**Analysis Batch: 424243**

**Client Sample ID: AY28261 MW-26**  
**Prep Type: Total/NA**

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Fluoride | <0.032        |                  | 1.00        | 1.08      |              | mg/L |   | 108  | 75 - 125     |

TestAmerica Pensacola

# QC Sample Results

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

TestAmerica Job ID: 400-163353-1  
 SDG: Gaston Ash Pond 1190

**Lab Sample ID: 400-163353-6 MSD**  
**Matrix: Water**  
**Analysis Batch: 424243**

**Client Sample ID: AY28261 MW-26**  
**Prep Type: Total/NA**

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Fluoride | <0.032        |                  | 1.00        | 1.10       |               | mg/L |   |      |              |     |           |

**Lab Sample ID: 400-162757-E-6 DU**  
**Matrix: Water**  
**Analysis Batch: 424243**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**

| Analyte  | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|----------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Fluoride | 10            |                  | 10.6      |              | mg/L |   | 2   | 4         |

**Lab Sample ID: MB 400-424579/3**  
**Matrix: Water**  
**Analysis Batch: 424579**

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

| Analyte  | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Fluoride | <0.032    |              | 0.10 | 0.032 | mg/L |   |          | 12/24/18 13:55 | 1       |

**Lab Sample ID: LCS 400-424579/4**  
**Matrix: Water**  
**Analysis Batch: 424579**

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

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Fluoride | 4.00        | 3.69       |               | mg/L |   | 92   | 90 - 110     |

**Lab Sample ID: 400-162816-E-1 MS**  
**Matrix: Water**  
**Analysis Batch: 424579**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Fluoride | 0.22          |                  | 1.00        | 1.25      |              | mg/L |   | 103  | 75 - 125     |

**Lab Sample ID: 400-162816-E-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 424579**

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

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Fluoride | 0.22          |                  | 1.00        | 1.21       |               | mg/L |   | 99   | 75 - 125     | 3   | 4         |

**Lab Sample ID: 400-163353-A-8 DU**  
**Matrix: Water**  
**Analysis Batch: 424579**

**Client Sample ID: 400-163353-A-8 DU**  
**Prep Type: Total/NA**

| Analyte  | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|----------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Fluoride | 0.11          |                  | 0.110     |              | mg/L |   | 0   | 4         |

# QC Sample Results

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

TestAmerica Job ID: 400-163353-1  
 SDG: Gaston Ash Pond 1190

## Method: SM 4500 SO4 E - Sulfate, Total

**Lab Sample ID: MB 400-425037/6**  
**Matrix: Water**  
**Analysis Batch: 425037**

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

| Analyte | MB Result | MB Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Sulfate | <1.4      |              | 5.0 | 1.4 | mg/L |   |          | 12/28/18 15:39 | 1       |

**Lab Sample ID: LCS 400-425037/7**  
**Matrix: Water**  
**Analysis Batch: 425037**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| Sulfate | 15.0        | 14.6       |               | mg/L |   | 97   | 90 - 110     |

**Lab Sample ID: MRL 400-425037/3**  
**Matrix: Water**  
**Analysis Batch: 425037**

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

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| Sulfate | 5.00        | 4.46       | J             | mg/L |   | 89   | 50 - 150     |

**Lab Sample ID: 400-163353-1 MS**  
**Matrix: Water**  
**Analysis Batch: 425037**

**Client Sample ID: AY28256 MW-23S**  
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Sulfate | 76            |                  | 10.0        | 83.5      | 4            | mg/L |   | 78   | 77 - 128     |

**Lab Sample ID: 400-163353-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 425037**

**Client Sample ID: AY28256 MW-23S**  
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-------|
| Sulfate | 76            |                  | 10.0        | 84.4       | 4             | mg/L |   | 87   | 77 - 128     | 1   | 5     |

**Lab Sample ID: MB 400-425083/6**  
**Matrix: Water**  
**Analysis Batch: 425083**

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

| Analyte | MB Result | MB Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Sulfate | <1.4      |              | 5.0 | 1.4 | mg/L |   |          | 12/28/18 17:13 | 1       |

**Lab Sample ID: LCS 400-425083/7**  
**Matrix: Water**  
**Analysis Batch: 425083**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| Sulfate | 15.0        | 14.4       |               | mg/L |   | 96   | 90 - 110     |

**Lab Sample ID: MRL 400-425083/3**  
**Matrix: Water**  
**Analysis Batch: 425083**

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

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| Sulfate | 5.00        | 4.29       | J             | mg/L |   | 86   | 50 - 150     |

TestAmerica Pensacola

# QC Sample Results

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

TestAmerica Job ID: 400-163353-1  
 SDG: Gaston Ash Pond 1190

**Lab Sample ID: 400-163662-G-1 MS**  
**Matrix: Water**  
**Analysis Batch: 425083**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Sulfate | 3.4           | J                | 10.0        | 14.8      |              | mg/L |   | 114  | 77 - 128     |

**Lab Sample ID: 400-163662-G-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 425083**

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

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Sulfate | 3.4           | J                | 10.0        | 14.5       |               | mg/L |   | 112  | 77 - 128     | 2   | 5         |

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- 14

**TestAmerica Pensacola**  
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**Chain of Custody Record**

**TestAmerica**  
 THE LEADER IN ENVIRONMENTAL TESTING



400-163353 COC

|                                                                                                                                                                                                                                                                                         |  |                                                                                                                                  |  |                                                                                                                                                                                                                                           |  |                                                                                                                                                         |  |                                                                                                                      |  |                                                                             |  |                                                                                                                                                                |  |                                                        |  |                                                       |  |                                                         |  |                                                                 |  |                                                                                                                                                         |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------|--|-------------------------------------------------------|--|---------------------------------------------------------|--|-----------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Client Information</b><br>Company: Alabama Power General Test Laboratory<br>Address: 744 County Rd 87 GSC #8<br>City: Calera<br>State: AL 35040<br>Phone: 205-664-6197(Tel)<br>Email: lbmidkiff@southernco.com<br>Project Name: CCR<br>Site: Gaston Ash Pond 1190                    |  | <b>Sampler:</b> Anthony Goggins<br>Phone:<br><b>Lab PM:</b> Whitmire, Cheyenne R<br>E-Mail: Cheyenne.whitmire@testamericainc.com |  | <b>COC No:</b> 400-56525-24537.1<br>Page: Page 1 of 1<br>Job #:                                                                                                                                                                           |  | <b>Carrier Tracking Note:</b>                                                                                                                           |  |                                                                                                                      |  |                                                                             |  |                                                                                                                                                                |  |                                                        |  |                                                       |  |                                                         |  |                                                                 |  |                                                                                                                                                         |  |
| <b>Due Date Requested:</b><br>TAT Requested (days):<br>PO #:<br>WO #:<br>Project #: 40007143<br>SSO# #:                                                                                                                                                                                 |  | <b>Analysis Requested</b><br>9315_R4z26_9320_R4z28_R4z26R4z28_GFP                                                                |  | <b>Preservation Codes:</b><br>M - Hexane<br>A - HCL<br>B - NaOH<br>C - Zn Acetate<br>D - Nitric Acid<br>E - NaHSO4<br>G - Anchlor<br>H - Ascorbic Acid<br>I - Ice<br>J - DI Water<br>K - EDTA<br>L - EDA<br>Z - other (specify)<br>Other: |  | <b>Special Instructions/Note:</b><br>MW-23S<br>FB-1 (Field Blank)<br>MW-23D<br>MW-27<br>MW-27 DUP (Sample Duplicate)<br>MW-26<br>EB-1 (Equipment Blank) |  |                                                                                                                      |  |                                                                             |  |                                                                                                                                                                |  |                                                        |  |                                                       |  |                                                         |  |                                                                 |  |                                                                                                                                                         |  |
| <b>Sample Identification</b><br>Sample ID: AY28256<br>AY28257<br>AY28258<br>AY28259<br>AY28260<br>AY28261<br>AY28262                                                                                                                                                                    |  | <b>Sample Date</b><br>12/5/18<br>12/5/18<br>12/5/18<br>12/5/18<br>12/5/18<br>12/6/18<br>12/6/18                                  |  | <b>Sample Time</b><br>11:53<br>11:42<br>13:44<br>16:08<br>16:08<br>09:15<br>10:00                                                                                                                                                         |  | <b>Sample Type</b><br>(C=comp, G=grab)<br>G<br>G<br>G<br>G<br>G<br>G<br>G                                                                               |  | <b>Matrix</b> (Water, Pesticide, Oil, BT-Tissue, AAB)<br>Water<br>Water<br>Water<br>Water<br>Water<br>Water<br>Water |  | <b>Field Filtered Sample (Yes or No)</b><br>X<br>X<br>X<br>X<br>X<br>X<br>X |  | <b>Perform MS/MSD (Yes or No)</b><br>X<br>X<br>X<br>X<br>X<br>X<br>X                                                                                           |  | <b>SM 4500 F.C.</b><br>N<br>X<br>X<br>X<br>X<br>X<br>X |  | <b>SM 4500 CLE</b><br>N<br>X<br>X<br>X<br>X<br>X<br>X |  | <b>SM 4500 SO4.E</b><br>N<br>X<br>X<br>X<br>X<br>X<br>X |  | <b>Total Number of Containers</b><br>4<br>2<br>2<br>2<br>2<br>2 |  | <b>Special Instructions/Note:</b><br>MW-23S<br>FB-1 (Field Blank)<br>MW-23D<br>MW-27<br>MW-27 DUP (Sample Duplicate)<br>MW-26<br>EB-1 (Equipment Blank) |  |
| <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological<br><b>Deliverable Requested:</b> I, II, III, IV, Other (specify) |  | <b>Empty Kit Relinquished by:</b><br>Relinquished by: Laura Midkiff<br>Relinquished by:<br>Relinquished by:                      |  | <b>Date:</b><br>Date/Time: 12/10/2018 11:20<br>Date/Time:<br>Date/Time:                                                                                                                                                                   |  | <b>Company:</b><br>APC<br>Company<br>Company                                                                                                            |  | <b>Received by:</b><br>Date/Time: 12-11-18 9:18<br>Date/Time: 12/12/18 10:54<br>Date/Time:                           |  | <b>Company:</b><br>Company<br>Company<br>Company                            |  | <b>Special Instructions/QC Requirements:</b><br>Return To Client: <input type="checkbox"/> Disposal By Lab: <input type="checkbox"/> Archive For: _____ Months |  | <b>Method of Shipment:</b>                             |  |                                                       |  |                                                         |  |                                                                 |  |                                                                                                                                                         |  |
| <b>Customer:</b> State Inmate # 3465 J NC<br><b>Custody:</b> State Inmate # 1415061 JRR                                                                                                                                                                                                 |  | <b>Date:</b> 12-11-18<br><b>Time:</b> 10:54                                                                                      |  | <b>Signature:</b> [Handwritten Signature]                                                                                                                                                                                                 |  | <b>Signature:</b> [Handwritten Signature]                                                                                                               |  | <b>Signature:</b> [Handwritten Signature]                                                                            |  | <b>Signature:</b> [Handwritten Signature]                                   |  | <b>Signature:</b> [Handwritten Signature]                                                                                                                      |  | <b>Signature:</b> [Handwritten Signature]              |  |                                                       |  |                                                         |  |                                                                 |  |                                                                                                                                                         |  |





# Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-163353-1  
SDG Number: Gaston Ash Pond 1190

**Login Number: 163353**  
**List Number: 1**  
**Creator: Perez, Trina M**

**List Source: TestAmerica Pensacola**

| Question                                                                         | Answer | Comment                                          |
|----------------------------------------------------------------------------------|--------|--------------------------------------------------|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A    |                                                  |
| The cooler's custody seal, if present, is intact.                                | 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   | RADS-14.8°C,14.5°C IR-8 / 1.8°C IR-7, 1.8°C IR-8 |
| COC is present.                                                                  | True   |                                                  |
| COC is filled out in ink and legible.                                            | True   |                                                  |
| COC is filled out with all pertinent information.                                | True   |                                                  |
| Is the Field Sampler's name present on COC?                                      | True   |                                                  |
| There are no discrepancies between the containers received and the COC.          | True   |                                                  |
| Samples are received within Holding Time (excluding tests with immediate HTs)    | True   |                                                  |
| Sample containers have legible labels.                                           | True   |                                                  |
| Containers are not broken or leaking.                                            | True   |                                                  |
| Sample collection date/times are provided.                                       | True   |                                                  |
| Appropriate sample containers are used.                                          | True   |                                                  |
| Sample bottles are completely filled.                                            | True   |                                                  |
| Sample Preservation Verified.                                                    | True   |                                                  |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |                                                  |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | N/A    |                                                  |
| Multiphasic samples are not present.                                             | True   |                                                  |
| Samples do not require splitting or compositing.                                 | True   |                                                  |
| Residual Chlorine Checked.                                                       | N/A    |                                                  |



# Accreditation/Certification Summary

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

TestAmerica Job ID: 400-163353-1  
 SDG: Gaston Ash Pond 1190

## Laboratory: TestAmerica Pensacola

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

| Authority              | Program       | EPA Region | Identification Number | Expiration Date |
|------------------------|---------------|------------|-----------------------|-----------------|
| Alabama                | State Program | 4          | 40150                 | 06-30-19        |
| ANAB                   | ISO/IEC 17025 |            | L2471                 | 02-22-20        |
| Arizona                | State Program | 9          | AZ0710                | 01-12-20        |
| Arkansas DEQ           | State Program | 6          | 88-0689               | 09-01-19        |
| California             | State Program | 9          | 2510                  | 06-30-19        |
| Florida                | NELAP         | 4          | E81010                | 06-30-19        |
| Georgia                | State Program | 4          | E81010 (FL)           | 06-30-19        |
| Illinois               | NELAP         | 5          | 200041                | 10-09-19        |
| Iowa                   | State Program | 7          | 367                   | 08-01-20        |
| Kansas                 | NELAP         | 7          | E-10253               | 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              | 01-31-19        |
| 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                   | 06-30-19        |



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-163353-2

TestAmerica Sample Delivery Group: Gaston Ash Pond 1190

Client Project/Site: CCR Plant Gaston

For:

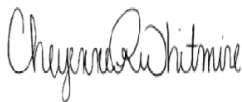
Alabama Power General Test Laboratory

744 County Rd 87

GSC #8

Calera, Alabama 35040

Attn: Laura Midkiff



Authorized for release by:

1/22/2019 5:14:04 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

[cheyenne.whitmire@testamericainc.com](mailto: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 Gaston

TestAmerica Job ID: 400-163353-2  
SDG: Gaston Ash Pond 1190

**Job ID: 400-163353-2**

**Laboratory: TestAmerica Pensacola**

## Narrative

### Job Narrative 400-163353-2

#### RAD

Method(s) PrecSep\_0: Radium-228 Prep Batch 160-405924: The following samples were prepared at a reduced aliquot due to limited volume: AY28256 MW-23S (400-163353-1), AY28256 MW-23S (400-163353-1[DU]), AY28257 FB-1 (400-163353-2), AY28258 MW-23D (400-163353-3), AY28259 MW-27 (400-163353-4), AY28260 MW-27 DUP (400-163353-5), AY28261 MW-26 (400-163353-6) and AY28262 EB-1 (400-163353-7).

Method(s) PrecSep\_0: Radium 228 Prep Batch 160-407388: The following samples were prepared at a reduced aliquot: AY28749 MW-20SV (400-163353-8) and AY28846 MW-17SV (400-163353-9). Samples 480-147054-1 and 490-165391-1 were reduced due to brown discoloration and sediment. Samples 400-163353-8, 400-163353-9, 400-163353-10, 400-163353-10[DU], 400-163353-11, 400-163353-12, 400-163353-13, 400-163353-14, and 400-163353-15 were reduced due to limited sample volume.

Method(s) PrecSep-21: Radium 226 Prep Batch 405774: The following samples were prepared at a reduced aliquot due to insufficient volume. AY28256 MW-23S (400-163353-1), AY28256 MW-23S (400-163353-1[DU]), AY28257 FB-1 (400-163353-2), AY28258 MW-23D (400-163353-3), AY28259 MW-27 (400-163353-4), AY28260 MW-27 DUP (400-163353-5), AY28261 MW-26 (400-163353-6) and AY28262 EB-1 (400-163353-7)

Method(s) PrecSep-21: Radium 226 Prep Batch 160-407386: The following samples were prepared at a reduced aliquot: AY28749 MW-20SV (400-163353-8) and AY28846 MW-17SV (400-163353-9). Samples 480-147054-1 and 490-165391-1 were reduced due to brown discoloration and sediment. Samples 480-147054-2, 400-163353-8, 400-163353-9, 400-163353-10, 400-163353-10[DU], 400-163353-11, 400-163353-12, 400-163353-13, 400-163353-14, and 400-163353-15 were reduced due to limited sample volume.

# Method Summary

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

TestAmerica Job ID: 400-163353-2  
SDG: Gaston Ash Pond 1190

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

#### Protocol References:

None = None

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

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

#### Laboratory References:

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

# Sample Summary

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

TestAmerica Job ID: 400-163353-2  
SDG: Gaston Ash Pond 1190

| Lab Sample ID | Client Sample ID  | Matrix | Collected      | Received       |
|---------------|-------------------|--------|----------------|----------------|
| 400-163353-1  | AY28256 MW-23S    | Water  | 12/05/18 11:53 | 12/11/18 09:18 |
| 400-163353-2  | AY28257 FB-1      | Water  | 12/05/18 11:42 | 12/11/18 09:18 |
| 400-163353-3  | AY28258 MW-23D    | Water  | 12/05/18 13:44 | 12/11/18 09:18 |
| 400-163353-4  | AY28259 MW-27     | Water  | 12/05/18 16:08 | 12/11/18 09:18 |
| 400-163353-5  | AY28260 MW-27 DUP | Water  | 12/05/18 16:08 | 12/11/18 09:18 |
| 400-163353-6  | AY28261 MW-26     | Water  | 12/06/18 09:15 | 12/11/18 09:18 |
| 400-163353-7  | AY28262 EB-1      | Water  | 12/06/18 10:00 | 12/11/18 09:18 |
| 400-163353-8  | AY28749 MW-20SV   | Water  | 12/13/18 14:30 | 12/19/18 09:47 |
| 400-163353-9  | AY28846 MW-17SV   | Water  | 12/17/18 10:19 | 12/19/18 09:47 |

# Client Sample Results

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

TestAmerica Job ID: 400-163353-2  
 SDG: Gaston Ash Pond 1190

**Client Sample ID: AY28256 MW-23S**

**Lab Sample ID: 400-163353-1**

Date Collected: 12/05/18 11:53

Matrix: Water

Date Received: 12/11/18 09:18

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.348  |           | 0.132                       | 0.136                       | 1.00 | 0.136 | pCi/L | 12/14/18 09:23 | 01/07/19 08:08 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 94.7   |           | 40 - 110                    |                             |      |       |       | 12/14/18 09:23 | 01/07/19 08:08 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.193  | U         | 0.302                       | 0.302                       | 1.00 | 0.510 | pCi/L | 12/14/18 20:20 | 12/27/18 16:45 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 94.7   |           | 40 - 110                    |                             |      |       |       | 12/14/18 20:20 | 12/27/18 16:45 | 1       |
| Y Carrier  | 83.4   |           | 40 - 110                    |                             |      |       |       | 12/14/18 20:20 | 12/27/18 16:45 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium<br>226 + 228 | 0.541  |           | 0.330                       | 0.331                       | 5.00 | 0.510 | pCi/L |          | 01/21/19 13:34 | 1       |



# Client Sample Results

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

TestAmerica Job ID: 400-163353-2  
 SDG: Gaston Ash Pond 1190

**Client Sample ID: AY28257 FB-1**

**Lab Sample ID: 400-163353-2**

**Date Collected: 12/05/18 11:42**

**Matrix: Water**

**Date Received: 12/11/18 09:18**

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

| Analyte    | Result  | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | -0.0205 | U         | 0.0563                      | 0.0563                      | 1.00 | 0.137 | pCi/L | 12/14/18 09:23 | 01/07/19 08:08 | 1       |
| Carrier    | %Yield  | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 96.5    |           | 40 - 110                    |                             |      |       |       | 12/14/18 09:23 | 01/07/19 08:08 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.228  | U         | 0.304                       | 0.305                       | 1.00 | 0.507 | pCi/L | 12/14/18 20:20 | 12/27/18 16:45 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 96.5   |           | 40 - 110                    |                             |      |       |       | 12/14/18 20:20 | 12/27/18 16:45 | 1       |
| Y Carrier  | 87.5   |           | 40 - 110                    |                             |      |       |       | 12/14/18 20:20 | 12/27/18 16:45 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                   | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.207  | U         | 0.309                       | 0.310                       | 5.00 | 0.507 | pCi/L |          | 01/21/19 13:34 | 1       |

# Client Sample Results

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

TestAmerica Job ID: 400-163353-2  
 SDG: Gaston Ash Pond 1190

**Client Sample ID: AY28258 MW-23D**

**Lab Sample ID: 400-163353-3**

**Date Collected: 12/05/18 13:44**

**Matrix: Water**

**Date Received: 12/11/18 09:18**

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0623 | U         | 0.0767                      | 0.0769                      | 1.00 | 0.126 | pCi/L | 12/14/18 09:23 | 01/07/19 08:08 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 98.5   |           | 40 - 110                    |                             |      |       |       | 12/14/18 09:23 | 01/07/19 08:08 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.385  | U         | 0.312                       | 0.314                       | 1.00 | 0.494 | pCi/L | 12/14/18 20:20 | 12/27/18 16:45 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 98.5   |           | 40 - 110                    |                             |      |       |       | 12/14/18 20:20 | 12/27/18 16:45 | 1       |
| Y Carrier  | 92.3   |           | 40 - 110                    |                             |      |       |       | 12/14/18 20:20 | 12/27/18 16:45 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                   | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.447  | U         | 0.321                       | 0.323                       | 5.00 | 0.494 | pCi/L |          | 01/21/19 13:34 | 1       |

# Client Sample Results

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

TestAmerica Job ID: 400-163353-2  
 SDG: Gaston Ash Pond 1190

**Client Sample ID: AY28259 MW-27**

**Lab Sample ID: 400-163353-4**

Date Collected: 12/05/18 16:08

Matrix: Water

Date Received: 12/11/18 09:18

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.347  |           | 0.124                       | 0.128                       | 1.00 | 0.110 | pCi/L | 12/14/18 09:23 | 01/07/19 08:09 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 93.2   |           | 40 - 110                    |                             |      |       |       | 12/14/18 09:23 | 01/07/19 08:09 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.439  | U         | 0.328                       | 0.331                       | 1.00 | 0.512 | pCi/L | 12/14/18 20:20 | 12/27/18 16:45 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 93.2   |           | 40 - 110                    |                             |      |       |       | 12/14/18 20:20 | 12/27/18 16:45 | 1       |
| Y Carrier  | 83.4   |           | 40 - 110                    |                             |      |       |       | 12/14/18 20:20 | 12/27/18 16:45 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium<br>226 + 228 | 0.786  |           | 0.351                       | 0.355                       | 5.00 | 0.512 | pCi/L |          | 01/21/19 13:34 | 1       |

# Client Sample Results

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

TestAmerica Job ID: 400-163353-2  
 SDG: Gaston Ash Pond 1190

**Client Sample ID: AY28260 MW-27 DUP**

**Lab Sample ID: 400-163353-5**

Date Collected: 12/05/18 16:08

Matrix: Water

Date Received: 12/11/18 09:18

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.207  |           | 0.107                       | 0.108                       | 1.00 | 0.131 | pCi/L | 12/14/18 09:23 | 01/07/19 08:09 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 98.8   |           | 40 - 110                    |                             |      |       |       | 12/14/18 09:23 | 01/07/19 08:09 | 1       |

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

| Analyte    | Result  | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | -0.0210 | U         | 0.292                       | 0.292                       | 1.00 | 0.529 | pCi/L | 12/14/18 20:20 | 12/27/18 16:46 | 1       |
| Carrier    | %Yield  | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 98.8    |           | 40 - 110                    |                             |      |       |       | 12/14/18 20:20 | 12/27/18 16:46 | 1       |
| Y Carrier  | 86.4    |           | 40 - 110                    |                             |      |       |       | 12/14/18 20:20 | 12/27/18 16:46 | 1       |

### Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228

| Analyte                   | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.186  | U         | 0.311                       | 0.311                       | 5.00 | 0.529 | pCi/L |          | 01/21/19 13:34 | 1       |

# Client Sample Results

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

TestAmerica Job ID: 400-163353-2  
 SDG: Gaston Ash Pond 1190

**Client Sample ID: AY28261 MW-26**

**Lab Sample ID: 400-163353-6**

**Date Collected: 12/06/18 09:15**

**Matrix: Water**

**Date Received: 12/11/18 09:18**

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0524 | U         | 0.0770                      | 0.0771                      | 1.00 | 0.132 | pCi/L | 12/14/18 09:23 | 01/07/19 08:09 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 95.6   |           | 40 - 110                    |                             |      |       |       | 12/14/18 09:23 | 01/07/19 08:09 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.238  | U         | 0.315                       | 0.316                       | 1.00 | 0.525 | pCi/L | 12/14/18 20:20 | 12/27/18 16:46 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 95.6   |           | 40 - 110                    |                             |      |       |       | 12/14/18 20:20 | 12/27/18 16:46 | 1       |
| Y Carrier  | 84.9   |           | 40 - 110                    |                             |      |       |       | 12/14/18 20:20 | 12/27/18 16:46 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                   | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.290  | U         | 0.324                       | 0.325                       | 5.00 | 0.525 | pCi/L |          | 01/21/19 13:34 | 1       |

# Client Sample Results

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

TestAmerica Job ID: 400-163353-2  
 SDG: Gaston Ash Pond 1190

**Client Sample ID: AY28262 EB-1**

**Lab Sample ID: 400-163353-7**

**Date Collected: 12/06/18 10:00**

**Matrix: Water**

**Date Received: 12/11/18 09:18**

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

| Analyte    | Result   | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|----------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | -0.00436 | U         | 0.0550                      | 0.0550                      | 1.00 | 0.119 | pCi/L | 12/14/18 09:23 | 01/07/19 08:09 | 1       |
| Carrier    | %Yield   | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 103      |           | 40 - 110                    |                             |      |       |       | 12/14/18 09:23 | 01/07/19 08:09 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.219  | U         | 0.302                       | 0.303                       | 1.00 | 0.505 | pCi/L | 12/14/18 20:20 | 12/27/18 16:46 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 103    |           | 40 - 110                    |                             |      |       |       | 12/14/18 20:20 | 12/27/18 16:46 | 1       |
| Y Carrier  | 84.9   |           | 40 - 110                    |                             |      |       |       | 12/14/18 20:20 | 12/27/18 16:46 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                   | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.214  | U         | 0.307                       | 0.308                       | 5.00 | 0.505 | pCi/L |          | 01/21/19 13:34 | 1       |

# Client Sample Results

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

TestAmerica Job ID: 400-163353-2  
 SDG: Gaston Ash Pond 1190

**Client Sample ID: AY28749 MW-20SV**

**Lab Sample ID: 400-163353-8**

**Date Collected: 12/13/18 14:30**

**Matrix: Water**

**Date Received: 12/19/18 09:47**

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.228  |           | 0.109                       | 0.111                       | 1.00 | 0.125 | pCi/L | 12/24/18 13:16 | 01/16/19 05:59 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 95.9   |           | 40 - 110                    |                             |      |       |       | 12/24/18 13:16 | 01/16/19 05:59 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.580  |           | 0.320                       | 0.324                       | 1.00 | 0.480 | pCi/L | 12/24/18 13:37 | 01/03/19 11:21 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 95.9   |           | 40 - 110                    |                             |      |       |       | 12/24/18 13:37 | 01/03/19 11:21 | 1       |
| Y Carrier  | 92.3   |           | 40 - 110                    |                             |      |       |       | 12/24/18 13:37 | 01/03/19 11:21 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium<br>226 + 228 | 0.807  |           | 0.338                       | 0.342                       | 5.00 | 0.480 | pCi/L |          | 01/21/19 13:34 | 1       |

# Client Sample Results

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

TestAmerica Job ID: 400-163353-2  
 SDG: Gaston Ash Pond 1190

**Client Sample ID: AY28846 MW-17SV**

**Lab Sample ID: 400-163353-9**

**Date Collected: 12/17/18 10:19**

**Matrix: Water**

**Date Received: 12/19/18 09:47**

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.322  |           | 0.124                       | 0.128                       | 1.00 | 0.124 | pCi/L | 12/24/18 13:16 | 01/16/19 05:59 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 94.4   |           | 40 - 110                    |                             |      |       |       | 12/24/18 13:16 | 01/16/19 05:59 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.373  | U         | 0.372                       | 0.373                       | 1.00 | 0.605 | pCi/L | 12/24/18 13:37 | 01/03/19 11:21 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 94.4   |           | 40 - 110                    |                             |      |       |       | 12/24/18 13:37 | 01/03/19 11:21 | 1       |
| Y Carrier  | 86.0   |           | 40 - 110                    |                             |      |       |       | 12/24/18 13:37 | 01/03/19 11:21 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium<br>226 + 228 | 0.694  |           | 0.392                       | 0.394                       | 5.00 | 0.605 | pCi/L |          | 01/21/19 13:34 | 1       |



# Definitions/Glossary

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

TestAmerica Job ID: 400-163353-2  
SDG: Gaston Ash Pond 1190

## 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 Gaston

TestAmerica Job ID: 400-163353-2  
 SDG: Gaston Ash Pond 1190

**Client Sample ID: AY28256 MW-23S**

**Lab Sample ID: 400-163353-1**

**Date Collected: 12/05/18 11:53**

**Matrix: Water**

**Date Received: 12/11/18 09:18**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 405774       | 12/14/18 09:23       | HET     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 409199       | 01/07/19 08:08       | KLS     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 405924       | 12/14/18 20:20       | CMM     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 407599       | 12/27/18 16:45       | KLS     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 411422       | 01/21/19 13:34       | JLW     | TAL SL |

**Client Sample ID: AY28257 FB-1**

**Lab Sample ID: 400-163353-2**

**Date Collected: 12/05/18 11:42**

**Matrix: Water**

**Date Received: 12/11/18 09:18**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 405774       | 12/14/18 09:23       | HET     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 409199       | 01/07/19 08:08       | KLS     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 405924       | 12/14/18 20:20       | CMM     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 407599       | 12/27/18 16:45       | KLS     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 411422       | 01/21/19 13:34       | JLW     | TAL SL |

**Client Sample ID: AY28258 MW-23D**

**Lab Sample ID: 400-163353-3**

**Date Collected: 12/05/18 13:44**

**Matrix: Water**

**Date Received: 12/11/18 09:18**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 405774       | 12/14/18 09:23       | HET     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 409199       | 01/07/19 08:08       | KLS     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 405924       | 12/14/18 20:20       | CMM     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 407599       | 12/27/18 16:45       | KLS     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 411422       | 01/21/19 13:34       | JLW     | TAL SL |

**Client Sample ID: AY28259 MW-27**

**Lab Sample ID: 400-163353-4**

**Date Collected: 12/05/18 16:08**

**Matrix: Water**

**Date Received: 12/11/18 09:18**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 405774       | 12/14/18 09:23       | HET     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 409199       | 01/07/19 08:09       | KLS     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 405924       | 12/14/18 20:20       | CMM     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 407599       | 12/27/18 16:45       | KLS     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 411422       | 01/21/19 13:34       | JLW     | TAL SL |

# Lab Chronicle

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

TestAmerica Job ID: 400-163353-2  
 SDG: Gaston Ash Pond 1190

**Client Sample ID: AY28260 MW-27 DUP**

**Lab Sample ID: 400-163353-5**

**Date Collected: 12/05/18 16:08**

**Matrix: Water**

**Date Received: 12/11/18 09:18**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 405774       | 12/14/18 09:23       | HET     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 409199       | 01/07/19 08:09       | KLS     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 405924       | 12/14/18 20:20       | CMM     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 407599       | 12/27/18 16:46       | KLS     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 411422       | 01/21/19 13:34       | JLW     | TAL SL |

**Client Sample ID: AY28261 MW-26**

**Lab Sample ID: 400-163353-6**

**Date Collected: 12/06/18 09:15**

**Matrix: Water**

**Date Received: 12/11/18 09:18**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 405774       | 12/14/18 09:23       | HET     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 409199       | 01/07/19 08:09       | KLS     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 405924       | 12/14/18 20:20       | CMM     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 407599       | 12/27/18 16:46       | KLS     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 411422       | 01/21/19 13:34       | JLW     | TAL SL |

**Client Sample ID: AY28262 EB-1**

**Lab Sample ID: 400-163353-7**

**Date Collected: 12/06/18 10:00**

**Matrix: Water**

**Date Received: 12/11/18 09:18**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 405774       | 12/14/18 09:23       | HET     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 409199       | 01/07/19 08:09       | KLS     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 405924       | 12/14/18 20:20       | CMM     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 407599       | 12/27/18 16:46       | KLS     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 411422       | 01/21/19 13:34       | JLW     | TAL SL |

**Client Sample ID: AY28749 MW-20SV**

**Lab Sample ID: 400-163353-8**

**Date Collected: 12/13/18 14:30**

**Matrix: Water**

**Date Received: 12/19/18 09:47**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 407386       | 12/24/18 13:16       | CLP     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 410845       | 01/16/19 05:59       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 407388       | 12/24/18 13:37       | CLP     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 408719       | 01/03/19 11:21       | RTM     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 411422       | 01/21/19 13:34       | JLW     | TAL SL |

# Lab Chronicle

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

TestAmerica Job ID: 400-163353-2  
SDG: Gaston Ash Pond 1190

**Client Sample ID: AY28846 MW-17SV**

**Lab Sample ID: 400-163353-9**

**Date Collected: 12/17/18 10:19**

**Matrix: Water**

**Date Received: 12/19/18 09:47**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 407386       | 12/24/18 13:16       | CLP     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 410845       | 01/16/19 05:59       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 407388       | 12/24/18 13:37       | CLP     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 408719       | 01/03/19 11:21       | RTM     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 411422       | 01/21/19 13:34       | JLW     | TAL SL |

#### Laboratory References:

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

# QC Association Summary

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

TestAmerica Job ID: 400-163353-2  
SDG: Gaston Ash Pond 1190

## Rad

### Prep Batch: 405774

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method     | Prep Batch |
|--------------------|--------------------|-----------|--------|------------|------------|
| 400-163353-1       | AY28256 MW-23S     | Total/NA  | Water  | PrecSep-21 |            |
| 400-163353-2       | AY28257 FB-1       | Total/NA  | Water  | PrecSep-21 |            |
| 400-163353-3       | AY28258 MW-23D     | Total/NA  | Water  | PrecSep-21 |            |
| 400-163353-4       | AY28259 MW-27      | Total/NA  | Water  | PrecSep-21 |            |
| 400-163353-5       | AY28260 MW-27 DUP  | Total/NA  | Water  | PrecSep-21 |            |
| 400-163353-6       | AY28261 MW-26      | Total/NA  | Water  | PrecSep-21 |            |
| 400-163353-7       | AY28262 EB-1       | Total/NA  | Water  | PrecSep-21 |            |
| MB 160-405774/23-A | Method Blank       | Total/NA  | Water  | PrecSep-21 |            |
| LCS 160-405774/1-A | Lab Control Sample | Total/NA  | Water  | PrecSep-21 |            |
| 400-163353-1 DU    | AY28256 MW-23S     | Total/NA  | Water  | PrecSep-21 |            |

### Prep Batch: 405924

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method    | Prep Batch |
|--------------------|--------------------|-----------|--------|-----------|------------|
| 400-163353-1       | AY28256 MW-23S     | Total/NA  | Water  | PrecSep_0 |            |
| 400-163353-2       | AY28257 FB-1       | Total/NA  | Water  | PrecSep_0 |            |
| 400-163353-3       | AY28258 MW-23D     | Total/NA  | Water  | PrecSep_0 |            |
| 400-163353-4       | AY28259 MW-27      | Total/NA  | Water  | PrecSep_0 |            |
| 400-163353-5       | AY28260 MW-27 DUP  | Total/NA  | Water  | PrecSep_0 |            |
| 400-163353-6       | AY28261 MW-26      | Total/NA  | Water  | PrecSep_0 |            |
| 400-163353-7       | AY28262 EB-1       | Total/NA  | Water  | PrecSep_0 |            |
| MB 160-405924/23-A | Method Blank       | Total/NA  | Water  | PrecSep_0 |            |
| LCS 160-405924/1-A | Lab Control Sample | Total/NA  | Water  | PrecSep_0 |            |
| 400-163353-1 DU    | AY28256 MW-23S     | Total/NA  | Water  | PrecSep_0 |            |

### Prep Batch: 407386

| Lab Sample ID        | Client Sample ID   | Prep Type | Matrix | Method     | Prep Batch |
|----------------------|--------------------|-----------|--------|------------|------------|
| 400-163353-8         | AY28749 MW-20SV    | Total/NA  | Water  | PrecSep-21 |            |
| 400-163353-9         | AY28846 MW-17SV    | Total/NA  | Water  | PrecSep-21 |            |
| MB 160-407386/15-A   | Method Blank       | Total/NA  | Water  | PrecSep-21 |            |
| LCS 160-407386/1-A   | Lab Control Sample | Total/NA  | Water  | PrecSep-21 |            |
| 400-163353-B-10-B DU | Duplicate          | Total/NA  | Water  | PrecSep-21 |            |

### Prep Batch: 407388

| Lab Sample ID        | Client Sample ID   | Prep Type | Matrix | Method    | Prep Batch |
|----------------------|--------------------|-----------|--------|-----------|------------|
| 400-163353-8         | AY28749 MW-20SV    | Total/NA  | Water  | PrecSep_0 |            |
| 400-163353-9         | AY28846 MW-17SV    | Total/NA  | Water  | PrecSep_0 |            |
| MB 160-407388/15-A   | Method Blank       | Total/NA  | Water  | PrecSep_0 |            |
| LCS 160-407388/1-A   | Lab Control Sample | Total/NA  | Water  | PrecSep_0 |            |
| 400-163353-B-10-D DU | Duplicate          | Total/NA  | Water  | PrecSep_0 |            |

# QC Sample Results

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

TestAmerica Job ID: 400-163353-2  
 SDG: Gaston Ash Pond 1190

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

**Lab Sample ID: MB 160-405774/23-A**  
**Matrix: Water**  
**Analysis Batch: 409199**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 405774**

| Analyte    | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|-----------|--------------|-----------------------|-----------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.04175   | U            | 0.0658                | 0.0659                | 1.00 | 0.114 | pCi/L | 12/14/18 09:23 | 01/07/19 10:36 | 1       |
| Carrier    | MB %Yield | MB Qualifier | Limits                |                       |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 105       |              | 40 - 110              |                       |      |       |       | 12/14/18 09:23 | 01/07/19 10:36 | 1       |

**Lab Sample ID: LCS 160-405774/1-A**  
**Matrix: Water**  
**Analysis Batch: 409199**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 405774**

| Analyte    | Spike Added | LCS Result    | LCS Qual | Total Uncert. (2σ+/-) | RL   | MDC   | Unit  | %Rec | %Rec. Limits |
|------------|-------------|---------------|----------|-----------------------|------|-------|-------|------|--------------|
| Radium-226 | 15.1        | 14.68         |          | 1.51                  | 1.00 | 0.104 | pCi/L | 97   | 68 - 137     |
| Carrier    | LCS %Yield  | LCS Qualifier | Limits   |                       |      |       |       |      |              |
| Ba Carrier | 104         |               | 40 - 110 |                       |      |       |       |      |              |

**Lab Sample ID: 400-163353-1 DU**  
**Matrix: Water**  
**Analysis Batch: 409199**

**Client Sample ID: AY28256 MW-23S**  
**Prep Type: Total/NA**  
**Prep Batch: 405774**

| Analyte    | Sample Result | Sample Qual  | DU Result | DU Qual | Total Uncert. (2σ+/-) | RL   | MDC   | Unit  | RER  | RER Limit |
|------------|---------------|--------------|-----------|---------|-----------------------|------|-------|-------|------|-----------|
| Radium-226 | 0.348         |              | 0.2271    |         | 0.107                 | 1.00 | 0.115 | pCi/L | 0.50 | 1         |
| Carrier    | DU %Yield     | DU Qualifier | Limits    |         |                       |      |       |       |      |           |
| Ba Carrier | 97.9          |              | 40 - 110  |         |                       |      |       |       |      |           |

**Lab Sample ID: MB 160-407386/15-A**  
**Matrix: Water**  
**Analysis Batch: 410844**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 407386**

| Analyte    | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|-----------|--------------|-----------------------|-----------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.03019   | U            | 0.0655                | 0.0656                | 1.00 | 0.119 | pCi/L | 12/24/18 13:16 | 01/16/19 06:03 | 1       |
| Carrier    | MB %Yield | MB Qualifier | Limits                |                       |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 103       |              | 40 - 110              |                       |      |       |       | 12/24/18 13:16 | 01/16/19 06:03 | 1       |

**Lab Sample ID: LCS 160-407386/1-A**  
**Matrix: Water**  
**Analysis Batch: 410845**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 407386**

| Analyte    | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL   | MDC   | Unit  | %Rec | %Rec. Limits |
|------------|-------------|------------|----------|-----------------------|------|-------|-------|------|--------------|
| Radium-226 | 15.1        | 15.46      |          | 1.58                  | 1.00 | 0.118 | pCi/L | 102  | 68 - 137     |

# QC Sample Results

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

TestAmerica Job ID: 400-163353-2  
 SDG: Gaston Ash Pond 1190

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

**Lab Sample ID: LCS 160-407386/1-A**  
**Matrix: Water**  
**Analysis Batch: 410845**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 407386**

| Carrier    | LCS<br>%Yield | LCS<br>Qualifier | Limits   |
|------------|---------------|------------------|----------|
| Ba Carrier | 103           |                  | 40 - 110 |

**Lab Sample ID: 400-163353-B-10-B DU**  
**Matrix: Water**  
**Analysis Batch: 410845**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 407386**

| Analyte    | Sample<br>Result | Sample<br>Qual | DU<br>Result | DU<br>Qual | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | RER  | RER<br>Limit |
|------------|------------------|----------------|--------------|------------|-----------------------------|------|-------|-------|------|--------------|
| Radium-226 | 0.0455           | U              | 0.03542      | U          | 0.0723                      | 1.00 | 0.131 | pCi/L | 0.07 | 1            |

| Carrier    | DU<br>%Yield | DU<br>Qualifier | Limits   |
|------------|--------------|-----------------|----------|
| Ba Carrier | 100          |                 | 40 - 110 |

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

**Lab Sample ID: MB 160-405924/23-A**  
**Matrix: Water**  
**Analysis Batch: 407599**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 405924**

| Analyte    | MB<br>Result | MB<br>Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------------|-----------------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.1771       | U               | 0.297                       | 0.297                       | 1.00 | 0.502 | pCi/L | 12/14/18 20:20 | 12/27/18 16:47 | 1       |

| Carrier    | MB<br>%Yield | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------|--------------|-----------------|----------|----------------|----------------|---------|
| Ba Carrier | 105          |                 | 40 - 110 | 12/14/18 20:20 | 12/27/18 16:47 | 1       |
| Y Carrier  | 84.5         |                 | 40 - 110 | 12/14/18 20:20 | 12/27/18 16:47 | 1       |

**Lab Sample ID: LCS 160-405924/1-A**  
**Matrix: Water**  
**Analysis Batch: 407599**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 405924**

| Analyte    | Spike<br>Added | LCS<br>Result | LCS<br>Qual | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | %Rec | %Rec.<br>Limits |
|------------|----------------|---------------|-------------|-----------------------------|------|-------|-------|------|-----------------|
| Radium-228 | 12.1           | 11.32         |             | 1.34                        | 1.00 | 0.495 | pCi/L | 93   | 56 - 140        |

| Carrier    | LCS<br>%Yield | LCS<br>Qualifier | Limits   |
|------------|---------------|------------------|----------|
| Ba Carrier | 104           |                  | 40 - 110 |
| Y Carrier  | 85.6          |                  | 40 - 110 |

**Lab Sample ID: 400-163353-1 DU**  
**Matrix: Water**  
**Analysis Batch: 407599**

**Client Sample ID: AY28256 MW-23S**  
**Prep Type: Total/NA**  
**Prep Batch: 405924**

| Analyte    | Sample<br>Result | Sample<br>Qual | DU<br>Result | DU<br>Qual | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | RER  | RER<br>Limit |
|------------|------------------|----------------|--------------|------------|-----------------------------|------|-------|-------|------|--------------|
| Radium-228 | 0.193            | U              | 0.5089       |            | 0.317                       | 1.00 | 0.475 | pCi/L | 0.51 | 1            |

TestAmerica Pensacola

# QC Sample Results

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

TestAmerica Job ID: 400-163353-2  
 SDG: Gaston Ash Pond 1190

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

**Lab Sample ID: 400-163353-1 DU**  
**Matrix: Water**  
**Analysis Batch: 407599**

**Client Sample ID: AY28256 MW-23S**  
**Prep Type: Total/NA**  
**Prep Batch: 405924**

| Carrier    | <i>DU</i><br>%Yield | <i>DU</i><br>Qualifier | Limits   |
|------------|---------------------|------------------------|----------|
| Ba Carrier | 97.9                |                        | 40 - 110 |
| Y Carrier  | 92.3                |                        | 40 - 110 |

**Lab Sample ID: MB 160-407388/15-A**  
**Matrix: Water**  
**Analysis Batch: 408907**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 407388**

| Analyte    | <i>MB</i><br>Result | <i>MB</i><br>Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|---------------------|------------------------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.2518              | U                      | 0.352                       | 0.353                       | 1.00 | 0.587 | pCi/L | 12/24/18 13:37 | 01/03/19 11:24 | 1       |

| Carrier    | <i>MB</i><br>%Yield | <i>MB</i><br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------|---------------------|------------------------|----------|----------------|----------------|---------|
| Ba Carrier | 103                 |                        | 40 - 110 | 12/24/18 13:37 | 01/03/19 11:24 | 1       |
| Y Carrier  | 86.0                |                        | 40 - 110 | 12/24/18 13:37 | 01/03/19 11:24 | 1       |

**Lab Sample ID: LCS 160-407388/1-A**  
**Matrix: Water**  
**Analysis Batch: 408719**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 407388**

| Analyte    | Spike<br>Added | LCS<br>Result | LCS<br>Qual | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | %Rec | %Rec.<br>Limits |
|------------|----------------|---------------|-------------|-----------------------------|------|-------|-------|------|-----------------|
| Radium-228 | 12.1           | 9.977         |             | 1.19                        | 1.00 | 0.450 | pCi/L | 83   | 56 - 140        |

| Carrier    | <i>LCS</i><br>%Yield | <i>LCS</i><br>Qualifier | Limits   |
|------------|----------------------|-------------------------|----------|
| Ba Carrier | 103                  |                         | 40 - 110 |
| Y Carrier  | 86.4                 |                         | 40 - 110 |

**Lab Sample ID: 400-163353-B-10-D DU**  
**Matrix: Water**  
**Analysis Batch: 408719**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 407388**

| Analyte    | Sample<br>Result | Sample<br>Qual | <i>DU</i><br>Result | <i>DU</i><br>Qual | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | RER  | RER<br>Limit |
|------------|------------------|----------------|---------------------|-------------------|-----------------------------|------|-------|-------|------|--------------|
| Radium-228 | 0.205            | U              | 0.2521              | U                 | 0.321                       | 1.00 | 0.530 | pCi/L | 0.08 | 1            |

| Carrier    | <i>DU</i><br>%Yield | <i>DU</i><br>Qualifier | Limits   |
|------------|---------------------|------------------------|----------|
| Ba Carrier | 100                 |                        | 40 - 110 |
| Y Carrier  | 85.2                |                        | 40 - 110 |



# QC Sample Results

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

TestAmerica Job ID: 400-163353-2  
 SDG: Gaston Ash Pond 1190

## Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228

Lab Sample ID: 400-163353-1 DU  
 Matrix: Water  
 Analysis Batch: 411422

Client Sample ID: AY28256 MW-23S  
 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 | 0.541         |             | 0.7360    |         | 0.335                 | 5.00 | 0.475 | pCi/L | 0.29 |           |

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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



400-163353 COC

|                                                                                                                                                                                                                                                                      |  |                                                                                                                                  |  |                                                                                                                                                                                                                    |  |                                                                                                                                                         |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Client Information</b><br>Company: Alabama Power General Test Laboratory<br>Address: 744 County Rd 87 GSC #8<br>City: Calera<br>State: AL 35040<br>Phone: 205-664-6197(Tel)<br>Email: lbmidkiff@southernco.com<br>Project Name: CCR<br>Site: Gaston Ash Pond 1190 |  | <b>Sampler:</b> Anthony Goggins<br>Phone:<br><b>Lab PM:</b> Whitmire, Cheyenne R<br>E-Mail: cheyenne.whitmire@testamericainc.com |  | <b>COC No:</b> 400-56525-24537.1<br>Page: Page 1 of 1<br>Job #:                                                                                                                                                    |  | <b>Carrier Tracking Note:</b>                                                                                                                           |  |
| <b>Due Date Requested:</b><br>TAT Requested (days):<br>PO #:<br>WO #:<br>Project #: 40007143<br>SSO# #:                                                                                                                                                              |  | <b>Analysis Requested</b><br>9315_R4z26_9320_R4z28_R4z28Ra228_GFP                                                                |  | <b>Preservation Codes:</b><br>M - Hexane<br>A - HCL<br>B - NaOH<br>C - Zn Acetate<br>D - Nitric Acid<br>E - NaHSO4<br>G - Anchlor<br>H - Ascorbic Acid<br>I - Ice<br>J - DI Water<br>K - EDTA<br>L - EDA<br>Other: |  | <b>Special Instructions/Note:</b><br>MW-23S<br>FB-1 (Field Blank)<br>MW-23D<br>MW-27<br>MW-27 DUP (Sample Duplicate)<br>MW-26<br>EB-1 (Equipment Blank) |  |
| <b>Sample Identification</b><br>Sample ID: AY28256<br>Sample ID: AY28257<br>Sample ID: AY28258<br>Sample ID: AY28259<br>Sample ID: AY28260<br>Sample ID: AY28261<br>Sample ID: AY28262                                                                               |  | <b>Sample Type</b><br>(C=comp, G=grab)<br>G<br>G<br>G<br>G<br>G<br>G                                                             |  | <b>Matrix</b> (Water, Pesticide, Oil, BT-Tissue, AAB)<br>Water<br>Water<br>Water<br>Water<br>Water<br>Water                                                                                                        |  | <b>Field Filtered Sample (Yes or No)</b><br>X<br>X<br>X<br>X<br>X<br>X                                                                                  |  |
| <b>Sample Date</b><br>12/5/18<br>12/5/18<br>12/5/18<br>12/5/18<br>12/5/18<br>12/6/18<br>12/6/18                                                                                                                                                                      |  | <b>Sample Time</b><br>11:53<br>11:42<br>13:44<br>16:08<br>16:08<br>09:15<br>10:00                                                |  | <b>Perform MS/MSD (Yes or No)</b><br>X<br>X<br>X<br>X<br>X<br>X                                                                                                                                                    |  | <b>SM 4500 F.C.</b><br>N<br>X<br>X<br>X<br>X<br>X<br>X                                                                                                  |  |
| <b>Sample Date</b><br>12/5/18<br>12/5/18<br>12/5/18<br>12/5/18<br>12/5/18<br>12/6/18<br>12/6/18                                                                                                                                                                      |  | <b>Sample Time</b><br>11:53<br>11:42<br>13:44<br>16:08<br>16:08<br>09:15<br>10:00                                                |  | <b>SM 4500 CLE</b><br>N<br>X<br>X<br>X<br>X<br>X<br>X                                                                                                                                                              |  | <b>SM 4500 SO4.E</b><br>N<br>X<br>X<br>X<br>X<br>X<br>X                                                                                                 |  |
| <b>Sample Date</b><br>12/5/18<br>12/5/18<br>12/5/18<br>12/5/18<br>12/5/18<br>12/6/18<br>12/6/18                                                                                                                                                                      |  | <b>Sample Time</b><br>11:53<br>11:42<br>13:44<br>16:08<br>16:08<br>09:15<br>10:00                                                |  | <b>9315_R4z26_9320_R4z28_R4z28Ra228_GFP</b><br>X<br>X<br>X<br>X<br>X<br>X<br>X                                                                                                                                     |  | <b>Total Number of Containers</b><br>4<br>2<br>2<br>2<br>2<br>2                                                                                         |  |
| <b>Sample Date</b><br>12/5/18<br>12/5/18<br>12/5/18<br>12/5/18<br>12/5/18<br>12/6/18<br>12/6/18                                                                                                                                                                      |  | <b>Sample Time</b><br>11:53<br>11:42<br>13:44<br>16:08<br>16:08<br>09:15<br>10:00                                                |  | <b>Special Instructions/Note:</b><br>MW-23S<br>FB-1 (Field Blank)<br>MW-23D<br>MW-27<br>MW-27 DUP (Sample Duplicate)<br>MW-26<br>EB-1 (Equipment Blank)                                                            |  | <b>Special Instructions/Note:</b>                                                                                                                       |  |
| <input type="checkbox"/> Non-Hazard<br><input type="checkbox"/> Flammable<br><input type="checkbox"/> Skin Irritant<br><input type="checkbox"/> Poison B<br><input type="checkbox"/> Unknown<br><input type="checkbox"/> Radiological                                |  | <input type="checkbox"/> Return To Client<br><input type="checkbox"/> Disposal By Lab<br><input type="checkbox"/> Archive For    |  | <b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>                                                                                                                         |  | <b>Months</b>                                                                                                                                           |  |
| <b>Relinquished by:</b> Laura Midkiff<br>Date/Time: 12/10/2018 11:20<br>Company: APC                                                                                                                                                                                 |  | <b>Received by:</b> [Signature]<br>Date/Time: 12-11-18 9:18<br>Company: TH                                                       |  | <b>Relinquished by:</b> [Signature]<br>Date/Time: 12/12/18 10:54<br>Company: TH                                                                                                                                    |  | <b>Received by:</b> [Signature]<br>Date/Time: 12/12/18 10:54<br>Company: TH                                                                             |  |
| <b>Relinquished by:</b> [Signature]<br>Date/Time: 12/12/18 10:54<br>Company: TH                                                                                                                                                                                      |  | <b>Relinquished by:</b> [Signature]<br>Date/Time: 12/12/18 10:54<br>Company: TH                                                  |  | <b>Relinquished by:</b> [Signature]<br>Date/Time: 12/12/18 10:54<br>Company: TH                                                                                                                                    |  | <b>Relinquished by:</b> [Signature]<br>Date/Time: 12/12/18 10:54<br>Company: TH                                                                         |  |
| <b>Relinquished by:</b> [Signature]<br>Date/Time: 12/12/18 10:54<br>Company: TH                                                                                                                                                                                      |  | <b>Relinquished by:</b> [Signature]<br>Date/Time: 12/12/18 10:54<br>Company: TH                                                  |  | <b>Relinquished by:</b> [Signature]<br>Date/Time: 12/12/18 10:54<br>Company: TH                                                                                                                                    |  | <b>Relinquished by:</b> [Signature]<br>Date/Time: 12/12/18 10:54<br>Company: TH                                                                         |  |



**Chain of Custody Record**

**Client Information**  
 Client Contact: Laura Mickitt  
 Company: Alabama Power General Test Laboratory  
 Address: 744 County Rd 87 GSC #8  
 City: Callera  
 State, Zip: AL, 35040  
 Phone: 205-684-6197(Tel)  
 Email: lmickitt@southemco.com  
 Project Name: CCR  
 Site: Gaston Ash Pond 1180


**Sampler:** Ben Rofschadl  
**Lab Pk:** Whitlire, Cheyenne R  
**E-Mail:** cheyenne.whitlire@testamerica.com

**Carrier Tracking No(s):** 400-56525-24637.1  
**Pages:** Page 1 of 1  
**Job #:** 163353

**Due Date Requested:**  
 TAT Requested (days): Routine

**PO #:**  
 WO #:  
 Project #: 40007143  
 SSOW#:

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (Preserv, Dissol, Oxidant, BTL, Tissue, A&B) | Hold Filtered Sample (Yes or No) |    | Perform MS/MSD (Yes or No) |    | 9315, R1226, 9320, R1228, R228R1228_GPC |    | Total Number of Containers |          | Special Instructions/Note: |
|-----------------------|-------------|-------------|------------------------------|-----------------------------------------------------|----------------------------------|----|----------------------------|----|-----------------------------------------|----|----------------------------|----------|----------------------------|
|                       |             |             |                              |                                                     | Yes                              | No | Yes                        | No | Yes                                     | No | Yes                        | No       |                            |
| AY28749               | 12/13/18    | 14:30       | G                            | Water                                               | X                                |    | X                          | X  | X                                       | X  | 2                          | MM-20SV  |                            |
| AY28846               | 12/17/18    | 10:19       | G                            | Water                                               | X                                |    | X                          | X  | X                                       | X  | 2                          | MMV-17SV |                            |
|                       |             |             |                              |                                                     |                                  |    |                            |    |                                         |    |                            |          |                            |
|                       |             |             |                              |                                                     |                                  |    |                            |    |                                         |    |                            |          |                            |
|                       |             |             |                              |                                                     |                                  |    |                            |    |                                         |    |                            |          |                            |

**Analysis Requested**  
  
 400-163353 COC

**Preservation Codes:**  
 A - HCL  
 B - NaOH  
 C - Zn Acetate  
 D - Nitric Acid  
 E - NaHSO4  
 F - MeOH  
 G - Amchlor  
 H - Ascorbic Acid  
 I - Ice  
 J - DI Water  
 K - EDTA  
 L - EDA  
 Other:

**Preservation Codes:**  
 M - Hexane  
 N - None  
 O - AA/NO2  
 P - Na2O4S  
 Q - Na2SO3  
 R - Na2S2O3  
 S - H2SO4  
 T - TSP Diodichlorhydrate  
 U - Acetone  
 V - MCAA  
 W - pH 4-5  
 Z - other (specify)

**Special Instructions/Note:**

Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological  
 Deliverable Requested: I, II, III, IV, Other (specify)

**Empty Kit Relinquished by:** Laura Mickitt  
 Relinquished by: Laura Mickitt  
 Relinquished by:  
 Relinquished by:

**Date:** 12/18/2018 11:30  
 Date/Time: 12/18/2018 11:30  
 Date/Time:  
 Date/Time:

**Method of Shipment:**  
 Date Rec'd: 12/19/18 09:47  
 Date/Time:  
 Date/Time:

**Company:** APC  
 Company:  
 Company:

**Custody Seal No.:** 190718  
 Custody Seal No.:



## Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-163353-2  
SDG Number: Gaston Ash Pond 1190

**Login Number: 163353**  
**List Number: 1**  
**Creator: Perez, Trina M**

**List Source: TestAmerica Pensacola**

| Question                                                                         | Answer | Comment                                          |
|----------------------------------------------------------------------------------|--------|--------------------------------------------------|
| Radioactivity wasn't checked or is <=/ background as measured by a survey meter. | N/A    |                                                  |
| The cooler's custody seal, if present, is intact.                                | 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   | RADS-14.8°C,14.5°C IR-8 / 1.8°C IR-7, 1.8°C IR-8 |
| COC is present.                                                                  | True   |                                                  |
| COC is filled out in ink and legible.                                            | True   |                                                  |
| COC is filled out with all pertinent information.                                | True   |                                                  |
| Is the Field Sampler's name present on COC?                                      | True   |                                                  |
| There are no discrepancies between the containers received and the COC.          | True   |                                                  |
| Samples are received within Holding Time (excluding tests with immediate HTs)    | True   |                                                  |
| Sample containers have legible labels.                                           | True   |                                                  |
| Containers are not broken or leaking.                                            | True   |                                                  |
| Sample collection date/times are provided.                                       | True   |                                                  |
| Appropriate sample containers are used.                                          | True   |                                                  |
| Sample bottles are completely filled.                                            | True   |                                                  |
| Sample Preservation Verified.                                                    | True   |                                                  |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |                                                  |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | N/A    |                                                  |
| Multiphasic samples are not present.                                             | True   |                                                  |
| Samples do not require splitting or compositing.                                 | True   |                                                  |
| Residual Chlorine Checked.                                                       | N/A    |                                                  |



## Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-163353-2  
SDG Number: Gaston Ash Pond 1190

**Login Number: 163353**

**List Number: 2**

**Creator: Hellm, Michael**

**List Source: TestAmerica St. Louis**

**List Creation: 12/13/18 11:43 AM**

| Question                                                                         | Answer | Comment |
|----------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | True   |         |
| The cooler's custody seal, if present, is intact.                                | True   |         |
| Sample custody seals, if present, are intact.                                    | 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 <6mm (1/4").  | N/A    |         |
| Multiphasic samples are not present.                                             | N/A    |         |
| Samples do not require splitting or compositing.                                 | True   |         |
| Residual Chlorine Checked.                                                       | N/A    |         |

## Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-163353-2  
SDG Number: Gaston Ash Pond 1190

**Login Number: 163353**

**List Number: 3**

**Creator: Hellm, Michael**

**List Source: TestAmerica St. Louis**

**List Creation: 12/21/18 11:17 AM**

| Question                                                                                            | Answer | Comment |
|-----------------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is <math>\leq</math> 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 Gaston

TestAmerica Job ID: 400-163353-2  
 SDG: Gaston Ash Pond 1190

## Laboratory: TestAmerica Pensacola

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

| Authority              | Program       | EPA Region | Identification Number | Expiration Date |
|------------------------|---------------|------------|-----------------------|-----------------|
| Alabama                | State Program | 4          | 40150                 | 06-30-19        |
| ANAB                   | ISO/IEC 17025 |            | L2471                 | 02-22-20        |
| Arizona                | State Program | 9          | AZ0710                | 01-12-20        |
| Arkansas DEQ           | State Program | 6          | 88-0689               | 09-01-19        |
| California             | State Program | 9          | 2510                  | 06-30-19        |
| Florida                | NELAP         | 4          | E81010                | 06-30-19        |
| Georgia                | State Program | 4          | E81010 (FL)           | 06-30-19        |
| Illinois               | NELAP         | 5          | 200041                | 10-09-19        |
| Iowa                   | State Program | 7          | 367                   | 08-01-20        |
| Kansas                 | NELAP         | 7          | E-10253               | 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              | 01-31-19        |
| 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                   | 06-30-19        |

## Laboratory: TestAmerica St. Louis

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

| Authority      | Program       | EPA Region | Identification Number | Expiration Date |
|----------------|---------------|------------|-----------------------|-----------------|
| Alaska         | State Program | 10         | MO00054               | 06-30-19        |
| ANAB           | DoD ELAP      |            | L2305                 | 04-06-19        |
| Arizona        | State Program | 9          | AZ0813                | 12-08-19        |
| California     | State Program | 9          | 2886                  | 06-30-19        |
| Connecticut    | State Program | 1          | PH-0241               | 03-31-19        |
| Florida        | NELAP         | 4          | E87689                | 06-30-19        |
| Illinois       | NELAP         | 5          | 200023                | 11-30-19        |
| Iowa           | State Program | 7          | 373                   | 12-01-20        |
| Kansas         | NELAP         | 7          | E-10236               | 10-31-19        |
| Kentucky (DW)  | State Program | 4          | 90125                 | 12-31-18 *      |
| Louisiana      | NELAP         | 6          | 04080                 | 06-30-19        |
| Louisiana (DW) | NELAP         | 6          | 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        |

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

# Accreditation/Certification Summary

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

TestAmerica Job ID: 400-163353-2  
SDG: Gaston Ash Pond 1190

## Laboratory: TestAmerica St. Louis (Continued)

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

| Authority          | Program       | EPA Region | Identification Number | Expiration Date |
|--------------------|---------------|------------|-----------------------|-----------------|
| Nevada             | State Program | 9          | MO000542018-1         | 07-31-19        |
| New Jersey         | NELAP         | 2          | MO002                 | 06-30-19        |
| New York           | NELAP         | 2          | 11616                 | 03-31-19        |
| North Dakota       | State Program | 8          | R207                  | 06-30-19        |
| NRC                | NRC           |            | 24-24817-01           | 12-31-22        |
| Oklahoma           | State Program | 6          | 9997                  | 08-31-19        |
| Pennsylvania       | NELAP         | 3          | 68-00540              | 02-28-19 *      |
| South Carolina     | State Program | 4          | 85002001              | 06-30-19        |
| Texas              | NELAP         | 6          | T104704193-18-12      | 07-31-19        |
| US Fish & Wildlife | Federal       |            | 058448                | 07-31-19        |
| USDA               | Federal       |            | P330-17-0028          | 02-02-20        |
| Utah               | NELAP         | 8          | MO000542018-10        | 07-31-19        |
| Virginia           | NELAP         | 3          | 460230                | 06-14-19        |
| Washington         | State Program | 10         | C592                  | 08-30-19        |
| West Virginia DEP  | State Program | 3          | 381                   | 08-31-19        |

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

TestAmerica Pensacola



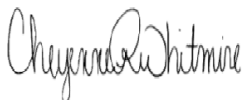
## ANALYTICAL REPORT

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

Laboratory Job ID: 400-166750-1  
Laboratory Sample Delivery Group: Gaston Ash Pond 1190  
Client Project/Site: CCR Plant Gaston

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

Attn: Laura Midkiff



Authorized for release by:  
4/15/2019 3:52:17 PM

Cheyenne Whitmire, Project Manager II  
(850)471-6222  
[cheyenne.whitmire@testamericainc.com](mailto: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 Gaston

Job ID: 400-166750-1  
SDG: Gaston Ash Pond 1190

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## Job ID: 400-166750-1

---

Laboratory: Eurofins TestAmerica, Pensacola

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### Narrative

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#### Job Narrative 400-166750-1

#### RAD

Method(s) 9315: Ra-226 Prep Batch 160-418221. 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. AZ05135 MW-16V (400-166750-1), AZ05136 MW-16V DUP (400-166750-2), AZ05137 MW-28H (400-166750-3), AZ05137 MW-28H (400-166750-3[DU]), AZ05138 FB-1 (400-166750-4), AZ05139 MW-29H (400-166750-5), (LCS 160-418221/1-A), (MB 160-418221/24-B), (160-33136-H-2-D), (160-33136-A-2-B MS) and (160-33136-A-2-C MSD)

Method(s) 9315: Ra-226 Prep Batch 160-418219. 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. AZ05140 MW-17V (400-166750-6), AZ05141 MW-20V (400-166750-7), AZ05142 EB-1 (400-166750-8), (LCS 160-418219/1-A), (MB 160-418219/24-A), (440-235076-D-1-A), (440-235076-A-1-B MS) and (440-235076-A-1-C MSD)

Method(s) 9320: Ra-228 Prep Batch 160-418231. 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. AZ05140 MW-17V (400-166750-6), AZ05141 MW-20V (400-166750-7), AZ05142 EB-1 (400-166750-8), (LCS 160-418231/1-A), (MB 160-418231/24-A), (440-235076-D-1-B), (440-235076-A-1-D MS) and (440-235076-A-1-E MSD)

Method(s) 9320: Ra-228 Prep Batch 160-418230. 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. AZ05135 MW-16V (400-166750-1), AZ05136 MW-16V DUP (400-166750-2), AZ05137 MW-28H (400-166750-3), AZ05137 MW-28H (400-166750-3[DU]), AZ05138 FB-1 (400-166750-4), AZ05139 MW-29H (400-166750-5), (LCS 160-418230/1-A) and (MB 160-418230/24-A)

# Method Summary

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

Job ID: 400-166750-1  
SDG: Gaston Ash Pond 1190

| 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 Gaston

Job ID: 400-166750-1  
SDG: Gaston Ash Pond 1190

| Lab Sample ID | Client Sample ID   | Matrix | Collected      | Received       |
|---------------|--------------------|--------|----------------|----------------|
| 400-166750-1  | AZ05135 MW-16V     | Water  | 02/25/19 15:04 | 03/01/19 14:10 |
| 400-166750-2  | AZ05136 MW-16V DUP | Water  | 02/25/19 15:04 | 03/01/19 14:10 |
| 400-166750-3  | AZ05137 MW-28H     | Water  | 02/26/19 12:45 | 03/01/19 14:10 |
| 400-166750-4  | AZ05138 FB-1       | Water  | 02/26/19 13:55 | 03/01/19 14:10 |
| 400-166750-5  | AZ05139 MW-29H     | Water  | 02/26/19 16:12 | 03/01/19 14:10 |
| 400-166750-6  | AZ05140 MW-17V     | Water  | 02/27/19 10:18 | 03/01/19 14:10 |
| 400-166750-7  | AZ05141 MW-20V     | Water  | 02/27/19 12:50 | 03/01/19 14:10 |
| 400-166750-8  | AZ05142 EB-1       | Water  | 02/27/19 13:20 | 03/01/19 14:10 |

# Client Sample Results

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

Job ID: 400-166750-1  
 SDG: Gaston Ash Pond 1190

**Client Sample ID: AZ05135 MW-16V**

**Lab Sample ID: 400-166750-1**

Date Collected: 02/25/19 15:04

Matrix: Water

Date Received: 03/01/19 14:10

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

| Analyte           | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|-------------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| <b>Radium-226</b> | <b>1.09</b>   |                  | 0.194                       | 0.217                       | 1.00 | 0.101 | pCi/L | 03/08/19 09:33  | 04/02/19 13:21  | 1              |
| <b>Carrier</b>    | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier        | 90.9          |                  | 40 - 110                    |                             |      |       |       | 03/08/19 09:33  | 04/02/19 13:21  | 1              |

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

| Analyte           | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|-------------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| <b>Radium-228</b> | <b>0.905</b>  |                  | 0.283                       | 0.295                       | 1.00 | 0.365 | pCi/L | 03/08/19 11:03  | 03/27/19 09:11  | 1              |
| <b>Carrier</b>    | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier        | 90.9          |                  | 40 - 110                    |                             |      |       |       | 03/08/19 11:03  | 03/27/19 09:11  | 1              |
| Y Carrier         | 88.6          |                  | 40 - 110                    |                             |      |       |       | 03/08/19 11:03  | 03/27/19 09:11  | 1              |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                              | Result      | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|-------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| <b>Combined Radium<br/>226 + 228</b> | <b>2.00</b> |           | 0.343                       | 0.366                       | 5.00 | 0.365 | pCi/L |          | 04/14/19 07:25 | 1       |

# Client Sample Results

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

Job ID: 400-166750-1  
 SDG: Gaston Ash Pond 1190

**Client Sample ID: AZ05136 MW-16V DUP**

**Lab Sample ID: 400-166750-2**

Date Collected: 02/25/19 15:04

Matrix: Water

Date Received: 03/01/19 14:10

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

| Analyte           | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC    | Unit  | Prepared        | Analyzed        | Dil Fac        |
|-------------------|---------------|------------------|-----------------------------|-----------------------------|------|--------|-------|-----------------|-----------------|----------------|
| <b>Radium-226</b> | <b>1.30</b>   |                  | 0.209                       | 0.240                       | 1.00 | 0.0825 | pCi/L | 03/08/19 09:33  | 04/02/19 13:21  | 1              |
| <b>Carrier</b>    | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |        |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier        | 92.0          |                  | 40 - 110                    |                             |      |        |       | 03/08/19 09:33  | 04/02/19 13:21  | 1              |

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

| Analyte           | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|-------------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| <b>Radium-228</b> | <b>1.19</b>   |                  | 0.292                       | 0.311                       | 1.00 | 0.338 | pCi/L | 03/08/19 11:03  | 03/27/19 09:11  | 1              |
| <b>Carrier</b>    | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier        | 92.0          |                  | 40 - 110                    |                             |      |       |       | 03/08/19 11:03  | 03/27/19 09:11  | 1              |
| Y Carrier         | 89.3          |                  | 40 - 110                    |                             |      |       |       | 03/08/19 11:03  | 03/27/19 09:11  | 1              |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                              | Result      | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|-------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| <b>Combined Radium<br/>226 + 228</b> | <b>2.49</b> |           | 0.359                       | 0.393                       | 5.00 | 0.338 | pCi/L |          | 04/14/19 07:25 | 1       |

# Client Sample Results

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

Job ID: 400-166750-1  
 SDG: Gaston Ash Pond 1190

**Client Sample ID: AZ05137 MW-28H**

**Lab Sample ID: 400-166750-3**

Date Collected: 02/26/19 12:45

Matrix: Water

Date Received: 03/01/19 14:10

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

| Analyte           | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC    | Unit  | Prepared        | Analyzed        | Dil Fac        |
|-------------------|---------------|------------------|-----------------------------|-----------------------------|------|--------|-------|-----------------|-----------------|----------------|
| <b>Radium-226</b> | <b>2.91</b>   |                  | 0.310                       | 0.406                       | 1.00 | 0.0957 | pCi/L | 03/08/19 09:33  | 04/02/19 13:21  | 1              |
| <b>Carrier</b>    | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |        |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier        | 92.6          |                  | 40 - 110                    |                             |      |        |       | 03/08/19 09:33  | 04/02/19 13:21  | 1              |

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

| Analyte           | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|-------------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| <b>Radium-228</b> | <b>0.848</b>  |                  | 0.269                       | 0.280                       | 1.00 | 0.344 | pCi/L | 03/08/19 11:03  | 03/27/19 09:12  | 1              |
| <b>Carrier</b>    | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier        | 92.6          |                  | 40 - 110                    |                             |      |       |       | 03/08/19 11:03  | 03/27/19 09:12  | 1              |
| Y Carrier         | 89.3          |                  | 40 - 110                    |                             |      |       |       | 03/08/19 11:03  | 03/27/19 09:12  | 1              |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                              | Result      | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|-------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| <b>Combined Radium<br/>226 + 228</b> | <b>3.76</b> |           | 0.410                       | 0.493                       | 5.00 | 0.344 | pCi/L |          | 04/14/19 07:25 | 1       |



# Client Sample Results

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

Job ID: 400-166750-1  
 SDG: Gaston Ash Pond 1190

**Client Sample ID: AZ05138 FB-1**

**Lab Sample ID: 400-166750-4**

Date Collected: 02/26/19 13:55

Matrix: Water

Date Received: 03/01/19 14:10

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

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-226     | 0.00270       | U                | 0.0498                      | 0.0498                      | 1.00 | 0.107 | pCi/L | 03/08/19 09:33  | 04/02/19 15:11  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 78.5          |                  | 40 - 110                    |                             |      |       |       | 03/08/19 09:33  | 04/02/19 15:11  | 1              |

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

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228     | -0.0661       | U                | 0.210                       | 0.210                       | 1.00 | 0.396 | pCi/L | 03/08/19 11:03  | 03/27/19 09:12  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 78.5          |                  | 40 - 110                    |                             |      |       |       | 03/08/19 11:03  | 03/27/19 09:12  | 1              |
| Y Carrier      | 88.2          |                  | 40 - 110                    |                             |      |       |       | 03/08/19 11:03  | 03/27/19 09:12  | 1              |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result  | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | -0.0634 | U         | 0.216                       | 0.216                       | 5.00 | 0.396 | pCi/L |          | 04/14/19 07:25 | 1       |

# Client Sample Results

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

Job ID: 400-166750-1  
 SDG: Gaston Ash Pond 1190

**Client Sample ID: AZ05139 MW-29H**

**Lab Sample ID: 400-166750-5**

Date Collected: 02/26/19 16:12

Matrix: Water

Date Received: 03/01/19 14:10

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

| Analyte           | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC    | Unit  | Prepared        | Analyzed        | Dil Fac        |
|-------------------|---------------|------------------|-----------------------------|-----------------------------|------|--------|-------|-----------------|-----------------|----------------|
| <b>Radium-226</b> | <b>7.93</b>   |                  | 0.497                       | 0.869                       | 1.00 | 0.0922 | pCi/L | 03/08/19 09:33  | 04/02/19 13:22  | 1              |
| <b>Carrier</b>    | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |        |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier        | 92.9          |                  | 40 - 110                    |                             |      |        |       | 03/08/19 09:33  | 04/02/19 13:22  | 1              |

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

| Analyte           | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|-------------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| <b>Radium-228</b> | <b>2.03</b>   |                  | 0.363                       | 0.408                       | 1.00 | 0.379 | pCi/L | 03/08/19 11:03  | 03/27/19 09:12  | 1              |
| <b>Carrier</b>    | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier        | 92.9          |                  | 40 - 110                    |                             |      |       |       | 03/08/19 11:03  | 03/27/19 09:12  | 1              |
| Y Carrier         | 89.3          |                  | 40 - 110                    |                             |      |       |       | 03/08/19 11:03  | 03/27/19 09:12  | 1              |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                              | Result      | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|-------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| <b>Combined Radium<br/>226 + 228</b> | <b>9.95</b> |           | 0.615                       | 0.960                       | 5.00 | 0.379 | pCi/L |          | 04/14/19 07:25 | 1       |

# Client Sample Results

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

Job ID: 400-166750-1  
 SDG: Gaston Ash Pond 1190

**Client Sample ID: AZ05140 MW-17V**

**Lab Sample ID: 400-166750-6**

Date Collected: 02/27/19 10:18

Matrix: Water

Date Received: 03/01/19 14:10

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

| Analyte           | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC    | Unit  | Prepared        | Analyzed        | Dil Fac        |
|-------------------|---------------|------------------|-----------------------------|-----------------------------|------|--------|-------|-----------------|-----------------|----------------|
| <b>Radium-226</b> | <b>1.44</b>   |                  | 0.210                       | 0.246                       | 1.00 | 0.0879 | pCi/L | 03/08/19 09:27  | 04/02/19 21:20  | 1              |
| <b>Carrier</b>    | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |        |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier        | 96.5          |                  | 40 - 110                    |                             |      |        |       | 03/08/19 09:27  | 04/02/19 21:20  | 1              |

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

| Analyte           | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|-------------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| <b>Radium-228</b> | <b>0.566</b>  |                  | 0.257                       | 0.262                       | 1.00 | 0.374 | pCi/L | 03/08/19 11:06  | 03/27/19 08:59  | 1              |
| <b>Carrier</b>    | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier        | 96.5          |                  | 40 - 110                    |                             |      |       |       | 03/08/19 11:06  | 03/27/19 08:59  | 1              |
| Y Carrier         | 91.2          |                  | 40 - 110                    |                             |      |       |       | 03/08/19 11:06  | 03/27/19 08:59  | 1              |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                              | Result      | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|-------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| <b>Combined Radium<br/>226 + 228</b> | <b>2.01</b> |           | 0.332                       | 0.359                       | 5.00 | 0.374 | pCi/L |          | 04/14/19 07:25 | 1       |

# Client Sample Results

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

Job ID: 400-166750-1  
 SDG: Gaston Ash Pond 1190

**Client Sample ID: AZ05141 MW-20V**

**Lab Sample ID: 400-166750-7**

Date Collected: 02/27/19 12:50

Matrix: Water

Date Received: 03/01/19 14:10

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

| Analyte           | Result       | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC    | Unit  | Prepared       | Analyzed       | Dil Fac |
|-------------------|--------------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| <b>Radium-226</b> | <b>0.837</b> |           | 0.169                       | 0.185                       | 1.00 | 0.0987 | pCi/L | 03/08/19 09:27 | 04/02/19 21:21 | 1       |
| Carrier           | %Yield       | Qualifier | Limits                      |                             |      |        |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier        | 90.3         |           | 40 - 110                    |                             |      |        |       | 03/08/19 09:27 | 04/02/19 21:21 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.251  | U         | 0.247                       | 0.248                       | 1.00 | 0.401 | pCi/L | 03/08/19 11:06 | 03/27/19 08:59 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 90.3   |           | 40 - 110                    |                             |      |       |       | 03/08/19 11:06 | 03/27/19 08:59 | 1       |
| Y Carrier  | 90.5   |           | 40 - 110                    |                             |      |       |       | 03/08/19 11:06 | 03/27/19 08:59 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                              | Result      | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|-------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| <b>Combined Radium<br/>226 + 228</b> | <b>1.09</b> |           | 0.299                       | 0.309                       | 5.00 | 0.401 | pCi/L |          | 04/14/19 07:25 | 1       |

# Client Sample Results

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

Job ID: 400-166750-1  
 SDG: Gaston Ash Pond 1190

**Client Sample ID: AZ05142 EB-1**

**Lab Sample ID: 400-166750-8**

Date Collected: 02/27/19 13:20

Matrix: Water

Date Received: 03/01/19 14:10

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0395 | U         | 0.0588                      | 0.0589                      | 1.00 | 0.101 | pCi/L | 03/08/19 09:27 | 04/02/19 21:22 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 91.7   |           | 40 - 110                    |                             |      |       |       | 03/08/19 09:27 | 04/02/19 21:22 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | -0.107 | U         | 0.184                       | 0.184                       | 1.00 | 0.352 | pCi/L | 03/08/19 11:06 | 03/27/19 08:59 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 91.7   |           | 40 - 110                    |                             |      |       |       | 03/08/19 11:06 | 03/27/19 08:59 | 1       |
| Y Carrier  | 90.8   |           | 40 - 110                    |                             |      |       |       | 03/08/19 11:06 | 03/27/19 08:59 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result  | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | -0.0673 | U         | 0.193                       | 0.193                       | 5.00 | 0.352 | pCi/L |          | 04/14/19 07:25 | 1       |

# Definitions/Glossary

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

Job ID: 400-166750-1  
SDG: Gaston Ash Pond 1190

## 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 Gaston

Job ID: 400-166750-1  
SDG: Gaston Ash Pond 1190

**Client Sample ID: AZ05135 MW-16V**

**Lab Sample ID: 400-166750-1**

**Date Collected: 02/25/19 15:04**

**Matrix: Water**

**Date Received: 03/01/19 14:10**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 418221       | 03/08/19 09:33       | HET     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 422416       | 04/02/19 13:21       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 418230       | 03/08/19 11:03       | HET     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 421368       | 03/27/19 09:11       | KLS     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 423568       | 04/14/19 07:25       | CDR     | TAL SL |

**Client Sample ID: AZ05136 MW-16V DUP**

**Lab Sample ID: 400-166750-2**

**Date Collected: 02/25/19 15:04**

**Matrix: Water**

**Date Received: 03/01/19 14:10**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 418221       | 03/08/19 09:33       | HET     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 422416       | 04/02/19 13:21       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 418230       | 03/08/19 11:03       | HET     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 421368       | 03/27/19 09:11       | KLS     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 423568       | 04/14/19 07:25       | CDR     | TAL SL |

**Client Sample ID: AZ05137 MW-28H**

**Lab Sample ID: 400-166750-3**

**Date Collected: 02/26/19 12:45**

**Matrix: Water**

**Date Received: 03/01/19 14:10**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 418221       | 03/08/19 09:33       | HET     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 422416       | 04/02/19 13:21       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 418230       | 03/08/19 11:03       | HET     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 421368       | 03/27/19 09:12       | KLS     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 423568       | 04/14/19 07:25       | CDR     | TAL SL |

**Client Sample ID: AZ05138 FB-1**

**Lab Sample ID: 400-166750-4**

**Date Collected: 02/26/19 13:55**

**Matrix: Water**

**Date Received: 03/01/19 14:10**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 418221       | 03/08/19 09:33       | HET     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 422416       | 04/02/19 15:11       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 418230       | 03/08/19 11:03       | HET     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 421368       | 03/27/19 09:12       | KLS     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 423568       | 04/14/19 07:25       | CDR     | TAL SL |

# Lab Chronicle

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

Job ID: 400-166750-1  
SDG: Gaston Ash Pond 1190

**Client Sample ID: AZ05139 MW-29H**

**Lab Sample ID: 400-166750-5**

**Date Collected: 02/26/19 16:12**

**Matrix: Water**

**Date Received: 03/01/19 14:10**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 418221       | 03/08/19 09:33       | HET     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 422416       | 04/02/19 13:22       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 418230       | 03/08/19 11:03       | HET     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 421368       | 03/27/19 09:12       | KLS     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 423568       | 04/14/19 07:25       | CDR     | TAL SL |

**Client Sample ID: AZ05140 MW-17V**

**Lab Sample ID: 400-166750-6**

**Date Collected: 02/27/19 10:18**

**Matrix: Water**

**Date Received: 03/01/19 14:10**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 418219       | 03/08/19 09:27       | HET     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 422416       | 04/02/19 21:20       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 418231       | 03/08/19 11:06       | HET     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 421367       | 03/27/19 08:59       | CDR     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 423568       | 04/14/19 07:25       | CDR     | TAL SL |

**Client Sample ID: AZ05141 MW-20V**

**Lab Sample ID: 400-166750-7**

**Date Collected: 02/27/19 12:50**

**Matrix: Water**

**Date Received: 03/01/19 14:10**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 418219       | 03/08/19 09:27       | HET     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 422416       | 04/02/19 21:21       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 418231       | 03/08/19 11:06       | HET     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 421367       | 03/27/19 08:59       | CDR     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 423568       | 04/14/19 07:25       | CDR     | TAL SL |

**Client Sample ID: AZ05142 EB-1**

**Lab Sample ID: 400-166750-8**

**Date Collected: 02/27/19 13:20**

**Matrix: Water**

**Date Received: 03/01/19 14:10**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 418219       | 03/08/19 09:27       | HET     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 422416       | 04/02/19 21:22       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 418231       | 03/08/19 11:06       | HET     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 421367       | 03/27/19 08:59       | CDR     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 423568       | 04/14/19 07:25       | CDR     | 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 Gaston

Job ID: 400-166750-1  
 SDG: Gaston Ash Pond 1190

## Rad

### Prep Batch: 418219

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method     | Prep Batch |
|----------------------|------------------------|-----------|--------|------------|------------|
| 400-166750-6         | AZ05140 MW-17V         | Total/NA  | Water  | PrecSep-21 |            |
| 400-166750-7         | AZ05141 MW-20V         | Total/NA  | Water  | PrecSep-21 |            |
| 400-166750-8         | AZ05142 EB-1           | Total/NA  | Water  | PrecSep-21 |            |
| MB 160-418219/24-A   | Method Blank           | Total/NA  | Water  | PrecSep-21 |            |
| LCS 160-418219/1-A   | Lab Control Sample     | Total/NA  | Water  | PrecSep-21 |            |
| 440-235076-A-1-B MS  | Matrix Spike           | Total/NA  | Water  | PrecSep-21 |            |
| 440-235076-A-1-C MSD | Matrix Spike Duplicate | Total/NA  | Water  | PrecSep-21 |            |

### Prep Batch: 418221

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method     | Prep Batch |
|---------------------|------------------------|-----------|--------|------------|------------|
| 400-166750-1        | AZ05135 MW-16V         | Total/NA  | Water  | PrecSep-21 |            |
| 400-166750-2        | AZ05136 MW-16V DUP     | Total/NA  | Water  | PrecSep-21 |            |
| 400-166750-3        | AZ05137 MW-28H         | Total/NA  | Water  | PrecSep-21 |            |
| 400-166750-4        | AZ05138 FB-1           | Total/NA  | Water  | PrecSep-21 |            |
| 400-166750-5        | AZ05139 MW-29H         | Total/NA  | Water  | PrecSep-21 |            |
| MB 160-418221/24-B  | Method Blank           | Total/NA  | Water  | PrecSep-21 |            |
| LCS 160-418221/1-A  | Lab Control Sample     | Total/NA  | Water  | PrecSep-21 |            |
| 160-33136-A-2-B MS  | Matrix Spike           | Total/NA  | Water  | PrecSep-21 |            |
| 160-33136-A-2-C MSD | Matrix Spike Duplicate | Total/NA  | Water  | PrecSep-21 |            |
| 400-166750-3 DU     | AZ05137 MW-28H         | Total/NA  | Water  | PrecSep-21 |            |

### Prep Batch: 418230

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method    | Prep Batch |
|--------------------|--------------------|-----------|--------|-----------|------------|
| 400-166750-1       | AZ05135 MW-16V     | Total/NA  | Water  | PrecSep_0 |            |
| 400-166750-2       | AZ05136 MW-16V DUP | Total/NA  | Water  | PrecSep_0 |            |
| 400-166750-3       | AZ05137 MW-28H     | Total/NA  | Water  | PrecSep_0 |            |
| 400-166750-4       | AZ05138 FB-1       | Total/NA  | Water  | PrecSep_0 |            |
| 400-166750-5       | AZ05139 MW-29H     | Total/NA  | Water  | PrecSep_0 |            |
| MB 160-418230/24-A | Method Blank       | Total/NA  | Water  | PrecSep_0 |            |
| LCS 160-418230/1-A | Lab Control Sample | Total/NA  | Water  | PrecSep_0 |            |
| 400-166750-3 DU    | AZ05137 MW-28H     | Total/NA  | Water  | PrecSep_0 |            |

### Prep Batch: 418231

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method    | Prep Batch |
|----------------------|------------------------|-----------|--------|-----------|------------|
| 400-166750-6         | AZ05140 MW-17V         | Total/NA  | Water  | PrecSep_0 |            |
| 400-166750-7         | AZ05141 MW-20V         | Total/NA  | Water  | PrecSep_0 |            |
| 400-166750-8         | AZ05142 EB-1           | Total/NA  | Water  | PrecSep_0 |            |
| MB 160-418231/24-A   | Method Blank           | Total/NA  | Water  | PrecSep_0 |            |
| LCS 160-418231/1-A   | Lab Control Sample     | Total/NA  | Water  | PrecSep_0 |            |
| 440-235076-A-1-D MS  | Matrix Spike           | Total/NA  | Water  | PrecSep_0 |            |
| 440-235076-A-1-E MSD | Matrix Spike Duplicate | Total/NA  | Water  | PrecSep_0 |            |

# QC Sample Results

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

Job ID: 400-166750-1  
 SDG: Gaston Ash Pond 1190

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

**Lab Sample ID: MB 160-418219/24-A**  
**Matrix: Water**  
**Analysis Batch: 422416**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 418219**

| Analyte    | MB MB   |           | Count           | Total           | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|---------|-----------|-----------------|-----------------|------|-------|-------|----------------|----------------|---------|
|            | Result  | Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) |      |       |       |                |                |         |
| Radium-226 | 0.05094 | U         | 0.0618          | 0.0619          | 1.00 | 0.101 | pCi/L | 03/08/19 09:27 | 04/02/19 23:12 | 1       |
| Carrier    | MB MB   |           | Limits          |                 |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | %Yield  | Qualifier | 40 - 110        |                 |      |       |       | 03/08/19 09:27 | 04/02/19 23:12 | 1       |
|            | 95.3    |           |                 |                 |      |       |       |                |                |         |

**Lab Sample ID: LCS 160-418219/1-A**  
**Matrix: Water**  
**Analysis Batch: 422416**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 418219**

| Analyte    | Spike Added | LCS Result    | LCS Qual | Total           | RL   | MDC    | Unit  | %Rec | %Rec. Limits |
|------------|-------------|---------------|----------|-----------------|------|--------|-------|------|--------------|
|            |             |               |          | Uncert. (2σ+/-) |      |        |       |      |              |
| Radium-226 | 11.4        | 9.018         |          | 0.969           | 1.00 | 0.0778 | pCi/L | 79   | 68 - 137     |
| Carrier    | LCS %Yield  | LCS Qualifier | Limits   |                 |      |        |       |      |              |
| Ba Carrier | 96.8        |               | 40 - 110 |                 |      |        |       |      |              |

**Lab Sample ID: 440-235076-A-1-B MS**  
**Matrix: Water**  
**Analysis Batch: 422365**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 418219**

| Analyte    | Sample Result | Sample Qual  | Spike Added | MS Result | MS Qual | Total           | RL   | MDC   | Unit  | %Rec | %Rec. Limits |
|------------|---------------|--------------|-------------|-----------|---------|-----------------|------|-------|-------|------|--------------|
|            |               |              |             |           |         | Uncert. (2σ+/-) |      |       |       |      |              |
| Radium-226 | -0.0204       | U            | 15.1        | 11.93     |         | 1.30            | 1.00 | 0.127 | pCi/L | 79   | 75 - 138     |
| Carrier    | MS %Yield     | MS Qualifier | Limits      |           |         |                 |      |       |       |      |              |
| Ba Carrier | 83.8          |              | 40 - 110    |           |         |                 |      |       |       |      |              |

**Lab Sample ID: 440-235076-A-1-C MSD**  
**Matrix: Water**  
**Analysis Batch: 422455**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 418219**

| Analyte    | Sample Result | Sample Qual   | Spike Added | MSD Result | MSD Qual | Total           | RL   | MDC   | Unit  | %Rec | %Rec. Limits | RER  | RER Limit |
|------------|---------------|---------------|-------------|------------|----------|-----------------|------|-------|-------|------|--------------|------|-----------|
|            |               |               |             |            |          | Uncert. (2σ+/-) |      |       |       |      |              |      |           |
| Radium-226 | -0.0204       | U             | 15.1        | 12.93      |          | 1.41            | 1.00 | 0.149 | pCi/L | 85   | 75 - 138     | 0.37 | 1         |
| Carrier    | MSD %Yield    | MSD Qualifier | Limits      |            |          |                 |      |       |       |      |              |      |           |
| Ba Carrier | 90.9          |               | 40 - 110    |            |          |                 |      |       |       |      |              |      |           |

**Lab Sample ID: MB 160-418221/24-B**  
**Matrix: Water**  
**Analysis Batch: 422365**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 418221**

| Analyte    | MB MB   |           | Count           | Total           | RL   | MDC    | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|---------|-----------|-----------------|-----------------|------|--------|-------|----------------|----------------|---------|
|            | Result  | Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) |      |        |       |                |                |         |
| Radium-226 | 0.05078 | U         | 0.0505          | 0.0507          | 1.00 | 0.0752 | pCi/L | 03/08/19 09:33 | 04/02/19 13:24 | 1       |

Eurofins TestAmerica, Pensacola

# QC Sample Results

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

Job ID: 400-166750-1  
SDG: Gaston Ash Pond 1190

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

**Lab Sample ID: MB 160-418221/24-B**  
**Matrix: Water**  
**Analysis Batch: 422365**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 418221**

|                | <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     | 100           |                  | 40 - 110      | 03/08/19 09:33  | 04/02/19 13:24  | 1              |  |

**Lab Sample ID: LCS 160-418221/1-A**  
**Matrix: Water**  
**Analysis Batch: 422398**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 418221**

| <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-226     | 11.4               | 8.119             |                 | 0.883                        | 1.00      | 0.0921     | pCi/L       | 72          | 68 - 137            |

|                | <i>LCS</i>    | <i>LCS</i>       |               |  |  |  |  |
|----------------|---------------|------------------|---------------|--|--|--|--|
| <i>Carrier</i> | <i>%Yield</i> | <i>Qualifier</i> | <i>Limits</i> |  |  |  |  |
| Ba Carrier     | 104           |                  | 40 - 110      |  |  |  |  |

**Lab Sample ID: 160-33136-A-2-B MS**  
**Matrix: Water**  
**Analysis Batch: 422365**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 418221**

| <i>Analyte</i> | <i>Sample Result</i> | <i>Sample Qual</i> | <i>Spike Added</i> | <i>MS Result</i> | <i>MS Qual</i> | <i>Total Uncert. (2σ+/-)</i> | <i>RL</i> | <i>MDC</i> | <i>Unit</i> | <i>%Rec</i> | <i>%Rec. Limits</i> |
|----------------|----------------------|--------------------|--------------------|------------------|----------------|------------------------------|-----------|------------|-------------|-------------|---------------------|
| Radium-226     | 0.0794               | U                  | 22.7               | 19.59            |                | 2.15                         | 1.00      | 0.246      | pCi/L       | 86          | 75 - 138            |

|                | <i>MS</i>     | <i>MS</i>        |               |  |  |  |  |
|----------------|---------------|------------------|---------------|--|--|--|--|
| <i>Carrier</i> | <i>%Yield</i> | <i>Qualifier</i> | <i>Limits</i> |  |  |  |  |
| Ba Carrier     | 76.4          |                  | 40 - 110      |  |  |  |  |

**Lab Sample ID: 160-33136-A-2-C MSD**  
**Matrix: Water**  
**Analysis Batch: 422365**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 418221**

| <i>Analyte</i> | <i>Sample Result</i> | <i>Sample Qual</i> | <i>Spike Added</i> | <i>MSD Result</i> | <i>MSD Qual</i> | <i>Total Uncert. (2σ+/-)</i> | <i>RL</i> | <i>MDC</i> | <i>Unit</i> | <i>%Rec</i> | <i>%Rec. Limits</i> | <i>RER</i> | <i>RER Limit</i> |
|----------------|----------------------|--------------------|--------------------|-------------------|-----------------|------------------------------|-----------|------------|-------------|-------------|---------------------|------------|------------------|
| Radium-226     | 0.0794               | U                  | 22.7               | 19.27             |                 | 2.10                         | 1.00      | 0.192      | pCi/L       | 85          | 75 - 138            | 0.08       | 1                |

|                | <i>MSD</i>    | <i>MSD</i>       |               |  |  |  |  |
|----------------|---------------|------------------|---------------|--|--|--|--|
| <i>Carrier</i> | <i>%Yield</i> | <i>Qualifier</i> | <i>Limits</i> |  |  |  |  |
| Ba Carrier     | 80.2          |                  | 40 - 110      |  |  |  |  |

**Lab Sample ID: 400-166750-3 DU**  
**Matrix: Water**  
**Analysis Batch: 422416**

**Client Sample ID: AZ05137 MW-28H**  
**Prep Type: Total/NA**  
**Prep Batch: 418221**

| <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>%Rec</i> | <i>%Rec. Limits</i> | <i>RER</i> | <i>RER Limit</i> |
|----------------|----------------------|--------------------|------------------|----------------|------------------------------|-----------|------------|-------------|-------------|---------------------|------------|------------------|
| Radium-226     | 2.91                 |                    | 2.838            |                | 0.401                        | 1.00      | 0.0848     | pCi/L       |             |                     | 0.09       | 1                |

|                | <i>DU</i>     | <i>DU</i>        |               |  |  |  |  |
|----------------|---------------|------------------|---------------|--|--|--|--|
| <i>Carrier</i> | <i>%Yield</i> | <i>Qualifier</i> | <i>Limits</i> |  |  |  |  |
| Ba Carrier     | 91.4          |                  | 40 - 110      |  |  |  |  |

# QC Sample Results

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

Job ID: 400-166750-1  
SDG: Gaston Ash Pond 1190

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

**Lab Sample ID: MB 160-418230/24-A**  
**Matrix: Water**  
**Analysis Batch: 421368**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 418230**

| Analyte    | MB        | MB           | Count           | Total           | RL             | MDC            | Unit    | Prepared       | Analyzed       | Dil Fac |
|------------|-----------|--------------|-----------------|-----------------|----------------|----------------|---------|----------------|----------------|---------|
|            | Result    | Qualifier    | Uncert. (2σ+/-) | Uncert. (2σ+/-) |                |                |         |                |                |         |
| Radium-228 | 0.08070   | U            | 0.221           | 0.221           | 1.00           | 0.381          | pCi/L   | 03/08/19 11:03 | 03/27/19 09:12 | 1       |
| Carrier    | MB %Yield | MB Qualifier | Limits          |                 | Prepared       | Analyzed       | Dil Fac |                |                |         |
| Ba Carrier | 100       |              | 40 - 110        |                 | 03/08/19 11:03 | 03/27/19 09:12 | 1       |                |                |         |
| Y Carrier  | 85.2      |              | 40 - 110        |                 | 03/08/19 11:03 | 03/27/19 09:12 | 1       |                |                |         |

**Lab Sample ID: LCS 160-418230/1-A**  
**Matrix: Water**  
**Analysis Batch: 421368**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 418230**

| Analyte    | Spike Added | LCS Result    | LCS Qual | Total           | RL   | MDC   | Unit  | %Rec | %Rec. Limits |
|------------|-------------|---------------|----------|-----------------|------|-------|-------|------|--------------|
|            |             |               |          | Uncert. (2σ+/-) |      |       |       |      |              |
| Radium-228 | 9.36        | 8.869         |          | 1.03            | 1.00 | 0.354 | pCi/L | 95   | 56 - 140     |
| Carrier    | LCS %Yield  | LCS Qualifier | Limits   |                 |      |       |       |      |              |
| Ba Carrier | 104         |               | 40 - 110 |                 |      |       |       |      |              |
| Y Carrier  | 83.0        |               | 40 - 110 |                 |      |       |       |      |              |

**Lab Sample ID: 400-166750-3 DU**  
**Matrix: Water**  
**Analysis Batch: 421368**

**Client Sample ID: AZ05137 MW-28H**  
**Prep Type: Total/NA**  
**Prep Batch: 418230**

| Analyte    | Sample    | Sample       | DU       | DU   | Total           | RL   | MDC   | Unit  | RER  | RER Limit |
|------------|-----------|--------------|----------|------|-----------------|------|-------|-------|------|-----------|
|            | Result    | Qual         | Result   | Qual | Uncert. (2σ+/-) |      |       |       |      |           |
| Radium-228 | 0.848     |              | 0.7509   |      | 0.268           | 1.00 | 0.339 | pCi/L | 0.18 | 1         |
| Carrier    | DU %Yield | DU Qualifier | Limits   |      |                 |      |       |       |      |           |
| Ba Carrier | 91.4      |              | 40 - 110 |      |                 |      |       |       |      |           |
| Y Carrier  | 89.0      |              | 40 - 110 |      |                 |      |       |       |      |           |

**Lab Sample ID: MB 160-418231/24-A**  
**Matrix: Water**  
**Analysis Batch: 421368**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 418231**

| Analyte    | MB        | MB           | Count           | Total           | RL             | MDC            | Unit    | Prepared       | Analyzed       | Dil Fac |
|------------|-----------|--------------|-----------------|-----------------|----------------|----------------|---------|----------------|----------------|---------|
|            | Result    | Qualifier    | Uncert. (2σ+/-) | Uncert. (2σ+/-) |                |                |         |                |                |         |
| Radium-228 | 0.1474    | U            | 0.229           | 0.230           | 1.00           | 0.385          | pCi/L   | 03/08/19 11:06 | 03/27/19 09:02 | 1       |
| Carrier    | MB %Yield | MB Qualifier | Limits          |                 | Prepared       | Analyzed       | Dil Fac |                |                |         |
| Ba Carrier | 95.3      |              | 40 - 110        |                 | 03/08/19 11:06 | 03/27/19 09:02 | 1       |                |                |         |
| Y Carrier  | 85.2      |              | 40 - 110        |                 | 03/08/19 11:06 | 03/27/19 09:02 | 1       |                |                |         |

# QC Sample Results

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

Job ID: 400-166750-1  
 SDG: Gaston Ash Pond 1190

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

**Lab Sample ID: LCS 160-418231/1-A**  
**Matrix: Water**  
**Analysis Batch: 421367**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 418231**

| Analyte    | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL   | MDC   | Unit  | %Rec | %Rec. Limits |
|------------|-------------|------------|----------|-----------------------|------|-------|-------|------|--------------|
| Radium-228 | 9.36        | 9.011      |          | 1.04                  | 1.00 | 0.333 | pCi/L | 96   | 56 - 140     |

| Carrier    | LCS %Yield | LCS Qualifier | Limits   |
|------------|------------|---------------|----------|
| Ba Carrier | 96.8       |               | 40 - 110 |
| Y Carrier  | 88.2       |               | 40 - 110 |

**Lab Sample ID: 440-235076-A-1-D MS**  
**Matrix: Water**  
**Analysis Batch: 421367**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 418231**

| Analyte    | Sample Result | Sample Qual | Spike Added | MS Result | MS Qual | Total Uncert. (2σ+/-) | RL   | MDC   | Unit  | %Rec | %Rec. Limits |
|------------|---------------|-------------|-------------|-----------|---------|-----------------------|------|-------|-------|------|--------------|
| Radium-228 | 0.275         | U           | 12.5        | 12.65     |         | 1.50                  | 1.00 | 0.568 | pCi/L | 99   | 45 - 150     |

| Carrier    | MS %Yield | MS Qualifier | Limits   |
|------------|-----------|--------------|----------|
| Ba Carrier | 83.8      |              | 40 - 110 |
| Y Carrier  | 88.2      |              | 40 - 110 |

**Lab Sample ID: 440-235076-A-1-E MSD**  
**Matrix: Water**  
**Analysis Batch: 421367**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 418231**

| 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 | 0.275         | U           | 12.5        | 11.86      |          | 1.41                  | 1.00 | 0.504 | pCi/L | 93   | 45 - 150     | 0.27 | 1         |

| Carrier    | MSD %Yield | MSD Qualifier | Limits   |
|------------|------------|---------------|----------|
| Ba Carrier | 90.9       |               | 40 - 110 |
| Y Carrier  | 84.5       |               | 40 - 110 |

## Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228

**Lab Sample ID: 400-166750-3 DU**  
**Matrix: Water**  
**Analysis Batch: 423568**

**Client Sample ID: AZ05137 MW-28H**  
**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 | 3.76          |             | 3.589     |         | 0.482                 | 5.00 | 0.339 | pCi/L | 0.18 |           |

**TestAmerica Pensacola**  
 3355 McLemore Drive  
 Pensacola, FL 32514  
 Phone (850) 474-1001 Fax (850) 478-2871

### Chain of Custody Record

**TestAmerica**  
 THE LEADER IN ENVIRONMENTAL TESTING

|                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                                 |  |                                                                                                     |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------|--|
| <b>Client Information</b><br>Client Contact: Laura Mickliff<br>Company: Alabama Power General Test Laboratory<br>Address: 744 County Rd 87 GSC #8<br>City: Callera<br>State, Zip: AL 35040<br>Phone: 205-664-6197 (Tel)<br>Email: lmickliff@southernco.com<br>Project Name: CCR<br>Site: Gaston Ash Pond 1190                                                                  |  | Lab PM: Whitmore, Chelymer R<br>E-Mail: chelymer.whitmore@testamericainc.com                                                    |  | Carrier Tracking Note:<br>COC No: 400-56525-24537.1<br>Page: Page 1 of 1<br>Job #:                  |  |
| <b>Due Date Requested:</b><br>TAT Requested (days):<br>Routine<br>PO #: 40037143<br>WO #: SSOV#                                                                                                                                                                                                                                                                                |  | <b>Analysis Requested</b><br>Perform MS/MSD (Yes or No)                                                                         |  |                                                                                                     |  |
| <b>Sample Identification</b><br>Sample Date<br>Sample Time<br>Sample Type (C-Comp, G-grab)<br>Matrix (Water, Solid, Gas, etc.)<br>Preservation Code                                                                                                                                                                                                                            |  | Field Filtered Sample (Yes or No)                                                                                               |  |                                                                                                     |  |
| AZ05135<br>AZ05136<br>AZ05137<br>AZ05138<br>AZ05139<br>AZ05140<br>AZ05141<br>AZ05142                                                                                                                                                                                                                                                                                           |  | 2/25/19<br>15:04<br>G<br>Water                                                                                                  |  | X<br>SM 4500 F.C<br>SM 4500 CLE<br>SM 4500 SO4.E<br>9315_Ra226, 9320_Ra226, Ra226, Ra226Ra228, GPFC |  |
| <b>Special Instructions/Note:</b><br>Total Number of containers                                                                                                                                                                                                                                                                                                                |  | MW-16V<br>MW-16V DUP (Sample Duplicate)<br>MW-28H<br>FE-1 (Field Blank)<br>MW-29H<br>MW-17V<br>MW-20V<br>EB-1 (Equipment Blank) |  |                                                                                                     |  |
| <b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b><br><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<br>Deliverable Requested: I, II, III, IV, Other (specify) |  |                                                                                                                                 |  |                                                                                                     |  |
| <b>Empty Kit Relinquished by:</b><br>Relinquished by: Laura Mickliff<br>Date: 2/25/2019 11:40<br>Company: APC                                                                                                                                                                                                                                                                  |  |                                                                                                                                 |  |                                                                                                     |  |
| <b>Method of Shipment:</b><br>Relinquished by: Laura Mickliff<br>Date/Time: 2/25/19 14:10<br>Company: APC                                                                                                                                                                                                                                                                      |  |                                                                                                                                 |  |                                                                                                     |  |
| <b>Custody Seal No.:</b><br>Custody Seal No.: 20.0°C<br>Δ Yes Δ No                                                                                                                                                                                                                                                                                                             |  |                                                                                                                                 |  |                                                                                                     |  |



## Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-166750-1  
SDG Number: Gaston Ash Pond 1190

**Login Number: 166750**

**List Number: 1**

**Creator: Perez, Trina M**

**List Source: Eurofins TestAmerica, Pensacola**

| Question                                                                                            | Answer | Comment     |
|-----------------------------------------------------------------------------------------------------|--------|-------------|
| Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.      | N/A    |             |
| The cooler's custody seal, if present, is intact.                                                   | True   |             |
| Sample custody seals, if present, are intact.                                                       | N/A    |             |
| The cooler or samples do not appear to have been compromised or tampered with.                      | True   |             |
| Samples were received on ice.                                                                       | N/A    |             |
| Cooler Temperature is acceptable.                                                                   | True   |             |
| Cooler Temperature is recorded.                                                                     | True   | 20.0°C IR-8 |
| COC is present.                                                                                     | True   |             |
| COC is filled out in ink and legible.                                                               | True   |             |
| COC is filled out with all pertinent information.                                                   | True   |             |
| Is the Field Sampler's name present on COC?                                                         | True   |             |
| There are no discrepancies between the containers received and the COC.                             | True   |             |
| Samples are received within Holding Time (excluding tests with immediate HTs)                       | True   |             |
| Sample containers have legible labels.                                                              | True   |             |
| Containers are not broken or leaking.                                                               | True   |             |
| Sample collection date/times are provided.                                                          | True   |             |
| Appropriate sample containers are used.                                                             | True   |             |
| Sample bottles are completely filled.                                                               | True   |             |
| Sample Preservation Verified.                                                                       | True   |             |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs                    | True   |             |
| Containers requiring zero headspace have no headspace or bubble is <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: 400-166750-1  
SDG Number: Gaston Ash Pond 1190

**Login Number: 166750**

**List Number: 2**

**Creator: Hellm, Michael**

**List Source: Eurofins TestAmerica, St. Louis**

**List Creation: 03/05/19 05:37 PM**

| Question                                                                                            | Answer | Comment |
|-----------------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is <math>\leq</math> 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 Gaston

Job ID: 400-166750-1  
 SDG: Gaston Ash Pond 1190

## 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 Gaston

Job ID: 400-166750-1  
 SDG: Gaston Ash Pond 1190

## 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               | 03-31-19 *      |
| 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 General Test Laboratory  
744 County Road 87, GSC#8  
Calera, AL 35040  
(205) 664-6032 or 6171  
FAX (205) 257-1654

## ***Field Case Narrative***



### **E.C. Gaston Ash Pond**

#### **Partial Resample-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).

The weather was cloudy and rainy while pumping and sampling wells MW-20SV, MW-23D, MW-23S and MW-27.

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 :** WMWGASAP\_1197  
**Project/Site :** Gaston Ash Pond  
Wilsonville, AL 35186  
**For :** Southern Company Services  
3535 Colonnade Parkway  
Birmingham, AL 35243  
**Attention :** Dustin Brooks, Greg Dyer, & Lauren Parker  
**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: 2019.03.26 09:05:00 -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: 2019.03.29 09:50:36 -0500



Alkalinity

Gaston Ash Pond

WMWGASAP\_1197

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> |
|------------------|-----------------|-------------------|
| AZ00179          | 635980 & 635981 | WMWGASAP_1197     |
| AZ00180          | 635980 & 635981 | WMWGASAP_1197     |
| AZ00183          | 635980 & 635981 | WMWGASAP_1197     |
| AZ00184          | 635980 & 635981 | WMWGASAP_1197     |
| AZ00185          | 635980 & 635981 | WMWGASAP_1197     |
| AZ00186          | 635980 & 635981 | WMWGASAP_1197     |
| AZ00187          | 635980 & 635981 | WMWGASAP_1197     |

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.



TDS

Gaston Ash Pond

WMWGASAP\_1197

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> |
|------------------|-----------------|-------------------|
| AZ00179          | 635844          | WMWGASAP_1197     |
| AZ00180          | 635844          | WMWGASAP_1197     |
| AZ00181          | 635844          | WMWGASAP_1197     |
| AZ00182          | 635844          | WMWGASAP_1197     |

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:
  - AZ00181
  - AZ00182

Alabama Power General Test Laboratory  
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# Certificate Of Analysis



Revised Copy



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 02-Jan-19  
 Customer ID:  
 Delivery Date: 03-Jan-19

Description: Gaston Ash Pond - MW-20SV

Laboratory ID Number: AZ00179

| Name                             | Analyst | Test Date | Reference    | Vio Spec | DF | MDL | RL   | Q Results  | Units |
|----------------------------------|---------|-----------|--------------|----------|----|-----|------|------------|-------|
| <b>General Characteristics</b>   |         |           |              |          |    |     |      |            |       |
| pH for Alkalinity                | EMG     | 1/11/2019 | SM 4500H+ B  |          | 1  |     | 4.00 | 7.35       | SU    |
| Alkalinity, Total as CaCO3       | EMG     | 1/11/2019 | SM 2320 B    |          | 1  |     | 0.1  | 182        | mg/L  |
| Carbonate Alkalinity, as CaCO3   | EMG     | 1/11/2019 | SM 4500CO2 D |          | 1  |     |      | 0.38       | mg/L  |
| Bicarbonate Alkalinity, as CaCO3 | EMG     | 1/11/2019 | SM 4500CO2 D |          | 1  |     |      | 182        | mg/L  |
| * Solids, Dissolved              | CRB     | 1/10/2019 | SM 2540C     |          | 1  |     | 25   | 530        | mg/L  |
| Filter Completion Date           | CRB     | 1/7/2019  | SM 2540C     |          | 1  |     |      | 01/07/2019 | Date  |

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Laboratory certification ID: E571114

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Expiration: June 30, 2019

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# Batch QC Summary



Revised Copy



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 02-Jan-19  
 Customer ID:  
 Delivery Date: 03-Jan-19

Description: Gaston Ash Pond - MW-20SV

Laboratory ID Number: AZ00179

| Sample | Analysis | Units | MB | Limit | Spike | MS | MSD | LCS | Limit | Rec | Limit | Prec | Limit |
|--------|----------|-------|----|-------|-------|----|-----|-----|-------|-----|-------|------|-------|
|--------|----------|-------|----|-------|-------|----|-----|-----|-------|-----|-------|------|-------|

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# Batch QC Summary



Revised Copy



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 02-Jan-19  
 Customer ID:  
 Delivery Date: 03-Jan-19

Description: Gaston Ash Pond - MW-20SV

Laboratory ID Number: AZ00179

| Sample  | Analysis                   | Units | MB     | Limit | Spike | MS | Sample Duplicate | LCS  | LCS Limit    | Rec | Rec Limit | Prec  | Prec Limit |
|---------|----------------------------|-------|--------|-------|-------|----|------------------|------|--------------|-----|-----------|-------|------------|
| AZ00187 | Alkalinity, Total as CaCO3 | mg/L  |        |       |       |    | 95.2             | 50.0 | 45.0 to 55.0 |     |           | 0.105 | 10         |
| AZ00180 | Solids, Dissolved          | mg/L  | 0.0000 | 25    |       |    | 503              | 53.0 | 40 to 60     |     |           | 0.500 | 5          |
| AZ00187 | pH for Alkalinity          | SU    |        |       |       |    |                  | 6.98 | 6.95 to 7.05 |     |           |       |            |

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**Certificate Of Analysis**  **Alabama Power**

Revised Copy



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 02-Jan-19  
 Customer ID:  
 Delivery Date: 03-Jan-19

Description: Gaston Ash Pond - MW-20SV DUP

Laboratory ID Number: AZ00180

| Name                             | Analyst | Test Date | Reference    | Vio Spec | DF | MDL | RL   | Q Results  | Units |
|----------------------------------|---------|-----------|--------------|----------|----|-----|------|------------|-------|
| <b>General Characteristics</b>   |         |           |              |          |    |     |      |            |       |
| pH for Alkalinity                | EMG     | 1/11/2019 | SM 4500H+ B  |          | 1  |     | 4.00 | 7.36       | SU    |
| Alkalinity, Total as CaCO3       | EMG     | 1/11/2019 | SM 2320 B    |          | 1  |     | 0.1  | 182        | mg/L  |
| Carbonate Alkalinity, as CaCO3   | EMG     | 1/11/2019 | SM 4500CO2 D |          | 1  |     |      | 0.39       | mg/L  |
| Bicarbonate Alkalinity, as CaCO3 | EMG     | 1/11/2019 | SM 4500CO2 D |          | 1  |     |      | 182        | mg/L  |
| * Solids, Dissolved              | CRB     | 1/10/2019 | SM 2540C     |          | 1  |     | 25   | 498        | mg/L  |
| Filter Completion Date           | CRB     | 1/7/2019  | SM 2540C     |          | 1  |     |      | 01/07/2019 | Date  |

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# Batch QC Summary



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To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 02-Jan-19  
 Customer ID:  
 Delivery Date: 03-Jan-19

Description: Gaston Ash Pond - MW-20SV DUP

Laboratory ID Number: AZ00180

| Sample | Analysis | Units | MB | Limit | Spike | MS | MSD | LCS | Limit | Rec | Limit | Prec | Limit |
|--------|----------|-------|----|-------|-------|----|-----|-----|-------|-----|-------|------|-------|
|--------|----------|-------|----|-------|-------|----|-----|-----|-------|-----|-------|------|-------|

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# Batch QC Summary



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To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 02-Jan-19  
 Customer ID:  
 Delivery Date: 03-Jan-19

Description: Gaston Ash Pond - MW-20SV DUP

Laboratory ID Number: AZ00180

| Sample  | Analysis                   | Units | MB     | Limit | Spike | MS | Sample Duplicate | LCS  | LCS Limit    | Rec | Rec Limit | Prec  | Prec Limit |
|---------|----------------------------|-------|--------|-------|-------|----|------------------|------|--------------|-----|-----------|-------|------------|
| AZ00187 | Alkalinity, Total as CaCO3 | mg/L  |        |       |       |    | 95.2             | 50.0 | 45.0 to 55.0 |     |           | 0.105 | 10         |
| AZ00187 | pH for Alkalinity          | SU    |        |       |       |    |                  | 6.98 | 6.95 to 7.05 |     |           |       |            |
| AZ00180 | Solids, Dissolved          | mg/L  | 0.0000 | 25    |       |    | 503              | 53.0 | 40 to 60     |     |           | 0.500 | 5          |

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# Certificate Of Analysis



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAPFB  
 Sample Date: 02-Jan-19  
 Customer ID:  
 Delivery Date: 03-Jan-19

Description: Gaston Ash Pond Field Blank

Laboratory ID Number: AZ00181

| Name                           | Analyst | Test Date | Reference | Vio Spec | DF | MDL | RL | Q Results      | Units |
|--------------------------------|---------|-----------|-----------|----------|----|-----|----|----------------|-------|
| <b>General Characteristics</b> |         |           |           |          |    |     |    |                |       |
| Filter Completion Date         | CRB     | 1/7/2019  | SM 2540C  |          | 1  |     |    | 01/07/2019     | Date  |
| * Solids, Dissolved            | CRB     | 1/10/2019 | SM 2540C  |          | 1  |     | 25 | U Not Detected | mg/L  |

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# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAPFB  
 Sample Date: 02-Jan-19  
 Customer ID:  
 Delivery Date: 03-Jan-19

Description: Gaston Ash Pond Field Blank

Laboratory ID Number: AZ00181

| Sample | Analysis | Units | MB    | MB    | MS | MSD | LCS   | LCS | Rec   | Rec   | Prec  | Prec  |
|--------|----------|-------|-------|-------|----|-----|-------|-----|-------|-------|-------|-------|
|        |          |       | Limit | Spike |    |     | Limit |     | Limit | Limit | Limit | Limit |

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# Batch QC Summary



To: Dustin Brooks  
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Customer Account: WMWGASAPFB  
 Sample Date: 02-Jan-19  
 Customer ID:  
 Delivery Date: 03-Jan-19

Description: Gaston Ash Pond Field Blank

Laboratory ID Number: AZ00181

| Sample  | Analysis          | Units | MB     | MB    | Spike | MS | Sample    | LCS  | LCS      | Rec | Prec  | Prec  |   |
|---------|-------------------|-------|--------|-------|-------|----|-----------|------|----------|-----|-------|-------|---|
|         |                   |       |        | Limit |       |    | Duplicate | LCS  | Limit    | Rec | Limit | Limit |   |
| AZ00180 | Solids, Dissolved | mg/L  | 0.0000 | 25    |       |    | 503       | 53.0 | 40 to 60 |     |       | 0.500 | 5 |

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# Certificate Of Analysis



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAPEB  
 Sample Date: 02-Jan-19  
 Customer ID:  
 Delivery Date: 03-Jan-19

Description: Gaston Ash Pond Equipment Blank

Laboratory ID Number: AZ00182

| Name                           | Analyst | Test Date | Reference | Vio Spec | DF | MDL | RL | Q Results      | Units |
|--------------------------------|---------|-----------|-----------|----------|----|-----|----|----------------|-------|
| <b>General Characteristics</b> |         |           |           |          |    |     |    |                |       |
| Filter Completion Date         | CRB     | 1/7/2019  | SM 2540C  |          | 1  |     |    | 01/07/2019     | Date  |
| * Solids, Dissolved            | CRB     | 1/10/2019 | SM 2540C  |          | 1  |     | 25 | U Not Detected | mg/L  |

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Laboratory certification ID: E571114

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Comments:



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 FAX (205) 257-1654

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAPEB  
 Sample Date: 02-Jan-19  
 Customer ID:  
 Delivery Date: 03-Jan-19

Description: Gaston Ash Pond Equipment Blank

Laboratory ID Number: AZ00182

| Sample | Analysis | Units | MB | Limit | Spike | MS | MSD | LCS | Limit | Rec | Limit | Prec | Limit |
|--------|----------|-------|----|-------|-------|----|-----|-----|-------|-----|-------|------|-------|
|--------|----------|-------|----|-------|-------|----|-----|-----|-------|-----|-------|------|-------|

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To: Dustin Brooks  
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Customer Account: WMWGASAPEB  
 Sample Date: 02-Jan-19  
 Customer ID:  
 Delivery Date: 03-Jan-19

Description: Gaston Ash Pond Equipment Blank

Laboratory ID Number: AZ00182

| Sample  | Analysis          | Units | MB     | MB    | Spike | MS | Sample    | LCS  | LCS      | Rec | Prec  | Prec  |   |
|---------|-------------------|-------|--------|-------|-------|----|-----------|------|----------|-----|-------|-------|---|
|         |                   |       |        | Limit |       |    | Duplicate | LCS  | Limit    | Rec | Limit | Limit |   |
| AZ00180 | Solids, Dissolved | mg/L  | 0.0000 | 25    |       |    | 503       | 53.0 | 40 to 60 |     |       | 0.500 | 5 |

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Comments:

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# Certificate Of Analysis



Revised Copy



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 02-Jan-19  
 Customer ID:  
 Delivery Date: 03-Jan-19

Description: Gaston Ash Pond - MW-23D

Laboratory ID Number: AZ00183

| Name                             | Analyst | Test Date | Reference    | Vio Spec | DF | MDL | RL   | Q Results | Units |
|----------------------------------|---------|-----------|--------------|----------|----|-----|------|-----------|-------|
| <b>General Characteristics</b>   |         |           |              |          |    |     |      |           |       |
| pH for Alkalinity                | EMG     | 1/11/2019 | SM 4500H+ B  |          | 1  |     | 4.00 | 8.12      | SU    |
| Alkalinity, Total as CaCO3       | EMG     | 1/11/2019 | SM 2320 B    |          | 1  |     | 0.1  | 161       | mg/L  |
| Carbonate Alkalinity, as CaCO3   | EMG     | 1/11/2019 | SM 4500CO2 D |          | 1  |     |      | 1.97      | mg/L  |
| Bicarbonate Alkalinity, as CaCO3 | EMG     | 1/11/2019 | SM 4500CO2 D |          | 1  |     |      | 159       | mg/L  |

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# Batch QC Summary



Revised Copy



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 02-Jan-19  
 Customer ID:  
 Delivery Date: 03-Jan-19

Description: Gaston Ash Pond - MW-23D

Laboratory ID Number: AZ00183

| Sample | Analysis | Units | MB    | MB    | MS | MSD | LCS   | LCS   | Rec   | Rec   | Prec  | Prec  |
|--------|----------|-------|-------|-------|----|-----|-------|-------|-------|-------|-------|-------|
|        |          |       | Limit | Spike |    |     | Limit | Limit | Limit | Limit | Limit | Limit |

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# Batch QC Summary



Revised Copy



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 02-Jan-19  
 Customer ID:  
 Delivery Date: 03-Jan-19

Description: Gaston Ash Pond - MW-23D

Laboratory ID Number: AZ00183

| Sample  | Analysis                   | Units | MB | Limit | Spike | MS | Sample Duplicate | LCS  | LCS Limit    | Rec | Rec Limit | Prec  | Prec Limit |
|---------|----------------------------|-------|----|-------|-------|----|------------------|------|--------------|-----|-----------|-------|------------|
| AZ00187 | pH for Alkalinity          | SU    |    |       |       |    |                  | 6.98 | 6.95 to 7.05 |     |           |       |            |
| AZ00187 | Alkalinity, Total as CaCO3 | mg/L  |    |       |       |    | 95.2             | 50.0 | 45.0 to 55.0 |     |           | 0.105 | 10         |

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**Certificate Of Analysis**  Alabama Power

Revised Copy



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 02-Jan-19  
 Customer ID:  
 Delivery Date: 03-Jan-19

Description: Gaston Ash Pond - MW-23S

Laboratory ID Number: AZ00184

| Name                             | Analyst | Test Date | Reference    | Vio Spec | DF | MDL | RL   | Q Results | Units |
|----------------------------------|---------|-----------|--------------|----------|----|-----|------|-----------|-------|
| <b>General Characteristics</b>   |         |           |              |          |    |     |      |           |       |
| pH for Alkalinity                | EMG     | 1/11/2019 | SM 4500H+ B  |          | 1  |     | 4.00 | 7.52      | SU    |
| Alkalinity, Total as CaCO3       | EMG     | 1/11/2019 | SM 2320 B    |          | 1  |     | 0.1  | 188       | mg/L  |
| Carbonate Alkalinity, as CaCO3   | EMG     | 1/11/2019 | SM 4500CO2 D |          | 1  |     |      | 0.58      | mg/L  |
| Bicarbonate Alkalinity, as CaCO3 | EMG     | 1/11/2019 | SM 4500CO2 D |          | 1  |     |      | 187       | mg/L  |

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# Batch QC Summary



Revised Copy



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 02-Jan-19  
 Customer ID:  
 Delivery Date: 03-Jan-19

Description: Gaston Ash Pond - MW-23S

Laboratory ID Number: AZ00184

| Sample | Analysis | Units | MB    | MB    | MS | MSD | LCS   | LCS   | Rec   | Rec   | Prec  | Prec  |
|--------|----------|-------|-------|-------|----|-----|-------|-------|-------|-------|-------|-------|
|        |          |       | Limit | Spike |    |     | Limit | Limit | Limit | Limit | Limit | Limit |

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# Batch QC Summary



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 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 02-Jan-19  
 Customer ID:  
 Delivery Date: 03-Jan-19

Description: Gaston Ash Pond - MW-23S

Laboratory ID Number: AZ00184

| Sample  | Analysis                   | Units | MB | Limit | Spike | MS | Sample Duplicate | LCS  | LCS Limit    | Rec | Rec Limit | Prec  | Prec Limit |
|---------|----------------------------|-------|----|-------|-------|----|------------------|------|--------------|-----|-----------|-------|------------|
| AZ00187 | Alkalinity, Total as CaCO3 | mg/L  |    |       |       |    | 95.2             | 50.0 | 45.0 to 55.0 |     |           | 0.105 | 10         |
| AZ00187 | pH for Alkalinity          | SU    |    |       |       |    |                  | 6.98 | 6.95 to 7.05 |     |           |       |            |

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

Comments: Revised Copy:  
 Correcting Alkalinity QC description from MSD to Sample Duplicate. LBM 3/26/2019

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

Revised Copy



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Jan-19  
 Customer ID:  
 Delivery Date: 03-Jan-19

Description: Gaston Ash Pond - MW-26

Laboratory ID Number: AZ00185

| Name                             | Analyst | Test Date | Reference    | Vio Spec | DF | MDL | RL   | Q Results | Units |
|----------------------------------|---------|-----------|--------------|----------|----|-----|------|-----------|-------|
| <b>General Characteristics</b>   |         |           |              |          |    |     |      |           |       |
| pH for Alkalinity                | EMG     | 1/11/2019 | SM 4500H+ B  |          | 1  |     | 4.00 | 7.90      | SU    |
| Alkalinity, Total as CaCO3       | EMG     | 1/11/2019 | SM 2320 B    |          | 1  |     | 0.1  | 150       | mg/L  |
| Carbonate Alkalinity, as CaCO3   | EMG     | 1/11/2019 | SM 4500CO2 D |          | 1  |     |      | 1.11      | mg/L  |
| Bicarbonate Alkalinity, as CaCO3 | EMG     | 1/11/2019 | SM 4500CO2 D |          | 1  |     |      | 149       | mg/L  |

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 Calera, AL 35040  
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 FAX (205) 257-1654

# Batch QC Summary



Revised Copy



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Jan-19  
 Customer ID:  
 Delivery Date: 03-Jan-19

Description: Gaston Ash Pond - MW-26

Laboratory ID Number: AZ00185

| Sample | Analysis | Units | MB    | MB    | MS | MSD | LCS   | LCS   | Rec   | Rec   | Prec  | Prec  |
|--------|----------|-------|-------|-------|----|-----|-------|-------|-------|-------|-------|-------|
|        |          |       | Limit | Spike |    |     | Limit | Limit | Limit | Limit | Limit | Limit |

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# Batch QC Summary



Revised Copy



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Jan-19  
 Customer ID:  
 Delivery Date: 03-Jan-19

Description: Gaston Ash Pond - MW-26

Laboratory ID Number: AZ00185

| Sample  | Analysis                   | Units | MB | Limit | Spike | MS | Sample Duplicate | LCS  | LCS Limit    | Rec | Rec Limit | Prec  | Prec Limit |
|---------|----------------------------|-------|----|-------|-------|----|------------------|------|--------------|-----|-----------|-------|------------|
| AZ00187 | pH for Alkalinity          | SU    |    |       |       |    |                  | 6.98 | 6.95 to 7.05 |     |           |       |            |
| AZ00187 | Alkalinity, Total as CaCO3 | mg/L  |    |       |       |    | 95.2             | 50.0 | 45.0 to 55.0 |     |           | 0.105 | 10         |

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**Certificate Of Analysis**  Alabama Power

Revised Copy



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Jan-19  
 Customer ID:  
 Delivery Date: 03-Jan-19

Description: Gaston Ash Pond - MW-27

Laboratory ID Number: AZ00186

| Name                             | Analyst | Test Date | Reference    | Vio Spec | DF | MDL | RL   | Q Results | Units |
|----------------------------------|---------|-----------|--------------|----------|----|-----|------|-----------|-------|
| <b>General Characteristics</b>   |         |           |              |          |    |     |      |           |       |
| pH for Alkalinity                | EMG     | 1/11/2019 | SM 4500H+ B  |          | 1  |     | 4.00 | 7.07      | SU    |
| Alkalinity, Total as CaCO3       | EMG     | 1/11/2019 | SM 2320 B    |          | 1  |     | 0.1  | 95.4      | mg/L  |
| Carbonate Alkalinity, as CaCO3   | EMG     | 1/11/2019 | SM 4500CO2 D |          | 1  |     |      | 0.10      | mg/L  |
| Bicarbonate Alkalinity, as CaCO3 | EMG     | 1/11/2019 | SM 4500CO2 D |          | 1  |     |      | 95.3      | mg/L  |

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 Calera, AL 35040  
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 FAX (205) 257-1654

# Batch QC Summary



Revised Copy



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Jan-19  
 Customer ID:  
 Delivery Date: 03-Jan-19

Description: Gaston Ash Pond - MW-27

Laboratory ID Number: AZ00186

| Sample | Analysis | Units | MB    | MB    | MS | MSD | LCS   | LCS   | Rec   | Rec   | Prec  | Prec  |
|--------|----------|-------|-------|-------|----|-----|-------|-------|-------|-------|-------|-------|
|        |          |       | Limit | Spike |    |     | Limit | Limit | Limit | Limit | Limit | Limit |

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Comments: Revised Copy:  
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 Calera, AL 35040  
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# Batch QC Summary



Revised Copy



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Jan-19  
 Customer ID:  
 Delivery Date: 03-Jan-19

Description: Gaston Ash Pond - MW-27

Laboratory ID Number: AZ00186

| Sample  | Analysis                   | Units | MB | Limit | Spike | MS | Sample Duplicate | LCS  | LCS Limit    | Rec | Rec Limit | Prec  | Prec Limit |
|---------|----------------------------|-------|----|-------|-------|----|------------------|------|--------------|-----|-----------|-------|------------|
| AZ00187 | pH for Alkalinity          | SU    |    |       |       |    |                  | 6.98 | 6.95 to 7.05 |     |           |       |            |
| AZ00187 | Alkalinity, Total as CaCO3 | mg/L  |    |       |       |    | 95.2             | 50.0 | 45.0 to 55.0 |     |           | 0.105 | 10         |

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Comments: Revised Copy:  
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# Certificate Of Analysis



Revised Copy



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Jan-19  
 Customer ID:  
 Delivery Date: 03-Jan-19

Description: Gaston Ash Pond - MW-27 DUP

Laboratory ID Number: AZ00187

| Name                             | Analyst | Test Date | Reference    | Vio Spec | DF | MDL | RL   | Q Results | Units |
|----------------------------------|---------|-----------|--------------|----------|----|-----|------|-----------|-------|
| <b>General Characteristics</b>   |         |           |              |          |    |     |      |           |       |
| pH for Alkalinity                | EMG     | 1/11/2019 | SM 4500H+ B  |          | 1  |     | 4.00 | 7.03      | SU    |
| Alkalinity, Total as CaCO3       | EMG     | 1/11/2019 | SM 2320 B    |          | 1  |     | 0.1  | 95.1      | mg/L  |
| Carbonate Alkalinity, as CaCO3   | EMG     | 1/11/2019 | SM 4500CO2 D |          | 1  |     |      | 0.10      | mg/L  |
| Bicarbonate Alkalinity, as CaCO3 | EMG     | 1/11/2019 | SM 4500CO2 D |          | 1  |     |      | 95.0      | mg/L  |

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Comments: Revised Copy:  
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 744 County Road 87, GSC#8  
 Calera, AL 35040  
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# Batch QC Summary



Revised Copy



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Jan-19  
 Customer ID:  
 Delivery Date: 03-Jan-19

Description: Gaston Ash Pond - MW-27 DUP

Laboratory ID Number: AZ00187

| Sample | Analysis | Units | MB    | MB    | MS | MSD | LCS   | LCS   | Rec   | Rec   | Prec  | Prec  |
|--------|----------|-------|-------|-------|----|-----|-------|-------|-------|-------|-------|-------|
|        |          |       | Limit | Spike |    |     | Limit | Limit | Limit | Limit | Limit | Limit |

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Comments: Revised Copy:  
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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



Revised Copy



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Jan-19  
 Customer ID:  
 Delivery Date: 03-Jan-19

Description: Gaston Ash Pond - MW-27 DUP

Laboratory ID Number: AZ00187

| Sample  | Analysis                   | Units | MB | Limit | Spike | MS | Sample Duplicate | LCS  | LCS Limit    | Rec | Rec Limit | Prec  | Prec Limit |
|---------|----------------------------|-------|----|-------|-------|----|------------------|------|--------------|-----|-----------|-------|------------|
| AZ00187 | Alkalinity, Total as CaCO3 | mg/L  |    |       |       |    | 95.2             | 50.0 | 45.0 to 55.0 |     |           | 0.105 | 10         |
| AZ00187 | pH for Alkalinity          | SU    |    |       |       |    |                  | 6.98 | 6.95 to 7.05 |     |           |       |            |

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Comments: Revised Copy:  
 Correcting Alkalinity QC description from MSD to Sample Duplicate. LBM 3/26/2019

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.                                                                                                                  |



# Chain of Custody Groundwater

## APC General Testing Laboratory

 Field Complete Outside Lab Lab CompleteLab ETA 

|                         |                   |              |                                       |
|-------------------------|-------------------|--------------|---------------------------------------|
| Requested Complete Date | Routine           | Results To   | Dustin Brooks,Greg Dyer,Lauren Parker |
| Site Representative     | Tanisha Fenderson | Requested By | Lauren Parker                         |
| Collector               | Anthony Goggins   | Location     | Gaston Ash Pond                       |

|         |   |            |        |   |     |     |   |     |     |   |     |     |
|---------|---|------------|--------|---|-----|-----|---|-----|-----|---|-----|-----|
| Bottles | 1 | Alkalinity | 250 mL | 3 | N/A | N/A | 5 | N/A | N/A | 7 | N/A | N/A |
|         | 2 | TDS        | 500 mL | 4 | N/A | N/A | 6 | N/A | N/A | 8 | N/A | N/A |

Comments: Recollection of samples from WMWGASAP\_1190. TDS performed on samples AZ00179 - AZ00182 only. LBM 01/03/2019

| Sample #   | Date       | Time  | Bottle Count | Description      | Lab Filter | Lab Id  |
|------------|------------|-------|--------------|------------------|------------|---------|
| MW-20SV    | 1/2/19     | 11:46 | 2            | Groundwater      |            | AZ00179 |
| MW-20SVDUP | 01/02/2019 | 11:46 | 2            | Sample Duplicate |            | AZ00180 |
| FB-1       | 01/02/2019 | 12:03 | 1            | Field Blank      |            | AZ00181 |
| EB-1       | 01/02/2019 | 12:05 | 1            | Equipment Blank  |            | AZ00182 |
| MW-23D     | 01/02/2019 | 13:27 | 1            | Groundwater      |            | AZ00183 |
| MW-23S     | 01/02/2019 | 14:06 | 1            | Groundwater      |            | AZ00184 |
| MW-26      | 01/03/2019 | 11:21 | 1            | Groundwater      |            | AZ00185 |
| MW-27      | 01/03/2019 | 12:26 | 1            | Groundwater      |            | AZ00186 |
| MW-27DUP   | 01/03/2019 | 12:26 | 1            | Groundwater      |            | AZ00187 |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |

|                 |             |                  |
|-----------------|-------------|------------------|
| Relinquished By | Received By | Date/Time        |
|                 |             | 01/03/2019 14:33 |
|                 |             |                  |
|                 |             |                  |

|              |                |                                                                          |
|--------------|----------------|--------------------------------------------------------------------------|
| SmarTroll ID | 7151-38849-2-1 | All metals and radiological bottles have pH < 2 <input type="checkbox"/> |
| Turbidity ID | 5160-26211-1-1 | Cooler Temp                                                              |
| Sample Event | 1197           | 1.2 degrees C                                                            |
|              |                | Thermometer ID                                                           |
|              |                | 5408-27568-2-2                                                           |
|              |                | pH Strip ID                                                              |
|              |                | N/A                                                                      |



# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

|                         |                   |              |                                       |
|-------------------------|-------------------|--------------|---------------------------------------|
| Requested Complete Date | Routine           | Results To   | Dustin Brooks,Greg Dyer,Lauren Parker |
| Site Representative     | Tanisha Fenderson | Requested By | Lauren Parker                         |
| Collector               | Anthony Goggins   | Location     | Gaston Ash Pond                       |

|         |   |        |        |   |     |     |   |     |     |   |     |     |
|---------|---|--------|--------|---|-----|-----|---|-----|-----|---|-----|-----|
| Bottles | 1 | Anions | 250 mL | 3 | N/A | N/A | 5 | N/A | N/A | 7 | N/A | N/A |
|         | 2 | N/A    | N/A    | 4 | N/A | N/A | 6 | N/A | N/A | 8 | N/A | N/A |

Comments: Recollection of samples from WMWGASAP\_1190. LBM 01/03/2019

| Sample #   | Date       | Time  | Bottle Count | Description      | Lab Filter | Lab Id  |
|------------|------------|-------|--------------|------------------|------------|---------|
| MW-20SV    | 1/2/19     | 11:46 | 1            | Groundwater      |            | AZ00188 |
| MW-20SVDUP | 01/02/2019 | 11:46 | 1            | Sample Duplicate |            | AZ00189 |
| FB-1       | 01/02/2019 | 12:03 | 1            | Field Blank      |            | AZ00190 |
| EB-1       | 01/02/2019 | 12:05 | 1            | Equipment Blank  |            | AZ00191 |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |

|                 |             |                  |
|-----------------|-------------|------------------|
| Relinquished By | Received By | Date/Time        |
|                 |             | 01/03/2019 14:33 |
|                 |             |                  |
|                 |             |                  |

|              |                |                                                 |                          |
|--------------|----------------|-------------------------------------------------|--------------------------|
| SmarTroll ID | 7151-38849-2-1 | All metals and radiological bottles have pH < 2 | <input type="checkbox"/> |
| Turbidity ID | 5160-26211-1-1 | Cooler Temp                                     | 1.2 degrees C            |
| Sample Event | 1197           | Thermometer ID                                  | 5408-27568-2-2           |
|              |                | pH Strip ID                                     | N/A                      |

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-164402-1

TestAmerica SDG: Recollection Gaston Ash Pond 1197

Client Project/Site: CCR Plant Gaston

For:

Alabama Power General Test Laboratory

744 County Rd 87

GSC #8

Calera, Alabama 35040

Attn: Laura Midkiff



Authorized for release by:

1/16/2019 5:51:59 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

[cheyenne.whitmire@testamericainc.com](mailto:cheyenne.whitmire@testamericainc.com)

### LINKS

Review your project  
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Have a Question?



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[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

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

TestAmerica Job ID: 400-164402-1  
SDG: Recollection Gaston Ash Pond 1197

**Job ID: 400-164402-1**

**Laboratory: TestAmerica Pensacola**

## Narrative

### Job Narrative 400-164402-1

#### General Chemistry

Method(s) SM 4500 F C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 426109 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) SM 4500 SO4 E: Due to the concentration of sulfates in the parent sample, the MS/MSD was diluted after the spike. The spike amounts were adjusted by the dilution factor. (400-164402-A-1 MS) and (400-164402-A-1 MSD)

Method(s) SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 425928 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) SM 4500 SO4 E: The following samples were diluted to bring the concentration of target analytes within the calibration range: AZ00188 MW-20SV (400-164402-1), AZ00189 MW-20SV DUP (400-164402-2), (400-164402-A-1 MS) and (400-164402-A-1 MSD). Elevated reporting limits (RLs) are provided.



## Detection Summary

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

TestAmerica Job ID: 400-164402-1  
SDG: Recollection Gaston Ash Pond 1197

### Client Sample ID: AZ00188 MW-20SV

### Lab Sample ID: 400-164402-1

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | Dil Fac | D | Method        | Prep Type |
|----------|--------|-----------|------|-------|------|---------|---|---------------|-----------|
| Chloride | 13     |           | 2.0  | 1.4   | mg/L | 1       |   | SM 4500 Cl- E | Total/NA  |
| Fluoride | 11     |           | 0.10 | 0.032 | mg/L | 1       |   | SM 4500 F C   | Total/NA  |
| Sulfate  | 180    |           | 50   | 14    | mg/L | 10      |   | SM 4500 SO4 E | Total/NA  |

### Client Sample ID: AZ00189 MW-20SV DUP

### Lab Sample ID: 400-164402-2

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | Dil Fac | D | Method        | Prep Type |
|----------|--------|-----------|------|-------|------|---------|---|---------------|-----------|
| Chloride | 14     |           | 2.0  | 1.4   | mg/L | 1       |   | SM 4500 Cl- E | Total/NA  |
| Fluoride | 0.57   |           | 0.10 | 0.032 | mg/L | 1       |   | SM 4500 F C   | Total/NA  |
| Sulfate  | 180    |           | 50   | 14    | mg/L | 10      |   | SM 4500 SO4 E | Total/NA  |

### Client Sample ID: AZ00190 FB-1

### Lab Sample ID: 400-164402-3

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | Dil Fac | D | Method      | Prep Type |
|----------|--------|-----------|------|-------|------|---------|---|-------------|-----------|
| Fluoride | 0.060  | J         | 0.10 | 0.032 | mg/L | 1       |   | SM 4500 F C | Total/NA  |

### Client Sample ID: AZ00191 EB-1

### Lab Sample ID: 400-164402-4

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola



# Method Summary

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

TestAmerica Job ID: 400-164402-1  
SDG: Recollection Gaston Ash Pond 1197

| Method        | Method Description | Protocol | Laboratory |
|---------------|--------------------|----------|------------|
| SM 4500 Cl- E | Chloride, Total    | SM       | TAL PEN    |
| SM 4500 F C   | Fluoride           | SM       | TAL PEN    |
| SM 4500 SO4 E | Sulfate, Total     | SM       | TAL PEN    |

**Protocol References:**

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

**Laboratory References:**

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



# Sample Summary

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

TestAmerica Job ID: 400-164402-1  
SDG: Recollection Gaston Ash Pond 1197

| Lab Sample ID | Client Sample ID    | Matrix | Collected      | Received       |
|---------------|---------------------|--------|----------------|----------------|
| 400-164402-1  | AZ00188 MW-20SV     | Water  | 01/02/19 11:46 | 01/08/19 08:49 |
| 400-164402-2  | AZ00189 MW-20SV DUP | Water  | 01/02/19 11:46 | 01/08/19 08:49 |
| 400-164402-3  | AZ00190 FB-1        | Water  | 01/02/19 12:03 | 01/08/19 08:49 |
| 400-164402-4  | AZ00191 EB-1        | Water  | 01/02/19 12:05 | 01/08/19 08:49 |

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

# Client Sample Results

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

TestAmerica Job ID: 400-164402-1  
 SDG: Recollection Gaston Ash Pond 1197

**Client Sample ID: AZ00188 MW-20SV**

**Lab Sample ID: 400-164402-1**

Date Collected: 01/02/19 11:46

Matrix: Water

Date Received: 01/08/19 08:49

### General Chemistry

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 13     |           | 2.0  | 1.4   | mg/L |   |          | 01/10/19 10:24 | 1       |
| Fluoride | 11     |           | 0.10 | 0.032 | mg/L |   |          | 01/10/19 12:21 | 1       |
| Sulfate  | 180    |           | 50   | 14    | mg/L |   |          | 01/09/19 09:50 | 10      |

**Client Sample ID: AZ00189 MW-20SV DUP**

**Lab Sample ID: 400-164402-2**

Date Collected: 01/02/19 11:46

Matrix: Water

Date Received: 01/08/19 08:49

### General Chemistry

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 14     |           | 2.0  | 1.4   | mg/L |   |          | 01/10/19 10:27 | 1       |
| Fluoride | 0.57   |           | 0.10 | 0.032 | mg/L |   |          | 01/10/19 12:25 | 1       |
| Sulfate  | 180    |           | 50   | 14    | mg/L |   |          | 01/09/19 09:54 | 10      |

**Client Sample ID: AZ00190 FB-1**

**Lab Sample ID: 400-164402-3**

Date Collected: 01/02/19 12:03

Matrix: Water

Date Received: 01/08/19 08:49

### General Chemistry

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | <1.4   |           | 2.0  | 1.4   | mg/L |   |          | 01/10/19 10:34 | 1       |
| Fluoride | 0.060  | J         | 0.10 | 0.032 | mg/L |   |          | 01/10/19 12:29 | 1       |
| Sulfate  | <1.4   |           | 5.0  | 1.4   | mg/L |   |          | 01/09/19 09:11 | 1       |

**Client Sample ID: AZ00191 EB-1**

**Lab Sample ID: 400-164402-4**

Date Collected: 01/02/19 12:05

Matrix: Water

Date Received: 01/08/19 08:49

### General Chemistry

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | <1.4   |           | 2.0  | 1.4   | mg/L |   |          | 01/10/19 10:34 | 1       |
| Fluoride | <0.032 |           | 0.10 | 0.032 | mg/L |   |          | 01/10/19 12:33 | 1       |
| Sulfate  | <1.4   |           | 5.0  | 1.4   | mg/L |   |          | 01/09/19 09:11 | 1       |

# Definitions/Glossary

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

TestAmerica Job ID: 400-164402-1  
SDG: Recollection Gaston Ash Pond 1197

## Qualifiers

### General Chemistry

| Qualifier | Qualifier Description                                                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4         | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| F2        | MS/MSD RPD exceeds control limits                                                                                                                         |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.                                            |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| PQL            | Practical Quantitation Limit                                                                                |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |

# Lab Chronicle

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

TestAmerica Job ID: 400-164402-1  
SDG: Recollection Gaston Ash Pond 1197

**Client Sample ID: AZ00188 MW-20SV**

**Date Collected: 01/02/19 11:46**

**Date Received: 01/08/19 08:49**

**Lab Sample ID: 400-164402-1**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | SM 4500 Cl- E |     | 1               | 426088       | 01/10/19 10:24       | RRC     | TAL PEN |
| Total/NA  | Analysis   | SM 4500 F C   |     | 1               | 426109       | 01/10/19 12:21       | BAB     | TAL PEN |
| Total/NA  | Analysis   | SM 4500 SO4 E |     | 10              | 425928       | 01/09/19 09:50       | RRC     | TAL PEN |

**Client Sample ID: AZ00189 MW-20SV DUP**

**Date Collected: 01/02/19 11:46**

**Date Received: 01/08/19 08:49**

**Lab Sample ID: 400-164402-2**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | SM 4500 Cl- E |     | 1               | 426088       | 01/10/19 10:27       | RRC     | TAL PEN |
| Total/NA  | Analysis   | SM 4500 F C   |     | 1               | 426109       | 01/10/19 12:25       | BAB     | TAL PEN |
| Total/NA  | Analysis   | SM 4500 SO4 E |     | 10              | 425928       | 01/09/19 09:54       | RRC     | TAL PEN |

**Client Sample ID: AZ00190 FB-1**

**Date Collected: 01/02/19 12:03**

**Date Received: 01/08/19 08:49**

**Lab Sample ID: 400-164402-3**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | SM 4500 Cl- E |     | 1               | 426088       | 01/10/19 10:34       | RRC     | TAL PEN |
| Total/NA  | Analysis   | SM 4500 F C   |     | 1               | 426109       | 01/10/19 12:29       | BAB     | TAL PEN |
| Total/NA  | Analysis   | SM 4500 SO4 E |     | 1               | 425928       | 01/09/19 09:11       | RRC     | TAL PEN |

**Client Sample ID: AZ00191 EB-1**

**Date Collected: 01/02/19 12:05**

**Date Received: 01/08/19 08:49**

**Lab Sample ID: 400-164402-4**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | SM 4500 Cl- E |     | 1               | 426088       | 01/10/19 10:34       | RRC     | TAL PEN |
| Total/NA  | Analysis   | SM 4500 F C   |     | 1               | 426109       | 01/10/19 12:33       | BAB     | TAL PEN |
| Total/NA  | Analysis   | SM 4500 SO4 E |     | 1               | 425928       | 01/09/19 09:11       | RRC     | TAL PEN |

**Laboratory References:**

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

# QC Association Summary

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

TestAmerica Job ID: 400-164402-1  
SDG: Recollection Gaston Ash Pond 1197

## General Chemistry

### Analysis Batch: 425928

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method        | Prep Batch |
|--------------------|------------------------|-----------|--------|---------------|------------|
| 400-164402-1       | AZ00188 MW-20SV        | Total/NA  | Water  | SM 4500 SO4 E |            |
| 400-164402-2       | AZ00189 MW-20SV DUP    | Total/NA  | Water  | SM 4500 SO4 E |            |
| 400-164402-3       | AZ00190 FB-1           | Total/NA  | Water  | SM 4500 SO4 E |            |
| 400-164402-4       | AZ00191 EB-1           | Total/NA  | Water  | SM 4500 SO4 E |            |
| MB 400-425928/6    | Method Blank           | Total/NA  | Water  | SM 4500 SO4 E |            |
| LCS 400-425928/7   | Lab Control Sample     | Total/NA  | Water  | SM 4500 SO4 E |            |
| MRL 400-425928/3   | Lab Control Sample     | Total/NA  | Water  | SM 4500 SO4 E |            |
| 400-164253-A-1 MS  | Matrix Spike           | Total/NA  | Water  | SM 4500 SO4 E |            |
| 400-164253-A-1 MSD | Matrix Spike Duplicate | Total/NA  | Water  | SM 4500 SO4 E |            |
| 400-164402-1 MS    | AZ00188 MW-20SV        | Total/NA  | Water  | SM 4500 SO4 E |            |
| 400-164402-1 MSD   | AZ00188 MW-20SV        | Total/NA  | Water  | SM 4500 SO4 E |            |

### Analysis Batch: 426088

| Lab Sample ID    | Client Sample ID    | Prep Type | Matrix | Method        | Prep Batch |
|------------------|---------------------|-----------|--------|---------------|------------|
| 400-164402-1     | AZ00188 MW-20SV     | Total/NA  | Water  | SM 4500 Cl- E |            |
| 400-164402-2     | AZ00189 MW-20SV DUP | Total/NA  | Water  | SM 4500 Cl- E |            |
| 400-164402-3     | AZ00190 FB-1        | Total/NA  | Water  | SM 4500 Cl- E |            |
| 400-164402-4     | AZ00191 EB-1        | Total/NA  | Water  | SM 4500 Cl- E |            |
| MB 400-426088/6  | Method Blank        | Total/NA  | Water  | SM 4500 Cl- E |            |
| LCS 400-426088/7 | Lab Control Sample  | Total/NA  | Water  | SM 4500 Cl- E |            |
| MRL 400-426088/3 | Lab Control Sample  | Total/NA  | Water  | SM 4500 Cl- E |            |
| 400-164402-1 MS  | AZ00188 MW-20SV     | Total/NA  | Water  | SM 4500 Cl- E |            |
| 400-164402-1 MSD | AZ00188 MW-20SV     | Total/NA  | Water  | SM 4500 Cl- E |            |

### Analysis Batch: 426109

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|-------------------|------------------------|-----------|--------|-------------|------------|
| 400-164402-1      | AZ00188 MW-20SV        | Total/NA  | Water  | SM 4500 F C |            |
| 400-164402-2      | AZ00189 MW-20SV DUP    | Total/NA  | Water  | SM 4500 F C |            |
| 400-164402-3      | AZ00190 FB-1           | Total/NA  | Water  | SM 4500 F C |            |
| 400-164402-4      | AZ00191 EB-1           | Total/NA  | Water  | SM 4500 F C |            |
| MB 400-426109/3   | Method Blank           | Total/NA  | Water  | SM 4500 F C |            |
| LCS 400-426109/4  | Lab Control Sample     | Total/NA  | Water  | SM 4500 F C |            |
| 180-84721-A-1 MS  | Matrix Spike           | Total/NA  | Water  | SM 4500 F C |            |
| 180-84721-A-1 MSD | Matrix Spike Duplicate | Total/NA  | Water  | SM 4500 F C |            |
| 400-164405-A-5 DU | Duplicate              | Total/NA  | Water  | SM 4500 F C |            |

# QC Sample Results

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

TestAmerica Job ID: 400-164402-1  
 SDG: Recollection Gaston Ash Pond 1197

## Method: SM 4500 Cl- E - Chloride, Total

**Lab Sample ID: MB 400-426088/6**  
**Matrix: Water**  
**Analysis Batch: 426088**

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

| Analyte  | MB Result | MB Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Chloride | <1.4      |              | 2.0 | 1.4 | mg/L |   |          | 01/10/19 10:24 | 1       |

**Lab Sample ID: LCS 400-426088/7**  
**Matrix: Water**  
**Analysis Batch: 426088**

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

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Chloride | 30.0        | 31.4       |               | mg/L |   | 105  | 90 - 110     |

**Lab Sample ID: MRL 400-426088/3**  
**Matrix: Water**  
**Analysis Batch: 426088**

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

| Analyte  | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Chloride | 2.00        | 1.98       | J             | mg/L |   | 99   | 50 - 150     |

**Lab Sample ID: 400-164402-1 MS**  
**Matrix: Water**  
**Analysis Batch: 426088**

**Client Sample ID: AZ00188 MW-20SV**  
**Prep Type: Total/NA**

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Chloride | 13            |                  | 10.0        | 23.7      |              | mg/L |   | 102  | 73 - 120     |

**Lab Sample ID: 400-164402-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 426088**

**Client Sample ID: AZ00188 MW-20SV**  
**Prep Type: Total/NA**

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Chloride | 13            |                  | 10.0        | 23.9       |               | mg/L |   | 104  | 73 - 120     | 1   | 8         |

## Method: SM 4500 F C - Fluoride

**Lab Sample ID: MB 400-426109/3**  
**Matrix: Water**  
**Analysis Batch: 426109**

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

| Analyte  | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Fluoride | <0.032    |              | 0.10 | 0.032 | mg/L |   |          | 01/10/19 11:44 | 1       |

**Lab Sample ID: LCS 400-426109/4**  
**Matrix: Water**  
**Analysis Batch: 426109**

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

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Fluoride | 4.00        | 3.76       |               | mg/L |   | 94   | 90 - 110     |

# QC Sample Results

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

TestAmerica Job ID: 400-164402-1  
 SDG: Recollection Gaston Ash Pond 1197

## Method: SM 4500 F C - Fluoride (Continued)

**Lab Sample ID: 180-84721-A-1 MS**  
**Matrix: Water**  
**Analysis Batch: 426109**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Fluoride | 9.3           | F2               | 1.00        | 7.65      | 4            | mg/L |   | -161 | 75 - 125     |

**Lab Sample ID: 180-84721-A-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 426109**

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

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Fluoride | 9.3           | F2               | 1.00        | 8.10       | 4 F2          | mg/L |   | -116 | 75 - 125     | 6   | 4         |

**Lab Sample ID: 400-164405-A-5 DU**  
**Matrix: Water**  
**Analysis Batch: 426109**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**

| Analyte  | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|----------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Fluoride | 0.040         | J                | <0.032    |              | mg/L |   | NC  | 4         |

## Method: SM 4500 SO4 E - Sulfate, Total

**Lab Sample ID: MB 400-425928/6**  
**Matrix: Water**  
**Analysis Batch: 425928**

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

| Analyte | MB Result | MB Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Sulfate | <1.4      |              | 5.0 | 1.4 | mg/L |   |          | 01/09/19 09:00 | 1       |

**Lab Sample ID: LCS 400-425928/7**  
**Matrix: Water**  
**Analysis Batch: 425928**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| Sulfate | 15.0        | 13.9       |               | mg/L |   | 93   | 90 - 110     |

**Lab Sample ID: MRL 400-425928/3**  
**Matrix: Water**  
**Analysis Batch: 425928**

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

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| Sulfate | 5.00        | 4.40       | J             | mg/L |   | 88   | 50 - 150     |

**Lab Sample ID: 400-164253-A-1 MS**  
**Matrix: Water**  
**Analysis Batch: 425928**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Sulfate | <1.4          |                  | 10.0        | 8.88      |              | mg/L |   | 89   | 77 - 128     |



# QC Sample Results

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

TestAmerica Job ID: 400-164402-1  
 SDG: Recollection Gaston Ash Pond 1197

## Method: SM 4500 SO4 E - Sulfate, Total (Continued)

**Lab Sample ID: 400-164253-A-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 425928**

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

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Sulfate | <1.4          |                  | 10.0        | 9.14       |               | mg/L |   | 91   | 77 - 128     | 3   | 5         |

**Lab Sample ID: 400-164402-1 MS**  
**Matrix: Water**  
**Analysis Batch: 425928**

**Client Sample ID: AZ00188 MW-20SV**  
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|-----|-----------|
| Sulfate | 180           |                  | 10.0        | 184       | 4            | mg/L |   | 13   | 77 - 128     |     |           |

**Lab Sample ID: 400-164402-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 425928**

**Client Sample ID: AZ00188 MW-20SV**  
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Sulfate | 180           |                  | 10.0        | 183        | 4             | mg/L |   | -1   | 77 - 128     | 1   | 5         |



### Chain of Custody Record

**Client Information**  
 Sampler: Anthony Goggins  
 Lab PM: Whitmore, Cheyenne R  
 Client Contact: Laura Midkiff  
 E-Mail: cheyenne.whitmore@testamericainc.com  
 Company: Alabama Power General Test Laboratory  
 Address: 744 County Rd 87 GSC #8  
 City: Calera  
 State, Zip: AL, 35040  
 Phone: 205-664-6197 (Tel)  
 Email: lmidkiff@southernco.com  
 Project Name: 40007143  
 CCR: Recollection Gaston Ash Pond 1197  
 Site: Recollection Gaston Ash Pond 1197

**Analysis Requested**  
 Due Date Requested:  
 TAT Requested (days): Routine  
 PO #:  
 WO #:  
 Project #:  
 SOW #:

**Carrier Tracking Note(s)**  
 400-164402 COC

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (Inwater, Solid, Gaseous, etc. If Toxic, Acid) | Field Filtered Sample (Yes or No) | Perform MTHSD (Yes or No) | SM 4500 FC | SM 4500 CE | SM 4500 SO4 E | 9315, Ra226, 9320, Ra228, Ra226Ra228, GPC | Total Number of Containers | Special Instructions/Note:     |
|-----------------------|-------------|-------------|------------------------------|-------------------------------------------------------|-----------------------------------|---------------------------|------------|------------|---------------|-------------------------------------------|----------------------------|--------------------------------|
| AZ00188               | 1/2/19      | 11:46       | G                            | Water                                                 | X                                 | X                         | X          | X          | X             | D                                         | 1                          | MW-20SV                        |
| AZ00189               | 1/2/19      | 11:46       | G                            | Water                                                 | X                                 | X                         | X          | X          | X             |                                           | 1                          | MW-20SV DUP (Sample Duplicate) |
| AZ00190               | 1/2/19      | 12:03       | G                            | Water                                                 | X                                 | X                         | X          | X          | X             |                                           | 1                          | FB-1 (Field Blank)             |
| AZ00191               | 1/2/19      | 12:05       | G                            | Water                                                 | X                                 | X                         | X          | X          | X             |                                           | 1                          | EB-1 (Equipment Blank)         |

**Preservation Codes:**  
 M - Hexane  
 A - HCL  
 B - NaOH  
 C - Zn Acetate  
 D - Nitric Acid  
 E - NaHSO4  
 F - MeOH  
 G - Amchlor  
 H - Ascorbic Acid  
 I - Hydroperoxide  
 J - DI Water  
 K - EDTA  
 L - EDA  
 Other:

**Special Instructions/Note:**  
 MW-20SV  
 MW-20SV DUP (Sample Duplicate)  
 FB-1 (Field Blank)  
 EB-1 (Equipment Blank)

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

**Special Instructions/QC Requirements:**

**Empty Kit Relinquished by:** Date: \_\_\_\_\_  
 Relinquished by: Laura Midkiff  
 Relinquished by: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_

**Method of Shipment:** \_\_\_\_\_  
 Date/Time: 1/8/19 8:49  
 Date/Time: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_

**Company:** APC  
 Company: APC  
 Company: APC

**Relinquished by:** \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_

**Custody Seal Intact:** Custody Seal No. \_\_\_\_\_  
 Yes  No



## Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-164402-1  
SDG Number: Recollection Gaston Ash Pond 1197

**Login Number: 164402**

**List Number: 1**

**Creator: Brown, Nathan**

**List Source: TestAmerica Pensacola**

| Question                                                                         | Answer | Comment   |
|----------------------------------------------------------------------------------|--------|-----------|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A    |           |
| The cooler's custody seal, if present, is intact.                                | True   |           |
| Sample custody seals, if present, are intact.                                    | N/A    |           |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |           |
| Samples were received on ice.                                                    | True   |           |
| Cooler Temperature is acceptable.                                                | True   |           |
| Cooler Temperature is recorded.                                                  | True   | 0.7°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 <6mm (1/4").  | N/A    |           |
| Multiphasic samples are not present.                                             | True   |           |
| Samples do not require splitting or compositing.                                 | True   |           |
| Residual Chlorine Checked.                                                       | N/A    |           |



# Accreditation/Certification Summary

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

TestAmerica Job ID: 400-164402-1  
 SDG: Recollection Gaston Ash Pond 1197

## Laboratory: TestAmerica Pensacola

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

| Authority              | Program       | EPA Region | Identification Number | Expiration Date |
|------------------------|---------------|------------|-----------------------|-----------------|
| Alabama                | State Program | 4          | 40150                 | 06-30-19        |
| ANAB                   | ISO/IEC 17025 |            | L2471                 | 02-22-20        |
| Arizona                | State Program | 9          | AZ0710                | 01-12-20        |
| Arkansas DEQ           | State Program | 6          | 88-0689               | 09-01-19        |
| California             | State Program | 9          | 2510                  | 06-30-19        |
| Florida                | NELAP         | 4          | E81010                | 06-30-19        |
| Georgia                | State Program | 4          | E81010 (FL)           | 06-30-19        |
| Illinois               | NELAP         | 5          | 200041                | 10-09-19        |
| Iowa                   | State Program | 7          | 367                   | 08-01-20        |
| Kansas                 | NELAP         | 7          | E-10253               | 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              | 01-31-19        |
| 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                   | 06-30-19        |

**Alabama Power Company  
Plant Gaston Ash Pond**

| WELL ID      | READING TIME    | DESCRIPTION                   | VALUE | UNIT  |
|--------------|-----------------|-------------------------------|-------|-------|
| GN-AP-MW-16V | 2/25/2019 12:47 | Conductivity                  | 413.4 | uS/cm |
| GN-AP-MW-16V | 2/25/2019 12:47 | DO                            | 0.48  | mg/L  |
| GN-AP-MW-16V | 2/25/2019 12:47 | Depth to Water Detail         | 6.65  | ft    |
| GN-AP-MW-16V | 2/25/2019 12:47 | Oxidation Reduction Potention | 71.4  | mv    |
| GN-AP-MW-16V | 2/25/2019 12:47 | pH                            | 8.59  | pH    |
| GN-AP-MW-16V | 2/25/2019 12:47 | Temperature                   | 18.99 | C     |
| GN-AP-MW-16V | 2/25/2019 12:47 | Turbidity                     | 50    | NTU   |
| GN-AP-MW-16V | 2/25/2019 12:52 | Conductivity                  | 413.9 | uS/cm |
| GN-AP-MW-16V | 2/25/2019 12:52 | DO                            | 0.39  | mg/L  |
| GN-AP-MW-16V | 2/25/2019 12:52 | Depth to Water Detail         | 7.25  | ft    |
| GN-AP-MW-16V | 2/25/2019 12:52 | Oxidation Reduction Potention | 58.6  | mv    |
| GN-AP-MW-16V | 2/25/2019 12:52 | pH                            | 8.61  | pH    |
| GN-AP-MW-16V | 2/25/2019 12:52 | Temperature                   | 19.04 | C     |
| GN-AP-MW-16V | 2/25/2019 12:52 | Turbidity                     | 56.1  | NTU   |
| GN-AP-MW-16V | 2/25/2019 12:57 | Conductivity                  | 413.3 | uS/cm |
| GN-AP-MW-16V | 2/25/2019 12:57 | DO                            | 0.35  | mg/L  |
| GN-AP-MW-16V | 2/25/2019 12:57 | Depth to Water Detail         | 8.05  | ft    |
| GN-AP-MW-16V | 2/25/2019 12:57 | Oxidation Reduction Potention | 50.9  | mv    |
| GN-AP-MW-16V | 2/25/2019 12:57 | pH                            | 8.62  | pH    |
| GN-AP-MW-16V | 2/25/2019 12:57 | Temperature                   | 19.11 | C     |
| GN-AP-MW-16V | 2/25/2019 12:57 | Turbidity                     | 45.3  | NTU   |
| GN-AP-MW-16V | 2/25/2019 13:02 | Conductivity                  | 413.8 | uS/cm |
| GN-AP-MW-16V | 2/25/2019 13:02 | DO                            | 0.32  | mg/L  |
| GN-AP-MW-16V | 2/25/2019 13:02 | Depth to Water Detail         | 8.35  | ft    |
| GN-AP-MW-16V | 2/25/2019 13:02 | Oxidation Reduction Potention | 46.3  | mv    |
| GN-AP-MW-16V | 2/25/2019 13:02 | pH                            | 8.63  | pH    |
| GN-AP-MW-16V | 2/25/2019 13:02 | Temperature                   | 19.08 | C     |
| GN-AP-MW-16V | 2/25/2019 13:02 | Turbidity                     | 47.3  | NTU   |
| GN-AP-MW-16V | 2/25/2019 13:07 | Conductivity                  | 413.9 | uS/cm |
| GN-AP-MW-16V | 2/25/2019 13:07 | DO                            | 0.31  | mg/L  |
| GN-AP-MW-16V | 2/25/2019 13:07 | Depth to Water Detail         | 8.85  | ft    |
| GN-AP-MW-16V | 2/25/2019 13:07 | Oxidation Reduction Potention | 44.9  | mv    |
| GN-AP-MW-16V | 2/25/2019 13:07 | pH                            | 8.64  | pH    |
| GN-AP-MW-16V | 2/25/2019 13:07 | Temperature                   | 19.19 | C     |
| GN-AP-MW-16V | 2/25/2019 13:07 | Turbidity                     | 52    | NTU   |
| GN-AP-MW-16V | 2/25/2019 13:12 | Conductivity                  | 413.9 | uS/cm |
| GN-AP-MW-16V | 2/25/2019 13:12 | DO                            | 0.29  | mg/L  |
| GN-AP-MW-16V | 2/25/2019 13:12 | Depth to Water Detail         | 9.1   | ft    |
| GN-AP-MW-16V | 2/25/2019 13:12 | Oxidation Reduction Potention | 53.4  | mv    |
| GN-AP-MW-16V | 2/25/2019 13:12 | pH                            | 8.65  | pH    |
| GN-AP-MW-16V | 2/25/2019 13:12 | Temperature                   | 19.16 | C     |
| GN-AP-MW-16V | 2/25/2019 13:12 | Turbidity                     | 53    | NTU   |
| GN-AP-MW-16V | 2/25/2019 13:17 | Conductivity                  | 414.2 | uS/cm |
| GN-AP-MW-16V | 2/25/2019 13:17 | DO                            | 0.28  | mg/L  |
| GN-AP-MW-16V | 2/25/2019 13:17 | Depth to Water Detail         | 9.48  | ft    |
| GN-AP-MW-16V | 2/25/2019 13:17 | Oxidation Reduction Potention | 57    | mv    |

**Alabama Power Company  
Plant Gaston Ash Pond**

| WELL ID      | READING TIME    | DESCRIPTION                   | VALUE | UNIT  |
|--------------|-----------------|-------------------------------|-------|-------|
| GN-AP-MW-16V | 2/25/2019 13:17 | pH                            | 8.65  | pH    |
| GN-AP-MW-16V | 2/25/2019 13:17 | Temperature                   | 19.18 | C     |
| GN-AP-MW-16V | 2/25/2019 13:17 | Turbidity                     | 39.9  | NTU   |
| GN-AP-MW-16V | 2/25/2019 13:22 | Conductivity                  | 413.7 | uS/cm |
| GN-AP-MW-16V | 2/25/2019 13:22 | DO                            | 0.28  | mg/L  |
| GN-AP-MW-16V | 2/25/2019 13:22 | Depth to Water Detail         | 9.74  | ft    |
| GN-AP-MW-16V | 2/25/2019 13:22 | Oxidation Reduction Potention | 58    | mv    |
| GN-AP-MW-16V | 2/25/2019 13:22 | pH                            | 8.65  | pH    |
| GN-AP-MW-16V | 2/25/2019 13:22 | Temperature                   | 19.29 | C     |
| GN-AP-MW-16V | 2/25/2019 13:22 | Turbidity                     | 38.4  | NTU   |
| GN-AP-MW-16V | 2/25/2019 13:27 | Conductivity                  | 413.4 | uS/cm |
| GN-AP-MW-16V | 2/25/2019 13:27 | DO                            | 0.27  | mg/L  |
| GN-AP-MW-16V | 2/25/2019 13:27 | Depth to Water Detail         | 9.85  | ft    |
| GN-AP-MW-16V | 2/25/2019 13:27 | Oxidation Reduction Potention | 59.3  | mv    |
| GN-AP-MW-16V | 2/25/2019 13:27 | pH                            | 8.66  | pH    |
| GN-AP-MW-16V | 2/25/2019 13:27 | Temperature                   | 19.39 | C     |
| GN-AP-MW-16V | 2/25/2019 13:27 | Turbidity                     | 30.4  | NTU   |
| GN-AP-MW-16V | 2/25/2019 13:32 | Conductivity                  | 413.5 | uS/cm |
| GN-AP-MW-16V | 2/25/2019 13:32 | DO                            | 0.26  | mg/L  |
| GN-AP-MW-16V | 2/25/2019 13:32 | Depth to Water Detail         | 10    | ft    |
| GN-AP-MW-16V | 2/25/2019 13:32 | Oxidation Reduction Potention | 61.9  | mv    |
| GN-AP-MW-16V | 2/25/2019 13:32 | pH                            | 8.66  | pH    |
| GN-AP-MW-16V | 2/25/2019 13:32 | Temperature                   | 19.47 | C     |
| GN-AP-MW-16V | 2/25/2019 13:32 | Turbidity                     | 25.2  | NTU   |
| GN-AP-MW-16V | 2/25/2019 13:37 | Conductivity                  | 413.4 | uS/cm |
| GN-AP-MW-16V | 2/25/2019 13:37 | DO                            | 0.24  | mg/L  |
| GN-AP-MW-16V | 2/25/2019 13:37 | Depth to Water Detail         | 10.1  | ft    |
| GN-AP-MW-16V | 2/25/2019 13:37 | Oxidation Reduction Potention | 63.9  | mv    |
| GN-AP-MW-16V | 2/25/2019 13:37 | pH                            | 8.66  | pH    |
| GN-AP-MW-16V | 2/25/2019 13:37 | Temperature                   | 19.52 | C     |
| GN-AP-MW-16V | 2/25/2019 13:37 | Turbidity                     | 22.9  | NTU   |
| GN-AP-MW-16V | 2/25/2019 13:42 | Conductivity                  | 413.5 | uS/cm |
| GN-AP-MW-16V | 2/25/2019 13:42 | DO                            | 0.25  | mg/L  |
| GN-AP-MW-16V | 2/25/2019 13:42 | Depth to Water Detail         | 10.23 | ft    |
| GN-AP-MW-16V | 2/25/2019 13:42 | Oxidation Reduction Potention | 65.4  | mv    |
| GN-AP-MW-16V | 2/25/2019 13:42 | pH                            | 8.67  | pH    |
| GN-AP-MW-16V | 2/25/2019 13:42 | Temperature                   | 19.5  | C     |
| GN-AP-MW-16V | 2/25/2019 13:42 | Turbidity                     | 19.9  | NTU   |
| GN-AP-MW-16V | 2/25/2019 13:47 | Conductivity                  | 413   | uS/cm |
| GN-AP-MW-16V | 2/25/2019 13:47 | DO                            | 0.24  | mg/L  |
| GN-AP-MW-16V | 2/25/2019 13:47 | Depth to Water Detail         | 10.38 | ft    |
| GN-AP-MW-16V | 2/25/2019 13:47 | Oxidation Reduction Potention | 65.9  | mv    |
| GN-AP-MW-16V | 2/25/2019 13:47 | pH                            | 8.66  | pH    |
| GN-AP-MW-16V | 2/25/2019 13:47 | Temperature                   | 19.6  | C     |
| GN-AP-MW-16V | 2/25/2019 13:47 | Turbidity                     | 18.1  | NTU   |
| GN-AP-MW-16V | 2/25/2019 13:52 | Conductivity                  | 412.8 | uS/cm |

**Alabama Power Company  
Plant Gaston Ash Pond**

| WELL ID      | READING TIME    | DESCRIPTION                   | VALUE | UNIT  |
|--------------|-----------------|-------------------------------|-------|-------|
| GN-AP-MW-16V | 2/25/2019 13:52 | DO                            | 0.23  | mg/L  |
| GN-AP-MW-16V | 2/25/2019 13:52 | Depth to Water Detail         | 10.4  | ft    |
| GN-AP-MW-16V | 2/25/2019 13:52 | Oxidation Reduction Potention | 67.3  | mv    |
| GN-AP-MW-16V | 2/25/2019 13:52 | pH                            | 8.66  | pH    |
| GN-AP-MW-16V | 2/25/2019 13:52 | Temperature                   | 19.66 | C     |
| GN-AP-MW-16V | 2/25/2019 13:52 | Turbidity                     | 15.9  | NTU   |
| GN-AP-MW-16V | 2/25/2019 13:57 | Conductivity                  | 412.7 | uS/cm |
| GN-AP-MW-16V | 2/25/2019 13:57 | DO                            | 0.23  | mg/L  |
| GN-AP-MW-16V | 2/25/2019 13:57 | Depth to Water Detail         | 10.55 | ft    |
| GN-AP-MW-16V | 2/25/2019 13:57 | Oxidation Reduction Potention | 69.1  | mv    |
| GN-AP-MW-16V | 2/25/2019 13:57 | pH                            | 8.67  | pH    |
| GN-AP-MW-16V | 2/25/2019 13:57 | Temperature                   | 19.79 | C     |
| GN-AP-MW-16V | 2/25/2019 13:57 | Turbidity                     | 13.8  | NTU   |
| GN-AP-MW-16V | 2/25/2019 14:02 | Conductivity                  | 413.3 | uS/cm |
| GN-AP-MW-16V | 2/25/2019 14:02 | DO                            | 0.24  | mg/L  |
| GN-AP-MW-16V | 2/25/2019 14:02 | Depth to Water Detail         | 10.62 | ft    |
| GN-AP-MW-16V | 2/25/2019 14:02 | Oxidation Reduction Potention | 73.1  | mv    |
| GN-AP-MW-16V | 2/25/2019 14:02 | pH                            | 8.67  | pH    |
| GN-AP-MW-16V | 2/25/2019 14:02 | Temperature                   | 19.7  | C     |
| GN-AP-MW-16V | 2/25/2019 14:02 | Turbidity                     | 12.3  | NTU   |
| GN-AP-MW-16V | 2/25/2019 14:07 | Conductivity                  | 413.3 | uS/cm |
| GN-AP-MW-16V | 2/25/2019 14:07 | DO                            | 0.23  | mg/L  |
| GN-AP-MW-16V | 2/25/2019 14:07 | Depth to Water Detail         | 10.62 | ft    |
| GN-AP-MW-16V | 2/25/2019 14:07 | Oxidation Reduction Potention | 72.9  | mv    |
| GN-AP-MW-16V | 2/25/2019 14:07 | pH                            | 8.67  | pH    |
| GN-AP-MW-16V | 2/25/2019 14:07 | Temperature                   | 19.75 | C     |
| GN-AP-MW-16V | 2/25/2019 14:07 | Turbidity                     | 11.3  | NTU   |
| GN-AP-MW-16V | 2/25/2019 14:12 | Conductivity                  | 411   | uS/cm |
| GN-AP-MW-16V | 2/25/2019 14:12 | DO                            | 0.21  | mg/L  |
| GN-AP-MW-16V | 2/25/2019 14:12 | Depth to Water Detail         | 10.72 | ft    |
| GN-AP-MW-16V | 2/25/2019 14:12 | Oxidation Reduction Potention | 72.8  | mv    |
| GN-AP-MW-16V | 2/25/2019 14:12 | pH                            | 8.67  | pH    |
| GN-AP-MW-16V | 2/25/2019 14:12 | Temperature                   | 20.06 | C     |
| GN-AP-MW-16V | 2/25/2019 14:12 | Turbidity                     | 10.63 | NTU   |
| GN-AP-MW-16V | 2/25/2019 14:17 | Conductivity                  | 410.9 | uS/cm |
| GN-AP-MW-16V | 2/25/2019 14:17 | DO                            | 0.22  | mg/L  |
| GN-AP-MW-16V | 2/25/2019 14:17 | Depth to Water Detail         | 10.72 | ft    |
| GN-AP-MW-16V | 2/25/2019 14:17 | Oxidation Reduction Potention | 75.3  | mv    |
| GN-AP-MW-16V | 2/25/2019 14:17 | pH                            | 8.66  | pH    |
| GN-AP-MW-16V | 2/25/2019 14:17 | Temperature                   | 20.14 | C     |
| GN-AP-MW-16V | 2/25/2019 14:17 | Turbidity                     | 11.1  | NTU   |
| GN-AP-MW-16V | 2/25/2019 14:22 | Conductivity                  | 411.3 | uS/cm |
| GN-AP-MW-16V | 2/25/2019 14:22 | DO                            | 0.21  | mg/L  |
| GN-AP-MW-16V | 2/25/2019 14:22 | Depth to Water Detail         | 10.79 | ft    |
| GN-AP-MW-16V | 2/25/2019 14:22 | Oxidation Reduction Potention | 78.7  | mv    |
| GN-AP-MW-16V | 2/25/2019 14:22 | pH                            | 8.67  | pH    |

**Alabama Power Company  
Plant Gaston Ash Pond**

| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-16V   | 2/25/2019 14:22     | Temperature                   | 20.19        | C           |
| GN-AP-MW-16V   | 2/25/2019 14:22     | Turbidity                     | 10.3         | NTU         |
| GN-AP-MW-16V   | 2/25/2019 14:27     | Conductivity                  | 412.7        | uS/cm       |
| GN-AP-MW-16V   | 2/25/2019 14:27     | DO                            | 0.22         | mg/L        |
| GN-AP-MW-16V   | 2/25/2019 14:27     | Depth to Water Detail         | 10.82        | ft          |
| GN-AP-MW-16V   | 2/25/2019 14:27     | Oxidation Reduction Potential | 83.9         | mv          |
| GN-AP-MW-16V   | 2/25/2019 14:27     | pH                            | 8.67         | pH          |
| GN-AP-MW-16V   | 2/25/2019 14:27     | Temperature                   | 19.91        | C           |
| GN-AP-MW-16V   | 2/25/2019 14:27     | Turbidity                     | 9.7          | NTU         |
| GN-AP-MW-16V   | 2/25/2019 14:32     | Conductivity                  | 412.1        | uS/cm       |
| GN-AP-MW-16V   | 2/25/2019 14:32     | DO                            | 0.21         | mg/L        |
| GN-AP-MW-16V   | 2/25/2019 14:32     | Depth to Water Detail         | 10.83        | ft          |
| GN-AP-MW-16V   | 2/25/2019 14:32     | Oxidation Reduction Potential | 84.9         | mv          |
| GN-AP-MW-16V   | 2/25/2019 14:32     | pH                            | 8.67         | pH          |
| GN-AP-MW-16V   | 2/25/2019 14:32     | Temperature                   | 20.06        | C           |
| GN-AP-MW-16V   | 2/25/2019 14:32     | Turbidity                     | 9.49         | NTU         |
| GN-AP-MW-16V   | 2/25/2019 14:37     | Conductivity                  | 411.8        | uS/cm       |
| GN-AP-MW-16V   | 2/25/2019 14:37     | DO                            | 0.21         | mg/L        |
| GN-AP-MW-16V   | 2/25/2019 14:37     | Depth to Water Detail         | 10.86        | ft          |
| GN-AP-MW-16V   | 2/25/2019 14:37     | Oxidation Reduction Potential | 85.9         | mv          |
| GN-AP-MW-16V   | 2/25/2019 14:37     | pH                            | 8.67         | pH          |
| GN-AP-MW-16V   | 2/25/2019 14:37     | Temperature                   | 20.15        | C           |
| GN-AP-MW-16V   | 2/25/2019 14:37     | Turbidity                     | 8.64         | NTU         |
| GN-AP-MW-16V   | 2/25/2019 14:42     | Conductivity                  | 412          | uS/cm       |
| GN-AP-MW-16V   | 2/25/2019 14:42     | DO                            | 0.21         | mg/L        |
| GN-AP-MW-16V   | 2/25/2019 14:42     | Depth to Water Detail         | 10.9         | ft          |
| GN-AP-MW-16V   | 2/25/2019 14:42     | Oxidation Reduction Potential | 89.5         | mv          |
| GN-AP-MW-16V   | 2/25/2019 14:42     | pH                            | 8.67         | pH          |
| GN-AP-MW-16V   | 2/25/2019 14:42     | Temperature                   | 20.1         | C           |
| GN-AP-MW-16V   | 2/25/2019 14:42     | Turbidity                     | 8            | NTU         |
| GN-AP-MW-16V   | 2/25/2019 14:47     | Conductivity                  | 410.7        | uS/cm       |
| GN-AP-MW-16V   | 2/25/2019 14:47     | DO                            | 0.2          | mg/L        |
| GN-AP-MW-16V   | 2/25/2019 14:47     | Depth to Water Detail         | 10.92        | ft          |
| GN-AP-MW-16V   | 2/25/2019 14:47     | Oxidation Reduction Potential | 95.1         | mv          |
| GN-AP-MW-16V   | 2/25/2019 14:47     | pH                            | 8.67         | pH          |
| GN-AP-MW-16V   | 2/25/2019 14:47     | Temperature                   | 20.19        | C           |
| GN-AP-MW-16V   | 2/25/2019 14:47     | Turbidity                     | 7.15         | NTU         |
| GN-AP-MW-16V   | 2/25/2019 14:52     | Conductivity                  | 411          | uS/cm       |
| GN-AP-MW-16V   | 2/25/2019 14:52     | DO                            | 0.2          | mg/L        |
| GN-AP-MW-16V   | 2/25/2019 14:52     | Depth to Water Detail         | 10.92        | ft          |
| GN-AP-MW-16V   | 2/25/2019 14:52     | Oxidation Reduction Potential | 88.8         | mv          |
| GN-AP-MW-16V   | 2/25/2019 14:52     | pH                            | 8.67         | pH          |
| GN-AP-MW-16V   | 2/25/2019 14:52     | Temperature                   | 20.24        | C           |
| GN-AP-MW-16V   | 2/25/2019 14:52     | Turbidity                     | 7.02         | NTU         |
| GN-AP-MW-16V   | 2/25/2019 14:57     | Conductivity                  | 411.4        | uS/cm       |
| GN-AP-MW-16V   | 2/25/2019 14:57     | DO                            | 0.2          | mg/L        |



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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-16V   | 2/25/2019 14:57     | Depth to Water Detail         | 10.94        | ft          |
| GN-AP-MW-16V   | 2/25/2019 14:57     | Oxidation Reduction Potention | 89.7         | mv          |
| GN-AP-MW-16V   | 2/25/2019 14:57     | pH                            | 8.66         | pH          |
| GN-AP-MW-16V   | 2/25/2019 14:57     | Temperature                   | 20.24        | C           |
| GN-AP-MW-16V   | 2/25/2019 14:57     | Turbidity                     | 6.8          | NTU         |
| GN-AP-MW-16V   | 2/25/2019 15:02     | Conductivity                  | 411.4        | uS/cm       |
| GN-AP-MW-16V   | 2/25/2019 15:02     | DO                            | 0.2          | mg/L        |
| GN-AP-MW-16V   | 2/25/2019 15:02     | Depth to Water Detail         | 10.96        | ft          |
| GN-AP-MW-16V   | 2/25/2019 15:02     | Oxidation Reduction Potention | 92.6         | mv          |
| GN-AP-MW-16V   | 2/25/2019 15:02     | pH                            | 8.67         | pH          |
| GN-AP-MW-16V   | 2/25/2019 15:02     | Temperature                   | 20.26        | C           |
| GN-AP-MW-16V   | 2/25/2019 15:02     | Turbidity                     | 5.92         | NTU         |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-17SV  | 12/17/2018 10:02    | Conductivity                  | 684.3        | uS/cm       |
| GN-AP-MW-17SV  | 12/17/2018 10:02    | DO                            | 0.11         | mg/L        |
| GN-AP-MW-17SV  | 12/17/2018 10:02    | Depth to Water Detail         | 8.57         | ft          |
| GN-AP-MW-17SV  | 12/17/2018 10:02    | Oxidation Reduction Potention | -44.9        | mv          |
| GN-AP-MW-17SV  | 12/17/2018 10:02    | pH                            | 7.12         | pH          |
| GN-AP-MW-17SV  | 12/17/2018 10:02    | Temperature                   | 20.82        | C           |
| GN-AP-MW-17SV  | 12/17/2018 10:02    | Turbidity                     | 12.3         | NTU         |
| GN-AP-MW-17SV  | 12/17/2018 10:07    | Conductivity                  | 682.9        | uS/cm       |
| GN-AP-MW-17SV  | 12/17/2018 10:07    | DO                            | 0.09         | mg/L        |
| GN-AP-MW-17SV  | 12/17/2018 10:07    | Depth to Water Detail         | 8.57         | ft          |
| GN-AP-MW-17SV  | 12/17/2018 10:07    | Oxidation Reduction Potention | -48.7        | mv          |
| GN-AP-MW-17SV  | 12/17/2018 10:07    | pH                            | 7.15         | pH          |
| GN-AP-MW-17SV  | 12/17/2018 10:07    | Temperature                   | 20.84        | C           |
| GN-AP-MW-17SV  | 12/17/2018 10:07    | Turbidity                     | 7.8          | NTU         |
| GN-AP-MW-17SV  | 12/17/2018 10:12    | Conductivity                  | 682.2        | uS/cm       |
| GN-AP-MW-17SV  | 12/17/2018 10:12    | DO                            | 0.08         | mg/L        |
| GN-AP-MW-17SV  | 12/17/2018 10:12    | Depth to Water Detail         | 8.57         | ft          |
| GN-AP-MW-17SV  | 12/17/2018 10:12    | Oxidation Reduction Potention | -48.8        | mv          |
| GN-AP-MW-17SV  | 12/17/2018 10:12    | pH                            | 7.15         | pH          |
| GN-AP-MW-17SV  | 12/17/2018 10:12    | Temperature                   | 20.88        | C           |
| GN-AP-MW-17SV  | 12/17/2018 10:12    | Turbidity                     | 5.1          | NTU         |
| GN-AP-MW-17SV  | 12/17/2018 10:17    | Conductivity                  | 682.3        | uS/cm       |
| GN-AP-MW-17SV  | 12/17/2018 10:17    | DO                            | 0.07         | mg/L        |
| GN-AP-MW-17SV  | 12/17/2018 10:17    | Depth to Water Detail         | 8.57         | ft          |
| GN-AP-MW-17SV  | 12/17/2018 10:17    | Oxidation Reduction Potention | -48.8        | mv          |
| GN-AP-MW-17SV  | 12/17/2018 10:17    | pH                            | 7.16         | pH          |
| GN-AP-MW-17SV  | 12/17/2018 10:17    | Temperature                   | 20.92        | C           |
| GN-AP-MW-17SV  | 12/17/2018 10:17    | Turbidity                     | 2.79         | NTU         |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-17V   | 2/27/2019 9:06      | Conductivity                  | 669.2        | uS/cm       |
| GN-AP-MW-17V   | 2/27/2019 9:06      | DO                            | 0.27         | mg/L        |
| GN-AP-MW-17V   | 2/27/2019 9:06      | Depth to Water Detail         | 7.42         | ft          |
| GN-AP-MW-17V   | 2/27/2019 9:06      | Oxidation Reduction Potention | 21.4         | mv          |
| GN-AP-MW-17V   | 2/27/2019 9:06      | pH                            | 8.77         | pH          |
| GN-AP-MW-17V   | 2/27/2019 9:06      | Temperature                   | 19.95        | C           |
| GN-AP-MW-17V   | 2/27/2019 9:06      | Turbidity                     | 17.2         | NTU         |
| GN-AP-MW-17V   | 2/27/2019 9:11      | Conductivity                  | 663.3        | uS/cm       |
| GN-AP-MW-17V   | 2/27/2019 9:11      | DO                            | 0.23         | mg/L        |
| GN-AP-MW-17V   | 2/27/2019 9:11      | Depth to Water Detail         | 10.4         | ft          |
| GN-AP-MW-17V   | 2/27/2019 9:11      | Oxidation Reduction Potention | 25.5         | mv          |
| GN-AP-MW-17V   | 2/27/2019 9:11      | pH                            | 8.78         | pH          |
| GN-AP-MW-17V   | 2/27/2019 9:11      | Temperature                   | 20.07        | C           |
| GN-AP-MW-17V   | 2/27/2019 9:11      | Turbidity                     | 12.7         | NTU         |
| GN-AP-MW-17V   | 2/27/2019 9:16      | Conductivity                  | 662.9        | uS/cm       |
| GN-AP-MW-17V   | 2/27/2019 9:16      | DO                            | 0.21         | mg/L        |
| GN-AP-MW-17V   | 2/27/2019 9:16      | Depth to Water Detail         | 13.65        | ft          |
| GN-AP-MW-17V   | 2/27/2019 9:16      | Oxidation Reduction Potention | 24.8         | mv          |
| GN-AP-MW-17V   | 2/27/2019 9:16      | pH                            | 8.78         | pH          |
| GN-AP-MW-17V   | 2/27/2019 9:16      | Temperature                   | 20.22        | C           |
| GN-AP-MW-17V   | 2/27/2019 9:16      | Turbidity                     | 8.81         | NTU         |
| GN-AP-MW-17V   | 2/27/2019 9:21      | Conductivity                  | 663          | uS/cm       |
| GN-AP-MW-17V   | 2/27/2019 9:21      | DO                            | 0.19         | mg/L        |
| GN-AP-MW-17V   | 2/27/2019 9:21      | Depth to Water Detail         | 15.9         | ft          |
| GN-AP-MW-17V   | 2/27/2019 9:21      | Oxidation Reduction Potention | 26.6         | mv          |
| GN-AP-MW-17V   | 2/27/2019 9:21      | pH                            | 8.78         | pH          |
| GN-AP-MW-17V   | 2/27/2019 9:21      | Temperature                   | 20.37        | C           |
| GN-AP-MW-17V   | 2/27/2019 9:21      | Turbidity                     | 9.48         | NTU         |
| GN-AP-MW-17V   | 2/27/2019 9:26      | Conductivity                  | 662.3        | uS/cm       |
| GN-AP-MW-17V   | 2/27/2019 9:26      | DO                            | 0.18         | mg/L        |
| GN-AP-MW-17V   | 2/27/2019 9:26      | Depth to Water Detail         | 18.3         | ft          |
| GN-AP-MW-17V   | 2/27/2019 9:26      | Oxidation Reduction Potention | 26.3         | mv          |
| GN-AP-MW-17V   | 2/27/2019 9:26      | pH                            | 8.78         | pH          |
| GN-AP-MW-17V   | 2/27/2019 9:26      | Temperature                   | 20.48        | C           |
| GN-AP-MW-17V   | 2/27/2019 9:26      | Turbidity                     | 7.66         | NTU         |
| GN-AP-MW-17V   | 2/27/2019 9:31      | Conductivity                  | 661.1        | uS/cm       |
| GN-AP-MW-17V   | 2/27/2019 9:31      | DO                            | 0.19         | mg/L        |
| GN-AP-MW-17V   | 2/27/2019 9:31      | Depth to Water Detail         | 19.98        | ft          |
| GN-AP-MW-17V   | 2/27/2019 9:31      | Oxidation Reduction Potention | 28.3         | mv          |
| GN-AP-MW-17V   | 2/27/2019 9:31      | pH                            | 8.77         | pH          |
| GN-AP-MW-17V   | 2/27/2019 9:31      | Temperature                   | 20.57        | C           |
| GN-AP-MW-17V   | 2/27/2019 9:31      | Turbidity                     | 7            | NTU         |
| GN-AP-MW-17V   | 2/27/2019 9:36      | Conductivity                  | 661.2        | uS/cm       |
| GN-AP-MW-17V   | 2/27/2019 9:36      | DO                            | 0.19         | mg/L        |
| GN-AP-MW-17V   | 2/27/2019 9:36      | Depth to Water Detail         | 23           | ft          |
| GN-AP-MW-17V   | 2/27/2019 9:36      | Oxidation Reduction Potention | 30.7         | mv          |

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| WELL ID      | READING TIME    | DESCRIPTION                   | VALUE | UNIT  |
|--------------|-----------------|-------------------------------|-------|-------|
| GN-AP-MW-17V | 2/27/2019 9:36  | pH                            | 8.77  | pH    |
| GN-AP-MW-17V | 2/27/2019 9:36  | Temperature                   | 20.64 | C     |
| GN-AP-MW-17V | 2/27/2019 9:36  | Turbidity                     | 6.48  | NTU   |
| GN-AP-MW-17V | 2/27/2019 9:41  | Conductivity                  | 661.4 | uS/cm |
| GN-AP-MW-17V | 2/27/2019 9:41  | DO                            | 0.2   | mg/L  |
| GN-AP-MW-17V | 2/27/2019 9:41  | Depth to Water Detail         | 25.4  | ft    |
| GN-AP-MW-17V | 2/27/2019 9:41  | Oxidation Reduction Potention | 33.2  | mv    |
| GN-AP-MW-17V | 2/27/2019 9:41  | pH                            | 8.77  | pH    |
| GN-AP-MW-17V | 2/27/2019 9:41  | Temperature                   | 20.69 | C     |
| GN-AP-MW-17V | 2/27/2019 9:41  | Turbidity                     | 6.56  | NTU   |
| GN-AP-MW-17V | 2/27/2019 9:46  | Conductivity                  | 661.6 | uS/cm |
| GN-AP-MW-17V | 2/27/2019 9:46  | DO                            | 0.21  | mg/L  |
| GN-AP-MW-17V | 2/27/2019 9:46  | Depth to Water Detail         | 27.5  | ft    |
| GN-AP-MW-17V | 2/27/2019 9:46  | Oxidation Reduction Potention | 35.5  | mv    |
| GN-AP-MW-17V | 2/27/2019 9:46  | pH                            | 8.77  | pH    |
| GN-AP-MW-17V | 2/27/2019 9:46  | Temperature                   | 20.74 | C     |
| GN-AP-MW-17V | 2/27/2019 9:46  | Turbidity                     | 5.49  | NTU   |
| GN-AP-MW-17V | 2/27/2019 9:51  | Conductivity                  | 661.6 | uS/cm |
| GN-AP-MW-17V | 2/27/2019 9:51  | DO                            | 0.22  | mg/L  |
| GN-AP-MW-17V | 2/27/2019 9:51  | Depth to Water Detail         | 29.1  | ft    |
| GN-AP-MW-17V | 2/27/2019 9:51  | Oxidation Reduction Potention | 38    | mv    |
| GN-AP-MW-17V | 2/27/2019 9:51  | pH                            | 8.77  | pH    |
| GN-AP-MW-17V | 2/27/2019 9:51  | Temperature                   | 20.77 | C     |
| GN-AP-MW-17V | 2/27/2019 9:51  | Turbidity                     | 6.55  | NTU   |
| GN-AP-MW-17V | 2/27/2019 9:56  | Conductivity                  | 658.2 | uS/cm |
| GN-AP-MW-17V | 2/27/2019 9:56  | DO                            | 0.48  | mg/L  |
| GN-AP-MW-17V | 2/27/2019 9:56  | Depth to Water Detail         | 29.13 | ft    |
| GN-AP-MW-17V | 2/27/2019 9:56  | Oxidation Reduction Potention | 43.1  | mv    |
| GN-AP-MW-17V | 2/27/2019 9:56  | pH                            | 8.77  | pH    |
| GN-AP-MW-17V | 2/27/2019 9:56  | Temperature                   | 20.37 | C     |
| GN-AP-MW-17V | 2/27/2019 9:56  | Turbidity                     | 6.63  | NTU   |
| GN-AP-MW-17V | 2/27/2019 10:01 | Conductivity                  | 655.3 | uS/cm |
| GN-AP-MW-17V | 2/27/2019 10:01 | DO                            | 0.61  | mg/L  |
| GN-AP-MW-17V | 2/27/2019 10:01 | Depth to Water Detail         | 28.86 | ft    |
| GN-AP-MW-17V | 2/27/2019 10:01 | Oxidation Reduction Potention | 37.7  | mv    |
| GN-AP-MW-17V | 2/27/2019 10:01 | pH                            | 8.77  | pH    |
| GN-AP-MW-17V | 2/27/2019 10:01 | Temperature                   | 20.32 | C     |
| GN-AP-MW-17V | 2/27/2019 10:01 | Turbidity                     | 5.69  | NTU   |
| GN-AP-MW-17V | 2/27/2019 10:06 | Conductivity                  | 654.6 | uS/cm |
| GN-AP-MW-17V | 2/27/2019 10:06 | DO                            | 0.68  | mg/L  |
| GN-AP-MW-17V | 2/27/2019 10:06 | Depth to Water Detail         | 28.55 | ft    |
| GN-AP-MW-17V | 2/27/2019 10:06 | Oxidation Reduction Potention | 32.5  | mv    |
| GN-AP-MW-17V | 2/27/2019 10:06 | pH                            | 8.78  | pH    |
| GN-AP-MW-17V | 2/27/2019 10:06 | Temperature                   | 20.46 | C     |
| GN-AP-MW-17V | 2/27/2019 10:06 | Turbidity                     | 6.71  | NTU   |
| GN-AP-MW-17V | 2/27/2019 10:11 | Conductivity                  | 655.8 | uS/cm |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-17V   | 2/27/2019 10:11     | DO                            | 0.73         | mg/L        |
| GN-AP-MW-17V   | 2/27/2019 10:11     | Depth to Water Detail         | 28.42        | ft          |
| GN-AP-MW-17V   | 2/27/2019 10:11     | Oxidation Reduction Potention | 31.9         | mv          |
| GN-AP-MW-17V   | 2/27/2019 10:11     | pH                            | 8.78         | pH          |
| GN-AP-MW-17V   | 2/27/2019 10:11     | Temperature                   | 20.5         | C           |
| GN-AP-MW-17V   | 2/27/2019 10:11     | Turbidity                     | 6.49         | NTU         |
| GN-AP-MW-17V   | 2/27/2019 10:16     | Conductivity                  | 657.5        | uS/cm       |
| GN-AP-MW-17V   | 2/27/2019 10:16     | DO                            | 0.74         | mg/L        |
| GN-AP-MW-17V   | 2/27/2019 10:16     | Depth to Water Detail         | 28.2         | ft          |
| GN-AP-MW-17V   | 2/27/2019 10:16     | Oxidation Reduction Potention | 33.2         | mv          |
| GN-AP-MW-17V   | 2/27/2019 10:16     | pH                            | 8.78         | pH          |
| GN-AP-MW-17V   | 2/27/2019 10:16     | Temperature                   | 20.62        | C           |
| GN-AP-MW-17V   | 2/27/2019 10:16     | Turbidity                     | 6.5          | NTU         |

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| WELL ID       | READING TIME     | DESCRIPTION                   | VALUE | UNIT  |
|---------------|------------------|-------------------------------|-------|-------|
| GN-AP-MW-20SV | 12/13/2018 9:47  | Conductivity                  | 799.7 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 9:47  | DO                            | 4.53  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 9:47  | Depth to Water Detail         | 10.39 | ft    |
| GN-AP-MW-20SV | 12/13/2018 9:47  | Oxidation Reduction Potention | 18.2  | mv    |
| GN-AP-MW-20SV | 12/13/2018 9:47  | pH                            | 7.18  | pH    |
| GN-AP-MW-20SV | 12/13/2018 9:47  | Temperature                   | 19.62 | C     |
| GN-AP-MW-20SV | 12/13/2018 9:47  | Turbidity                     | 2369  | NTU   |
| GN-AP-MW-20SV | 12/13/2018 9:52  | Conductivity                  | 805.8 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 9:52  | DO                            | 4.44  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 9:52  | Depth to Water Detail         | 10.74 | ft    |
| GN-AP-MW-20SV | 12/13/2018 9:52  | Oxidation Reduction Potention | 15.8  | mv    |
| GN-AP-MW-20SV | 12/13/2018 9:52  | pH                            | 7.25  | pH    |
| GN-AP-MW-20SV | 12/13/2018 9:52  | Temperature                   | 19.65 | C     |
| GN-AP-MW-20SV | 12/13/2018 9:52  | Turbidity                     | 2031  | NTU   |
| GN-AP-MW-20SV | 12/13/2018 9:57  | Conductivity                  | 813.3 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 9:57  | DO                            | 4.18  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 9:57  | Depth to Water Detail         | 10.87 | ft    |
| GN-AP-MW-20SV | 12/13/2018 9:57  | Oxidation Reduction Potention | 4.7   | mv    |
| GN-AP-MW-20SV | 12/13/2018 9:57  | pH                            | 7.27  | pH    |
| GN-AP-MW-20SV | 12/13/2018 9:57  | Temperature                   | 19.66 | C     |
| GN-AP-MW-20SV | 12/13/2018 9:57  | Turbidity                     | 1471  | NTU   |
| GN-AP-MW-20SV | 12/13/2018 10:02 | Conductivity                  | 819.5 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 10:02 | DO                            | 3.93  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 10:02 | Depth to Water Detail         | 11    | ft    |
| GN-AP-MW-20SV | 12/13/2018 10:02 | Oxidation Reduction Potention | -3.7  | mv    |
| GN-AP-MW-20SV | 12/13/2018 10:02 | pH                            | 7.28  | pH    |
| GN-AP-MW-20SV | 12/13/2018 10:02 | Temperature                   | 19.64 | C     |
| GN-AP-MW-20SV | 12/13/2018 10:02 | Turbidity                     | 1204  | NTU   |
| GN-AP-MW-20SV | 12/13/2018 10:07 | Conductivity                  | 820   | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 10:07 | DO                            | 3.82  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 10:07 | Depth to Water Detail         | 11.12 | ft    |
| GN-AP-MW-20SV | 12/13/2018 10:07 | Oxidation Reduction Potention | -15.7 | mv    |
| GN-AP-MW-20SV | 12/13/2018 10:07 | pH                            | 7.28  | pH    |
| GN-AP-MW-20SV | 12/13/2018 10:07 | Temperature                   | 19.63 | C     |
| GN-AP-MW-20SV | 12/13/2018 10:07 | Turbidity                     | 735   | NTU   |
| GN-AP-MW-20SV | 12/13/2018 10:12 | Conductivity                  | 812.8 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 10:12 | DO                            | 3.86  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 10:12 | Depth to Water Detail         | 11.14 | ft    |
| GN-AP-MW-20SV | 12/13/2018 10:12 | Oxidation Reduction Potention | -20.9 | mv    |
| GN-AP-MW-20SV | 12/13/2018 10:12 | pH                            | 7.28  | pH    |
| GN-AP-MW-20SV | 12/13/2018 10:12 | Temperature                   | 19.68 | C     |
| GN-AP-MW-20SV | 12/13/2018 10:12 | Turbidity                     | 669   | NTU   |
| GN-AP-MW-20SV | 12/13/2018 10:17 | Conductivity                  | 806.1 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 10:17 | DO                            | 4.24  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 10:17 | Depth to Water Detail         | 11.14 | ft    |
| GN-AP-MW-20SV | 12/13/2018 10:17 | Oxidation Reduction Potention | -24.7 | mv    |

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| WELL ID       | READING TIME     | DESCRIPTION                   | VALUE | UNIT  |
|---------------|------------------|-------------------------------|-------|-------|
| GN-AP-MW-20SV | 12/13/2018 10:17 | pH                            | 7.28  | pH    |
| GN-AP-MW-20SV | 12/13/2018 10:17 | Temperature                   | 19.68 | C     |
| GN-AP-MW-20SV | 12/13/2018 10:17 | Turbidity                     | 135   | NTU   |
| GN-AP-MW-20SV | 12/13/2018 10:22 | Conductivity                  | 806.9 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 10:22 | DO                            | 4.31  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 10:22 | Depth to Water Detail         | 11.14 | ft    |
| GN-AP-MW-20SV | 12/13/2018 10:22 | Oxidation Reduction Potention | -27.5 | mv    |
| GN-AP-MW-20SV | 12/13/2018 10:22 | pH                            | 7.29  | pH    |
| GN-AP-MW-20SV | 12/13/2018 10:22 | Temperature                   | 19.68 | C     |
| GN-AP-MW-20SV | 12/13/2018 10:22 | Turbidity                     | 149   | NTU   |
| GN-AP-MW-20SV | 12/13/2018 10:27 | Conductivity                  | 807.4 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 10:27 | DO                            | 3.87  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 10:27 | Depth to Water Detail         | 11.14 | ft    |
| GN-AP-MW-20SV | 12/13/2018 10:27 | Oxidation Reduction Potention | -32.5 | mv    |
| GN-AP-MW-20SV | 12/13/2018 10:27 | pH                            | 7.29  | pH    |
| GN-AP-MW-20SV | 12/13/2018 10:27 | Temperature                   | 19.68 | C     |
| GN-AP-MW-20SV | 12/13/2018 10:27 | Turbidity                     | 66    | NTU   |
| GN-AP-MW-20SV | 12/13/2018 10:32 | Conductivity                  | 836.2 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 10:32 | DO                            | 4.31  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 10:32 | Depth to Water Detail         | 11.14 | ft    |
| GN-AP-MW-20SV | 12/13/2018 10:32 | Oxidation Reduction Potention | -36.8 | mv    |
| GN-AP-MW-20SV | 12/13/2018 10:32 | pH                            | 7.3   | pH    |
| GN-AP-MW-20SV | 12/13/2018 10:32 | Temperature                   | 19.65 | C     |
| GN-AP-MW-20SV | 12/13/2018 10:32 | Turbidity                     | 58    | NTU   |
| GN-AP-MW-20SV | 12/13/2018 10:37 | Conductivity                  | 836.3 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 10:37 | DO                            | 3.89  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 10:37 | Depth to Water Detail         | 11.14 | ft    |
| GN-AP-MW-20SV | 12/13/2018 10:37 | Oxidation Reduction Potention | -40.1 | mv    |
| GN-AP-MW-20SV | 12/13/2018 10:37 | pH                            | 7.29  | pH    |
| GN-AP-MW-20SV | 12/13/2018 10:37 | Temperature                   | 19.7  | C     |
| GN-AP-MW-20SV | 12/13/2018 10:37 | Turbidity                     | 123   | NTU   |
| GN-AP-MW-20SV | 12/13/2018 10:42 | Conductivity                  | 829.3 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 10:42 | DO                            | 4.27  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 10:42 | Depth to Water Detail         | 11.14 | ft    |
| GN-AP-MW-20SV | 12/13/2018 10:42 | Oxidation Reduction Potention | -40   | mv    |
| GN-AP-MW-20SV | 12/13/2018 10:42 | pH                            | 7.29  | pH    |
| GN-AP-MW-20SV | 12/13/2018 10:42 | Temperature                   | 19.73 | C     |
| GN-AP-MW-20SV | 12/13/2018 10:42 | Turbidity                     | 110   | NTU   |
| GN-AP-MW-20SV | 12/13/2018 10:47 | Conductivity                  | 829.6 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 10:47 | DO                            | 4.11  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 10:47 | Depth to Water Detail         | 11.14 | ft    |
| GN-AP-MW-20SV | 12/13/2018 10:47 | Oxidation Reduction Potention | -43.4 | mv    |
| GN-AP-MW-20SV | 12/13/2018 10:47 | pH                            | 7.28  | pH    |
| GN-AP-MW-20SV | 12/13/2018 10:47 | Temperature                   | 19.74 | C     |
| GN-AP-MW-20SV | 12/13/2018 10:47 | Turbidity                     | 112   | NTU   |
| GN-AP-MW-20SV | 12/13/2018 10:52 | Conductivity                  | 828.1 | uS/cm |

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| WELL ID       | READING TIME     | DESCRIPTION                   | VALUE | UNIT  |
|---------------|------------------|-------------------------------|-------|-------|
| GN-AP-MW-20SV | 12/13/2018 10:52 | DO                            | 4.05  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 10:52 | Depth to Water Detail         | 11.14 | ft    |
| GN-AP-MW-20SV | 12/13/2018 10:52 | Oxidation Reduction Potention | -44.2 | mv    |
| GN-AP-MW-20SV | 12/13/2018 10:52 | pH                            | 7.28  | pH    |
| GN-AP-MW-20SV | 12/13/2018 10:52 | Temperature                   | 19.74 | C     |
| GN-AP-MW-20SV | 12/13/2018 10:52 | Turbidity                     | 93.9  | NTU   |
| GN-AP-MW-20SV | 12/13/2018 10:57 | Conductivity                  | 820.5 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 10:57 | DO                            | 4.25  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 10:57 | Depth to Water Detail         | 11.14 | ft    |
| GN-AP-MW-20SV | 12/13/2018 10:57 | Oxidation Reduction Potention | -45.6 | mv    |
| GN-AP-MW-20SV | 12/13/2018 10:57 | pH                            | 7.28  | pH    |
| GN-AP-MW-20SV | 12/13/2018 10:57 | Temperature                   | 19.77 | C     |
| GN-AP-MW-20SV | 12/13/2018 10:57 | Turbidity                     | 90.6  | NTU   |
| GN-AP-MW-20SV | 12/13/2018 11:02 | Conductivity                  | 821.8 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 11:02 | DO                            | 4.09  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 11:02 | Depth to Water Detail         | 11.14 | ft    |
| GN-AP-MW-20SV | 12/13/2018 11:02 | Oxidation Reduction Potention | -46.8 | mv    |
| GN-AP-MW-20SV | 12/13/2018 11:02 | pH                            | 7.28  | pH    |
| GN-AP-MW-20SV | 12/13/2018 11:02 | Temperature                   | 19.75 | C     |
| GN-AP-MW-20SV | 12/13/2018 11:02 | Turbidity                     | 76.6  | NTU   |
| GN-AP-MW-20SV | 12/13/2018 11:07 | Conductivity                  | 825.2 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 11:07 | DO                            | 3.93  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 11:07 | Depth to Water Detail         | 11.14 | ft    |
| GN-AP-MW-20SV | 12/13/2018 11:07 | Oxidation Reduction Potention | -48.5 | mv    |
| GN-AP-MW-20SV | 12/13/2018 11:07 | pH                            | 7.28  | pH    |
| GN-AP-MW-20SV | 12/13/2018 11:07 | Temperature                   | 19.74 | C     |
| GN-AP-MW-20SV | 12/13/2018 11:07 | Turbidity                     | 74.5  | NTU   |
| GN-AP-MW-20SV | 12/13/2018 11:12 | Conductivity                  | 821.9 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 11:12 | DO                            | 3.97  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 11:12 | Depth to Water Detail         | 11.14 | ft    |
| GN-AP-MW-20SV | 12/13/2018 11:12 | Oxidation Reduction Potention | -49.2 | mv    |
| GN-AP-MW-20SV | 12/13/2018 11:12 | pH                            | 7.28  | pH    |
| GN-AP-MW-20SV | 12/13/2018 11:12 | Temperature                   | 19.74 | C     |
| GN-AP-MW-20SV | 12/13/2018 11:12 | Turbidity                     | 75.7  | NTU   |
| GN-AP-MW-20SV | 12/13/2018 11:17 | Conductivity                  | 816.5 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 11:17 | DO                            | 4.11  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 11:17 | Depth to Water Detail         | 11.14 | ft    |
| GN-AP-MW-20SV | 12/13/2018 11:17 | Oxidation Reduction Potention | -50.1 | mv    |
| GN-AP-MW-20SV | 12/13/2018 11:17 | pH                            | 7.28  | pH    |
| GN-AP-MW-20SV | 12/13/2018 11:17 | Temperature                   | 19.77 | C     |
| GN-AP-MW-20SV | 12/13/2018 11:17 | Turbidity                     | 62.2  | NTU   |
| GN-AP-MW-20SV | 12/13/2018 11:22 | Conductivity                  | 814.3 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 11:22 | DO                            | 4.29  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 11:22 | Depth to Water Detail         | 11.14 | ft    |
| GN-AP-MW-20SV | 12/13/2018 11:22 | Oxidation Reduction Potention | -50.7 | mv    |
| GN-AP-MW-20SV | 12/13/2018 11:22 | pH                            | 7.27  | pH    |



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| WELL ID       | READING TIME     | DESCRIPTION                   | VALUE | UNIT  |
|---------------|------------------|-------------------------------|-------|-------|
| GN-AP-MW-20SV | 12/13/2018 11:22 | Temperature                   | 19.79 | C     |
| GN-AP-MW-20SV | 12/13/2018 11:22 | Turbidity                     | 55    | NTU   |
| GN-AP-MW-20SV | 12/13/2018 11:27 | Conductivity                  | 816.3 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 11:27 | DO                            | 4.12  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 11:27 | Depth to Water Detail         | 11.14 | ft    |
| GN-AP-MW-20SV | 12/13/2018 11:27 | Oxidation Reduction Potential | -51.7 | mv    |
| GN-AP-MW-20SV | 12/13/2018 11:27 | pH                            | 7.27  | pH    |
| GN-AP-MW-20SV | 12/13/2018 11:27 | Temperature                   | 19.77 | C     |
| GN-AP-MW-20SV | 12/13/2018 11:27 | Turbidity                     | 56.3  | NTU   |
| GN-AP-MW-20SV | 12/13/2018 11:32 | Conductivity                  | 817.1 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 11:32 | DO                            | 4.07  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 11:32 | Depth to Water Detail         | 11.14 | ft    |
| GN-AP-MW-20SV | 12/13/2018 11:32 | Oxidation Reduction Potential | -53.8 | mv    |
| GN-AP-MW-20SV | 12/13/2018 11:32 | pH                            | 7.27  | pH    |
| GN-AP-MW-20SV | 12/13/2018 11:32 | Temperature                   | 19.86 | C     |
| GN-AP-MW-20SV | 12/13/2018 11:32 | Turbidity                     | 52.7  | NTU   |
| GN-AP-MW-20SV | 12/13/2018 11:37 | Conductivity                  | 815.1 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 11:37 | DO                            | 4.29  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 11:37 | Depth to Water Detail         | 11.14 | ft    |
| GN-AP-MW-20SV | 12/13/2018 11:37 | Oxidation Reduction Potential | -54.2 | mv    |
| GN-AP-MW-20SV | 12/13/2018 11:37 | pH                            | 7.27  | pH    |
| GN-AP-MW-20SV | 12/13/2018 11:37 | Temperature                   | 19.86 | C     |
| GN-AP-MW-20SV | 12/13/2018 11:37 | Turbidity                     | 52.9  | NTU   |
| GN-AP-MW-20SV | 12/13/2018 11:42 | Conductivity                  | 815.8 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 11:42 | DO                            | 4.33  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 11:42 | Depth to Water Detail         | 11.14 | ft    |
| GN-AP-MW-20SV | 12/13/2018 11:42 | Oxidation Reduction Potential | -55.1 | mv    |
| GN-AP-MW-20SV | 12/13/2018 11:42 | pH                            | 7.27  | pH    |
| GN-AP-MW-20SV | 12/13/2018 11:42 | Temperature                   | 19.81 | C     |
| GN-AP-MW-20SV | 12/13/2018 11:42 | Turbidity                     | 48.6  | NTU   |
| GN-AP-MW-20SV | 12/13/2018 11:47 | Conductivity                  | 838.6 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 11:47 | DO                            | 4.39  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 11:47 | Depth to Water Detail         | 11.14 | ft    |
| GN-AP-MW-20SV | 12/13/2018 11:47 | Oxidation Reduction Potential | -57.1 | mv    |
| GN-AP-MW-20SV | 12/13/2018 11:47 | pH                            | 7.29  | pH    |
| GN-AP-MW-20SV | 12/13/2018 11:47 | Temperature                   | 19.75 | C     |
| GN-AP-MW-20SV | 12/13/2018 11:47 | Turbidity                     | 49.8  | NTU   |
| GN-AP-MW-20SV | 12/13/2018 11:52 | Conductivity                  | 838.2 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 11:52 | DO                            | 4.26  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 11:52 | Depth to Water Detail         | 11.14 | ft    |
| GN-AP-MW-20SV | 12/13/2018 11:52 | Oxidation Reduction Potential | -57.6 | mv    |
| GN-AP-MW-20SV | 12/13/2018 11:52 | pH                            | 7.27  | pH    |
| GN-AP-MW-20SV | 12/13/2018 11:52 | Temperature                   | 19.77 | C     |
| GN-AP-MW-20SV | 12/13/2018 11:52 | Turbidity                     | 37.7  | NTU   |
| GN-AP-MW-20SV | 12/13/2018 11:57 | Conductivity                  | 839.6 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 11:57 | DO                            | 4.02  | mg/L  |

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| WELL ID       | READING TIME     | DESCRIPTION                   | VALUE | UNIT  |
|---------------|------------------|-------------------------------|-------|-------|
| GN-AP-MW-20SV | 12/13/2018 11:57 | Depth to Water Detail         | 11.14 | ft    |
| GN-AP-MW-20SV | 12/13/2018 11:57 | Oxidation Reduction Potention | -58.6 | mv    |
| GN-AP-MW-20SV | 12/13/2018 11:57 | pH                            | 7.27  | pH    |
| GN-AP-MW-20SV | 12/13/2018 11:57 | Temperature                   | 19.81 | C     |
| GN-AP-MW-20SV | 12/13/2018 11:57 | Turbidity                     | 43.9  | NTU   |
| GN-AP-MW-20SV | 12/13/2018 12:02 | Conductivity                  | 832.2 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 12:02 | DO                            | 4.47  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 12:02 | Depth to Water Detail         | 11.14 | ft    |
| GN-AP-MW-20SV | 12/13/2018 12:02 | Oxidation Reduction Potention | -58.3 | mv    |
| GN-AP-MW-20SV | 12/13/2018 12:02 | pH                            | 7.27  | pH    |
| GN-AP-MW-20SV | 12/13/2018 12:02 | Temperature                   | 19.82 | C     |
| GN-AP-MW-20SV | 12/13/2018 12:02 | Turbidity                     | 39.7  | NTU   |
| GN-AP-MW-20SV | 12/13/2018 12:07 | Conductivity                  | 829.8 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 12:07 | DO                            | 4.52  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 12:07 | Depth to Water Detail         | 11.14 | ft    |
| GN-AP-MW-20SV | 12/13/2018 12:07 | Oxidation Reduction Potention | -58.5 | mv    |
| GN-AP-MW-20SV | 12/13/2018 12:07 | pH                            | 7.27  | pH    |
| GN-AP-MW-20SV | 12/13/2018 12:07 | Temperature                   | 19.83 | C     |
| GN-AP-MW-20SV | 12/13/2018 12:07 | Turbidity                     | 43.6  | NTU   |
| GN-AP-MW-20SV | 12/13/2018 12:12 | Conductivity                  | 832.9 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 12:12 | DO                            | 4.23  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 12:12 | Depth to Water Detail         | 11.14 | ft    |
| GN-AP-MW-20SV | 12/13/2018 12:12 | Oxidation Reduction Potention | -59.7 | mv    |
| GN-AP-MW-20SV | 12/13/2018 12:12 | pH                            | 7.27  | pH    |
| GN-AP-MW-20SV | 12/13/2018 12:12 | Temperature                   | 19.82 | C     |
| GN-AP-MW-20SV | 12/13/2018 12:12 | Turbidity                     | 40.6  | NTU   |
| GN-AP-MW-20SV | 12/13/2018 12:17 | Conductivity                  | 830.1 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 12:17 | DO                            | 4.23  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 12:17 | Depth to Water Detail         | 11.14 | ft    |
| GN-AP-MW-20SV | 12/13/2018 12:17 | Oxidation Reduction Potention | -60.5 | mv    |
| GN-AP-MW-20SV | 12/13/2018 12:17 | pH                            | 7.27  | pH    |
| GN-AP-MW-20SV | 12/13/2018 12:17 | Temperature                   | 19.86 | C     |
| GN-AP-MW-20SV | 12/13/2018 12:17 | Turbidity                     | 28.5  | NTU   |
| GN-AP-MW-20SV | 12/13/2018 12:22 | Conductivity                  | 826.9 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 12:22 | DO                            | 4.37  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 12:22 | Depth to Water Detail         | 11.14 | ft    |
| GN-AP-MW-20SV | 12/13/2018 12:22 | Oxidation Reduction Potention | -60.5 | mv    |
| GN-AP-MW-20SV | 12/13/2018 12:22 | pH                            | 7.26  | pH    |
| GN-AP-MW-20SV | 12/13/2018 12:22 | Temperature                   | 19.86 | C     |
| GN-AP-MW-20SV | 12/13/2018 12:22 | Turbidity                     | 28.6  | NTU   |
| GN-AP-MW-20SV | 12/13/2018 12:27 | Conductivity                  | 830.4 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 12:27 | DO                            | 4.08  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 12:27 | Depth to Water Detail         | 11.14 | ft    |
| GN-AP-MW-20SV | 12/13/2018 12:27 | Oxidation Reduction Potention | -61.1 | mv    |
| GN-AP-MW-20SV | 12/13/2018 12:27 | pH                            | 7.26  | pH    |
| GN-AP-MW-20SV | 12/13/2018 12:27 | Temperature                   | 19.88 | C     |

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| WELL ID       | READING TIME     | DESCRIPTION                   | VALUE | UNIT  |
|---------------|------------------|-------------------------------|-------|-------|
| GN-AP-MW-20SV | 12/13/2018 12:27 | Turbidity                     | 26.6  | NTU   |
| GN-AP-MW-20SV | 12/13/2018 12:32 | Conductivity                  | 830.7 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 12:32 | DO                            | 4.2   | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 12:32 | Depth to Water Detail         | 11.14 | ft    |
| GN-AP-MW-20SV | 12/13/2018 12:32 | Oxidation Reduction Potention | -62   | mv    |
| GN-AP-MW-20SV | 12/13/2018 12:32 | pH                            | 7.26  | pH    |
| GN-AP-MW-20SV | 12/13/2018 12:32 | Temperature                   | 19.86 | C     |
| GN-AP-MW-20SV | 12/13/2018 12:32 | Turbidity                     | 25.9  | NTU   |
| GN-AP-MW-20SV | 12/13/2018 12:37 | Conductivity                  | 825.9 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 12:37 | DO                            | 4.42  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 12:37 | Depth to Water Detail         | 11.15 | ft    |
| GN-AP-MW-20SV | 12/13/2018 12:37 | Oxidation Reduction Potention | -61.1 | mv    |
| GN-AP-MW-20SV | 12/13/2018 12:37 | pH                            | 7.26  | pH    |
| GN-AP-MW-20SV | 12/13/2018 12:37 | Temperature                   | 19.84 | C     |
| GN-AP-MW-20SV | 12/13/2018 12:37 | Turbidity                     | 26.6  | NTU   |
| GN-AP-MW-20SV | 12/13/2018 12:42 | Conductivity                  | 832.9 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 12:42 | DO                            | 3.98  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 12:42 | Depth to Water Detail         | 11.17 | ft    |
| GN-AP-MW-20SV | 12/13/2018 12:42 | Oxidation Reduction Potention | -61.7 | mv    |
| GN-AP-MW-20SV | 12/13/2018 12:42 | pH                            | 7.26  | pH    |
| GN-AP-MW-20SV | 12/13/2018 12:42 | Temperature                   | 19.85 | C     |
| GN-AP-MW-20SV | 12/13/2018 12:42 | Turbidity                     | 23    | NTU   |
| GN-AP-MW-20SV | 12/13/2018 12:47 | Conductivity                  | 830.8 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 12:47 | DO                            | 4.14  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 12:47 | Depth to Water Detail         | 11.18 | ft    |
| GN-AP-MW-20SV | 12/13/2018 12:47 | Oxidation Reduction Potention | -62.3 | mv    |
| GN-AP-MW-20SV | 12/13/2018 12:47 | pH                            | 7.25  | pH    |
| GN-AP-MW-20SV | 12/13/2018 12:47 | Temperature                   | 19.86 | C     |
| GN-AP-MW-20SV | 12/13/2018 12:47 | Turbidity                     | 23    | NTU   |
| GN-AP-MW-20SV | 12/13/2018 12:52 | Conductivity                  | 829.6 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 12:52 | DO                            | 4.33  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 12:52 | Depth to Water Detail         | 11.18 | ft    |
| GN-AP-MW-20SV | 12/13/2018 12:52 | Oxidation Reduction Potention | -62.2 | mv    |
| GN-AP-MW-20SV | 12/13/2018 12:52 | pH                            | 7.25  | pH    |
| GN-AP-MW-20SV | 12/13/2018 12:52 | Temperature                   | 19.86 | C     |
| GN-AP-MW-20SV | 12/13/2018 12:52 | Turbidity                     | 18.1  | NTU   |
| GN-AP-MW-20SV | 12/13/2018 12:57 | Conductivity                  | 833.4 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 12:57 | DO                            | 4.12  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 12:57 | Depth to Water Detail         | 11.18 | ft    |
| GN-AP-MW-20SV | 12/13/2018 12:57 | Oxidation Reduction Potention | -62.7 | mv    |
| GN-AP-MW-20SV | 12/13/2018 12:57 | pH                            | 7.25  | pH    |
| GN-AP-MW-20SV | 12/13/2018 12:57 | Temperature                   | 19.88 | C     |
| GN-AP-MW-20SV | 12/13/2018 12:57 | Turbidity                     | 20.1  | NTU   |
| GN-AP-MW-20SV | 12/13/2018 13:02 | Conductivity                  | 836.1 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 13:02 | DO                            | 4.1   | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 13:02 | Depth to Water Detail         | 11.18 | ft    |

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| WELL ID       | READING TIME     | DESCRIPTION                   | VALUE | UNIT  |
|---------------|------------------|-------------------------------|-------|-------|
| GN-AP-MW-20SV | 12/13/2018 13:02 | Oxidation Reduction Potention | -63   | mv    |
| GN-AP-MW-20SV | 12/13/2018 13:02 | pH                            | 7.25  | pH    |
| GN-AP-MW-20SV | 12/13/2018 13:02 | Temperature                   | 19.91 | C     |
| GN-AP-MW-20SV | 12/13/2018 13:02 | Turbidity                     | 20.1  | NTU   |
| GN-AP-MW-20SV | 12/13/2018 13:07 | Conductivity                  | 832.5 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 13:07 | DO                            | 4.28  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 13:07 | Depth to Water Detail         | 11.18 | ft    |
| GN-AP-MW-20SV | 12/13/2018 13:07 | Oxidation Reduction Potention | -63.1 | mv    |
| GN-AP-MW-20SV | 12/13/2018 13:07 | pH                            | 7.25  | pH    |
| GN-AP-MW-20SV | 12/13/2018 13:07 | Temperature                   | 19.92 | C     |
| GN-AP-MW-20SV | 12/13/2018 13:07 | Turbidity                     | 18.2  | NTU   |
| GN-AP-MW-20SV | 12/13/2018 13:12 | Conductivity                  | 832   | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 13:12 | DO                            | 4.21  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 13:12 | Depth to Water Detail         | 11.18 | ft    |
| GN-AP-MW-20SV | 12/13/2018 13:12 | Oxidation Reduction Potention | -63.7 | mv    |
| GN-AP-MW-20SV | 12/13/2018 13:12 | pH                            | 7.25  | pH    |
| GN-AP-MW-20SV | 12/13/2018 13:12 | Temperature                   | 19.92 | C     |
| GN-AP-MW-20SV | 12/13/2018 13:12 | Turbidity                     | 17.8  | NTU   |
| GN-AP-MW-20SV | 12/13/2018 13:17 | Conductivity                  | 833.1 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 13:17 | DO                            | 4.11  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 13:17 | Depth to Water Detail         | 11.18 | ft    |
| GN-AP-MW-20SV | 12/13/2018 13:17 | Oxidation Reduction Potention | -63.4 | mv    |
| GN-AP-MW-20SV | 12/13/2018 13:17 | pH                            | 7.24  | pH    |
| GN-AP-MW-20SV | 12/13/2018 13:17 | Temperature                   | 19.91 | C     |
| GN-AP-MW-20SV | 12/13/2018 13:17 | Turbidity                     | 15.4  | NTU   |
| GN-AP-MW-20SV | 12/13/2018 13:22 | Conductivity                  | 832.2 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 13:22 | DO                            | 4.32  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 13:22 | Depth to Water Detail         | 11.18 | ft    |
| GN-AP-MW-20SV | 12/13/2018 13:22 | Oxidation Reduction Potention | -63.2 | mv    |
| GN-AP-MW-20SV | 12/13/2018 13:22 | pH                            | 7.24  | pH    |
| GN-AP-MW-20SV | 12/13/2018 13:22 | Temperature                   | 19.9  | C     |
| GN-AP-MW-20SV | 12/13/2018 13:22 | Turbidity                     | 15    | NTU   |
| GN-AP-MW-20SV | 12/13/2018 13:27 | Conductivity                  | 830.4 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 13:27 | DO                            | 4.37  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 13:27 | Depth to Water Detail         | 11.18 | ft    |
| GN-AP-MW-20SV | 12/13/2018 13:27 | Oxidation Reduction Potention | -63.2 | mv    |
| GN-AP-MW-20SV | 12/13/2018 13:27 | pH                            | 7.24  | pH    |
| GN-AP-MW-20SV | 12/13/2018 13:27 | Temperature                   | 19.9  | C     |
| GN-AP-MW-20SV | 12/13/2018 13:27 | Turbidity                     | 16.1  | NTU   |
| GN-AP-MW-20SV | 12/13/2018 13:33 | Conductivity                  | 831.4 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 13:33 | DO                            | 4.24  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 13:33 | Depth to Water Detail         | 11.18 | ft    |
| GN-AP-MW-20SV | 12/13/2018 13:33 | Oxidation Reduction Potention | -64.1 | mv    |
| GN-AP-MW-20SV | 12/13/2018 13:33 | pH                            | 7.24  | pH    |
| GN-AP-MW-20SV | 12/13/2018 13:33 | Temperature                   | 19.88 | C     |
| GN-AP-MW-20SV | 12/13/2018 13:33 | Turbidity                     | 15.6  | NTU   |

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| WELL ID       | READING TIME     | DESCRIPTION                   | VALUE | UNIT  |
|---------------|------------------|-------------------------------|-------|-------|
| GN-AP-MW-20SV | 12/13/2018 13:38 | Conductivity                  | 841.2 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 13:38 | DO                            | 4.3   | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 13:38 | Depth to Water Detail         | 11.18 | ft    |
| GN-AP-MW-20SV | 12/13/2018 13:38 | Oxidation Reduction Potention | -65   | mv    |
| GN-AP-MW-20SV | 12/13/2018 13:38 | pH                            | 7.24  | pH    |
| GN-AP-MW-20SV | 12/13/2018 13:38 | Temperature                   | 19.89 | C     |
| GN-AP-MW-20SV | 12/13/2018 13:38 | Turbidity                     | 14    | NTU   |
| GN-AP-MW-20SV | 12/13/2018 13:43 | Conductivity                  | 841.2 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 13:43 | DO                            | 4.21  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 13:43 | Depth to Water Detail         | 11.18 | ft    |
| GN-AP-MW-20SV | 12/13/2018 13:43 | Oxidation Reduction Potention | -64.4 | mv    |
| GN-AP-MW-20SV | 12/13/2018 13:43 | pH                            | 7.24  | pH    |
| GN-AP-MW-20SV | 12/13/2018 13:43 | Temperature                   | 19.9  | C     |
| GN-AP-MW-20SV | 12/13/2018 13:43 | Turbidity                     | 12.6  | NTU   |
| GN-AP-MW-20SV | 12/13/2018 13:48 | Conductivity                  | 839.2 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 13:48 | DO                            | 4.36  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 13:48 | Depth to Water Detail         | 11.18 | ft    |
| GN-AP-MW-20SV | 12/13/2018 13:48 | Oxidation Reduction Potention | -65.3 | mv    |
| GN-AP-MW-20SV | 12/13/2018 13:48 | pH                            | 7.24  | pH    |
| GN-AP-MW-20SV | 12/13/2018 13:48 | Temperature                   | 19.89 | C     |
| GN-AP-MW-20SV | 12/13/2018 13:48 | Turbidity                     | 13.1  | NTU   |
| GN-AP-MW-20SV | 12/13/2018 13:53 | Conductivity                  | 843   | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 13:53 | DO                            | 3.96  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 13:53 | Depth to Water Detail         | 11.18 | ft    |
| GN-AP-MW-20SV | 12/13/2018 13:53 | Oxidation Reduction Potention | -65.8 | mv    |
| GN-AP-MW-20SV | 12/13/2018 13:53 | pH                            | 7.24  | pH    |
| GN-AP-MW-20SV | 12/13/2018 13:53 | Temperature                   | 19.89 | C     |
| GN-AP-MW-20SV | 12/13/2018 13:53 | Turbidity                     | 11.9  | NTU   |
| GN-AP-MW-20SV | 12/13/2018 13:58 | Conductivity                  | 838   | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 13:58 | DO                            | 4.24  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 13:58 | Depth to Water Detail         | 11.19 | ft    |
| GN-AP-MW-20SV | 12/13/2018 13:58 | Oxidation Reduction Potention | -65.3 | mv    |
| GN-AP-MW-20SV | 12/13/2018 13:58 | pH                            | 7.24  | pH    |
| GN-AP-MW-20SV | 12/13/2018 13:58 | Temperature                   | 19.87 | C     |
| GN-AP-MW-20SV | 12/13/2018 13:58 | Turbidity                     | 11.29 | NTU   |
| GN-AP-MW-20SV | 12/13/2018 14:03 | Conductivity                  | 834.6 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 14:03 | DO                            | 4.49  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 14:03 | Depth to Water Detail         | 11.19 | ft    |
| GN-AP-MW-20SV | 12/13/2018 14:03 | Oxidation Reduction Potention | -66.2 | mv    |
| GN-AP-MW-20SV | 12/13/2018 14:03 | pH                            | 7.24  | pH    |
| GN-AP-MW-20SV | 12/13/2018 14:03 | Temperature                   | 19.87 | C     |
| GN-AP-MW-20SV | 12/13/2018 14:03 | Turbidity                     | 11.17 | NTU   |
| GN-AP-MW-20SV | 12/13/2018 14:08 | Conductivity                  | 835.1 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 14:08 | DO                            | 4.43  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 14:08 | Depth to Water Detail         | 11.19 | ft    |
| GN-AP-MW-20SV | 12/13/2018 14:08 | Oxidation Reduction Potention | -65.5 | mv    |

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| WELL ID       | READING TIME     | DESCRIPTION                   | VALUE | UNIT  |
|---------------|------------------|-------------------------------|-------|-------|
| GN-AP-MW-20SV | 12/13/2018 14:08 | pH                            | 7.24  | pH    |
| GN-AP-MW-20SV | 12/13/2018 14:08 | Temperature                   | 19.86 | C     |
| GN-AP-MW-20SV | 12/13/2018 14:08 | Turbidity                     | 11.1  | NTU   |
| GN-AP-MW-20SV | 12/13/2018 14:13 | Conductivity                  | 837.6 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 14:13 | DO                            | 4.11  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 14:13 | Depth to Water Detail         | 11.19 | ft    |
| GN-AP-MW-20SV | 12/13/2018 14:13 | Oxidation Reduction Potention | -66   | mv    |
| GN-AP-MW-20SV | 12/13/2018 14:13 | pH                            | 7.23  | pH    |
| GN-AP-MW-20SV | 12/13/2018 14:13 | Temperature                   | 19.86 | C     |
| GN-AP-MW-20SV | 12/13/2018 14:13 | Turbidity                     | 11.48 | NTU   |
| GN-AP-MW-20SV | 12/13/2018 14:18 | Conductivity                  | 833.5 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 14:18 | DO                            | 4.45  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 14:18 | Depth to Water Detail         | 11.19 | ft    |
| GN-AP-MW-20SV | 12/13/2018 14:18 | Oxidation Reduction Potention | -66   | mv    |
| GN-AP-MW-20SV | 12/13/2018 14:18 | pH                            | 7.24  | pH    |
| GN-AP-MW-20SV | 12/13/2018 14:18 | Temperature                   | 19.83 | C     |
| GN-AP-MW-20SV | 12/13/2018 14:18 | Turbidity                     | 11.17 | NTU   |
| GN-AP-MW-20SV | 12/13/2018 14:23 | Conductivity                  | 836.9 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 14:23 | DO                            | 4.1   | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 14:23 | Depth to Water Detail         | 11.21 | ft    |
| GN-AP-MW-20SV | 12/13/2018 14:23 | Oxidation Reduction Potention | -66.6 | mv    |
| GN-AP-MW-20SV | 12/13/2018 14:23 | pH                            | 7.23  | pH    |
| GN-AP-MW-20SV | 12/13/2018 14:23 | Temperature                   | 19.81 | C     |
| GN-AP-MW-20SV | 12/13/2018 14:23 | Turbidity                     | 10.13 | NTU   |
| GN-AP-MW-20SV | 12/13/2018 14:28 | Conductivity                  | 836.8 | uS/cm |
| GN-AP-MW-20SV | 12/13/2018 14:28 | DO                            | 4.16  | mg/L  |
| GN-AP-MW-20SV | 12/13/2018 14:28 | Depth to Water Detail         | 11.21 | ft    |
| GN-AP-MW-20SV | 12/13/2018 14:28 | Oxidation Reduction Potention | -67   | mv    |
| GN-AP-MW-20SV | 12/13/2018 14:28 | pH                            | 7.23  | pH    |
| GN-AP-MW-20SV | 12/13/2018 14:28 | Temperature                   | 19.81 | C     |
| GN-AP-MW-20SV | 12/13/2018 14:28 | Turbidity                     | 9.89  | NTU   |

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| WELL ID       | READING TIME   | DESCRIPTION                   | VALUE | UNIT  |
|---------------|----------------|-------------------------------|-------|-------|
| GN-AP-MW-20SV | 1/2/2019 11:18 | Conductivity                  | 515.1 | uS/cm |
| GN-AP-MW-20SV | 1/2/2019 11:18 | DO                            | 0.32  | mg/L  |
| GN-AP-MW-20SV | 1/2/2019 11:18 | Depth to Water Detail         | 9.69  | ft    |
| GN-AP-MW-20SV | 1/2/2019 11:18 | Oxidation Reduction Potention | 87.8  | mv    |
| GN-AP-MW-20SV | 1/2/2019 11:18 | pH                            | 6.65  | pH    |
| GN-AP-MW-20SV | 1/2/2019 11:18 | Temperature                   | 18.86 | C     |
| GN-AP-MW-20SV | 1/2/2019 11:18 | Turbidity                     | 18.5  | NTU   |
| GN-AP-MW-20SV | 1/2/2019 11:23 | Conductivity                  | 523   | uS/cm |
| GN-AP-MW-20SV | 1/2/2019 11:23 | DO                            | 0.23  | mg/L  |
| GN-AP-MW-20SV | 1/2/2019 11:23 | Depth to Water Detail         | 9.75  | ft    |
| GN-AP-MW-20SV | 1/2/2019 11:23 | Oxidation Reduction Potention | 80.4  | mv    |
| GN-AP-MW-20SV | 1/2/2019 11:23 | pH                            | 6.68  | pH    |
| GN-AP-MW-20SV | 1/2/2019 11:23 | Temperature                   | 18.94 | C     |
| GN-AP-MW-20SV | 1/2/2019 11:23 | Turbidity                     | 14.4  | NTU   |
| GN-AP-MW-20SV | 1/2/2019 11:28 | Conductivity                  | 642.8 | uS/cm |
| GN-AP-MW-20SV | 1/2/2019 11:28 | DO                            | 0.25  | mg/L  |
| GN-AP-MW-20SV | 1/2/2019 11:28 | Depth to Water Detail         | 9.79  | ft    |
| GN-AP-MW-20SV | 1/2/2019 11:28 | Oxidation Reduction Potention | 52.1  | mv    |
| GN-AP-MW-20SV | 1/2/2019 11:28 | pH                            | 6.76  | pH    |
| GN-AP-MW-20SV | 1/2/2019 11:28 | Temperature                   | 19.02 | C     |
| GN-AP-MW-20SV | 1/2/2019 11:28 | Turbidity                     | 9.79  | NTU   |
| GN-AP-MW-20SV | 1/2/2019 11:33 | Conductivity                  | 676.8 | uS/cm |
| GN-AP-MW-20SV | 1/2/2019 11:33 | DO                            | 0.25  | mg/L  |
| GN-AP-MW-20SV | 1/2/2019 11:33 | Depth to Water Detail         | 9.79  | ft    |
| GN-AP-MW-20SV | 1/2/2019 11:33 | Oxidation Reduction Potention | 45.4  | mv    |
| GN-AP-MW-20SV | 1/2/2019 11:33 | pH                            | 6.8   | pH    |
| GN-AP-MW-20SV | 1/2/2019 11:33 | Temperature                   | 19.03 | C     |
| GN-AP-MW-20SV | 1/2/2019 11:33 | Turbidity                     | 7.66  | NTU   |
| GN-AP-MW-20SV | 1/2/2019 11:38 | Conductivity                  | 688.7 | uS/cm |
| GN-AP-MW-20SV | 1/2/2019 11:38 | DO                            | 0.22  | mg/L  |
| GN-AP-MW-20SV | 1/2/2019 11:38 | Depth to Water Detail         | 9.79  | ft    |
| GN-AP-MW-20SV | 1/2/2019 11:38 | Oxidation Reduction Potention | 42.8  | mv    |
| GN-AP-MW-20SV | 1/2/2019 11:38 | pH                            | 6.83  | pH    |
| GN-AP-MW-20SV | 1/2/2019 11:38 | Temperature                   | 19.03 | C     |
| GN-AP-MW-20SV | 1/2/2019 11:38 | Turbidity                     | 7.41  | NTU   |
| GN-AP-MW-20SV | 1/2/2019 11:44 | Conductivity                  | 699.3 | uS/cm |
| GN-AP-MW-20SV | 1/2/2019 11:44 | DO                            | 0.2   | mg/L  |
| GN-AP-MW-20SV | 1/2/2019 11:44 | Depth to Water Detail         | 9.79  | ft    |
| GN-AP-MW-20SV | 1/2/2019 11:44 | Oxidation Reduction Potention | 40.9  | mv    |
| GN-AP-MW-20SV | 1/2/2019 11:44 | pH                            | 6.85  | pH    |
| GN-AP-MW-20SV | 1/2/2019 11:44 | Temperature                   | 19.03 | C     |
| GN-AP-MW-20SV | 1/2/2019 11:44 | Turbidity                     | 7.04  | NTU   |

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| WELL ID      | READING TIME    | DESCRIPTION                   | VALUE  | UNIT  |
|--------------|-----------------|-------------------------------|--------|-------|
| GN-AP-MW-20V | 2/27/2019 11:26 | Conductivity                  | 968.6  | uS/cm |
| GN-AP-MW-20V | 2/27/2019 11:26 | DO                            | 0.22   | mg/L  |
| GN-AP-MW-20V | 2/27/2019 11:26 | Depth to Water Detail         | 9.35   | ft    |
| GN-AP-MW-20V | 2/27/2019 11:26 | Oxidation Reduction Potention | -257.6 | mv    |
| GN-AP-MW-20V | 2/27/2019 11:26 | pH                            | 8.6    | pH    |
| GN-AP-MW-20V | 2/27/2019 11:26 | Temperature                   | 19.03  | C     |
| GN-AP-MW-20V | 2/27/2019 11:26 | Turbidity                     | 37.8   | NTU   |
| GN-AP-MW-20V | 2/27/2019 11:31 | Conductivity                  | 966    | uS/cm |
| GN-AP-MW-20V | 2/27/2019 11:31 | DO                            | 0.16   | mg/L  |
| GN-AP-MW-20V | 2/27/2019 11:31 | Depth to Water Detail         | 11.04  | ft    |
| GN-AP-MW-20V | 2/27/2019 11:31 | Oxidation Reduction Potention | -261   | mv    |
| GN-AP-MW-20V | 2/27/2019 11:31 | pH                            | 8.6    | pH    |
| GN-AP-MW-20V | 2/27/2019 11:31 | Temperature                   | 19.12  | C     |
| GN-AP-MW-20V | 2/27/2019 11:31 | Turbidity                     | 32.3   | NTU   |
| GN-AP-MW-20V | 2/27/2019 11:36 | Conductivity                  | 962.2  | uS/cm |
| GN-AP-MW-20V | 2/27/2019 11:36 | DO                            | 0.15   | mg/L  |
| GN-AP-MW-20V | 2/27/2019 11:36 | Depth to Water Detail         | 12.7   | ft    |
| GN-AP-MW-20V | 2/27/2019 11:36 | Oxidation Reduction Potention | -263.4 | mv    |
| GN-AP-MW-20V | 2/27/2019 11:36 | pH                            | 8.6    | pH    |
| GN-AP-MW-20V | 2/27/2019 11:36 | Temperature                   | 19.07  | C     |
| GN-AP-MW-20V | 2/27/2019 11:36 | Turbidity                     | 38.1   | NTU   |
| GN-AP-MW-20V | 2/27/2019 11:41 | Conductivity                  | 959.7  | uS/cm |
| GN-AP-MW-20V | 2/27/2019 11:41 | DO                            | 0.16   | mg/L  |
| GN-AP-MW-20V | 2/27/2019 11:41 | Depth to Water Detail         | 13.52  | ft    |
| GN-AP-MW-20V | 2/27/2019 11:41 | Oxidation Reduction Potention | -263.1 | mv    |
| GN-AP-MW-20V | 2/27/2019 11:41 | pH                            | 8.59   | pH    |
| GN-AP-MW-20V | 2/27/2019 11:41 | Temperature                   | 19.1   | C     |
| GN-AP-MW-20V | 2/27/2019 11:41 | Turbidity                     | 46.5   | NTU   |
| GN-AP-MW-20V | 2/27/2019 11:46 | Conductivity                  | 959.9  | uS/cm |
| GN-AP-MW-20V | 2/27/2019 11:46 | DO                            | 0.18   | mg/L  |
| GN-AP-MW-20V | 2/27/2019 11:46 | Depth to Water Detail         | 14.58  | ft    |
| GN-AP-MW-20V | 2/27/2019 11:46 | Oxidation Reduction Potention | -262.4 | mv    |
| GN-AP-MW-20V | 2/27/2019 11:46 | pH                            | 8.58   | pH    |
| GN-AP-MW-20V | 2/27/2019 11:46 | Temperature                   | 19.15  | C     |
| GN-AP-MW-20V | 2/27/2019 11:46 | Turbidity                     | 49.7   | NTU   |
| GN-AP-MW-20V | 2/27/2019 11:51 | Conductivity                  | 956    | uS/cm |
| GN-AP-MW-20V | 2/27/2019 11:51 | DO                            | 0.2    | mg/L  |
| GN-AP-MW-20V | 2/27/2019 11:51 | Depth to Water Detail         | 15.1   | ft    |
| GN-AP-MW-20V | 2/27/2019 11:51 | Oxidation Reduction Potention | -261.8 | mv    |
| GN-AP-MW-20V | 2/27/2019 11:51 | pH                            | 8.56   | pH    |
| GN-AP-MW-20V | 2/27/2019 11:51 | Temperature                   | 19.26  | C     |
| GN-AP-MW-20V | 2/27/2019 11:51 | Turbidity                     | 39     | NTU   |
| GN-AP-MW-20V | 2/27/2019 11:56 | Conductivity                  | 954.4  | uS/cm |
| GN-AP-MW-20V | 2/27/2019 11:56 | DO                            | 0.22   | mg/L  |
| GN-AP-MW-20V | 2/27/2019 11:56 | Depth to Water Detail         | 15.84  | ft    |
| GN-AP-MW-20V | 2/27/2019 11:56 | Oxidation Reduction Potention | -259.9 | mv    |



**Alabama Power Company  
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| WELL ID      | READING TIME    | DESCRIPTION                   | VALUE  | UNIT  |
|--------------|-----------------|-------------------------------|--------|-------|
| GN-AP-MW-20V | 2/27/2019 11:56 | pH                            | 8.55   | pH    |
| GN-AP-MW-20V | 2/27/2019 11:56 | Temperature                   | 19.39  | C     |
| GN-AP-MW-20V | 2/27/2019 11:56 | Turbidity                     | 33.4   | NTU   |
| GN-AP-MW-20V | 2/27/2019 12:01 | Conductivity                  | 953.8  | uS/cm |
| GN-AP-MW-20V | 2/27/2019 12:01 | DO                            | 0.24   | mg/L  |
| GN-AP-MW-20V | 2/27/2019 12:01 | Depth to Water Detail         | 16.4   | ft    |
| GN-AP-MW-20V | 2/27/2019 12:01 | Oxidation Reduction Potention | -260.7 | mv    |
| GN-AP-MW-20V | 2/27/2019 12:01 | pH                            | 8.53   | pH    |
| GN-AP-MW-20V | 2/27/2019 12:01 | Temperature                   | 19.48  | C     |
| GN-AP-MW-20V | 2/27/2019 12:01 | Turbidity                     | 25.7   | NTU   |
| GN-AP-MW-20V | 2/27/2019 12:06 | Conductivity                  | 953    | uS/cm |
| GN-AP-MW-20V | 2/27/2019 12:06 | DO                            | 0.27   | mg/L  |
| GN-AP-MW-20V | 2/27/2019 12:06 | Depth to Water Detail         | 16.9   | ft    |
| GN-AP-MW-20V | 2/27/2019 12:06 | Oxidation Reduction Potention | -252.9 | mv    |
| GN-AP-MW-20V | 2/27/2019 12:06 | pH                            | 8.51   | pH    |
| GN-AP-MW-20V | 2/27/2019 12:06 | Temperature                   | 19.52  | C     |
| GN-AP-MW-20V | 2/27/2019 12:06 | Turbidity                     | 20.2   | NTU   |
| GN-AP-MW-20V | 2/27/2019 12:11 | Conductivity                  | 951.9  | uS/cm |
| GN-AP-MW-20V | 2/27/2019 12:11 | DO                            | 0.29   | mg/L  |
| GN-AP-MW-20V | 2/27/2019 12:11 | Depth to Water Detail         | 17.15  | ft    |
| GN-AP-MW-20V | 2/27/2019 12:11 | Oxidation Reduction Potention | -249.2 | mv    |
| GN-AP-MW-20V | 2/27/2019 12:11 | pH                            | 8.5    | pH    |
| GN-AP-MW-20V | 2/27/2019 12:11 | Temperature                   | 19.52  | C     |
| GN-AP-MW-20V | 2/27/2019 12:11 | Turbidity                     | 16.1   | NTU   |
| GN-AP-MW-20V | 2/27/2019 12:16 | Conductivity                  | 951.7  | uS/cm |
| GN-AP-MW-20V | 2/27/2019 12:16 | DO                            | 0.29   | mg/L  |
| GN-AP-MW-20V | 2/27/2019 12:16 | Depth to Water Detail         | 17.45  | ft    |
| GN-AP-MW-20V | 2/27/2019 12:16 | Oxidation Reduction Potention | -247.1 | mv    |
| GN-AP-MW-20V | 2/27/2019 12:16 | pH                            | 8.49   | pH    |
| GN-AP-MW-20V | 2/27/2019 12:16 | Temperature                   | 19.73  | C     |
| GN-AP-MW-20V | 2/27/2019 12:16 | Turbidity                     | 14.1   | NTU   |
| GN-AP-MW-20V | 2/27/2019 12:21 | Conductivity                  | 952.2  | uS/cm |
| GN-AP-MW-20V | 2/27/2019 12:21 | DO                            | 0.31   | mg/L  |
| GN-AP-MW-20V | 2/27/2019 12:21 | Depth to Water Detail         | 17.62  | ft    |
| GN-AP-MW-20V | 2/27/2019 12:21 | Oxidation Reduction Potention | -244.9 | mv    |
| GN-AP-MW-20V | 2/27/2019 12:21 | pH                            | 8.48   | pH    |
| GN-AP-MW-20V | 2/27/2019 12:21 | Temperature                   | 19.92  | C     |
| GN-AP-MW-20V | 2/27/2019 12:21 | Turbidity                     | 12.2   | NTU   |
| GN-AP-MW-20V | 2/27/2019 12:26 | Conductivity                  | 953.2  | uS/cm |
| GN-AP-MW-20V | 2/27/2019 12:26 | DO                            | 0.32   | mg/L  |
| GN-AP-MW-20V | 2/27/2019 12:26 | Depth to Water Detail         | 17.86  | ft    |
| GN-AP-MW-20V | 2/27/2019 12:26 | Oxidation Reduction Potention | -242.9 | mv    |
| GN-AP-MW-20V | 2/27/2019 12:26 | pH                            | 8.48   | pH    |
| GN-AP-MW-20V | 2/27/2019 12:26 | Temperature                   | 19.6   | C     |
| GN-AP-MW-20V | 2/27/2019 12:26 | Turbidity                     | 11.3   | NTU   |
| GN-AP-MW-20V | 2/27/2019 12:31 | Conductivity                  | 954.7  | uS/cm |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-20V   | 2/27/2019 12:31     | DO                            | 0.35         | mg/L        |
| GN-AP-MW-20V   | 2/27/2019 12:31     | Depth to Water Detail         | 18.09        | ft          |
| GN-AP-MW-20V   | 2/27/2019 12:31     | Oxidation Reduction Potention | -252         | mv          |
| GN-AP-MW-20V   | 2/27/2019 12:31     | pH                            | 8.46         | pH          |
| GN-AP-MW-20V   | 2/27/2019 12:31     | Temperature                   | 19.52        | C           |
| GN-AP-MW-20V   | 2/27/2019 12:31     | Turbidity                     | 10.4         | NTU         |
| GN-AP-MW-20V   | 2/27/2019 12:36     | Conductivity                  | 956.3        | uS/cm       |
| GN-AP-MW-20V   | 2/27/2019 12:36     | DO                            | 0.34         | mg/L        |
| GN-AP-MW-20V   | 2/27/2019 12:36     | Depth to Water Detail         | 18.22        | ft          |
| GN-AP-MW-20V   | 2/27/2019 12:36     | Oxidation Reduction Potention | -261.2       | mv          |
| GN-AP-MW-20V   | 2/27/2019 12:36     | pH                            | 8.46         | pH          |
| GN-AP-MW-20V   | 2/27/2019 12:36     | Temperature                   | 19.51        | C           |
| GN-AP-MW-20V   | 2/27/2019 12:36     | Turbidity                     | 8.58         | NTU         |
| GN-AP-MW-20V   | 2/27/2019 12:41     | Conductivity                  | 957.8        | uS/cm       |
| GN-AP-MW-20V   | 2/27/2019 12:41     | DO                            | 0.35         | mg/L        |
| GN-AP-MW-20V   | 2/27/2019 12:41     | Depth to Water Detail         | 18.35        | ft          |
| GN-AP-MW-20V   | 2/27/2019 12:41     | Oxidation Reduction Potention | -257.9       | mv          |
| GN-AP-MW-20V   | 2/27/2019 12:41     | pH                            | 8.45         | pH          |
| GN-AP-MW-20V   | 2/27/2019 12:41     | Temperature                   | 19.5         | C           |
| GN-AP-MW-20V   | 2/27/2019 12:41     | Turbidity                     | 7.18         | NTU         |
| GN-AP-MW-20V   | 2/27/2019 12:46     | Conductivity                  | 961.4        | uS/cm       |
| GN-AP-MW-20V   | 2/27/2019 12:46     | DO                            | 0.35         | mg/L        |
| GN-AP-MW-20V   | 2/27/2019 12:46     | Depth to Water Detail         | 18.46        | ft          |
| GN-AP-MW-20V   | 2/27/2019 12:46     | Oxidation Reduction Potention | -240.4       | mv          |
| GN-AP-MW-20V   | 2/27/2019 12:46     | pH                            | 8.45         | pH          |
| GN-AP-MW-20V   | 2/27/2019 12:46     | Temperature                   | 19.48        | C           |
| GN-AP-MW-20V   | 2/27/2019 12:46     | Turbidity                     | 9.84         | NTU         |

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| WELL ID      | READING TIME    | DESCRIPTION                   | VALUE  | UNIT  |
|--------------|-----------------|-------------------------------|--------|-------|
| GN-AP-MW-23D | 12/5/2018 13:07 | Conductivity                  | 669.5  | uS/cm |
| GN-AP-MW-23D | 12/5/2018 13:07 | DO                            | 0.99   | mg/L  |
| GN-AP-MW-23D | 12/5/2018 13:07 | Depth to Water Detail         | 5.9    | ft    |
| GN-AP-MW-23D | 12/5/2018 13:07 | Oxidation Reduction Potention | -141.3 | mv    |
| GN-AP-MW-23D | 12/5/2018 13:07 | pH                            | 7.99   | pH    |
| GN-AP-MW-23D | 12/5/2018 13:07 | Temperature                   | 18.72  | C     |
| GN-AP-MW-23D | 12/5/2018 13:07 | Turbidity                     | 6.81   | NTU   |
| GN-AP-MW-23D | 12/5/2018 13:12 | Conductivity                  | 672.6  | uS/cm |
| GN-AP-MW-23D | 12/5/2018 13:12 | DO                            | 0.77   | mg/L  |
| GN-AP-MW-23D | 12/5/2018 13:12 | Depth to Water Detail         | 6.83   | ft    |
| GN-AP-MW-23D | 12/5/2018 13:12 | Oxidation Reduction Potention | -160.2 | mv    |
| GN-AP-MW-23D | 12/5/2018 13:12 | pH                            | 8.14   | pH    |
| GN-AP-MW-23D | 12/5/2018 13:12 | Temperature                   | 18.88  | C     |
| GN-AP-MW-23D | 12/5/2018 13:12 | Turbidity                     | 6.51   | NTU   |
| GN-AP-MW-23D | 12/5/2018 13:17 | Conductivity                  | 674.5  | uS/cm |
| GN-AP-MW-23D | 12/5/2018 13:17 | DO                            | 0.67   | mg/L  |
| GN-AP-MW-23D | 12/5/2018 13:17 | Depth to Water Detail         | 7.44   | ft    |
| GN-AP-MW-23D | 12/5/2018 13:17 | Oxidation Reduction Potention | -170.2 | mv    |
| GN-AP-MW-23D | 12/5/2018 13:17 | pH                            | 8.21   | pH    |
| GN-AP-MW-23D | 12/5/2018 13:17 | Temperature                   | 18.61  | C     |
| GN-AP-MW-23D | 12/5/2018 13:17 | Turbidity                     | 8.55   | NTU   |
| GN-AP-MW-23D | 12/5/2018 13:22 | Conductivity                  | 671.8  | uS/cm |
| GN-AP-MW-23D | 12/5/2018 13:22 | DO                            | 0.59   | mg/L  |
| GN-AP-MW-23D | 12/5/2018 13:22 | Depth to Water Detail         | 7.45   | ft    |
| GN-AP-MW-23D | 12/5/2018 13:22 | Oxidation Reduction Potention | -177.7 | mv    |
| GN-AP-MW-23D | 12/5/2018 13:22 | pH                            | 8.24   | pH    |
| GN-AP-MW-23D | 12/5/2018 13:22 | Temperature                   | 18.86  | C     |
| GN-AP-MW-23D | 12/5/2018 13:22 | Turbidity                     | 10.97  | NTU   |
| GN-AP-MW-23D | 12/5/2018 13:27 | Conductivity                  | 671.5  | uS/cm |
| GN-AP-MW-23D | 12/5/2018 13:27 | DO                            | 0.53   | mg/L  |
| GN-AP-MW-23D | 12/5/2018 13:27 | Depth to Water Detail         | 7.59   | ft    |
| GN-AP-MW-23D | 12/5/2018 13:27 | Oxidation Reduction Potention | -183.5 | mv    |
| GN-AP-MW-23D | 12/5/2018 13:27 | pH                            | 8.26   | pH    |
| GN-AP-MW-23D | 12/5/2018 13:27 | Temperature                   | 18.81  | C     |
| GN-AP-MW-23D | 12/5/2018 13:27 | Turbidity                     | 8.02   | NTU   |
| GN-AP-MW-23D | 12/5/2018 13:32 | Conductivity                  | 673.7  | uS/cm |
| GN-AP-MW-23D | 12/5/2018 13:32 | DO                            | 0.5    | mg/L  |
| GN-AP-MW-23D | 12/5/2018 13:32 | Depth to Water Detail         | 7.81   | ft    |
| GN-AP-MW-23D | 12/5/2018 13:32 | Oxidation Reduction Potention | -188.2 | mv    |
| GN-AP-MW-23D | 12/5/2018 13:32 | pH                            | 8.27   | pH    |
| GN-AP-MW-23D | 12/5/2018 13:32 | Temperature                   | 18.97  | C     |
| GN-AP-MW-23D | 12/5/2018 13:32 | Turbidity                     | 9.41   | NTU   |
| GN-AP-MW-23D | 12/5/2018 13:37 | Conductivity                  | 675.2  | uS/cm |
| GN-AP-MW-23D | 12/5/2018 13:37 | DO                            | 0.47   | mg/L  |
| GN-AP-MW-23D | 12/5/2018 13:37 | Depth to Water Detail         | 7.81   | ft    |
| GN-AP-MW-23D | 12/5/2018 13:37 | Oxidation Reduction Potention | -191.6 | mv    |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-23D   | 12/5/2018 13:37     | pH                            | 8.28         | pH          |
| GN-AP-MW-23D   | 12/5/2018 13:37     | Temperature                   | 18.88        | C           |
| GN-AP-MW-23D   | 12/5/2018 13:37     | Turbidity                     | 7.26         | NTU         |
| GN-AP-MW-23D   | 12/5/2018 13:42     | Conductivity                  | 673.2        | uS/cm       |
| GN-AP-MW-23D   | 12/5/2018 13:42     | DO                            | 0.44         | mg/L        |
| GN-AP-MW-23D   | 12/5/2018 13:42     | Depth to Water Detail         | 7.83         | ft          |
| GN-AP-MW-23D   | 12/5/2018 13:42     | Oxidation Reduction Potention | -194.7       | mv          |
| GN-AP-MW-23D   | 12/5/2018 13:42     | pH                            | 8.29         | pH          |
| GN-AP-MW-23D   | 12/5/2018 13:42     | Temperature                   | 18.88        | C           |
| GN-AP-MW-23D   | 12/5/2018 13:42     | Turbidity                     | 8.03         | NTU         |

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| WELL ID      | READING TIME   | DESCRIPTION                   | VALUE  | UNIT  |
|--------------|----------------|-------------------------------|--------|-------|
| GN-AP-MW-23D | 1/2/2019 12:40 | Conductivity                  | 668.7  | uS/cm |
| GN-AP-MW-23D | 1/2/2019 12:40 | DO                            | 1.16   | mg/L  |
| GN-AP-MW-23D | 1/2/2019 12:40 | Depth to Water Detail         | 4.85   | ft    |
| GN-AP-MW-23D | 1/2/2019 12:40 | Oxidation Reduction Potention | -174.1 | mv    |
| GN-AP-MW-23D | 1/2/2019 12:40 | pH                            | 8.01   | pH    |
| GN-AP-MW-23D | 1/2/2019 12:40 | Temperature                   | 17.56  | C     |
| GN-AP-MW-23D | 1/2/2019 12:40 | Turbidity                     | 19     | NTU   |
| GN-AP-MW-23D | 1/2/2019 12:45 | Conductivity                  | 669.2  | uS/cm |
| GN-AP-MW-23D | 1/2/2019 12:45 | DO                            | 0.87   | mg/L  |
| GN-AP-MW-23D | 1/2/2019 12:45 | Depth to Water Detail         | 4.97   | ft    |
| GN-AP-MW-23D | 1/2/2019 12:45 | Oxidation Reduction Potention | -177.7 | mv    |
| GN-AP-MW-23D | 1/2/2019 12:45 | pH                            | 8.04   | pH    |
| GN-AP-MW-23D | 1/2/2019 12:45 | Temperature                   | 17.56  | C     |
| GN-AP-MW-23D | 1/2/2019 12:45 | Turbidity                     | 13.2   | NTU   |
| GN-AP-MW-23D | 1/2/2019 12:50 | Conductivity                  | 669.3  | uS/cm |
| GN-AP-MW-23D | 1/2/2019 12:50 | DO                            | 0.76   | mg/L  |
| GN-AP-MW-23D | 1/2/2019 12:50 | Depth to Water Detail         | 5.1    | ft    |
| GN-AP-MW-23D | 1/2/2019 12:50 | Oxidation Reduction Potention | -175.8 | mv    |
| GN-AP-MW-23D | 1/2/2019 12:50 | pH                            | 8.06   | pH    |
| GN-AP-MW-23D | 1/2/2019 12:50 | Temperature                   | 17.44  | C     |
| GN-AP-MW-23D | 1/2/2019 12:50 | Turbidity                     | 9.52   | NTU   |
| GN-AP-MW-23D | 1/2/2019 12:55 | Conductivity                  | 669.1  | uS/cm |
| GN-AP-MW-23D | 1/2/2019 12:55 | DO                            | 0.7    | mg/L  |
| GN-AP-MW-23D | 1/2/2019 12:55 | Depth to Water Detail         | 5.15   | ft    |
| GN-AP-MW-23D | 1/2/2019 12:55 | Oxidation Reduction Potention | -175.4 | mv    |
| GN-AP-MW-23D | 1/2/2019 12:55 | pH                            | 8.06   | pH    |
| GN-AP-MW-23D | 1/2/2019 12:55 | Temperature                   | 17.52  | C     |
| GN-AP-MW-23D | 1/2/2019 12:55 | Turbidity                     | 14.3   | NTU   |
| GN-AP-MW-23D | 1/2/2019 13:00 | Conductivity                  | 669.1  | uS/cm |
| GN-AP-MW-23D | 1/2/2019 13:00 | DO                            | 0.66   | mg/L  |
| GN-AP-MW-23D | 1/2/2019 13:00 | Depth to Water Detail         | 5.15   | ft    |
| GN-AP-MW-23D | 1/2/2019 13:00 | Oxidation Reduction Potention | -173.1 | mv    |
| GN-AP-MW-23D | 1/2/2019 13:00 | pH                            | 8.08   | pH    |
| GN-AP-MW-23D | 1/2/2019 13:00 | Temperature                   | 17.52  | C     |
| GN-AP-MW-23D | 1/2/2019 13:00 | Turbidity                     | 12.2   | NTU   |
| GN-AP-MW-23D | 1/2/2019 13:05 | Conductivity                  | 671.1  | uS/cm |
| GN-AP-MW-23D | 1/2/2019 13:05 | DO                            | 0.64   | mg/L  |
| GN-AP-MW-23D | 1/2/2019 13:05 | Depth to Water Detail         | 5.15   | ft    |
| GN-AP-MW-23D | 1/2/2019 13:05 | Oxidation Reduction Potention | -168.3 | mv    |
| GN-AP-MW-23D | 1/2/2019 13:05 | pH                            | 8.1    | pH    |
| GN-AP-MW-23D | 1/2/2019 13:05 | Temperature                   | 17.51  | C     |
| GN-AP-MW-23D | 1/2/2019 13:05 | Turbidity                     | 10.01  | NTU   |
| GN-AP-MW-23D | 1/2/2019 13:10 | Conductivity                  | 677.4  | uS/cm |
| GN-AP-MW-23D | 1/2/2019 13:10 | DO                            | 0.62   | mg/L  |
| GN-AP-MW-23D | 1/2/2019 13:10 | Depth to Water Detail         | 5.15   | ft    |
| GN-AP-MW-23D | 1/2/2019 13:10 | Oxidation Reduction Potention | -162   | mv    |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-23D   | 1/2/2019 13:10      | pH                            | 8.11         | pH          |
| GN-AP-MW-23D   | 1/2/2019 13:10      | Temperature                   | 17.61        | C           |
| GN-AP-MW-23D   | 1/2/2019 13:10      | Turbidity                     | 11.6         | NTU         |
| GN-AP-MW-23D   | 1/2/2019 13:15      | Conductivity                  | 684.7        | uS/cm       |
| GN-AP-MW-23D   | 1/2/2019 13:15      | DO                            | 0.6          | mg/L        |
| GN-AP-MW-23D   | 1/2/2019 13:15      | Depth to Water Detail         | 5.15         | ft          |
| GN-AP-MW-23D   | 1/2/2019 13:15      | Oxidation Reduction Potention | -154.8       | mv          |
| GN-AP-MW-23D   | 1/2/2019 13:15      | pH                            | 8.1          | pH          |
| GN-AP-MW-23D   | 1/2/2019 13:15      | Temperature                   | 17.5         | C           |
| GN-AP-MW-23D   | 1/2/2019 13:15      | Turbidity                     | 11.3         | NTU         |
| GN-AP-MW-23D   | 1/2/2019 13:20      | Conductivity                  | 698          | uS/cm       |
| GN-AP-MW-23D   | 1/2/2019 13:20      | DO                            | 0.59         | mg/L        |
| GN-AP-MW-23D   | 1/2/2019 13:20      | Depth to Water Detail         | 5.15         | ft          |
| GN-AP-MW-23D   | 1/2/2019 13:20      | Oxidation Reduction Potention | -149.2       | mv          |
| GN-AP-MW-23D   | 1/2/2019 13:20      | pH                            | 8.07         | pH          |
| GN-AP-MW-23D   | 1/2/2019 13:20      | Temperature                   | 17.48        | C           |
| GN-AP-MW-23D   | 1/2/2019 13:20      | Turbidity                     | 11.1         | NTU         |
| GN-AP-MW-23D   | 1/2/2019 13:26      | Conductivity                  | 707.9        | uS/cm       |
| GN-AP-MW-23D   | 1/2/2019 13:26      | DO                            | 0.59         | mg/L        |
| GN-AP-MW-23D   | 1/2/2019 13:26      | Depth to Water Detail         | 5.15         | ft          |
| GN-AP-MW-23D   | 1/2/2019 13:26      | Oxidation Reduction Potention | -144.9       | mv          |
| GN-AP-MW-23D   | 1/2/2019 13:26      | pH                            | 8.04         | pH          |
| GN-AP-MW-23D   | 1/2/2019 13:26      | Temperature                   | 17.56        | C           |
| GN-AP-MW-23D   | 1/2/2019 13:26      | Turbidity                     | 9.87         | NTU         |

**Alabama Power Company  
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| WELL ID      | READING TIME    | DESCRIPTION                   | VALUE | UNIT  |
|--------------|-----------------|-------------------------------|-------|-------|
| GN-AP-MW-23S | 12/5/2018 10:46 | Conductivity                  | 754.7 | uS/cm |
| GN-AP-MW-23S | 12/5/2018 10:46 | DO                            | 0.58  | mg/L  |
| GN-AP-MW-23S | 12/5/2018 10:46 | Depth to Water Detail         | 5.68  | ft    |
| GN-AP-MW-23S | 12/5/2018 10:46 | Oxidation Reduction Potention | 63.4  | mv    |
| GN-AP-MW-23S | 12/5/2018 10:46 | pH                            | 6.75  | pH    |
| GN-AP-MW-23S | 12/5/2018 10:46 | Temperature                   | 18.26 | C     |
| GN-AP-MW-23S | 12/5/2018 10:46 | Turbidity                     | 26    | NTU   |
| GN-AP-MW-23S | 12/5/2018 10:51 | Conductivity                  | 738.3 | uS/cm |
| GN-AP-MW-23S | 12/5/2018 10:51 | DO                            | 0.62  | mg/L  |
| GN-AP-MW-23S | 12/5/2018 10:51 | Depth to Water Detail         | 5.69  | ft    |
| GN-AP-MW-23S | 12/5/2018 10:51 | Oxidation Reduction Potention | 65.1  | mv    |
| GN-AP-MW-23S | 12/5/2018 10:51 | pH                            | 6.95  | pH    |
| GN-AP-MW-23S | 12/5/2018 10:51 | Temperature                   | 18.21 | C     |
| GN-AP-MW-23S | 12/5/2018 10:51 | Turbidity                     | 33.4  | NTU   |
| GN-AP-MW-23S | 12/5/2018 10:56 | Conductivity                  | 709.1 | uS/cm |
| GN-AP-MW-23S | 12/5/2018 10:56 | DO                            | 0.86  | mg/L  |
| GN-AP-MW-23S | 12/5/2018 10:56 | Depth to Water Detail         | 5.69  | ft    |
| GN-AP-MW-23S | 12/5/2018 10:56 | Oxidation Reduction Potention | 65.8  | mv    |
| GN-AP-MW-23S | 12/5/2018 10:56 | pH                            | 7.05  | pH    |
| GN-AP-MW-23S | 12/5/2018 10:56 | Temperature                   | 18.34 | C     |
| GN-AP-MW-23S | 12/5/2018 10:56 | Turbidity                     | 40.2  | NTU   |
| GN-AP-MW-23S | 12/5/2018 11:01 | Conductivity                  | 699.2 | uS/cm |
| GN-AP-MW-23S | 12/5/2018 11:01 | DO                            | 0.91  | mg/L  |
| GN-AP-MW-23S | 12/5/2018 11:01 | Depth to Water Detail         | 5.69  | ft    |
| GN-AP-MW-23S | 12/5/2018 11:01 | Oxidation Reduction Potention | 64.3  | mv    |
| GN-AP-MW-23S | 12/5/2018 11:01 | pH                            | 7.1   | pH    |
| GN-AP-MW-23S | 12/5/2018 11:01 | Temperature                   | 18.75 | C     |
| GN-AP-MW-23S | 12/5/2018 11:01 | Turbidity                     | 29.9  | NTU   |
| GN-AP-MW-23S | 12/5/2018 11:06 | Conductivity                  | 687   | uS/cm |
| GN-AP-MW-23S | 12/5/2018 11:06 | DO                            | 0.94  | mg/L  |
| GN-AP-MW-23S | 12/5/2018 11:06 | Depth to Water Detail         | 5.7   | ft    |
| GN-AP-MW-23S | 12/5/2018 11:06 | Oxidation Reduction Potention | 64.5  | mv    |
| GN-AP-MW-23S | 12/5/2018 11:06 | pH                            | 7.14  | pH    |
| GN-AP-MW-23S | 12/5/2018 11:06 | Temperature                   | 18.7  | C     |
| GN-AP-MW-23S | 12/5/2018 11:06 | Turbidity                     | 25.8  | NTU   |
| GN-AP-MW-23S | 12/5/2018 11:11 | Conductivity                  | 676   | uS/cm |
| GN-AP-MW-23S | 12/5/2018 11:11 | DO                            | 0.98  | mg/L  |
| GN-AP-MW-23S | 12/5/2018 11:11 | Depth to Water Detail         | 5.69  | ft    |
| GN-AP-MW-23S | 12/5/2018 11:11 | Oxidation Reduction Potention | 63.2  | mv    |
| GN-AP-MW-23S | 12/5/2018 11:11 | pH                            | 7.16  | pH    |
| GN-AP-MW-23S | 12/5/2018 11:11 | Temperature                   | 18.75 | C     |
| GN-AP-MW-23S | 12/5/2018 11:11 | Turbidity                     | 23    | NTU   |
| GN-AP-MW-23S | 12/5/2018 11:16 | Conductivity                  | 665   | uS/cm |
| GN-AP-MW-23S | 12/5/2018 11:16 | DO                            | 1.02  | mg/L  |
| GN-AP-MW-23S | 12/5/2018 11:16 | Depth to Water Detail         | 5.65  | ft    |
| GN-AP-MW-23S | 12/5/2018 11:16 | Oxidation Reduction Potention | 63.2  | mv    |

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| WELL ID      | READING TIME    | DESCRIPTION                   | VALUE | UNIT  |
|--------------|-----------------|-------------------------------|-------|-------|
| GN-AP-MW-23S | 12/5/2018 11:16 | pH                            | 7.17  | pH    |
| GN-AP-MW-23S | 12/5/2018 11:16 | Temperature                   | 18.5  | C     |
| GN-AP-MW-23S | 12/5/2018 11:16 | Turbidity                     | 18.9  | NTU   |
| GN-AP-MW-23S | 12/5/2018 11:21 | Conductivity                  | 669.1 | uS/cm |
| GN-AP-MW-23S | 12/5/2018 11:21 | DO                            | 1.02  | mg/L  |
| GN-AP-MW-23S | 12/5/2018 11:21 | Depth to Water Detail         | 5.65  | ft    |
| GN-AP-MW-23S | 12/5/2018 11:21 | Oxidation Reduction Potention | 63.9  | mv    |
| GN-AP-MW-23S | 12/5/2018 11:21 | pH                            | 7.17  | pH    |
| GN-AP-MW-23S | 12/5/2018 11:21 | Temperature                   | 18.48 | C     |
| GN-AP-MW-23S | 12/5/2018 11:21 | Turbidity                     | 18.7  | NTU   |
| GN-AP-MW-23S | 12/5/2018 11:26 | Conductivity                  | 659.5 | uS/cm |
| GN-AP-MW-23S | 12/5/2018 11:26 | DO                            | 1.05  | mg/L  |
| GN-AP-MW-23S | 12/5/2018 11:26 | Depth to Water Detail         | 5.65  | ft    |
| GN-AP-MW-23S | 12/5/2018 11:26 | Oxidation Reduction Potention | 63.6  | mv    |
| GN-AP-MW-23S | 12/5/2018 11:26 | pH                            | 7.17  | pH    |
| GN-AP-MW-23S | 12/5/2018 11:26 | Temperature                   | 18.5  | C     |
| GN-AP-MW-23S | 12/5/2018 11:26 | Turbidity                     | 17.6  | NTU   |
| GN-AP-MW-23S | 12/5/2018 11:31 | Conductivity                  | 657.4 | uS/cm |
| GN-AP-MW-23S | 12/5/2018 11:31 | DO                            | 1.07  | mg/L  |
| GN-AP-MW-23S | 12/5/2018 11:31 | Depth to Water Detail         | 5.65  | ft    |
| GN-AP-MW-23S | 12/5/2018 11:31 | Oxidation Reduction Potention | 64.1  | mv    |
| GN-AP-MW-23S | 12/5/2018 11:31 | pH                            | 7.18  | pH    |
| GN-AP-MW-23S | 12/5/2018 11:31 | Temperature                   | 18.62 | C     |
| GN-AP-MW-23S | 12/5/2018 11:31 | Turbidity                     | 12.9  | NTU   |
| GN-AP-MW-23S | 12/5/2018 11:36 | Conductivity                  | 652.3 | uS/cm |
| GN-AP-MW-23S | 12/5/2018 11:36 | DO                            | 1.09  | mg/L  |
| GN-AP-MW-23S | 12/5/2018 11:36 | Depth to Water Detail         | 5.65  | ft    |
| GN-AP-MW-23S | 12/5/2018 11:36 | Oxidation Reduction Potention | 64.6  | mv    |
| GN-AP-MW-23S | 12/5/2018 11:36 | pH                            | 7.18  | pH    |
| GN-AP-MW-23S | 12/5/2018 11:36 | Temperature                   | 18.43 | C     |
| GN-AP-MW-23S | 12/5/2018 11:36 | Turbidity                     | 13.1  | NTU   |
| GN-AP-MW-23S | 12/5/2018 11:41 | Conductivity                  | 648.1 | uS/cm |
| GN-AP-MW-23S | 12/5/2018 11:41 | DO                            | 1.12  | mg/L  |
| GN-AP-MW-23S | 12/5/2018 11:41 | Depth to Water Detail         | 5.65  | ft    |
| GN-AP-MW-23S | 12/5/2018 11:41 | Oxidation Reduction Potention | 64.8  | mv    |
| GN-AP-MW-23S | 12/5/2018 11:41 | pH                            | 7.18  | pH    |
| GN-AP-MW-23S | 12/5/2018 11:41 | Temperature                   | 18.75 | C     |
| GN-AP-MW-23S | 12/5/2018 11:41 | Turbidity                     | 10.29 | NTU   |
| GN-AP-MW-23S | 12/5/2018 11:46 | Conductivity                  | 645.3 | uS/cm |
| GN-AP-MW-23S | 12/5/2018 11:46 | DO                            | 1.14  | mg/L  |
| GN-AP-MW-23S | 12/5/2018 11:46 | Depth to Water Detail         | 5.65  | ft    |
| GN-AP-MW-23S | 12/5/2018 11:46 | Oxidation Reduction Potention | 65.4  | mv    |
| GN-AP-MW-23S | 12/5/2018 11:46 | pH                            | 7.18  | pH    |
| GN-AP-MW-23S | 12/5/2018 11:46 | Temperature                   | 18.75 | C     |
| GN-AP-MW-23S | 12/5/2018 11:46 | Turbidity                     | 10.11 | NTU   |
| GN-AP-MW-23S | 12/5/2018 11:51 | Conductivity                  | 639.8 | uS/cm |



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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-23S   | 12/5/2018 11:51     | DO                            | 1.17         | mg/L        |
| GN-AP-MW-23S   | 12/5/2018 11:51     | Depth to Water Detail         | 5.65         | ft          |
| GN-AP-MW-23S   | 12/5/2018 11:51     | Oxidation Reduction Potention | 66.2         | mv          |
| GN-AP-MW-23S   | 12/5/2018 11:51     | pH                            | 7.18         | pH          |
| GN-AP-MW-23S   | 12/5/2018 11:51     | Temperature                   | 18.83        | C           |
| GN-AP-MW-23S   | 12/5/2018 11:51     | Turbidity                     | 8.46         | NTU         |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-23S   | 1/2/2019 13:45      | Conductivity                  | 684.8        | uS/cm       |
| GN-AP-MW-23S   | 1/2/2019 13:45      | DO                            | 1.27         | mg/L        |
| GN-AP-MW-23S   | 1/2/2019 13:45      | Depth to Water Detail         | 3.55         | ft          |
| GN-AP-MW-23S   | 1/2/2019 13:45      | Oxidation Reduction Potention | 28.2         | mv          |
| GN-AP-MW-23S   | 1/2/2019 13:45      | pH                            | 7.22         | pH          |
| GN-AP-MW-23S   | 1/2/2019 13:45      | Temperature                   | 17.65        | C           |
| GN-AP-MW-23S   | 1/2/2019 13:45      | Turbidity                     | 46.4         | NTU         |
| GN-AP-MW-23S   | 1/2/2019 13:50      | Conductivity                  | 684          | uS/cm       |
| GN-AP-MW-23S   | 1/2/2019 13:50      | DO                            | 1.1          | mg/L        |
| GN-AP-MW-23S   | 1/2/2019 13:50      | Depth to Water Detail         | 3.55         | ft          |
| GN-AP-MW-23S   | 1/2/2019 13:50      | Oxidation Reduction Potention | 33.9         | mv          |
| GN-AP-MW-23S   | 1/2/2019 13:50      | pH                            | 7.22         | pH          |
| GN-AP-MW-23S   | 1/2/2019 13:50      | Temperature                   | 17.83        | C           |
| GN-AP-MW-23S   | 1/2/2019 13:50      | Turbidity                     | 18.6         | NTU         |
| GN-AP-MW-23S   | 1/2/2019 13:55      | Conductivity                  | 674.3        | uS/cm       |
| GN-AP-MW-23S   | 1/2/2019 13:55      | DO                            | 1.09         | mg/L        |
| GN-AP-MW-23S   | 1/2/2019 13:55      | Depth to Water Detail         | 3.55         | ft          |
| GN-AP-MW-23S   | 1/2/2019 13:55      | Oxidation Reduction Potention | 38.1         | mv          |
| GN-AP-MW-23S   | 1/2/2019 13:55      | pH                            | 7.21         | pH          |
| GN-AP-MW-23S   | 1/2/2019 13:55      | Temperature                   | 17.92        | C           |
| GN-AP-MW-23S   | 1/2/2019 13:55      | Turbidity                     | 12.1         | NTU         |
| GN-AP-MW-23S   | 1/2/2019 14:00      | Conductivity                  | 662.6        | uS/cm       |
| GN-AP-MW-23S   | 1/2/2019 14:00      | DO                            | 1.14         | mg/L        |
| GN-AP-MW-23S   | 1/2/2019 14:00      | Depth to Water Detail         | 3.55         | ft          |
| GN-AP-MW-23S   | 1/2/2019 14:00      | Oxidation Reduction Potention | 41.3         | mv          |
| GN-AP-MW-23S   | 1/2/2019 14:00      | pH                            | 7.21         | pH          |
| GN-AP-MW-23S   | 1/2/2019 14:00      | Temperature                   | 18.01        | C           |
| GN-AP-MW-23S   | 1/2/2019 14:00      | Turbidity                     | 11           | NTU         |
| GN-AP-MW-23S   | 1/2/2019 14:05      | Conductivity                  | 668.6        | uS/cm       |
| GN-AP-MW-23S   | 1/2/2019 14:05      | DO                            | 1.08         | mg/L        |
| GN-AP-MW-23S   | 1/2/2019 14:05      | Depth to Water Detail         | 3.55         | ft          |
| GN-AP-MW-23S   | 1/2/2019 14:05      | Oxidation Reduction Potention | 43.6         | mv          |
| GN-AP-MW-23S   | 1/2/2019 14:05      | pH                            | 7.2          | pH          |
| GN-AP-MW-23S   | 1/2/2019 14:05      | Temperature                   | 18.18        | C           |
| GN-AP-MW-23S   | 1/2/2019 14:05      | Turbidity                     | 9.65         | NTU         |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-26    | 12/6/2018 8:53      | Conductivity                  | 669.9        | uS/cm       |
| GN-AP-MW-26    | 12/6/2018 8:53      | DO                            | 0.74         | mg/L        |
| GN-AP-MW-26    | 12/6/2018 8:53      | Depth to Water Detail         | 8.85         | ft          |
| GN-AP-MW-26    | 12/6/2018 8:53      | Oxidation Reduction Potention | 79           | mv          |
| GN-AP-MW-26    | 12/6/2018 8:53      | pH                            | 6.71         | pH          |
| GN-AP-MW-26    | 12/6/2018 8:53      | Temperature                   | 15.81        | C           |
| GN-AP-MW-26    | 12/6/2018 8:53      | Turbidity                     | 7.2          | NTU         |
| GN-AP-MW-26    | 12/6/2018 8:58      | Conductivity                  | 666          | uS/cm       |
| GN-AP-MW-26    | 12/6/2018 8:58      | DO                            | 0.59         | mg/L        |
| GN-AP-MW-26    | 12/6/2018 8:58      | Depth to Water Detail         | 9.05         | ft          |
| GN-AP-MW-26    | 12/6/2018 8:58      | Oxidation Reduction Potention | 68.3         | mv          |
| GN-AP-MW-26    | 12/6/2018 8:58      | pH                            | 6.92         | pH          |
| GN-AP-MW-26    | 12/6/2018 8:58      | Temperature                   | 16.07        | C           |
| GN-AP-MW-26    | 12/6/2018 8:58      | Turbidity                     | 6.05         | NTU         |
| GN-AP-MW-26    | 12/6/2018 9:03      | Conductivity                  | 665.4        | uS/cm       |
| GN-AP-MW-26    | 12/6/2018 9:03      | DO                            | 0.52         | mg/L        |
| GN-AP-MW-26    | 12/6/2018 9:03      | Depth to Water Detail         | 9.15         | ft          |
| GN-AP-MW-26    | 12/6/2018 9:03      | Oxidation Reduction Potention | 63.6         | mv          |
| GN-AP-MW-26    | 12/6/2018 9:03      | pH                            | 7.06         | pH          |
| GN-AP-MW-26    | 12/6/2018 9:03      | Temperature                   | 16.43        | C           |
| GN-AP-MW-26    | 12/6/2018 9:03      | Turbidity                     | 9.3          | NTU         |
| GN-AP-MW-26    | 12/6/2018 9:08      | Conductivity                  | 664.7        | uS/cm       |
| GN-AP-MW-26    | 12/6/2018 9:08      | DO                            | 0.49         | mg/L        |
| GN-AP-MW-26    | 12/6/2018 9:08      | Depth to Water Detail         | 9.23         | ft          |
| GN-AP-MW-26    | 12/6/2018 9:08      | Oxidation Reduction Potention | 59.2         | mv          |
| GN-AP-MW-26    | 12/6/2018 9:08      | pH                            | 7.16         | pH          |
| GN-AP-MW-26    | 12/6/2018 9:08      | Temperature                   | 16.56        | C           |
| GN-AP-MW-26    | 12/6/2018 9:08      | Turbidity                     | 7.3          | NTU         |
| GN-AP-MW-26    | 12/6/2018 9:13      | Conductivity                  | 662.7        | uS/cm       |
| GN-AP-MW-26    | 12/6/2018 9:13      | DO                            | 0.47         | mg/L        |
| GN-AP-MW-26    | 12/6/2018 9:13      | Depth to Water Detail         | 9.25         | ft          |
| GN-AP-MW-26    | 12/6/2018 9:13      | Oxidation Reduction Potention | 61.1         | mv          |
| GN-AP-MW-26    | 12/6/2018 9:13      | pH                            | 7.23         | pH          |
| GN-AP-MW-26    | 12/6/2018 9:13      | Temperature                   | 16.65        | C           |
| GN-AP-MW-26    | 12/6/2018 9:13      | Turbidity                     | 8.26         | NTU         |

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| WELL ID     | READING TIME   | DESCRIPTION                   | VALUE | UNIT  |
|-------------|----------------|-------------------------------|-------|-------|
| GN-AP-MW-26 | 1/3/2019 10:04 | Conductivity                  | 683.4 | uS/cm |
| GN-AP-MW-26 | 1/3/2019 10:04 | DO                            | 2.95  | mg/L  |
| GN-AP-MW-26 | 1/3/2019 10:04 | Depth to Water Detail         | 8.6   | ft    |
| GN-AP-MW-26 | 1/3/2019 10:04 | Oxidation Reduction Potention | 74.7  | mv    |
| GN-AP-MW-26 | 1/3/2019 10:04 | pH                            | 7.58  | pH    |
| GN-AP-MW-26 | 1/3/2019 10:04 | Temperature                   | 16.49 | C     |
| GN-AP-MW-26 | 1/3/2019 10:04 | Turbidity                     | 15.5  | NTU   |
| GN-AP-MW-26 | 1/3/2019 10:09 | Conductivity                  | 682.8 | uS/cm |
| GN-AP-MW-26 | 1/3/2019 10:09 | DO                            | 2.75  | mg/L  |
| GN-AP-MW-26 | 1/3/2019 10:09 | Depth to Water Detail         | 8.69  | ft    |
| GN-AP-MW-26 | 1/3/2019 10:09 | Oxidation Reduction Potention | 49.4  | mv    |
| GN-AP-MW-26 | 1/3/2019 10:09 | pH                            | 7.59  | pH    |
| GN-AP-MW-26 | 1/3/2019 10:09 | Temperature                   | 16.5  | C     |
| GN-AP-MW-26 | 1/3/2019 10:09 | Turbidity                     | 13.2  | NTU   |
| GN-AP-MW-26 | 1/3/2019 10:14 | Conductivity                  | 682.6 | uS/cm |
| GN-AP-MW-26 | 1/3/2019 10:14 | DO                            | 2.64  | mg/L  |
| GN-AP-MW-26 | 1/3/2019 10:14 | Depth to Water Detail         | 8.73  | ft    |
| GN-AP-MW-26 | 1/3/2019 10:14 | Oxidation Reduction Potention | 43.6  | mv    |
| GN-AP-MW-26 | 1/3/2019 10:14 | pH                            | 7.59  | pH    |
| GN-AP-MW-26 | 1/3/2019 10:14 | Temperature                   | 16.58 | C     |
| GN-AP-MW-26 | 1/3/2019 10:14 | Turbidity                     | 11.2  | NTU   |
| GN-AP-MW-26 | 1/3/2019 10:19 | Conductivity                  | 683.3 | uS/cm |
| GN-AP-MW-26 | 1/3/2019 10:19 | DO                            | 2.5   | mg/L  |
| GN-AP-MW-26 | 1/3/2019 10:19 | Depth to Water Detail         | 8.76  | ft    |
| GN-AP-MW-26 | 1/3/2019 10:19 | Oxidation Reduction Potention | 56.7  | mv    |
| GN-AP-MW-26 | 1/3/2019 10:19 | pH                            | 7.59  | pH    |
| GN-AP-MW-26 | 1/3/2019 10:19 | Temperature                   | 16.63 | C     |
| GN-AP-MW-26 | 1/3/2019 10:19 | Turbidity                     | 10.61 | NTU   |
| GN-AP-MW-26 | 1/3/2019 10:24 | Conductivity                  | 683.4 | uS/cm |
| GN-AP-MW-26 | 1/3/2019 10:24 | DO                            | 2.34  | mg/L  |
| GN-AP-MW-26 | 1/3/2019 10:24 | Depth to Water Detail         | 8.79  | ft    |
| GN-AP-MW-26 | 1/3/2019 10:24 | Oxidation Reduction Potention | 62    | mv    |
| GN-AP-MW-26 | 1/3/2019 10:24 | pH                            | 7.59  | pH    |
| GN-AP-MW-26 | 1/3/2019 10:24 | Temperature                   | 16.68 | C     |
| GN-AP-MW-26 | 1/3/2019 10:24 | Turbidity                     | 8.84  | NTU   |
| GN-AP-MW-26 | 1/3/2019 10:29 | Conductivity                  | 684.7 | uS/cm |
| GN-AP-MW-26 | 1/3/2019 10:29 | DO                            | 2.23  | mg/L  |
| GN-AP-MW-26 | 1/3/2019 10:29 | Depth to Water Detail         | 8.79  | ft    |
| GN-AP-MW-26 | 1/3/2019 10:29 | Oxidation Reduction Potention | 62.6  | mv    |
| GN-AP-MW-26 | 1/3/2019 10:29 | pH                            | 7.58  | pH    |
| GN-AP-MW-26 | 1/3/2019 10:29 | Temperature                   | 16.64 | C     |
| GN-AP-MW-26 | 1/3/2019 10:29 | Turbidity                     | 11.6  | NTU   |
| GN-AP-MW-26 | 1/3/2019 10:34 | Conductivity                  | 684.4 | uS/cm |
| GN-AP-MW-26 | 1/3/2019 10:34 | DO                            | 2     | mg/L  |
| GN-AP-MW-26 | 1/3/2019 10:34 | Depth to Water Detail         | 8.79  | ft    |
| GN-AP-MW-26 | 1/3/2019 10:34 | Oxidation Reduction Potention | 61.5  | mv    |

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| WELL ID     | READING TIME   | DESCRIPTION                   | VALUE | UNIT  |
|-------------|----------------|-------------------------------|-------|-------|
| GN-AP-MW-26 | 1/3/2019 10:34 | pH                            | 7.58  | pH    |
| GN-AP-MW-26 | 1/3/2019 10:34 | Temperature                   | 16.61 | C     |
| GN-AP-MW-26 | 1/3/2019 10:34 | Turbidity                     | 12.7  | NTU   |
| GN-AP-MW-26 | 1/3/2019 10:39 | Conductivity                  | 685   | uS/cm |
| GN-AP-MW-26 | 1/3/2019 10:39 | DO                            | 1.86  | mg/L  |
| GN-AP-MW-26 | 1/3/2019 10:39 | Depth to Water Detail         | 8.79  | ft    |
| GN-AP-MW-26 | 1/3/2019 10:39 | Oxidation Reduction Potention | 59.4  | mv    |
| GN-AP-MW-26 | 1/3/2019 10:39 | pH                            | 7.58  | pH    |
| GN-AP-MW-26 | 1/3/2019 10:39 | Temperature                   | 16.56 | C     |
| GN-AP-MW-26 | 1/3/2019 10:39 | Turbidity                     | 12.3  | NTU   |
| GN-AP-MW-26 | 1/3/2019 10:44 | Conductivity                  | 685.2 | uS/cm |
| GN-AP-MW-26 | 1/3/2019 10:44 | DO                            | 1.78  | mg/L  |
| GN-AP-MW-26 | 1/3/2019 10:44 | Depth to Water Detail         | 8.79  | ft    |
| GN-AP-MW-26 | 1/3/2019 10:44 | Oxidation Reduction Potention | 57.2  | mv    |
| GN-AP-MW-26 | 1/3/2019 10:44 | pH                            | 7.58  | pH    |
| GN-AP-MW-26 | 1/3/2019 10:44 | Temperature                   | 16.62 | C     |
| GN-AP-MW-26 | 1/3/2019 10:44 | Turbidity                     | 11.9  | NTU   |
| GN-AP-MW-26 | 1/3/2019 10:49 | Conductivity                  | 685   | uS/cm |
| GN-AP-MW-26 | 1/3/2019 10:49 | DO                            | 1.69  | mg/L  |
| GN-AP-MW-26 | 1/3/2019 10:49 | Depth to Water Detail         | 8.79  | ft    |
| GN-AP-MW-26 | 1/3/2019 10:49 | Oxidation Reduction Potention | 55.3  | mv    |
| GN-AP-MW-26 | 1/3/2019 10:49 | pH                            | 7.57  | pH    |
| GN-AP-MW-26 | 1/3/2019 10:49 | Temperature                   | 16.67 | C     |
| GN-AP-MW-26 | 1/3/2019 10:49 | Turbidity                     | 12.2  | NTU   |
| GN-AP-MW-26 | 1/3/2019 10:54 | Conductivity                  | 685   | uS/cm |
| GN-AP-MW-26 | 1/3/2019 10:54 | DO                            | 1.61  | mg/L  |
| GN-AP-MW-26 | 1/3/2019 10:54 | Depth to Water Detail         | 8.79  | ft    |
| GN-AP-MW-26 | 1/3/2019 10:54 | Oxidation Reduction Potention | 54.3  | mv    |
| GN-AP-MW-26 | 1/3/2019 10:54 | pH                            | 7.57  | pH    |
| GN-AP-MW-26 | 1/3/2019 10:54 | Temperature                   | 16.63 | C     |
| GN-AP-MW-26 | 1/3/2019 10:54 | Turbidity                     | 12.8  | NTU   |
| GN-AP-MW-26 | 1/3/2019 10:59 | Conductivity                  | 685.1 | uS/cm |
| GN-AP-MW-26 | 1/3/2019 10:59 | DO                            | 1.56  | mg/L  |
| GN-AP-MW-26 | 1/3/2019 10:59 | Depth to Water Detail         | 8.79  | ft    |
| GN-AP-MW-26 | 1/3/2019 10:59 | Oxidation Reduction Potention | 52.8  | mv    |
| GN-AP-MW-26 | 1/3/2019 10:59 | pH                            | 7.57  | pH    |
| GN-AP-MW-26 | 1/3/2019 10:59 | Temperature                   | 16.62 | C     |
| GN-AP-MW-26 | 1/3/2019 10:59 | Turbidity                     | 12.6  | NTU   |
| GN-AP-MW-26 | 1/3/2019 11:04 | Conductivity                  | 685.3 | uS/cm |
| GN-AP-MW-26 | 1/3/2019 11:04 | DO                            | 1.53  | mg/L  |
| GN-AP-MW-26 | 1/3/2019 11:04 | Depth to Water Detail         | 8.79  | ft    |
| GN-AP-MW-26 | 1/3/2019 11:04 | Oxidation Reduction Potention | 50    | mv    |
| GN-AP-MW-26 | 1/3/2019 11:04 | pH                            | 7.57  | pH    |
| GN-AP-MW-26 | 1/3/2019 11:04 | Temperature                   | 16.62 | C     |
| GN-AP-MW-26 | 1/3/2019 11:04 | Turbidity                     | 13.3  | NTU   |
| GN-AP-MW-26 | 1/3/2019 11:09 | Conductivity                  | 686.4 | uS/cm |

**Alabama Power Company  
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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-26    | 1/3/2019 11:09      | DO                            | 1.46         | mg/L        |
| GN-AP-MW-26    | 1/3/2019 11:09      | Depth to Water Detail         | 8.79         | ft          |
| GN-AP-MW-26    | 1/3/2019 11:09      | Oxidation Reduction Potention | 48.6         | mv          |
| GN-AP-MW-26    | 1/3/2019 11:09      | pH                            | 7.57         | pH          |
| GN-AP-MW-26    | 1/3/2019 11:09      | Temperature                   | 16.64        | C           |
| GN-AP-MW-26    | 1/3/2019 11:09      | Turbidity                     | 11.3         | NTU         |
| GN-AP-MW-26    | 1/3/2019 11:15      | Conductivity                  | 687          | uS/cm       |
| GN-AP-MW-26    | 1/3/2019 11:15      | DO                            | 1.41         | mg/L        |
| GN-AP-MW-26    | 1/3/2019 11:15      | Depth to Water Detail         | 8.79         | ft          |
| GN-AP-MW-26    | 1/3/2019 11:15      | Oxidation Reduction Potention | 43.6         | mv          |
| GN-AP-MW-26    | 1/3/2019 11:15      | pH                            | 7.57         | pH          |
| GN-AP-MW-26    | 1/3/2019 11:15      | Temperature                   | 16.66        | C           |
| GN-AP-MW-26    | 1/3/2019 11:15      | Turbidity                     | 10.29        | NTU         |
| GN-AP-MW-26    | 1/3/2019 11:20      | Conductivity                  | 686.6        | uS/cm       |
| GN-AP-MW-26    | 1/3/2019 11:20      | DO                            | 1.39         | mg/L        |
| GN-AP-MW-26    | 1/3/2019 11:20      | Depth to Water Detail         | 8.79         | ft          |
| GN-AP-MW-26    | 1/3/2019 11:20      | Oxidation Reduction Potention | 45           | mv          |
| GN-AP-MW-26    | 1/3/2019 11:20      | pH                            | 7.57         | pH          |
| GN-AP-MW-26    | 1/3/2019 11:20      | Temperature                   | 16.64        | C           |
| GN-AP-MW-26    | 1/3/2019 11:20      | Turbidity                     | 9.59         | NTU         |

**Alabama Power Company  
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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-27    | 12/5/2018 14:40     | Conductivity                  | 352.8        | uS/cm       |
| GN-AP-MW-27    | 12/5/2018 14:40     | DO                            | 4.18         | mg/L        |
| GN-AP-MW-27    | 12/5/2018 14:40     | Depth to Water Detail         | 4.8          | ft          |
| GN-AP-MW-27    | 12/5/2018 14:40     | Oxidation Reduction Potention | 49.3         | mv          |
| GN-AP-MW-27    | 12/5/2018 14:40     | pH                            | 7.33         | pH          |
| GN-AP-MW-27    | 12/5/2018 14:40     | Temperature                   | 19.32        | C           |
| GN-AP-MW-27    | 12/5/2018 14:40     | Turbidity                     | 3.2          | NTU         |
| GN-AP-MW-27    | 12/5/2018 14:45     | Conductivity                  | 361.6        | uS/cm       |
| GN-AP-MW-27    | 12/5/2018 14:45     | DO                            | 4.43         | mg/L        |
| GN-AP-MW-27    | 12/5/2018 14:45     | Depth to Water Detail         | 4.8          | ft          |
| GN-AP-MW-27    | 12/5/2018 14:45     | Oxidation Reduction Potention | 55.8         | mv          |
| GN-AP-MW-27    | 12/5/2018 14:45     | pH                            | 7.11         | pH          |
| GN-AP-MW-27    | 12/5/2018 14:45     | Temperature                   | 19.1         | C           |
| GN-AP-MW-27    | 12/5/2018 14:45     | Turbidity                     | 29.5         | NTU         |
| GN-AP-MW-27    | 12/5/2018 14:50     | Conductivity                  | 410.2        | uS/cm       |
| GN-AP-MW-27    | 12/5/2018 14:50     | DO                            | 4.3          | mg/L        |
| GN-AP-MW-27    | 12/5/2018 14:50     | Depth to Water Detail         | 4.8          | ft          |
| GN-AP-MW-27    | 12/5/2018 14:50     | Oxidation Reduction Potention | 61.6         | mv          |
| GN-AP-MW-27    | 12/5/2018 14:50     | pH                            | 6.95         | pH          |
| GN-AP-MW-27    | 12/5/2018 14:50     | Temperature                   | 18.87        | C           |
| GN-AP-MW-27    | 12/5/2018 14:50     | Turbidity                     | 63.5         | NTU         |
| GN-AP-MW-27    | 12/5/2018 14:55     | Conductivity                  | 428.2        | uS/cm       |
| GN-AP-MW-27    | 12/5/2018 14:55     | DO                            | 4.17         | mg/L        |
| GN-AP-MW-27    | 12/5/2018 14:55     | Depth to Water Detail         | 4.8          | ft          |
| GN-AP-MW-27    | 12/5/2018 14:55     | Oxidation Reduction Potention | 64.1         | mv          |
| GN-AP-MW-27    | 12/5/2018 14:55     | pH                            | 6.87         | pH          |
| GN-AP-MW-27    | 12/5/2018 14:55     | Temperature                   | 18.97        | C           |
| GN-AP-MW-27    | 12/5/2018 14:55     | Turbidity                     | 74.6         | NTU         |
| GN-AP-MW-27    | 12/5/2018 15:00     | Conductivity                  | 444.5        | uS/cm       |
| GN-AP-MW-27    | 12/5/2018 15:00     | DO                            | 4.08         | mg/L        |
| GN-AP-MW-27    | 12/5/2018 15:00     | Depth to Water Detail         | 4.8          | ft          |
| GN-AP-MW-27    | 12/5/2018 15:00     | Oxidation Reduction Potention | 65.6         | mv          |
| GN-AP-MW-27    | 12/5/2018 15:00     | pH                            | 6.83         | pH          |
| GN-AP-MW-27    | 12/5/2018 15:00     | Temperature                   | 18.69        | C           |
| GN-AP-MW-27    | 12/5/2018 15:00     | Turbidity                     | 53.9         | NTU         |
| GN-AP-MW-27    | 12/5/2018 15:05     | Conductivity                  | 462.3        | uS/cm       |
| GN-AP-MW-27    | 12/5/2018 15:05     | DO                            | 3.96         | mg/L        |
| GN-AP-MW-27    | 12/5/2018 15:05     | Depth to Water Detail         | 4.8          | ft          |
| GN-AP-MW-27    | 12/5/2018 15:05     | Oxidation Reduction Potention | 66.5         | mv          |
| GN-AP-MW-27    | 12/5/2018 15:05     | pH                            | 6.8          | pH          |
| GN-AP-MW-27    | 12/5/2018 15:05     | Temperature                   | 18.88        | C           |
| GN-AP-MW-27    | 12/5/2018 15:05     | Turbidity                     | 52.1         | NTU         |
| GN-AP-MW-27    | 12/5/2018 15:10     | Conductivity                  | 470.8        | uS/cm       |
| GN-AP-MW-27    | 12/5/2018 15:10     | DO                            | 3.87         | mg/L        |
| GN-AP-MW-27    | 12/5/2018 15:10     | Depth to Water Detail         | 4.8          | ft          |
| GN-AP-MW-27    | 12/5/2018 15:10     | Oxidation Reduction Potention | 67.8         | mv          |

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| WELL ID     | READING TIME    | DESCRIPTION                   | VALUE | UNIT  |
|-------------|-----------------|-------------------------------|-------|-------|
| GN-AP-MW-27 | 12/5/2018 15:10 | pH                            | 6.8   | pH    |
| GN-AP-MW-27 | 12/5/2018 15:10 | Temperature                   | 18.88 | C     |
| GN-AP-MW-27 | 12/5/2018 15:10 | Turbidity                     | 38.6  | NTU   |
| GN-AP-MW-27 | 12/5/2018 15:15 | Conductivity                  | 480.5 | uS/cm |
| GN-AP-MW-27 | 12/5/2018 15:15 | DO                            | 3.77  | mg/L  |
| GN-AP-MW-27 | 12/5/2018 15:15 | Depth to Water Detail         | 4.8   | ft    |
| GN-AP-MW-27 | 12/5/2018 15:15 | Oxidation Reduction Potention | 68.6  | mv    |
| GN-AP-MW-27 | 12/5/2018 15:15 | pH                            | 6.8   | pH    |
| GN-AP-MW-27 | 12/5/2018 15:15 | Temperature                   | 18.88 | C     |
| GN-AP-MW-27 | 12/5/2018 15:15 | Turbidity                     | 31.8  | NTU   |
| GN-AP-MW-27 | 12/5/2018 15:20 | Conductivity                  | 489.4 | uS/cm |
| GN-AP-MW-27 | 12/5/2018 15:20 | DO                            | 3.67  | mg/L  |
| GN-AP-MW-27 | 12/5/2018 15:20 | Depth to Water Detail         | 4.8   | ft    |
| GN-AP-MW-27 | 12/5/2018 15:20 | Oxidation Reduction Potention | 69.2  | mv    |
| GN-AP-MW-27 | 12/5/2018 15:20 | pH                            | 6.79  | pH    |
| GN-AP-MW-27 | 12/5/2018 15:20 | Temperature                   | 19.1  | C     |
| GN-AP-MW-27 | 12/5/2018 15:20 | Turbidity                     | 25.7  | NTU   |
| GN-AP-MW-27 | 12/5/2018 15:25 | Conductivity                  | 495.6 | uS/cm |
| GN-AP-MW-27 | 12/5/2018 15:25 | DO                            | 3.58  | mg/L  |
| GN-AP-MW-27 | 12/5/2018 15:25 | Depth to Water Detail         | 4.8   | ft    |
| GN-AP-MW-27 | 12/5/2018 15:25 | Oxidation Reduction Potention | 69.3  | mv    |
| GN-AP-MW-27 | 12/5/2018 15:25 | pH                            | 6.8   | pH    |
| GN-AP-MW-27 | 12/5/2018 15:25 | Temperature                   | 19.02 | C     |
| GN-AP-MW-27 | 12/5/2018 15:25 | Turbidity                     | 20.9  | NTU   |
| GN-AP-MW-27 | 12/5/2018 15:30 | Conductivity                  | 503.4 | uS/cm |
| GN-AP-MW-27 | 12/5/2018 15:30 | DO                            | 3.5   | mg/L  |
| GN-AP-MW-27 | 12/5/2018 15:30 | Depth to Water Detail         | 4.8   | ft    |
| GN-AP-MW-27 | 12/5/2018 15:30 | Oxidation Reduction Potention | 69.6  | mv    |
| GN-AP-MW-27 | 12/5/2018 15:30 | pH                            | 6.8   | pH    |
| GN-AP-MW-27 | 12/5/2018 15:30 | Temperature                   | 19.1  | C     |
| GN-AP-MW-27 | 12/5/2018 15:30 | Turbidity                     | 19.8  | NTU   |
| GN-AP-MW-27 | 12/5/2018 15:35 | Conductivity                  | 508.6 | uS/cm |
| GN-AP-MW-27 | 12/5/2018 15:35 | DO                            | 3.44  | mg/L  |
| GN-AP-MW-27 | 12/5/2018 15:35 | Depth to Water Detail         | 4.8   | ft    |
| GN-AP-MW-27 | 12/5/2018 15:35 | Oxidation Reduction Potention | 70.2  | mv    |
| GN-AP-MW-27 | 12/5/2018 15:35 | pH                            | 6.81  | pH    |
| GN-AP-MW-27 | 12/5/2018 15:35 | Temperature                   | 19.01 | C     |
| GN-AP-MW-27 | 12/5/2018 15:35 | Turbidity                     | 17    | NTU   |
| GN-AP-MW-27 | 12/5/2018 15:40 | Conductivity                  | 513.9 | uS/cm |
| GN-AP-MW-27 | 12/5/2018 15:40 | DO                            | 3.4   | mg/L  |
| GN-AP-MW-27 | 12/5/2018 15:40 | Depth to Water Detail         | 4.8   | ft    |
| GN-AP-MW-27 | 12/5/2018 15:40 | Oxidation Reduction Potention | 70.3  | mv    |
| GN-AP-MW-27 | 12/5/2018 15:40 | pH                            | 6.81  | pH    |
| GN-AP-MW-27 | 12/5/2018 15:40 | Temperature                   | 19.1  | C     |
| GN-AP-MW-27 | 12/5/2018 15:40 | Turbidity                     | 14    | NTU   |
| GN-AP-MW-27 | 12/5/2018 15:45 | Conductivity                  | 518.1 | uS/cm |



**Alabama Power Company  
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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-27    | 12/5/2018 15:45     | DO                            | 3.36         | mg/L        |
| GN-AP-MW-27    | 12/5/2018 15:45     | Depth to Water Detail         | 4.8          | ft          |
| GN-AP-MW-27    | 12/5/2018 15:45     | Oxidation Reduction Potention | 70.4         | mv          |
| GN-AP-MW-27    | 12/5/2018 15:45     | pH                            | 6.81         | pH          |
| GN-AP-MW-27    | 12/5/2018 15:45     | Temperature                   | 19           | C           |
| GN-AP-MW-27    | 12/5/2018 15:45     | Turbidity                     | 12.3         | NTU         |
| GN-AP-MW-27    | 12/5/2018 15:50     | Conductivity                  | 522.1        | uS/cm       |
| GN-AP-MW-27    | 12/5/2018 15:50     | DO                            | 3.32         | mg/L        |
| GN-AP-MW-27    | 12/5/2018 15:50     | Depth to Water Detail         | 4.8          | ft          |
| GN-AP-MW-27    | 12/5/2018 15:50     | Oxidation Reduction Potention | 70.6         | mv          |
| GN-AP-MW-27    | 12/5/2018 15:50     | pH                            | 6.82         | pH          |
| GN-AP-MW-27    | 12/5/2018 15:50     | Temperature                   | 18.97        | C           |
| GN-AP-MW-27    | 12/5/2018 15:50     | Turbidity                     | 12           | NTU         |
| GN-AP-MW-27    | 12/5/2018 15:55     | Conductivity                  | 522.1        | uS/cm       |
| GN-AP-MW-27    | 12/5/2018 15:55     | DO                            | 3.29         | mg/L        |
| GN-AP-MW-27    | 12/5/2018 15:55     | Depth to Water Detail         | 4.8          | ft          |
| GN-AP-MW-27    | 12/5/2018 15:55     | Oxidation Reduction Potention | 71.4         | mv          |
| GN-AP-MW-27    | 12/5/2018 15:55     | pH                            | 6.81         | pH          |
| GN-AP-MW-27    | 12/5/2018 15:55     | Temperature                   | 19.01        | C           |
| GN-AP-MW-27    | 12/5/2018 15:55     | Turbidity                     | 12.7         | NTU         |
| GN-AP-MW-27    | 12/5/2018 16:00     | Conductivity                  | 524.8        | uS/cm       |
| GN-AP-MW-27    | 12/5/2018 16:00     | DO                            | 3.27         | mg/L        |
| GN-AP-MW-27    | 12/5/2018 16:00     | Depth to Water Detail         | 4.8          | ft          |
| GN-AP-MW-27    | 12/5/2018 16:00     | Oxidation Reduction Potention | 71.8         | mv          |
| GN-AP-MW-27    | 12/5/2018 16:00     | pH                            | 6.82         | pH          |
| GN-AP-MW-27    | 12/5/2018 16:00     | Temperature                   | 19.1         | C           |
| GN-AP-MW-27    | 12/5/2018 16:00     | Turbidity                     | 10.32        | NTU         |
| GN-AP-MW-27    | 12/5/2018 16:05     | Conductivity                  | 528.7        | uS/cm       |
| GN-AP-MW-27    | 12/5/2018 16:05     | DO                            | 3.22         | mg/L        |
| GN-AP-MW-27    | 12/5/2018 16:05     | Depth to Water Detail         | 4.8          | ft          |
| GN-AP-MW-27    | 12/5/2018 16:05     | Oxidation Reduction Potention | 72.3         | mv          |
| GN-AP-MW-27    | 12/5/2018 16:05     | pH                            | 6.82         | pH          |
| GN-AP-MW-27    | 12/5/2018 16:05     | Temperature                   | 19.14        | C           |
| GN-AP-MW-27    | 12/5/2018 16:05     | Turbidity                     | 9.1          | NTU         |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-27    | 1/3/2019 11:55      | Conductivity                  | 343.1        | uS/cm       |
| GN-AP-MW-27    | 1/3/2019 11:55      | DO                            | 5.23         | mg/L        |
| GN-AP-MW-27    | 1/3/2019 11:55      | Depth to Water Detail         | 2.45         | ft          |
| GN-AP-MW-27    | 1/3/2019 11:55      | Oxidation Reduction Potention | 79.4         | mv          |
| GN-AP-MW-27    | 1/3/2019 11:55      | pH                            | 6.75         | pH          |
| GN-AP-MW-27    | 1/3/2019 11:55      | Temperature                   | 19.39        | C           |
| GN-AP-MW-27    | 1/3/2019 11:55      | Turbidity                     | 56.1         | NTU         |
| GN-AP-MW-27    | 1/3/2019 12:00      | Conductivity                  | 339.4        | uS/cm       |
| GN-AP-MW-27    | 1/3/2019 12:00      | DO                            | 5.34         | mg/L        |
| GN-AP-MW-27    | 1/3/2019 12:00      | Depth to Water Detail         | 2.45         | ft          |
| GN-AP-MW-27    | 1/3/2019 12:00      | Oxidation Reduction Potention | 87.4         | mv          |
| GN-AP-MW-27    | 1/3/2019 12:00      | pH                            | 6.74         | pH          |
| GN-AP-MW-27    | 1/3/2019 12:00      | Temperature                   | 19.39        | C           |
| GN-AP-MW-27    | 1/3/2019 12:00      | Turbidity                     | 33.3         | NTU         |
| GN-AP-MW-27    | 1/3/2019 12:05      | Conductivity                  | 342.2        | uS/cm       |
| GN-AP-MW-27    | 1/3/2019 12:05      | DO                            | 5.34         | mg/L        |
| GN-AP-MW-27    | 1/3/2019 12:05      | Depth to Water Detail         | 2.45         | ft          |
| GN-AP-MW-27    | 1/3/2019 12:05      | Oxidation Reduction Potention | 79.9         | mv          |
| GN-AP-MW-27    | 1/3/2019 12:05      | pH                            | 6.74         | pH          |
| GN-AP-MW-27    | 1/3/2019 12:05      | Temperature                   | 19.39        | C           |
| GN-AP-MW-27    | 1/3/2019 12:05      | Turbidity                     | 23.5         | NTU         |
| GN-AP-MW-27    | 1/3/2019 12:10      | Conductivity                  | 344.9        | uS/cm       |
| GN-AP-MW-27    | 1/3/2019 12:10      | DO                            | 5.31         | mg/L        |
| GN-AP-MW-27    | 1/3/2019 12:10      | Depth to Water Detail         | 2.45         | ft          |
| GN-AP-MW-27    | 1/3/2019 12:10      | Oxidation Reduction Potention | 79.7         | mv          |
| GN-AP-MW-27    | 1/3/2019 12:10      | pH                            | 6.74         | pH          |
| GN-AP-MW-27    | 1/3/2019 12:10      | Temperature                   | 19.45        | C           |
| GN-AP-MW-27    | 1/3/2019 12:10      | Turbidity                     | 15.7         | NTU         |
| GN-AP-MW-27    | 1/3/2019 12:15      | Conductivity                  | 347.8        | uS/cm       |
| GN-AP-MW-27    | 1/3/2019 12:15      | DO                            | 5.29         | mg/L        |
| GN-AP-MW-27    | 1/3/2019 12:15      | Depth to Water Detail         | 2.45         | ft          |
| GN-AP-MW-27    | 1/3/2019 12:15      | Oxidation Reduction Potention | 80.3         | mv          |
| GN-AP-MW-27    | 1/3/2019 12:15      | pH                            | 6.75         | pH          |
| GN-AP-MW-27    | 1/3/2019 12:15      | Temperature                   | 19.41        | C           |
| GN-AP-MW-27    | 1/3/2019 12:15      | Turbidity                     | 12.5         | NTU         |
| GN-AP-MW-27    | 1/3/2019 12:20      | Conductivity                  | 349.7        | uS/cm       |
| GN-AP-MW-27    | 1/3/2019 12:20      | DO                            | 5.26         | mg/L        |
| GN-AP-MW-27    | 1/3/2019 12:20      | Depth to Water Detail         | 2.45         | ft          |
| GN-AP-MW-27    | 1/3/2019 12:20      | Oxidation Reduction Potention | 79.4         | mv          |
| GN-AP-MW-27    | 1/3/2019 12:20      | pH                            | 6.75         | pH          |
| GN-AP-MW-27    | 1/3/2019 12:20      | Temperature                   | 19.48        | C           |
| GN-AP-MW-27    | 1/3/2019 12:20      | Turbidity                     | 12           | NTU         |
| GN-AP-MW-27    | 1/3/2019 12:25      | Conductivity                  | 352.9        | uS/cm       |
| GN-AP-MW-27    | 1/3/2019 12:25      | DO                            | 5.23         | mg/L        |
| GN-AP-MW-27    | 1/3/2019 12:25      | Depth to Water Detail         | 2.45         | ft          |
| GN-AP-MW-27    | 1/3/2019 12:25      | Oxidation Reduction Potention | 79.4         | mv          |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b> | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|--------------------|--------------|-------------|
| GN-AP-MW-27    | 1/3/2019 12:25      | pH                 | 6.76         | pH          |
| GN-AP-MW-27    | 1/3/2019 12:25      | Temperature        | 19.51        | C           |
| GN-AP-MW-27    | 1/3/2019 12:25      | Turbidity          | 9            | NTU         |

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| WELL ID      | READING TIME    | DESCRIPTION                   | VALUE  | UNIT  |
|--------------|-----------------|-------------------------------|--------|-------|
| GN-AP-MW-28H | 2/26/2019 10:07 | Conductivity                  | 430.4  | uS/cm |
| GN-AP-MW-28H | 2/26/2019 10:07 | DO                            | 0.19   | mg/L  |
| GN-AP-MW-28H | 2/26/2019 10:07 | Depth to Water Detail         | 6.78   | ft    |
| GN-AP-MW-28H | 2/26/2019 10:07 | Oxidation Reduction Potention | -67    | mv    |
| GN-AP-MW-28H | 2/26/2019 10:07 | pH                            | 8.34   | pH    |
| GN-AP-MW-28H | 2/26/2019 10:07 | Temperature                   | 19.5   | C     |
| GN-AP-MW-28H | 2/26/2019 10:07 | Turbidity                     | 30.9   | NTU   |
| GN-AP-MW-28H | 2/26/2019 10:12 | Conductivity                  | 428.7  | uS/cm |
| GN-AP-MW-28H | 2/26/2019 10:12 | DO                            | 0.15   | mg/L  |
| GN-AP-MW-28H | 2/26/2019 10:12 | Depth to Water Detail         | 7.41   | ft    |
| GN-AP-MW-28H | 2/26/2019 10:12 | Oxidation Reduction Potention | -79.7  | mv    |
| GN-AP-MW-28H | 2/26/2019 10:12 | pH                            | 8.35   | pH    |
| GN-AP-MW-28H | 2/26/2019 10:12 | Temperature                   | 19.62  | C     |
| GN-AP-MW-28H | 2/26/2019 10:12 | Turbidity                     | 20.9   | NTU   |
| GN-AP-MW-28H | 2/26/2019 10:17 | Conductivity                  | 425.7  | uS/cm |
| GN-AP-MW-28H | 2/26/2019 10:17 | DO                            | 0.12   | mg/L  |
| GN-AP-MW-28H | 2/26/2019 10:17 | Depth to Water Detail         | 7.77   | ft    |
| GN-AP-MW-28H | 2/26/2019 10:17 | Oxidation Reduction Potention | -90.5  | mv    |
| GN-AP-MW-28H | 2/26/2019 10:17 | pH                            | 8.35   | pH    |
| GN-AP-MW-28H | 2/26/2019 10:17 | Temperature                   | 19.83  | C     |
| GN-AP-MW-28H | 2/26/2019 10:17 | Turbidity                     | 19.4   | NTU   |
| GN-AP-MW-28H | 2/26/2019 10:22 | Conductivity                  | 425.8  | uS/cm |
| GN-AP-MW-28H | 2/26/2019 10:22 | DO                            | 0.12   | mg/L  |
| GN-AP-MW-28H | 2/26/2019 10:22 | Depth to Water Detail         | 7.95   | ft    |
| GN-AP-MW-28H | 2/26/2019 10:22 | Oxidation Reduction Potention | -99.1  | mv    |
| GN-AP-MW-28H | 2/26/2019 10:22 | pH                            | 8.35   | pH    |
| GN-AP-MW-28H | 2/26/2019 10:22 | Temperature                   | 19.89  | C     |
| GN-AP-MW-28H | 2/26/2019 10:22 | Turbidity                     | 15.5   | NTU   |
| GN-AP-MW-28H | 2/26/2019 10:27 | Conductivity                  | 425.2  | uS/cm |
| GN-AP-MW-28H | 2/26/2019 10:27 | DO                            | 0.11   | mg/L  |
| GN-AP-MW-28H | 2/26/2019 10:27 | Depth to Water Detail         | 8.05   | ft    |
| GN-AP-MW-28H | 2/26/2019 10:27 | Oxidation Reduction Potention | -107.1 | mv    |
| GN-AP-MW-28H | 2/26/2019 10:27 | pH                            | 8.35   | pH    |
| GN-AP-MW-28H | 2/26/2019 10:27 | Temperature                   | 20.01  | C     |
| GN-AP-MW-28H | 2/26/2019 10:27 | Turbidity                     | 14.4   | NTU   |
| GN-AP-MW-28H | 2/26/2019 10:32 | Conductivity                  | 424.1  | uS/cm |
| GN-AP-MW-28H | 2/26/2019 10:32 | DO                            | 0.1    | mg/L  |
| GN-AP-MW-28H | 2/26/2019 10:32 | Depth to Water Detail         | 8.26   | ft    |
| GN-AP-MW-28H | 2/26/2019 10:32 | Oxidation Reduction Potention | -111.2 | mv    |
| GN-AP-MW-28H | 2/26/2019 10:32 | pH                            | 8.35   | pH    |
| GN-AP-MW-28H | 2/26/2019 10:32 | Temperature                   | 20.13  | C     |
| GN-AP-MW-28H | 2/26/2019 10:32 | Turbidity                     | 14.5   | NTU   |
| GN-AP-MW-28H | 2/26/2019 10:37 | Conductivity                  | 423.9  | uS/cm |
| GN-AP-MW-28H | 2/26/2019 10:37 | DO                            | 0.1    | mg/L  |
| GN-AP-MW-28H | 2/26/2019 10:37 | Depth to Water Detail         | 8.32   | ft    |
| GN-AP-MW-28H | 2/26/2019 10:37 | Oxidation Reduction Potention | -112.8 | mv    |

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| WELL ID      | READING TIME    | DESCRIPTION                   | VALUE  | UNIT  |
|--------------|-----------------|-------------------------------|--------|-------|
| GN-AP-MW-28H | 2/26/2019 10:37 | pH                            | 8.35   | pH    |
| GN-AP-MW-28H | 2/26/2019 10:37 | Temperature                   | 20.12  | C     |
| GN-AP-MW-28H | 2/26/2019 10:37 | Turbidity                     | 17.8   | NTU   |
| GN-AP-MW-28H | 2/26/2019 10:42 | Conductivity                  | 423.8  | uS/cm |
| GN-AP-MW-28H | 2/26/2019 10:42 | DO                            | 0.09   | mg/L  |
| GN-AP-MW-28H | 2/26/2019 10:42 | Depth to Water Detail         | 8.43   | ft    |
| GN-AP-MW-28H | 2/26/2019 10:42 | Oxidation Reduction Potention | -114.4 | mv    |
| GN-AP-MW-28H | 2/26/2019 10:42 | pH                            | 8.35   | pH    |
| GN-AP-MW-28H | 2/26/2019 10:42 | Temperature                   | 20.19  | C     |
| GN-AP-MW-28H | 2/26/2019 10:42 | Turbidity                     | 19     | NTU   |
| GN-AP-MW-28H | 2/26/2019 10:47 | Conductivity                  | 424.2  | uS/cm |
| GN-AP-MW-28H | 2/26/2019 10:47 | DO                            | 0.09   | mg/L  |
| GN-AP-MW-28H | 2/26/2019 10:47 | Depth to Water Detail         | 8.43   | ft    |
| GN-AP-MW-28H | 2/26/2019 10:47 | Oxidation Reduction Potention | -115.6 | mv    |
| GN-AP-MW-28H | 2/26/2019 10:47 | pH                            | 8.34   | pH    |
| GN-AP-MW-28H | 2/26/2019 10:47 | Temperature                   | 20.13  | C     |
| GN-AP-MW-28H | 2/26/2019 10:47 | Turbidity                     | 22.1   | NTU   |
| GN-AP-MW-28H | 2/26/2019 10:53 | Conductivity                  | 424.3  | uS/cm |
| GN-AP-MW-28H | 2/26/2019 10:53 | DO                            | 0.09   | mg/L  |
| GN-AP-MW-28H | 2/26/2019 10:53 | Depth to Water Detail         | 8.43   | ft    |
| GN-AP-MW-28H | 2/26/2019 10:53 | Oxidation Reduction Potention | -117.5 | mv    |
| GN-AP-MW-28H | 2/26/2019 10:53 | pH                            | 8.34   | pH    |
| GN-AP-MW-28H | 2/26/2019 10:53 | Temperature                   | 20.16  | C     |
| GN-AP-MW-28H | 2/26/2019 10:53 | Turbidity                     | 22.8   | NTU   |
| GN-AP-MW-28H | 2/26/2019 10:58 | Conductivity                  | 423.1  | uS/cm |
| GN-AP-MW-28H | 2/26/2019 10:58 | DO                            | 0.1    | mg/L  |
| GN-AP-MW-28H | 2/26/2019 10:58 | Depth to Water Detail         | 8.43   | ft    |
| GN-AP-MW-28H | 2/26/2019 10:58 | Oxidation Reduction Potention | -119.2 | mv    |
| GN-AP-MW-28H | 2/26/2019 10:58 | pH                            | 8.34   | pH    |
| GN-AP-MW-28H | 2/26/2019 10:58 | Temperature                   | 20.19  | C     |
| GN-AP-MW-28H | 2/26/2019 10:58 | Turbidity                     | 19.9   | NTU   |
| GN-AP-MW-28H | 2/26/2019 11:03 | Conductivity                  | 423.4  | uS/cm |
| GN-AP-MW-28H | 2/26/2019 11:03 | DO                            | 0.09   | mg/L  |
| GN-AP-MW-28H | 2/26/2019 11:03 | Depth to Water Detail         | 8.43   | ft    |
| GN-AP-MW-28H | 2/26/2019 11:03 | Oxidation Reduction Potention | -120.9 | mv    |
| GN-AP-MW-28H | 2/26/2019 11:03 | pH                            | 8.34   | pH    |
| GN-AP-MW-28H | 2/26/2019 11:03 | Temperature                   | 20.23  | C     |
| GN-AP-MW-28H | 2/26/2019 11:03 | Turbidity                     | 19.7   | NTU   |
| GN-AP-MW-28H | 2/26/2019 11:08 | Conductivity                  | 422.8  | uS/cm |
| GN-AP-MW-28H | 2/26/2019 11:08 | DO                            | 0.09   | mg/L  |
| GN-AP-MW-28H | 2/26/2019 11:08 | Depth to Water Detail         | 8.43   | ft    |
| GN-AP-MW-28H | 2/26/2019 11:08 | Oxidation Reduction Potention | -122.4 | mv    |
| GN-AP-MW-28H | 2/26/2019 11:08 | pH                            | 8.33   | pH    |
| GN-AP-MW-28H | 2/26/2019 11:08 | Temperature                   | 20.28  | C     |
| GN-AP-MW-28H | 2/26/2019 11:08 | Turbidity                     | 20.1   | NTU   |
| GN-AP-MW-28H | 2/26/2019 11:13 | Conductivity                  | 422.9  | uS/cm |

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| WELL ID      | READING TIME    | DESCRIPTION                   | VALUE  | UNIT  |
|--------------|-----------------|-------------------------------|--------|-------|
| GN-AP-MW-28H | 2/26/2019 11:13 | DO                            | 0.09   | mg/L  |
| GN-AP-MW-28H | 2/26/2019 11:13 | Depth to Water Detail         | 8.43   | ft    |
| GN-AP-MW-28H | 2/26/2019 11:13 | Oxidation Reduction Potention | -123.1 | mv    |
| GN-AP-MW-28H | 2/26/2019 11:13 | pH                            | 8.33   | pH    |
| GN-AP-MW-28H | 2/26/2019 11:13 | Temperature                   | 20.35  | C     |
| GN-AP-MW-28H | 2/26/2019 11:13 | Turbidity                     | 18.2   | NTU   |
| GN-AP-MW-28H | 2/26/2019 11:18 | Conductivity                  | 422.9  | uS/cm |
| GN-AP-MW-28H | 2/26/2019 11:18 | DO                            | 0.09   | mg/L  |
| GN-AP-MW-28H | 2/26/2019 11:18 | Depth to Water Detail         | 8.43   | ft    |
| GN-AP-MW-28H | 2/26/2019 11:18 | Oxidation Reduction Potention | -123.2 | mv    |
| GN-AP-MW-28H | 2/26/2019 11:18 | pH                            | 8.33   | pH    |
| GN-AP-MW-28H | 2/26/2019 11:18 | Temperature                   | 20.34  | C     |
| GN-AP-MW-28H | 2/26/2019 11:18 | Turbidity                     | 18.9   | NTU   |
| GN-AP-MW-28H | 2/26/2019 11:23 | Conductivity                  | 422.9  | uS/cm |
| GN-AP-MW-28H | 2/26/2019 11:23 | DO                            | 0.09   | mg/L  |
| GN-AP-MW-28H | 2/26/2019 11:23 | Depth to Water Detail         | 8.43   | ft    |
| GN-AP-MW-28H | 2/26/2019 11:23 | Oxidation Reduction Potention | -122.7 | mv    |
| GN-AP-MW-28H | 2/26/2019 11:23 | pH                            | 8.33   | pH    |
| GN-AP-MW-28H | 2/26/2019 11:23 | Temperature                   | 20.31  | C     |
| GN-AP-MW-28H | 2/26/2019 11:23 | Turbidity                     | 19.1   | NTU   |
| GN-AP-MW-28H | 2/26/2019 11:28 | Conductivity                  | 422.6  | uS/cm |
| GN-AP-MW-28H | 2/26/2019 11:28 | DO                            | 0.09   | mg/L  |
| GN-AP-MW-28H | 2/26/2019 11:28 | Depth to Water Detail         | 8.43   | ft    |
| GN-AP-MW-28H | 2/26/2019 11:28 | Oxidation Reduction Potention | -122.5 | mv    |
| GN-AP-MW-28H | 2/26/2019 11:28 | pH                            | 8.33   | pH    |
| GN-AP-MW-28H | 2/26/2019 11:28 | Temperature                   | 20.31  | C     |
| GN-AP-MW-28H | 2/26/2019 11:28 | Turbidity                     | 15.8   | NTU   |
| GN-AP-MW-28H | 2/26/2019 11:33 | Conductivity                  | 422.4  | uS/cm |
| GN-AP-MW-28H | 2/26/2019 11:33 | DO                            | 0.09   | mg/L  |
| GN-AP-MW-28H | 2/26/2019 11:33 | Depth to Water Detail         | 8.43   | ft    |
| GN-AP-MW-28H | 2/26/2019 11:33 | Oxidation Reduction Potention | -123.2 | mv    |
| GN-AP-MW-28H | 2/26/2019 11:33 | pH                            | 8.33   | pH    |
| GN-AP-MW-28H | 2/26/2019 11:33 | Temperature                   | 20.35  | C     |
| GN-AP-MW-28H | 2/26/2019 11:33 | Turbidity                     | 16.7   | NTU   |
| GN-AP-MW-28H | 2/26/2019 11:38 | Conductivity                  | 422.2  | uS/cm |
| GN-AP-MW-28H | 2/26/2019 11:38 | DO                            | 0.09   | mg/L  |
| GN-AP-MW-28H | 2/26/2019 11:38 | Depth to Water Detail         | 8.43   | ft    |
| GN-AP-MW-28H | 2/26/2019 11:38 | Oxidation Reduction Potention | -123.5 | mv    |
| GN-AP-MW-28H | 2/26/2019 11:38 | pH                            | 8.33   | pH    |
| GN-AP-MW-28H | 2/26/2019 11:38 | Temperature                   | 20.37  | C     |
| GN-AP-MW-28H | 2/26/2019 11:38 | Turbidity                     | 16.2   | NTU   |
| GN-AP-MW-28H | 2/26/2019 11:43 | Conductivity                  | 422.3  | uS/cm |
| GN-AP-MW-28H | 2/26/2019 11:43 | DO                            | 0.09   | mg/L  |
| GN-AP-MW-28H | 2/26/2019 11:43 | Depth to Water Detail         | 8.43   | ft    |
| GN-AP-MW-28H | 2/26/2019 11:43 | Oxidation Reduction Potention | -123.5 | mv    |
| GN-AP-MW-28H | 2/26/2019 11:43 | pH                            | 8.33   | pH    |

**Alabama Power Company  
Plant Gaston Ash Pond**

| WELL ID      | READING TIME    | DESCRIPTION                   | VALUE  | UNIT  |
|--------------|-----------------|-------------------------------|--------|-------|
| GN-AP-MW-28H | 2/26/2019 11:43 | Temperature                   | 20.37  | C     |
| GN-AP-MW-28H | 2/26/2019 11:43 | Turbidity                     | 15.8   | NTU   |
| GN-AP-MW-28H | 2/26/2019 11:48 | Conductivity                  | 422.3  | uS/cm |
| GN-AP-MW-28H | 2/26/2019 11:48 | DO                            | 0.08   | mg/L  |
| GN-AP-MW-28H | 2/26/2019 11:48 | Depth to Water Detail         | 8.43   | ft    |
| GN-AP-MW-28H | 2/26/2019 11:48 | Oxidation Reduction Potential | -123.1 | mv    |
| GN-AP-MW-28H | 2/26/2019 11:48 | pH                            | 8.33   | pH    |
| GN-AP-MW-28H | 2/26/2019 11:48 | Temperature                   | 20.37  | C     |
| GN-AP-MW-28H | 2/26/2019 11:48 | Turbidity                     | 14.2   | NTU   |
| GN-AP-MW-28H | 2/26/2019 11:53 | Conductivity                  | 422.4  | uS/cm |
| GN-AP-MW-28H | 2/26/2019 11:53 | DO                            | 0.08   | mg/L  |
| GN-AP-MW-28H | 2/26/2019 11:53 | Depth to Water Detail         | 8.43   | ft    |
| GN-AP-MW-28H | 2/26/2019 11:53 | Oxidation Reduction Potential | -122.9 | mv    |
| GN-AP-MW-28H | 2/26/2019 11:53 | pH                            | 8.32   | pH    |
| GN-AP-MW-28H | 2/26/2019 11:53 | Temperature                   | 20.36  | C     |
| GN-AP-MW-28H | 2/26/2019 11:53 | Turbidity                     | 14.3   | NTU   |
| GN-AP-MW-28H | 2/26/2019 11:58 | Conductivity                  | 423    | uS/cm |
| GN-AP-MW-28H | 2/26/2019 11:58 | DO                            | 0.09   | mg/L  |
| GN-AP-MW-28H | 2/26/2019 11:58 | Depth to Water Detail         | 8.43   | ft    |
| GN-AP-MW-28H | 2/26/2019 11:58 | Oxidation Reduction Potential | -123.3 | mv    |
| GN-AP-MW-28H | 2/26/2019 11:58 | pH                            | 8.32   | pH    |
| GN-AP-MW-28H | 2/26/2019 11:58 | Temperature                   | 20.37  | C     |
| GN-AP-MW-28H | 2/26/2019 11:58 | Turbidity                     | 13.2   | NTU   |
| GN-AP-MW-28H | 2/26/2019 12:03 | Conductivity                  | 422.1  | uS/cm |
| GN-AP-MW-28H | 2/26/2019 12:03 | DO                            | 0.09   | mg/L  |
| GN-AP-MW-28H | 2/26/2019 12:03 | Depth to Water Detail         | 8.43   | ft    |
| GN-AP-MW-28H | 2/26/2019 12:03 | Oxidation Reduction Potential | -122.8 | mv    |
| GN-AP-MW-28H | 2/26/2019 12:03 | pH                            | 8.32   | pH    |
| GN-AP-MW-28H | 2/26/2019 12:03 | Temperature                   | 20.37  | C     |
| GN-AP-MW-28H | 2/26/2019 12:03 | Turbidity                     | 12.8   | NTU   |
| GN-AP-MW-28H | 2/26/2019 12:08 | Conductivity                  | 422.1  | uS/cm |
| GN-AP-MW-28H | 2/26/2019 12:08 | DO                            | 0.09   | mg/L  |
| GN-AP-MW-28H | 2/26/2019 12:08 | Depth to Water Detail         | 8.43   | ft    |
| GN-AP-MW-28H | 2/26/2019 12:08 | Oxidation Reduction Potential | -123   | mv    |
| GN-AP-MW-28H | 2/26/2019 12:08 | pH                            | 8.32   | pH    |
| GN-AP-MW-28H | 2/26/2019 12:08 | Temperature                   | 20.37  | C     |
| GN-AP-MW-28H | 2/26/2019 12:08 | Turbidity                     | 13.4   | NTU   |
| GN-AP-MW-28H | 2/26/2019 12:13 | Conductivity                  | 422.4  | uS/cm |
| GN-AP-MW-28H | 2/26/2019 12:13 | DO                            | 0.08   | mg/L  |
| GN-AP-MW-28H | 2/26/2019 12:13 | Depth to Water Detail         | 8.43   | ft    |
| GN-AP-MW-28H | 2/26/2019 12:13 | Oxidation Reduction Potential | -124.2 | mv    |
| GN-AP-MW-28H | 2/26/2019 12:13 | pH                            | 8.32   | pH    |
| GN-AP-MW-28H | 2/26/2019 12:13 | Temperature                   | 20.35  | C     |
| GN-AP-MW-28H | 2/26/2019 12:13 | Turbidity                     | 10.6   | NTU   |
| GN-AP-MW-28H | 2/26/2019 12:18 | Conductivity                  | 422.2  | uS/cm |
| GN-AP-MW-28H | 2/26/2019 12:18 | DO                            | 0.08   | mg/L  |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-28H   | 2/26/2019 12:18     | Depth to Water Detail         | 8.43         | ft          |
| GN-AP-MW-28H   | 2/26/2019 12:18     | Oxidation Reduction Potention | -125.3       | mv          |
| GN-AP-MW-28H   | 2/26/2019 12:18     | pH                            | 8.32         | pH          |
| GN-AP-MW-28H   | 2/26/2019 12:18     | Temperature                   | 20.37        | C           |
| GN-AP-MW-28H   | 2/26/2019 12:18     | Turbidity                     | 11.2         | NTU         |
| GN-AP-MW-28H   | 2/26/2019 12:23     | Conductivity                  | 422.3        | uS/cm       |
| GN-AP-MW-28H   | 2/26/2019 12:23     | DO                            | 0.08         | mg/L        |
| GN-AP-MW-28H   | 2/26/2019 12:23     | Depth to Water Detail         | 8.43         | ft          |
| GN-AP-MW-28H   | 2/26/2019 12:23     | Oxidation Reduction Potention | -125.9       | mv          |
| GN-AP-MW-28H   | 2/26/2019 12:23     | pH                            | 8.32         | pH          |
| GN-AP-MW-28H   | 2/26/2019 12:23     | Temperature                   | 20.38        | C           |
| GN-AP-MW-28H   | 2/26/2019 12:23     | Turbidity                     | 10.38        | NTU         |
| GN-AP-MW-28H   | 2/26/2019 12:28     | Conductivity                  | 422.5        | uS/cm       |
| GN-AP-MW-28H   | 2/26/2019 12:28     | DO                            | 0.08         | mg/L        |
| GN-AP-MW-28H   | 2/26/2019 12:28     | Depth to Water Detail         | 8.43         | ft          |
| GN-AP-MW-28H   | 2/26/2019 12:28     | Oxidation Reduction Potention | -124.9       | mv          |
| GN-AP-MW-28H   | 2/26/2019 12:28     | pH                            | 8.32         | pH          |
| GN-AP-MW-28H   | 2/26/2019 12:28     | Temperature                   | 20.41        | C           |
| GN-AP-MW-28H   | 2/26/2019 12:28     | Turbidity                     | 11.8         | NTU         |
| GN-AP-MW-28H   | 2/26/2019 12:33     | Conductivity                  | 421.5        | uS/cm       |
| GN-AP-MW-28H   | 2/26/2019 12:33     | DO                            | 0.08         | mg/L        |
| GN-AP-MW-28H   | 2/26/2019 12:33     | Depth to Water Detail         | 8.43         | ft          |
| GN-AP-MW-28H   | 2/26/2019 12:33     | Oxidation Reduction Potention | -124.3       | mv          |
| GN-AP-MW-28H   | 2/26/2019 12:33     | pH                            | 8.32         | pH          |
| GN-AP-MW-28H   | 2/26/2019 12:33     | Temperature                   | 20.42        | C           |
| GN-AP-MW-28H   | 2/26/2019 12:33     | Turbidity                     | 10.43        | NTU         |
| GN-AP-MW-28H   | 2/26/2019 12:38     | Conductivity                  | 421.9        | uS/cm       |
| GN-AP-MW-28H   | 2/26/2019 12:38     | DO                            | 0.08         | mg/L        |
| GN-AP-MW-28H   | 2/26/2019 12:38     | Depth to Water Detail         | 8.43         | ft          |
| GN-AP-MW-28H   | 2/26/2019 12:38     | Oxidation Reduction Potention | -124.1       | mv          |
| GN-AP-MW-28H   | 2/26/2019 12:38     | pH                            | 8.32         | pH          |
| GN-AP-MW-28H   | 2/26/2019 12:38     | Temperature                   | 20.41        | C           |
| GN-AP-MW-28H   | 2/26/2019 12:38     | Turbidity                     | 11.03        | NTU         |
| GN-AP-MW-28H   | 2/26/2019 12:43     | Conductivity                  | 421.9        | uS/cm       |
| GN-AP-MW-28H   | 2/26/2019 12:43     | DO                            | 0.08         | mg/L        |
| GN-AP-MW-28H   | 2/26/2019 12:43     | Depth to Water Detail         | 8.43         | ft          |
| GN-AP-MW-28H   | 2/26/2019 12:43     | Oxidation Reduction Potention | -125.4       | mv          |
| GN-AP-MW-28H   | 2/26/2019 12:43     | pH                            | 8.31         | pH          |
| GN-AP-MW-28H   | 2/26/2019 12:43     | Temperature                   | 20.39        | C           |
| GN-AP-MW-28H   | 2/26/2019 12:43     | Turbidity                     | 9.52         | NTU         |



**Alabama Power Company  
Plant Gaston Ash Pond**

| WELL ID      | READING TIME    | DESCRIPTION                   | VALUE | UNIT  |
|--------------|-----------------|-------------------------------|-------|-------|
| GN-AP-MW-29H | 2/26/2019 13:34 | Conductivity                  | 484.7 | uS/cm |
| GN-AP-MW-29H | 2/26/2019 13:34 | DO                            | 0.74  | mg/L  |
| GN-AP-MW-29H | 2/26/2019 13:34 | Depth to Water Detail         | 2.35  | ft    |
| GN-AP-MW-29H | 2/26/2019 13:34 | Oxidation Reduction Potention | 27.9  | mv    |
| GN-AP-MW-29H | 2/26/2019 13:34 | pH                            | 8.63  | pH    |
| GN-AP-MW-29H | 2/26/2019 13:34 | Temperature                   | 18.59 | C     |
| GN-AP-MW-29H | 2/26/2019 13:34 | Turbidity                     | 113   | NTU   |
| GN-AP-MW-29H | 2/26/2019 13:39 | Conductivity                  | 483.6 | uS/cm |
| GN-AP-MW-29H | 2/26/2019 13:39 | DO                            | 0.64  | mg/L  |
| GN-AP-MW-29H | 2/26/2019 13:39 | Depth to Water Detail         | 3     | ft    |
| GN-AP-MW-29H | 2/26/2019 13:39 | Oxidation Reduction Potention | 24.6  | mv    |
| GN-AP-MW-29H | 2/26/2019 13:39 | pH                            | 8.63  | pH    |
| GN-AP-MW-29H | 2/26/2019 13:39 | Temperature                   | 18.59 | C     |
| GN-AP-MW-29H | 2/26/2019 13:39 | Turbidity                     | 80    | NTU   |
| GN-AP-MW-29H | 2/26/2019 13:44 | Conductivity                  | 484.2 | uS/cm |
| GN-AP-MW-29H | 2/26/2019 13:44 | DO                            | 0.59  | mg/L  |
| GN-AP-MW-29H | 2/26/2019 13:44 | Depth to Water Detail         | 3.32  | ft    |
| GN-AP-MW-29H | 2/26/2019 13:44 | Oxidation Reduction Potention | 19.2  | mv    |
| GN-AP-MW-29H | 2/26/2019 13:44 | pH                            | 8.63  | pH    |
| GN-AP-MW-29H | 2/26/2019 13:44 | Temperature                   | 18.59 | C     |
| GN-AP-MW-29H | 2/26/2019 13:44 | Turbidity                     | 65.3  | NTU   |
| GN-AP-MW-29H | 2/26/2019 13:49 | Conductivity                  | 484.3 | uS/cm |
| GN-AP-MW-29H | 2/26/2019 13:49 | DO                            | 0.57  | mg/L  |
| GN-AP-MW-29H | 2/26/2019 13:49 | Depth to Water Detail         | 3.98  | ft    |
| GN-AP-MW-29H | 2/26/2019 13:49 | Oxidation Reduction Potention | 12.7  | mv    |
| GN-AP-MW-29H | 2/26/2019 13:49 | pH                            | 8.63  | pH    |
| GN-AP-MW-29H | 2/26/2019 13:49 | Temperature                   | 18.58 | C     |
| GN-AP-MW-29H | 2/26/2019 13:49 | Turbidity                     | 57.8  | NTU   |
| GN-AP-MW-29H | 2/26/2019 13:54 | Conductivity                  | 483.9 | uS/cm |
| GN-AP-MW-29H | 2/26/2019 13:54 | DO                            | 0.55  | mg/L  |
| GN-AP-MW-29H | 2/26/2019 13:54 | Depth to Water Detail         | 4.36  | ft    |
| GN-AP-MW-29H | 2/26/2019 13:54 | Oxidation Reduction Potention | 5     | mv    |
| GN-AP-MW-29H | 2/26/2019 13:54 | pH                            | 8.63  | pH    |
| GN-AP-MW-29H | 2/26/2019 13:54 | Temperature                   | 18.54 | C     |
| GN-AP-MW-29H | 2/26/2019 13:54 | Turbidity                     | 38.6  | NTU   |
| GN-AP-MW-29H | 2/26/2019 13:59 | Conductivity                  | 483.5 | uS/cm |
| GN-AP-MW-29H | 2/26/2019 13:59 | DO                            | 0.55  | mg/L  |
| GN-AP-MW-29H | 2/26/2019 13:59 | Depth to Water Detail         | 4.68  | ft    |
| GN-AP-MW-29H | 2/26/2019 13:59 | Oxidation Reduction Potention | -4.7  | mv    |
| GN-AP-MW-29H | 2/26/2019 13:59 | pH                            | 8.63  | pH    |
| GN-AP-MW-29H | 2/26/2019 13:59 | Temperature                   | 18.5  | C     |
| GN-AP-MW-29H | 2/26/2019 13:59 | Turbidity                     | 32.9  | NTU   |
| GN-AP-MW-29H | 2/26/2019 14:04 | Conductivity                  | 482.3 | uS/cm |
| GN-AP-MW-29H | 2/26/2019 14:04 | DO                            | 0.53  | mg/L  |
| GN-AP-MW-29H | 2/26/2019 14:04 | Depth to Water Detail         | 5.23  | ft    |
| GN-AP-MW-29H | 2/26/2019 14:04 | Oxidation Reduction Potention | -16.5 | mv    |

**Alabama Power Company  
Plant Gaston Ash Pond**

| WELL ID      | READING TIME    | DESCRIPTION                   | VALUE | UNIT  |
|--------------|-----------------|-------------------------------|-------|-------|
| GN-AP-MW-29H | 2/26/2019 14:04 | pH                            | 8.63  | pH    |
| GN-AP-MW-29H | 2/26/2019 14:04 | Temperature                   | 18.54 | C     |
| GN-AP-MW-29H | 2/26/2019 14:04 | Turbidity                     | 27.7  | NTU   |
| GN-AP-MW-29H | 2/26/2019 14:09 | Conductivity                  | 482.2 | uS/cm |
| GN-AP-MW-29H | 2/26/2019 14:09 | DO                            | 0.52  | mg/L  |
| GN-AP-MW-29H | 2/26/2019 14:09 | Depth to Water Detail         | 5.56  | ft    |
| GN-AP-MW-29H | 2/26/2019 14:09 | Oxidation Reduction Potention | -25.2 | mv    |
| GN-AP-MW-29H | 2/26/2019 14:09 | pH                            | 8.63  | pH    |
| GN-AP-MW-29H | 2/26/2019 14:09 | Temperature                   | 18.59 | C     |
| GN-AP-MW-29H | 2/26/2019 14:09 | Turbidity                     | 26.1  | NTU   |
| GN-AP-MW-29H | 2/26/2019 14:14 | Conductivity                  | 481.8 | uS/cm |
| GN-AP-MW-29H | 2/26/2019 14:14 | DO                            | 0.52  | mg/L  |
| GN-AP-MW-29H | 2/26/2019 14:14 | Depth to Water Detail         | 6.09  | ft    |
| GN-AP-MW-29H | 2/26/2019 14:14 | Oxidation Reduction Potention | -30.4 | mv    |
| GN-AP-MW-29H | 2/26/2019 14:14 | pH                            | 8.63  | pH    |
| GN-AP-MW-29H | 2/26/2019 14:14 | Temperature                   | 18.65 | C     |
| GN-AP-MW-29H | 2/26/2019 14:14 | Turbidity                     | 25.7  | NTU   |
| GN-AP-MW-29H | 2/26/2019 14:24 | Conductivity                  | 482.7 | uS/cm |
| GN-AP-MW-29H | 2/26/2019 14:24 | DO                            | 0.54  | mg/L  |
| GN-AP-MW-29H | 2/26/2019 14:24 | Depth to Water Detail         | 6.99  | ft    |
| GN-AP-MW-29H | 2/26/2019 14:24 | Oxidation Reduction Potention | -33.6 | mv    |
| GN-AP-MW-29H | 2/26/2019 14:24 | pH                            | 8.63  | pH    |
| GN-AP-MW-29H | 2/26/2019 14:24 | Temperature                   | 18.59 | C     |
| GN-AP-MW-29H | 2/26/2019 14:24 | Turbidity                     | 24.2  | NTU   |
| GN-AP-MW-29H | 2/26/2019 14:29 | Conductivity                  | 482.8 | uS/cm |
| GN-AP-MW-29H | 2/26/2019 14:29 | DO                            | 0.55  | mg/L  |
| GN-AP-MW-29H | 2/26/2019 14:29 | Depth to Water Detail         | 7.37  | ft    |
| GN-AP-MW-29H | 2/26/2019 14:29 | Oxidation Reduction Potention | -32.5 | mv    |
| GN-AP-MW-29H | 2/26/2019 14:29 | pH                            | 8.63  | pH    |
| GN-AP-MW-29H | 2/26/2019 14:29 | Temperature                   | 18.59 | C     |
| GN-AP-MW-29H | 2/26/2019 14:29 | Turbidity                     | 25.8  | NTU   |
| GN-AP-MW-29H | 2/26/2019 14:34 | Conductivity                  | 483.2 | uS/cm |
| GN-AP-MW-29H | 2/26/2019 14:34 | DO                            | 0.55  | mg/L  |
| GN-AP-MW-29H | 2/26/2019 14:34 | Depth to Water Detail         | 7.83  | ft    |
| GN-AP-MW-29H | 2/26/2019 14:34 | Oxidation Reduction Potention | -30.7 | mv    |
| GN-AP-MW-29H | 2/26/2019 14:34 | pH                            | 8.63  | pH    |
| GN-AP-MW-29H | 2/26/2019 14:34 | Temperature                   | 18.57 | C     |
| GN-AP-MW-29H | 2/26/2019 14:34 | Turbidity                     | 21.4  | NTU   |
| GN-AP-MW-29H | 2/26/2019 14:39 | Conductivity                  | 483.3 | uS/cm |
| GN-AP-MW-29H | 2/26/2019 14:39 | DO                            | 0.56  | mg/L  |
| GN-AP-MW-29H | 2/26/2019 14:39 | Depth to Water Detail         | 8.15  | ft    |
| GN-AP-MW-29H | 2/26/2019 14:39 | Oxidation Reduction Potention | -30.5 | mv    |
| GN-AP-MW-29H | 2/26/2019 14:39 | pH                            | 8.63  | pH    |
| GN-AP-MW-29H | 2/26/2019 14:39 | Temperature                   | 18.7  | C     |
| GN-AP-MW-29H | 2/26/2019 14:39 | Turbidity                     | 20.2  | NTU   |
| GN-AP-MW-29H | 2/26/2019 14:44 | Conductivity                  | 482.7 | uS/cm |

**Alabama Power Company  
Plant Gaston Ash Pond**

| WELL ID      | READING TIME    | DESCRIPTION                   | VALUE  | UNIT  |
|--------------|-----------------|-------------------------------|--------|-------|
| GN-AP-MW-29H | 2/26/2019 14:44 | DO                            | 0.56   | mg/L  |
| GN-AP-MW-29H | 2/26/2019 14:44 | Depth to Water Detail         | 8.48   | ft    |
| GN-AP-MW-29H | 2/26/2019 14:44 | Oxidation Reduction Potention | -31.1  | mv    |
| GN-AP-MW-29H | 2/26/2019 14:44 | pH                            | 8.63   | pH    |
| GN-AP-MW-29H | 2/26/2019 14:44 | Temperature                   | 18.89  | C     |
| GN-AP-MW-29H | 2/26/2019 14:44 | Turbidity                     | 17.7   | NTU   |
| GN-AP-MW-29H | 2/26/2019 14:50 | Conductivity                  | 485.9  | uS/cm |
| GN-AP-MW-29H | 2/26/2019 14:50 | DO                            | 0.27   | mg/L  |
| GN-AP-MW-29H | 2/26/2019 14:50 | Depth to Water Detail         | 10.25  | ft    |
| GN-AP-MW-29H | 2/26/2019 14:50 | Oxidation Reduction Potention | -63.6  | mv    |
| GN-AP-MW-29H | 2/26/2019 14:50 | pH                            | 8.61   | pH    |
| GN-AP-MW-29H | 2/26/2019 14:50 | Temperature                   | 20.1   | C     |
| GN-AP-MW-29H | 2/26/2019 14:50 | Turbidity                     | 25.7   | NTU   |
| GN-AP-MW-29H | 2/26/2019 14:55 | Conductivity                  | 483.5  | uS/cm |
| GN-AP-MW-29H | 2/26/2019 14:55 | DO                            | 0.18   | mg/L  |
| GN-AP-MW-29H | 2/26/2019 14:55 | Depth to Water Detail         | 13.3   | ft    |
| GN-AP-MW-29H | 2/26/2019 14:55 | Oxidation Reduction Potention | -89    | mv    |
| GN-AP-MW-29H | 2/26/2019 14:55 | pH                            | 8.61   | pH    |
| GN-AP-MW-29H | 2/26/2019 14:55 | Temperature                   | 20.37  | C     |
| GN-AP-MW-29H | 2/26/2019 14:55 | Turbidity                     | 15.4   | NTU   |
| GN-AP-MW-29H | 2/26/2019 15:00 | Conductivity                  | 483    | uS/cm |
| GN-AP-MW-29H | 2/26/2019 15:00 | DO                            | 0.17   | mg/L  |
| GN-AP-MW-29H | 2/26/2019 15:00 | Depth to Water Detail         | 16.2   | ft    |
| GN-AP-MW-29H | 2/26/2019 15:00 | Oxidation Reduction Potention | -101.5 | mv    |
| GN-AP-MW-29H | 2/26/2019 15:00 | pH                            | 8.6    | pH    |
| GN-AP-MW-29H | 2/26/2019 15:00 | Temperature                   | 20.51  | C     |
| GN-AP-MW-29H | 2/26/2019 15:00 | Turbidity                     | 11.9   | NTU   |
| GN-AP-MW-29H | 2/26/2019 15:05 | Conductivity                  | 484.6  | uS/cm |
| GN-AP-MW-29H | 2/26/2019 15:05 | DO                            | 0.18   | mg/L  |
| GN-AP-MW-29H | 2/26/2019 15:05 | Depth to Water Detail         | 19.65  | ft    |
| GN-AP-MW-29H | 2/26/2019 15:05 | Oxidation Reduction Potention | -100.7 | mv    |
| GN-AP-MW-29H | 2/26/2019 15:05 | pH                            | 8.6    | pH    |
| GN-AP-MW-29H | 2/26/2019 15:05 | Temperature                   | 20.46  | C     |
| GN-AP-MW-29H | 2/26/2019 15:05 | Turbidity                     | 13.1   | NTU   |
| GN-AP-MW-29H | 2/26/2019 15:10 | Conductivity                  | 485.6  | uS/cm |
| GN-AP-MW-29H | 2/26/2019 15:10 | DO                            | 0.19   | mg/L  |
| GN-AP-MW-29H | 2/26/2019 15:10 | Depth to Water Detail         | 22.43  | ft    |
| GN-AP-MW-29H | 2/26/2019 15:10 | Oxidation Reduction Potention | -99.5  | mv    |
| GN-AP-MW-29H | 2/26/2019 15:10 | pH                            | 8.6    | pH    |
| GN-AP-MW-29H | 2/26/2019 15:10 | Temperature                   | 20.5   | C     |
| GN-AP-MW-29H | 2/26/2019 15:10 | Turbidity                     | 15.3   | NTU   |
| GN-AP-MW-29H | 2/26/2019 15:15 | Conductivity                  | 486.2  | uS/cm |
| GN-AP-MW-29H | 2/26/2019 15:15 | DO                            | 0.21   | mg/L  |
| GN-AP-MW-29H | 2/26/2019 15:15 | Depth to Water Detail         | 25.28  | ft    |
| GN-AP-MW-29H | 2/26/2019 15:15 | Oxidation Reduction Potention | -99.2  | mv    |
| GN-AP-MW-29H | 2/26/2019 15:15 | pH                            | 8.59   | pH    |

**Alabama Power Company  
Plant Gaston Ash Pond**

| WELL ID      | READING TIME    | DESCRIPTION                   | VALUE  | UNIT  |
|--------------|-----------------|-------------------------------|--------|-------|
| GN-AP-MW-29H | 2/26/2019 15:15 | Temperature                   | 20.54  | C     |
| GN-AP-MW-29H | 2/26/2019 15:15 | Turbidity                     | 15     | NTU   |
| GN-AP-MW-29H | 2/26/2019 15:20 | Conductivity                  | 487.1  | uS/cm |
| GN-AP-MW-29H | 2/26/2019 15:20 | DO                            | 0.22   | mg/L  |
| GN-AP-MW-29H | 2/26/2019 15:20 | Depth to Water Detail         | 27.75  | ft    |
| GN-AP-MW-29H | 2/26/2019 15:20 | Oxidation Reduction Potention | -98.7  | mv    |
| GN-AP-MW-29H | 2/26/2019 15:20 | pH                            | 8.59   | pH    |
| GN-AP-MW-29H | 2/26/2019 15:20 | Temperature                   | 20.55  | C     |
| GN-AP-MW-29H | 2/26/2019 15:20 | Turbidity                     | 16     | NTU   |
| GN-AP-MW-29H | 2/26/2019 15:25 | Conductivity                  | 487.8  | uS/cm |
| GN-AP-MW-29H | 2/26/2019 15:25 | DO                            | 0.24   | mg/L  |
| GN-AP-MW-29H | 2/26/2019 15:25 | Depth to Water Detail         | 30.92  | ft    |
| GN-AP-MW-29H | 2/26/2019 15:25 | Oxidation Reduction Potention | -96.7  | mv    |
| GN-AP-MW-29H | 2/26/2019 15:25 | pH                            | 8.59   | pH    |
| GN-AP-MW-29H | 2/26/2019 15:25 | Temperature                   | 20.55  | C     |
| GN-AP-MW-29H | 2/26/2019 15:25 | Turbidity                     | 16.9   | NTU   |
| GN-AP-MW-29H | 2/26/2019 15:30 | Conductivity                  | 488.1  | uS/cm |
| GN-AP-MW-29H | 2/26/2019 15:30 | DO                            | 0.25   | mg/L  |
| GN-AP-MW-29H | 2/26/2019 15:30 | Depth to Water Detail         | 33     | ft    |
| GN-AP-MW-29H | 2/26/2019 15:30 | Oxidation Reduction Potention | -98.9  | mv    |
| GN-AP-MW-29H | 2/26/2019 15:30 | pH                            | 8.59   | pH    |
| GN-AP-MW-29H | 2/26/2019 15:30 | Temperature                   | 20.57  | C     |
| GN-AP-MW-29H | 2/26/2019 15:30 | Turbidity                     | 20.4   | NTU   |
| GN-AP-MW-29H | 2/26/2019 15:35 | Conductivity                  | 488.7  | uS/cm |
| GN-AP-MW-29H | 2/26/2019 15:35 | DO                            | 0.25   | mg/L  |
| GN-AP-MW-29H | 2/26/2019 15:35 | Depth to Water Detail         | 35.5   | ft    |
| GN-AP-MW-29H | 2/26/2019 15:35 | Oxidation Reduction Potention | -97.3  | mv    |
| GN-AP-MW-29H | 2/26/2019 15:35 | pH                            | 8.59   | pH    |
| GN-AP-MW-29H | 2/26/2019 15:35 | Temperature                   | 20.59  | C     |
| GN-AP-MW-29H | 2/26/2019 15:35 | Turbidity                     | 21     | NTU   |
| GN-AP-MW-29H | 2/26/2019 15:40 | Conductivity                  | 488.8  | uS/cm |
| GN-AP-MW-29H | 2/26/2019 15:40 | DO                            | 0.26   | mg/L  |
| GN-AP-MW-29H | 2/26/2019 15:40 | Depth to Water Detail         | 38.07  | ft    |
| GN-AP-MW-29H | 2/26/2019 15:40 | Oxidation Reduction Potention | -98.9  | mv    |
| GN-AP-MW-29H | 2/26/2019 15:40 | pH                            | 8.59   | pH    |
| GN-AP-MW-29H | 2/26/2019 15:40 | Temperature                   | 20.59  | C     |
| GN-AP-MW-29H | 2/26/2019 15:40 | Turbidity                     | 23.4   | NTU   |
| GN-AP-MW-29H | 2/26/2019 15:45 | Conductivity                  | 489.2  | uS/cm |
| GN-AP-MW-29H | 2/26/2019 15:45 | DO                            | 0.27   | mg/L  |
| GN-AP-MW-29H | 2/26/2019 15:45 | Depth to Water Detail         | 40.5   | ft    |
| GN-AP-MW-29H | 2/26/2019 15:45 | Oxidation Reduction Potention | -101.1 | mv    |
| GN-AP-MW-29H | 2/26/2019 15:45 | pH                            | 8.59   | pH    |
| GN-AP-MW-29H | 2/26/2019 15:45 | Temperature                   | 20.58  | C     |
| GN-AP-MW-29H | 2/26/2019 15:45 | Turbidity                     | 24.1   | NTU   |
| GN-AP-MW-29H | 2/26/2019 15:50 | Conductivity                  | 487.3  | uS/cm |
| GN-AP-MW-29H | 2/26/2019 15:50 | DO                            | 0.55   | mg/L  |

**Alabama Power Company  
Plant Gaston Ash Pond**

| WELL ID      | READING TIME    | DESCRIPTION                   | VALUE  | UNIT  |
|--------------|-----------------|-------------------------------|--------|-------|
| GN-AP-MW-29H | 2/26/2019 15:50 | Depth to Water Detail         | 40.62  | ft    |
| GN-AP-MW-29H | 2/26/2019 15:50 | Oxidation Reduction Potention | -66.7  | mv    |
| GN-AP-MW-29H | 2/26/2019 15:50 | pH                            | 8.6    | pH    |
| GN-AP-MW-29H | 2/26/2019 15:50 | Temperature                   | 20.14  | C     |
| GN-AP-MW-29H | 2/26/2019 15:50 | Turbidity                     | 24.8   | NTU   |
| GN-AP-MW-29H | 2/26/2019 15:55 | Conductivity                  | 484.5  | uS/cm |
| GN-AP-MW-29H | 2/26/2019 15:55 | DO                            | 0.59   | mg/L  |
| GN-AP-MW-29H | 2/26/2019 15:55 | Depth to Water Detail         | 40.42  | ft    |
| GN-AP-MW-29H | 2/26/2019 15:55 | Oxidation Reduction Potention | -57.8  | mv    |
| GN-AP-MW-29H | 2/26/2019 15:55 | pH                            | 8.6    | pH    |
| GN-AP-MW-29H | 2/26/2019 15:55 | Temperature                   | 19.77  | C     |
| GN-AP-MW-29H | 2/26/2019 15:55 | Turbidity                     | 14.6   | NTU   |
| GN-AP-MW-29H | 2/26/2019 16:00 | Conductivity                  | 481    | uS/cm |
| GN-AP-MW-29H | 2/26/2019 16:00 | DO                            | 0.57   | mg/L  |
| GN-AP-MW-29H | 2/26/2019 16:00 | Depth to Water Detail         | 40.32  | ft    |
| GN-AP-MW-29H | 2/26/2019 16:00 | Oxidation Reduction Potention | -111   | mv    |
| GN-AP-MW-29H | 2/26/2019 16:00 | pH                            | 8.61   | pH    |
| GN-AP-MW-29H | 2/26/2019 16:00 | Temperature                   | 19.75  | C     |
| GN-AP-MW-29H | 2/26/2019 16:00 | Turbidity                     | 8.55   | NTU   |
| GN-AP-MW-29H | 2/26/2019 16:05 | Conductivity                  | 480.8  | uS/cm |
| GN-AP-MW-29H | 2/26/2019 16:05 | DO                            | 0.58   | mg/L  |
| GN-AP-MW-29H | 2/26/2019 16:05 | Depth to Water Detail         | 40.07  | ft    |
| GN-AP-MW-29H | 2/26/2019 16:05 | Oxidation Reduction Potention | -130.1 | mv    |
| GN-AP-MW-29H | 2/26/2019 16:05 | pH                            | 8.6    | pH    |
| GN-AP-MW-29H | 2/26/2019 16:05 | Temperature                   | 19.72  | C     |
| GN-AP-MW-29H | 2/26/2019 16:05 | Turbidity                     | 6.72   | NTU   |
| GN-AP-MW-29H | 2/26/2019 16:10 | Conductivity                  | 481.9  | uS/cm |
| GN-AP-MW-29H | 2/26/2019 16:10 | DO                            | 0.59   | mg/L  |
| GN-AP-MW-29H | 2/26/2019 16:10 | Depth to Water Detail         | 39.89  | ft    |
| GN-AP-MW-29H | 2/26/2019 16:10 | Oxidation Reduction Potention | -127.6 | mv    |
| GN-AP-MW-29H | 2/26/2019 16:10 | pH                            | 8.61   | pH    |
| GN-AP-MW-29H | 2/26/2019 16:10 | Temperature                   | 19.77  | C     |
| GN-AP-MW-29H | 2/26/2019 16:10 | Turbidity                     | 8.51   | 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***



## **E.C. Gaston 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).

Due to low yield, wells MW-1, MW-8 and MW-9 were sampled using the Minimal Purge Method, defined in the Plant Gaston Ash Pond SAP.

Suspected iron bacteria present while pumping well MW-12.

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 :** WMWGASAP\_1214  
**Project/Site :** Gaston Ash Pond  
Wilsonville, AL 35186  
**For :** Southern Company Services  
3535 Colonnade Parkway  
Birmingham, AL 35243  
**Attention :** Dustin Brooks, Greg Dyer, & Lauren Parker  
**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: 2019.05.31 16:41:28 -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: 2019.06.02 16:09:52 -0500





Metals ICP

Gaston Ash Pond

WMWGASAP\_1214

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> |
|------------------|-----------------|-------------------|
| AZ08760          | 644250          | WMWGASAP_1214     |
| AZ08761          | 644250          | WMWGASAP_1214     |
| AZ08762          | 644250          | WMWGASAP_1214     |
| AZ08763          | 644250          | WMWGASAP_1214     |
| AZ08764          | 644250          | WMWGASAP_1214     |
| AZ08765          | 644250          | WMWGASAP_1214     |
| AZ08766          | 644250          | WMWGASAP_1214     |
| AZ08767          | 644250          | WMWGASAP_1214     |
| AZ08768          | 644250          | WMWGASAP_1214     |
| AZ08769          | 644250          | WMWGASAP_1214     |
| AZ08770          | 644251          | WMWGASAP_1214     |
| AZ08771          | 644251          | WMWGASAP_1214     |
| AZ08772          | 644251          | WMWGASAP_1214     |
| AZ08773          | 644251          | WMWGASAP_1214     |
| AZ08774          | 644251          | WMWGASAP_1214     |
| AZ08775          | 644251          | WMWGASAP_1214     |
| AZ08776          | 644251          | WMWGASAP_1214     |
| AZ08777          | 644251          | WMWGASAP_1214     |
| AZ08778          | 644251          | WMWGASAP_1214     |
| AZ08779          | 644251          | WMWGASAP_1214     |
| AZ08780          | 644252          | WMWGASAP_1214     |
| AZ08781          | 644252          | WMWGASAP_1214     |
| AZ08782          | 644252          | WMWGASAP_1214     |
| AZ08783          | 644252          | WMWGASAP_1214     |
| AZ08784          | 644252          | WMWGASAP_1214     |
| AZ08785          | 644252          | WMWGASAP_1214     |
| AZ08786          | 644252          | WMWGASAP_1214     |
| AZ08787          | 644252          | WMWGASAP_1214     |
| AZ08788          | 644252          | WMWGASAP_1214     |



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. 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> |
|------------------|----------------|------------------------|
| AZ08762          | Calcium        | x10.15                 |
| AZ08766          | Calcium        | x10.15                 |
| AZ08771          | Calcium        | x10.15                 |
| AZ08772          | Calcium        | x10.15                 |
| AZ08773          | Calcium        | x10.15                 |
| AZ08776          | Calcium        | x10.15                 |

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



Metals ICPMS

Gaston Ash Pond

WMWGASAP\_1214

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> |
|------------------|-----------------|-------------------|
| AZ08760          | 643324          | WMWGASAP_1214     |
| AZ08761          | 643324          | WMWGASAP_1214     |
| AZ08762          | 643324          | WMWGASAP_1214     |
| AZ08763          | 643324          | WMWGASAP_1214     |
| AZ08764          | 643324          | WMWGASAP_1214     |
| AZ08765          | 643324          | WMWGASAP_1214     |
| AZ08766          | 643324          | WMWGASAP_1214     |
| AZ08767          | 643324          | WMWGASAP_1214     |
| AZ08768          | 643324          | WMWGASAP_1214     |
| AZ08769          | 643324          | WMWGASAP_1214     |
| AZ08770          | 643325          | WMWGASAP_1214     |
| AZ08771          | 643325          | WMWGASAP_1214     |
| AZ08772          | 643325          | WMWGASAP_1214     |
| AZ08773          | 643325          | WMWGASAP_1214     |
| AZ08774          | 643325          | WMWGASAP_1214     |
| AZ08775          | 643325          | WMWGASAP_1214     |
| AZ08776          | 643325          | WMWGASAP_1214     |
| AZ08777          | 643325          | WMWGASAP_1214     |
| AZ08778          | 643325          | WMWGASAP_1214     |
| AZ08779          | 643325          | WMWGASAP_1214     |
| AZ08780          | 643326          | WMWGASAP_1214     |
| AZ08781          | 643326          | WMWGASAP_1214     |
| AZ08782          | 643326          | WMWGASAP_1214     |
| AZ08783          | 643326          | WMWGASAP_1214     |
| AZ08784          | 643326          | WMWGASAP_1214     |
| AZ08785          | 643326          | WMWGASAP_1214     |
| AZ08786          | 643326          | WMWGASAP_1214     |
| AZ08787          | 643326          | WMWGASAP_1214     |
| AZ08788          | 643326          | WMWGASAP_1214     |



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

Gaston Ash Pond

WMWGASAP\_1214

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> |
|------------------|-----------------|-------------------|
| AZ08760          | 644035          | WMWGASAP_1214     |
| AZ08761          | 644035          | WMWGASAP_1214     |
| AZ08762          | 644035          | WMWGASAP_1214     |
| AZ08763          | 644035          | WMWGASAP_1214     |
| AZ08764          | 644035          | WMWGASAP_1214     |
| AZ08765          | 644035          | WMWGASAP_1214     |
| AZ08766          | 644035          | WMWGASAP_1214     |
| AZ08767          | 644035          | WMWGASAP_1214     |
| AZ08768          | 644035          | WMWGASAP_1214     |
| AZ08769          | 644035          | WMWGASAP_1214     |
| AZ08770          | 644036          | WMWGASAP_1214     |
| AZ08771          | 644036          | WMWGASAP_1214     |
| AZ08772          | 644036          | WMWGASAP_1214     |
| AZ08773          | 644036          | WMWGASAP_1214     |
| AZ08774          | 644036          | WMWGASAP_1214     |
| AZ08775          | 644036          | WMWGASAP_1214     |
| AZ08776          | 644036          | WMWGASAP_1214     |
| AZ08777          | 644036          | WMWGASAP_1214     |
| AZ08778          | 644036          | WMWGASAP_1214     |
| AZ08779          | 644036          | WMWGASAP_1214     |
| AZ08780          | 644037          | WMWGASAP_1214     |
| AZ08781          | 644037          | WMWGASAP_1214     |
| AZ08782          | 644037          | WMWGASAP_1214     |
| AZ08783          | 644037          | WMWGASAP_1214     |
| AZ08784          | 644037          | WMWGASAP_1214     |
| AZ08785          | 644037          | WMWGASAP_1214     |
| AZ08786          | 644037          | WMWGASAP_1214     |
| AZ08787          | 644037          | WMWGASAP_1214     |
| AZ08788          | 644037          | WMWGASAP_1214     |



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

Gaston Ash Pond

WMWGASAP\_1214

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> |
|------------------|-----------------|-------------------|
| AZ08760          | 643843          | WMWGASAP_1214     |
| AZ08761          | 643843          | WMWGASAP_1214     |
| AZ08762          | 643843          | WMWGASAP_1214     |
| AZ08763          | 643843          | WMWGASAP_1214     |
| AZ08764          | 643843          | WMWGASAP_1214     |
| AZ08765          | 643843          | WMWGASAP_1214     |
| AZ08766          | 643843          | WMWGASAP_1214     |
| AZ08767          | 643843          | WMWGASAP_1214     |
| AZ08768          | 643843          | WMWGASAP_1214     |
| AZ08769          | 643843          | WMWGASAP_1214     |
| AZ08770          | 643844          | WMWGASAP_1214     |
| AZ08771          | 643844          | WMWGASAP_1214     |
| AZ08772          | 643844          | WMWGASAP_1214     |
| AZ08773          | 643844          | WMWGASAP_1214     |
| AZ08774          | 643844          | WMWGASAP_1214     |
| AZ08775          | 643844          | WMWGASAP_1214     |
| AZ08776          | 643844          | WMWGASAP_1214     |
| AZ08777          | 643844          | WMWGASAP_1214     |
| AZ08778          | 643844          | WMWGASAP_1214     |
| AZ08779          | 643844          | WMWGASAP_1214     |
| AZ08780          | 643508          | WMWGASAP_1214     |
| AZ08781          | 643508          | WMWGASAP_1214     |
| AZ08782          | 643508          | WMWGASAP_1214     |
| AZ08783          | 643508          | WMWGASAP_1214     |
| AZ08784          | 643508          | WMWGASAP_1214     |
| AZ08785          | 643508          | WMWGASAP_1214     |
| AZ08786          | 643508          | WMWGASAP_1214     |
| AZ08787          | 643508          | WMWGASAP_1214     |
| AZ08788          | 643508          | WMWGASAP_1214     |





4. All of the above samples were analyzed by Standard Method 2540C.
5. All samples were analyzed within the established hold times, except for the following:  
AZ08780 and AZ08781 were filtered one day past the established hold time.
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:
  - AZ08770
  - AZ08777
  - AZ08781
  - AZ08785



Anions

Gaston Ash Pond

WMWGASAP\_1214

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> |
|------------------|--------------------------|-------------------|
| AZ08760          | 643539, 643542, & 643462 | WMWGASAP_1214     |
| AZ08761          | 643539, 643542, & 643462 | WMWGASAP_1214     |
| AZ08762          | 643539, 643542, & 643462 | WMWGASAP_1214     |
| AZ08763          | 643539, 643542, & 643462 | WMWGASAP_1214     |
| AZ08764          | 643539, 643542, & 643462 | WMWGASAP_1214     |
| AZ08765          | 643539, 643542, & 643462 | WMWGASAP_1214     |
| AZ08766          | 643539, 643542, & 643462 | WMWGASAP_1214     |
| AZ08767          | 643539, 643542, & 643462 | WMWGASAP_1214     |
| AZ08768          | 643539, 643542, & 643462 | WMWGASAP_1214     |
| AZ08769          | 643539, 643542, & 643462 | WMWGASAP_1214     |
| AZ08770          | 643540, 643543, & 643463 | WMWGASAP_1214     |
| AZ08771          | 643540, 643543, & 643463 | WMWGASAP_1214     |
| AZ08772          | 643540, 643543, & 643463 | WMWGASAP_1214     |
| AZ08773          | 643540, 643543, & 643463 | WMWGASAP_1214     |
| AZ08774          | 643540, 643543, & 643463 | WMWGASAP_1214     |
| AZ08775          | 643540, 643543, & 643463 | WMWGASAP_1214     |
| AZ08776          | 643540, 643543, & 643463 | WMWGASAP_1214     |
| AZ08777          | 643540, 643543, & 643463 | WMWGASAP_1214     |
| AZ08778          | 643540, 643543, & 643463 | WMWGASAP_1214     |
| AZ08779          | 643540, 643543, & 643463 | WMWGASAP_1214     |
| AZ08780          | 643541, 643544, & 643464 | WMWGASAP_1214     |
| AZ08781          | 643541, 643544, & 643464 | WMWGASAP_1214     |
| AZ08782          | 643541, 643544, & 643464 | WMWGASAP_1214     |
| AZ08783          | 643541, 643544, & 643464 | WMWGASAP_1214     |
| AZ08784          | 643541, 643544, & 643464 | WMWGASAP_1214     |
| AZ08785          | 643541, 643544, & 643464 | WMWGASAP_1214     |
| AZ08786          | 643541, 643544, & 643464 | WMWGASAP_1214     |
| AZ08787          | 643541, 643544, & 643464 | WMWGASAP_1214     |
| AZ08788          | 643541, 643544, & 643464 | WMWGASAP_1214     |



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> |
|------------------|----------------|------------------------|
| AZ08762          | Sulfate        | x32                    |
| AZ08763          | Chloride       | x4                     |
| AZ08763          | Sulfate        | x32                    |
| AZ08764          | Chloride       | x4                     |
| AZ08764          | Sulfate        | x32                    |
| AZ08765          | Chloride       | x2                     |
| AZ08765          | Sulfate        | x32                    |
| AZ08766          | Chloride       | x4                     |
| AZ08766          | Sulfate        | x32                    |
| AZ08767          | Chloride       | x3                     |
| AZ08767          | Sulfate        | x10                    |
| AZ08771          | Sulfate        | x40                    |
| AZ08772          | Sulfate        | x20                    |
| AZ08773          | Chloride       | x3                     |
| AZ08773          | Sulfate        | x20                    |
| AZ08774          | Sulfate        | x20                    |
| AZ08775          | Sulfate        | x20                    |
| AZ08776          | Chloride       | x10                    |
| AZ08776          | Sulfate        | x20                    |
| AZ08782          | Sulfate        | x3                     |
| AZ08784          | Sulfate        | x4                     |
| AZ08786          | 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  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 01-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-19

Laboratory ID Number: AZ08760

| Name                                  | Analyst | Test Date | Reference   | Vio Spec | DF    | MDL    | RL     | Q Results      | Units |
|---------------------------------------|---------|-----------|-------------|----------|-------|--------|--------|----------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |             |          |       |        |        |                |       |
| * Arsenic, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | J 0.00240      | mg/L  |
| * Barium, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 0.0188         | mg/L  |
| * Beryllium, Total                    | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0006 | 0.003  | U Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.03   | 0.1    | U Not Detected | mg/L  |
| * Calcium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.1    | 0.5    | 45.6           | mg/L  |
| * Cadmium, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0003 | 0.001  | U Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0008 | 0.003  | J 0.00123      | mg/L  |
| * Cobalt, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.005  | U Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 4/17/2019 | EPA 245.1   |          | 1     | 0.0003 | 0.0005 | U Not Detected | mg/L  |
| * Lithium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.01   | 0.02   | U Not Detected | mg/L  |
| * Molybdenum, Total                   | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 0.0132         | mg/L  |
| * Lead, Total                         | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Selenium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0002 | 0.001  | U Not Detected | mg/L  |
| <b>General Characteristics</b>        |         |           |             |          |       |        |        |                |       |
| * Solids, Dissolved                   | CRB     | 4/11/2019 | SM 2540C    |          | 1     |        | 25     | 225            | mg/L  |
| Filter Completion Date                | CRB     | 4/8/2019  | SM 2540C    |          | 1     |        |        | 04/08/2019     | Date  |
| * Chloride                            | JCC     | 4/9/2019  | SM4500Cl E  |          | 1     | 0.50   | 1      | 11.9           | mg/L  |
| * Fluoride                            | JCC     | 4/9/2019  | SM4500F C   |          | 1     | 0.05   | 0.1    | J 0.0563       | mg/L  |
| * Sulfate                             | JCC     | 4/8/2019  | SM4500SO4 E |          | 1     | 0.50   | 1      | 24.4           | mg/L  |
| <b>Field Measurements</b>             |         |           |             |          |       |        |        |                |       |
| pH                                    | BTR     | 4/1/2019  |             |          |       |        |        | FA 7.58        | 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) 664-6032 or 6171  
 FAX (205) 257-1654

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 01-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-19

Laboratory ID Number: AZ08760

| Sample  | Analysis               | Units | MB          |         | Spike | MS      | MSD     | LCS     | LCS              |     | Rec   |           | Prec  | Limit |
|---------|------------------------|-------|-------------|---------|-------|---------|---------|---------|------------------|-----|-------|-----------|-------|-------|
|         |                        |       | MB          | Limit   |       |         |         |         | Limit            | Rec | Limit | Prec      |       |       |
| AZ08769 | Mercury, Total by CVAA | mg/L  | 0.0000120   | 0.0005  | 0.004 | 0.00396 | 0.00395 | 0.00381 | 0.0034 to 0.0046 |     | 98.9  | 70 to 130 | 0.276 | 20    |
| AZ08769 | Arsenic, Total         | mg/L  | 0.0000129   | 0.0022  | 0.10  | 0.0976  | 0.0973  | 0.101   | 0.085 to 0.115   |     | 97.6  | 70 to 130 | 0.320 | 20    |
| AZ08769 | Barium, Total          | mg/L  | 0.00000645  | 0.0044  | 0.10  | 0.105   | 0.104   | 0.0989  | 0.085 to 0.115   |     | 98.6  | 70 to 130 | 0.570 | 20    |
| AZ08769 | Cadmium, Total         | mg/L  | -0.00000085 | 0.00066 | 0.10  | 0.0999  | 0.0981  | 0.0989  | 0.085 to 0.115   |     | 99.9  | 70 to 130 | 1.81  | 20    |
| AZ08769 | Selenium, Total        | mg/L  | 0.0000521   | 0.0044  | 0.10  | 0.0996  | 0.102   | 0.106   | 0.085 to 0.115   |     | 99.6  | 70 to 130 | 2.50  | 20    |
| AZ08769 | Beryllium, Total       | mg/L  | 0.0000276   | 0.00132 | 0.10  | 0.103   | 0.102   | 0.101   | 0.085 to 0.115   |     | 103   | 70 to 130 | 0.537 | 20    |
| AZ08769 | Chromium, Total        | mg/L  | 0.0000103   | 0.0044  | 0.10  | 0.100   | 0.0983  | 0.0996  | 0.085 to 0.115   |     | 100   | 70 to 130 | 1.95  | 20    |
| AZ08769 | Lithium, Total         | mg/L  | 0.0000223   | 0.022   | 0.20  | 0.208   | 0.205   | 0.201   | 0.17 to 0.23     |     | 104   | 70 to 130 | 1.60  | 20    |
| AZ08769 | Boron, Total           | mg/L  | 0.00143     | 0.044   | 1.00  | 0.998   | 0.988   | 1.00    | 0.85 to 1.15     |     | 99.8  | 70 to 130 | 1.06  | 20    |
| AZ08769 | Calcium, Total         | mg/L  | -0.000112   | 0.22    | 5.00  | 36.7    | 36.6    | 5.22    | 4.25 to 5.75     |     | 103   | 70 to 130 | 0.483 | 20    |
| AZ08769 | Lead, Total            | mg/L  | 0.00000474  | 0.0022  | 0.10  | 0.109   | 0.108   | 0.106   | 0.085 to 0.115   |     | 109   | 70 to 130 | 0.870 | 20    |
| AZ08769 | Cobalt, Total          | mg/L  | -0.00000276 | 0.0044  | 0.10  | 0.103   | 0.105   | 0.101   | 0.085 to 0.115   |     | 103   | 70 to 130 | 1.34  | 20    |
| AZ08769 | Molybdenum, Total      | mg/L  | 0.00000377  | 0.0044  | 0.10  | 0.110   | 0.112   | 0.101   | 0.085 to 0.115   |     | 103   | 70 to 130 | 1.34  | 20    |
| AZ08769 | Antimony, Total        | mg/L  | 0.000176    | 0.00176 | 0.10  | 0.0929  | 0.0925  | 0.0954  | 0.085 to 0.115   |     | 92.9  | 70 to 130 | 0.483 | 20    |
| AZ08769 | Thallium, Total        | mg/L  | 0.00000236  | 0.00044 | 0.10  | 0.108   | 0.105   | 0.106   | 0.085 to 0.115   |     | 108   | 70 to 130 | 2.28  | 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:**

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

## Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 01-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-19

Laboratory ID Number: AZ08760

| Sample  | Analysis          | Units | MB      | MB    |       |      | Sample    |      | LCS          | Rec  |           | Prec  |       |
|---------|-------------------|-------|---------|-------|-------|------|-----------|------|--------------|------|-----------|-------|-------|
|         |                   |       |         | Limit | Spike | MS   | Duplicate | LCS  | Limit        | Rec  | Limit     | Prec  | Limit |
| AZ08769 | Fluoride          | mg/L  | 0.0281  | 0.05  | 2.50  | 2.61 | 0.0437    | 2.52 | 2.25 to 2.75 | 104  | 80 to 120 | 0.00  | 20    |
| AZ08769 | Solids, Dissolved | mg/L  | 0.0000  | 25    |       |      | 139       | 56.0 | 40 to 60     |      |           | 0.358 | 5     |
| AZ08769 | Chloride          | mg/L  | -0.0563 | 0.50  | 10.0  | 12.1 | 1.63      | 9.71 | 9 to 11      | 104  | 80 to 120 | 1.22  | 20    |
| AZ08769 | Sulfate           | mg/L  | -0.120  | 0.50  | 20.0  | 22.5 | 3.18      | 19.8 | 18 to 22     | 96.3 | 80 to 120 | 1.87  | 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) 664-6032 or 6171  
 FAX (205) 257-1654

# Certificate Of Analysis Alabama Power



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 01-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-2

Laboratory ID Number: AZ08761

| Name                                  | Analyst | Test Date | Reference   | Vio Spec | DF    | MDL    | RL     | Q Results      | Units |
|---------------------------------------|---------|-----------|-------------|----------|-------|--------|--------|----------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |             |          |       |        |        |                |       |
| * Arsenic, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Barium, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 0.0116         | mg/L  |
| * Beryllium, Total                    | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0006 | 0.003  | U Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.03   | 0.1    | U Not Detected | mg/L  |
| * Calcium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.1    | 0.5    | 35.8           | mg/L  |
| * Cadmium, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0003 | 0.001  | U Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0008 | 0.003  | J 0.000946     | mg/L  |
| * Cobalt, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.005  | U Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 4/17/2019 | EPA 245.1   |          | 1     | 0.0003 | 0.0005 | U Not Detected | mg/L  |
| * Lithium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.01   | 0.02   | U Not Detected | mg/L  |
| * Molybdenum, Total                   | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Lead, Total                         | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Selenium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0002 | 0.001  | U Not Detected | mg/L  |
| <b>General Characteristics</b>        |         |           |             |          |       |        |        |                |       |
| * Solids, Dissolved                   | CRB     | 4/11/2019 | SM 2540C    |          | 1     |        | 25     | 160            | mg/L  |
| Filter Completion Date                | CRB     | 4/8/2019  | SM 2540C    |          | 1     |        |        | 04/08/2019     | Date  |
| * Chloride                            | JCC     | 4/9/2019  | SM4500Cl E  |          | 1     | 0.50   | 1      | 1.36           | mg/L  |
| * Fluoride                            | JCC     | 4/9/2019  | SM4500F C   |          | 1     | 0.05   | 0.1    | U Not Detected | mg/L  |
| * Sulfate                             | JCC     | 4/8/2019  | SM4500SO4 E |          | 1     | 0.50   | 1      | 1.87           | mg/L  |
| <b>Field Measurements</b>             |         |           |             |          |       |        |        |                |       |
| pH                                    | BTR     | 4/1/2019  |             |          |       |        |        | FA 7.76        | 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) 664-6032 or 6171  
 FAX (205) 257-1654

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 01-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-2

Laboratory ID Number: AZ08761

| Sample  | Analysis               | Units | MB          |         | Spike | MS      | MSD     | LCS     | LCS              |      | Rec       |       | Prec Limit |
|---------|------------------------|-------|-------------|---------|-------|---------|---------|---------|------------------|------|-----------|-------|------------|
|         |                        |       | MB          | Limit   |       |         |         |         | Limit            | Rec  | Limit     | Prec  |            |
| AZ08769 | Arsenic, Total         | mg/L  | 0.0000129   | 0.0022  | 0.10  | 0.0976  | 0.0973  | 0.101   | 0.085 to 0.115   | 97.6 | 70 to 130 | 0.320 | 20         |
| AZ08769 | Barium, Total          | mg/L  | 0.00000645  | 0.0044  | 0.10  | 0.105   | 0.104   | 0.0989  | 0.085 to 0.115   | 98.6 | 70 to 130 | 0.570 | 20         |
| AZ08769 | Mercury, Total by CVAA | mg/L  | 0.0000120   | 0.0005  | 0.004 | 0.00396 | 0.00395 | 0.00381 | 0.0034 to 0.0046 | 98.9 | 70 to 130 | 0.276 | 20         |
| AZ08769 | Cadmium, Total         | mg/L  | -0.00000085 | 0.00066 | 0.10  | 0.0999  | 0.0981  | 0.0989  | 0.085 to 0.115   | 99.9 | 70 to 130 | 1.81  | 20         |
| AZ08769 | Selenium, Total        | mg/L  | 0.0000521   | 0.0044  | 0.10  | 0.0996  | 0.102   | 0.106   | 0.085 to 0.115   | 99.6 | 70 to 130 | 2.50  | 20         |
| AZ08769 | Boron, Total           | mg/L  | 0.00143     | 0.044   | 1.00  | 0.998   | 0.988   | 1.00    | 0.85 to 1.15     | 99.8 | 70 to 130 | 1.06  | 20         |
| AZ08769 | Calcium, Total         | mg/L  | -0.000112   | 0.22    | 5.00  | 36.7    | 36.6    | 5.22    | 4.25 to 5.75     | 103  | 70 to 130 | 0.483 | 20         |
| AZ08769 | Lead, Total            | mg/L  | 0.00000474  | 0.0022  | 0.10  | 0.109   | 0.108   | 0.106   | 0.085 to 0.115   | 109  | 70 to 130 | 0.870 | 20         |
| AZ08769 | Beryllium, Total       | mg/L  | 0.0000276   | 0.00132 | 0.10  | 0.103   | 0.102   | 0.101   | 0.085 to 0.115   | 103  | 70 to 130 | 0.537 | 20         |
| AZ08769 | Chromium, Total        | mg/L  | 0.0000103   | 0.0044  | 0.10  | 0.100   | 0.0983  | 0.0996  | 0.085 to 0.115   | 100  | 70 to 130 | 1.95  | 20         |
| AZ08769 | Lithium, Total         | mg/L  | 0.0000223   | 0.022   | 0.20  | 0.208   | 0.205   | 0.201   | 0.17 to 0.23     | 104  | 70 to 130 | 1.60  | 20         |
| AZ08769 | Cobalt, Total          | mg/L  | -0.00000276 | 0.0044  | 0.10  | 0.103   | 0.105   | 0.101   | 0.085 to 0.115   | 103  | 70 to 130 | 1.34  | 20         |
| AZ08769 | Molybdenum, Total      | mg/L  | 0.00000377  | 0.0044  | 0.10  | 0.110   | 0.112   | 0.101   | 0.085 to 0.115   | 103  | 70 to 130 | 1.34  | 20         |
| AZ08769 | Antimony, Total        | mg/L  | 0.000176    | 0.00176 | 0.10  | 0.0929  | 0.0925  | 0.0954  | 0.085 to 0.115   | 92.9 | 70 to 130 | 0.483 | 20         |
| AZ08769 | Thallium, Total        | mg/L  | 0.00000236  | 0.00044 | 0.10  | 0.108   | 0.105   | 0.106   | 0.085 to 0.115   | 108  | 70 to 130 | 2.28  | 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) 664-6032 or 6171  
 FAX (205) 257-1654

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 01-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-2

Laboratory ID Number: AZ08761

| Sample  | Analysis          | Units | MB      | MB Limit | Spike | MS   | Sample Duplicate | LCS  | LCS Limit    | Rec  | Rec Limit | Prec  | Prec Limit |
|---------|-------------------|-------|---------|----------|-------|------|------------------|------|--------------|------|-----------|-------|------------|
| AZ08769 | Solids, Dissolved | mg/L  | 0.0000  | 25       |       |      | 139              | 56.0 | 40 to 60     |      |           | 0.358 | 5          |
| AZ08769 | Fluoride          | mg/L  | 0.0281  | 0.05     | 2.50  | 2.61 | 0.0437           | 2.52 | 2.25 to 2.75 | 104  | 80 to 120 | 0.00  | 20         |
| AZ08769 | Chloride          | mg/L  | -0.0563 | 0.50     | 10.0  | 12.1 | 1.63             | 9.71 | 9 to 11      | 104  | 80 to 120 | 1.22  | 20         |
| AZ08769 | Sulfate           | mg/L  | -0.120  | 0.50     | 20.0  | 22.5 | 3.18             | 19.8 | 18 to 22     | 96.3 | 80 to 120 | 1.87  | 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) 664-6032 or 6171  
 FAX (205) 257-1654

# Certificate Of Analysis Alabama Power



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 02-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-7

Laboratory ID Number: AZ08762

| Name                                  | Analyst | Test Date | Reference   | Vio Spec | DF    | MDL    | RL     | Q Results      | Units |
|---------------------------------------|---------|-----------|-------------|----------|-------|--------|--------|----------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |             |          |       |        |        |                |       |
| * Arsenic, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Barium, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 0.0236         | mg/L  |
| * Beryllium, Total                    | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0006 | 0.003  | U Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.03   | 0.1    | 1.64           | mg/L  |
| * Calcium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 10.15 | 1.015  | 5.075  | 115            | mg/L  |
| * Cadmium, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0003 | 0.001  | U Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0008 | 0.003  | J 0.000890     | mg/L  |
| * Cobalt, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.005  | U Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 4/17/2019 | EPA 245.1   |          | 1     | 0.0003 | 0.0005 | U Not Detected | mg/L  |
| * Lithium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.01   | 0.02   | U Not Detected | mg/L  |
| * Molybdenum, Total                   | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Lead, Total                         | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Selenium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0002 | 0.001  | U Not Detected | mg/L  |
| <b>General Characteristics</b>        |         |           |             |          |       |        |        |                |       |
| * Solids, Dissolved                   | CRB     | 4/11/2019 | SM 2540C    |          | 1     |        | 25     | 428            | mg/L  |
| Filter Completion Date                | CRB     | 4/8/2019  | SM 2540C    |          | 1     |        |        | 04/08/2019     | Date  |
| * Chloride                            | JCC     | 4/9/2019  | SM4500Cl E  |          | 1     | 0.50   | 1      | 15.7           | mg/L  |
| * Fluoride                            | JCC     | 4/9/2019  | SM4500F C   |          | 1     | 0.05   | 0.1    | J 0.0520       | mg/L  |
| * Sulfate                             | JCC     | 4/8/2019  | SM4500SO4 E |          | 32    | 16.00  | 32     | 186            | mg/L  |
| <b>Field Measurements</b>             |         |           |             |          |       |        |        |                |       |
| pH                                    | BTR     | 4/2/2019  |             |          |       |        |        | FA 7.24        | SU    |

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

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**Comments:**

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

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 02-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-7

Laboratory ID Number: AZ08762

| Sample  | Analysis               | Units | MB          |         | Spike | MS      | MSD     | LCS     | LCS              |     | Rec   |           | Prec  | Limit |
|---------|------------------------|-------|-------------|---------|-------|---------|---------|---------|------------------|-----|-------|-----------|-------|-------|
|         |                        |       | MB          | Limit   |       |         |         |         | Limit            | Rec | Limit | Prec      |       |       |
| AZ08769 | Mercury, Total by CVAA | mg/L  | 0.0000120   | 0.0005  | 0.004 | 0.00396 | 0.00395 | 0.00381 | 0.0034 to 0.0046 |     | 98.9  | 70 to 130 | 0.276 | 20    |
| AZ08769 | Barium, Total          | mg/L  | 0.00000645  | 0.0044  | 0.10  | 0.105   | 0.104   | 0.0989  | 0.085 to 0.115   |     | 98.6  | 70 to 130 | 0.570 | 20    |
| AZ08769 | Arsenic, Total         | mg/L  | 0.0000129   | 0.0022  | 0.10  | 0.0976  | 0.0973  | 0.101   | 0.085 to 0.115   |     | 97.6  | 70 to 130 | 0.320 | 20    |
| AZ08769 | Cadmium, Total         | mg/L  | -0.00000085 | 0.00066 | 0.10  | 0.0999  | 0.0981  | 0.0989  | 0.085 to 0.115   |     | 99.9  | 70 to 130 | 1.81  | 20    |
| AZ08769 | Selenium, Total        | mg/L  | 0.0000521   | 0.0044  | 0.10  | 0.0996  | 0.102   | 0.106   | 0.085 to 0.115   |     | 99.6  | 70 to 130 | 2.50  | 20    |
| AZ08769 | Boron, Total           | mg/L  | 0.00143     | 0.044   | 1.00  | 0.998   | 0.988   | 1.00    | 0.85 to 1.15     |     | 99.8  | 70 to 130 | 1.06  | 20    |
| AZ08769 | Calcium, Total         | mg/L  | -0.000112   | 0.22    | 5.00  | 36.7    | 36.6    | 5.22    | 4.25 to 5.75     |     | 103   | 70 to 130 | 0.483 | 20    |
| AZ08769 | Lead, Total            | mg/L  | 0.00000474  | 0.0022  | 0.10  | 0.109   | 0.108   | 0.106   | 0.085 to 0.115   |     | 109   | 70 to 130 | 0.870 | 20    |
| AZ08769 | Cobalt, Total          | mg/L  | -0.00000276 | 0.0044  | 0.10  | 0.103   | 0.105   | 0.101   | 0.085 to 0.115   |     | 103   | 70 to 130 | 1.34  | 20    |
| AZ08769 | Molybdenum, Total      | mg/L  | 0.00000377  | 0.0044  | 0.10  | 0.110   | 0.112   | 0.101   | 0.085 to 0.115   |     | 103   | 70 to 130 | 1.34  | 20    |
| AZ08769 | Antimony, Total        | mg/L  | 0.000176    | 0.00176 | 0.10  | 0.0929  | 0.0925  | 0.0954  | 0.085 to 0.115   |     | 92.9  | 70 to 130 | 0.483 | 20    |
| AZ08769 | Thallium, Total        | mg/L  | 0.00000236  | 0.00044 | 0.10  | 0.108   | 0.105   | 0.106   | 0.085 to 0.115   |     | 108   | 70 to 130 | 2.28  | 20    |
| AZ08769 | Beryllium, Total       | mg/L  | 0.0000276   | 0.00132 | 0.10  | 0.103   | 0.102   | 0.101   | 0.085 to 0.115   |     | 103   | 70 to 130 | 0.537 | 20    |
| AZ08769 | Chromium, Total        | mg/L  | 0.0000103   | 0.0044  | 0.10  | 0.100   | 0.0983  | 0.0996  | 0.085 to 0.115   |     | 100   | 70 to 130 | 1.95  | 20    |
| AZ08769 | Lithium, Total         | mg/L  | 0.0000223   | 0.022   | 0.20  | 0.208   | 0.205   | 0.201   | 0.17 to 0.23     |     | 104   | 70 to 130 | 1.60  | 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) 664-6032 or 6171  
 FAX (205) 257-1654

## Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 02-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-7

Laboratory ID Number: AZ08762

| Sample  | Analysis          | Units | MB      | MB    |       |      | Sample    |      | LCS          | Rec  |           | Prec  |       |
|---------|-------------------|-------|---------|-------|-------|------|-----------|------|--------------|------|-----------|-------|-------|
|         |                   |       |         | Limit | Spike | MS   | Duplicate | LCS  | Limit        | Rec  | Limit     | Prec  | Limit |
| AZ08769 | Fluoride          | mg/L  | 0.0281  | 0.05  | 2.50  | 2.61 | 0.0437    | 2.52 | 2.25 to 2.75 | 104  | 80 to 120 | 0.00  | 20    |
| AZ08769 | Chloride          | mg/L  | -0.0563 | 0.50  | 10.0  | 12.1 | 1.63      | 9.71 | 9 to 11      | 104  | 80 to 120 | 1.22  | 20    |
| AZ08769 | Solids, Dissolved | mg/L  | 0.0000  | 25    |       |      | 139       | 56.0 | 40 to 60     |      |           | 0.358 | 5     |
| AZ08769 | Sulfate           | mg/L  | -0.120  | 0.50  | 20.0  | 22.5 | 3.18      | 19.8 | 18 to 22     | 96.3 | 80 to 120 | 1.87  | 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) 664-6032 or 6171  
 FAX (205) 257-1654

# Certificate Of Analysis



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 02-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-6

Laboratory ID Number: AZ08763

| Name                                  | Analyst | Test Date | Reference   | Vio Spec | DF    | MDL    | RL     | Q Results      | Units |
|---------------------------------------|---------|-----------|-------------|----------|-------|--------|--------|----------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |             |          |       |        |        |                |       |
| * Arsenic, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Barium, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 0.0243         | mg/L  |
| * Beryllium, Total                    | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0006 | 0.003  | U Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.03   | 0.1    | 2.66           | mg/L  |
| * Calcium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.1    | 0.5    | 80.1           | mg/L  |
| * Cadmium, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0003 | 0.001  | U Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0008 | 0.003  | J 0.000819     | mg/L  |
| * Cobalt, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.005  | U Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 4/17/2019 | EPA 245.1   |          | 1     | 0.0003 | 0.0005 | U Not Detected | mg/L  |
| * Lithium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.01   | 0.02   | U Not Detected | mg/L  |
| * Molybdenum, Total                   | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 0.0166         | mg/L  |
| * Lead, Total                         | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Selenium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0002 | 0.001  | U Not Detected | mg/L  |
| <b>General Characteristics</b>        |         |           |             |          |       |        |        |                |       |
| * Solids, Dissolved                   | CRB     | 4/11/2019 | SM 2540C    |          | 1     |        | 25     | 447            | mg/L  |
| Filter Completion Date                | CRB     | 4/8/2019  | SM 2540C    |          | 1     |        |        | 04/08/2019     | Date  |
| * Chloride                            | JCC     | 4/9/2019  | SM4500Cl E  |          | 4     | 2.00   | 4      | 66.0           | mg/L  |
| * Fluoride                            | JCC     | 4/9/2019  | SM4500F C   |          | 1     | 0.05   | 0.1    | J 0.0586       | mg/L  |
| * Sulfate                             | JCC     | 4/8/2019  | SM4500SO4 E |          | 32    | 16.00  | 32     | 198            | mg/L  |
| <b>Field Measurements</b>             |         |           |             |          |       |        |        |                |       |
| pH                                    | BTR     | 4/2/2019  |             |          |       |        |        | FA 7.73        | 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) 664-6032 or 6171  
 FAX (205) 257-1654

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 02-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-6

Laboratory ID Number: AZ08763

| Sample  | Analysis               | Units | MB          |         | Spike | MS      | MSD     | LCS     | LCS              |     | Rec   |           | Prec Limit |    |
|---------|------------------------|-------|-------------|---------|-------|---------|---------|---------|------------------|-----|-------|-----------|------------|----|
|         |                        |       | MB          | Limit   |       |         |         |         | Limit            | Rec | Limit | Prec      |            |    |
| AZ08769 | Arsenic, Total         | mg/L  | 0.0000129   | 0.0022  | 0.10  | 0.0976  | 0.0973  | 0.101   | 0.085 to 0.115   |     | 97.6  | 70 to 130 | 0.320      | 20 |
| AZ08769 | Mercury, Total by CVAA | mg/L  | 0.0000120   | 0.0005  | 0.004 | 0.00396 | 0.00395 | 0.00381 | 0.0034 to 0.0046 |     | 98.9  | 70 to 130 | 0.276      | 20 |
| AZ08769 | Barium, Total          | mg/L  | 0.00000645  | 0.0044  | 0.10  | 0.105   | 0.104   | 0.0989  | 0.085 to 0.115   |     | 98.6  | 70 to 130 | 0.570      | 20 |
| AZ08769 | Beryllium, Total       | mg/L  | 0.0000276   | 0.00132 | 0.10  | 0.103   | 0.102   | 0.101   | 0.085 to 0.115   |     | 103   | 70 to 130 | 0.537      | 20 |
| AZ08769 | Chromium, Total        | mg/L  | 0.0000103   | 0.0044  | 0.10  | 0.100   | 0.0983  | 0.0996  | 0.085 to 0.115   |     | 100   | 70 to 130 | 1.95       | 20 |
| AZ08769 | Lithium, Total         | mg/L  | 0.0000223   | 0.022   | 0.20  | 0.208   | 0.205   | 0.201   | 0.17 to 0.23     |     | 104   | 70 to 130 | 1.60       | 20 |
| AZ08769 | Cadmium, Total         | mg/L  | -0.00000085 | 0.00066 | 0.10  | 0.0999  | 0.0981  | 0.0989  | 0.085 to 0.115   |     | 99.9  | 70 to 130 | 1.81       | 20 |
| AZ08769 | Selenium, Total        | mg/L  | 0.0000521   | 0.0044  | 0.10  | 0.0996  | 0.102   | 0.106   | 0.085 to 0.115   |     | 99.6  | 70 to 130 | 2.50       | 20 |
| AZ08769 | Cobalt, Total          | mg/L  | -0.00000276 | 0.0044  | 0.10  | 0.103   | 0.105   | 0.101   | 0.085 to 0.115   |     | 103   | 70 to 130 | 1.34       | 20 |
| AZ08769 | Molybdenum, Total      | mg/L  | 0.00000377  | 0.0044  | 0.10  | 0.110   | 0.112   | 0.101   | 0.085 to 0.115   |     | 103   | 70 to 130 | 1.34       | 20 |
| AZ08769 | Antimony, Total        | mg/L  | 0.000176    | 0.00176 | 0.10  | 0.0929  | 0.0925  | 0.0954  | 0.085 to 0.115   |     | 92.9  | 70 to 130 | 0.483      | 20 |
| AZ08769 | Thallium, Total        | mg/L  | 0.00000236  | 0.00044 | 0.10  | 0.108   | 0.105   | 0.106   | 0.085 to 0.115   |     | 108   | 70 to 130 | 2.28       | 20 |
| AZ08769 | Boron, Total           | mg/L  | 0.00143     | 0.044   | 1.00  | 0.998   | 0.988   | 1.00    | 0.85 to 1.15     |     | 99.8  | 70 to 130 | 1.06       | 20 |
| AZ08769 | Calcium, Total         | mg/L  | -0.000112   | 0.22    | 5.00  | 36.7    | 36.6    | 5.22    | 4.25 to 5.75     |     | 103   | 70 to 130 | 0.483      | 20 |
| AZ08769 | Lead, Total            | mg/L  | 0.00000474  | 0.0022  | 0.10  | 0.109   | 0.108   | 0.106   | 0.085 to 0.115   |     | 109   | 70 to 130 | 0.870      | 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:**

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

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 02-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-6

Laboratory ID Number: AZ08763

| Sample  | Analysis          | Units | MB      | MB Limit | Spike | MS   | Sample Duplicate | LCS  | LCS Limit    | Rec  | Rec Limit | Prec  | Prec Limit |
|---------|-------------------|-------|---------|----------|-------|------|------------------|------|--------------|------|-----------|-------|------------|
| AZ08769 | Solids, Dissolved | mg/L  | 0.0000  | 25       |       |      | 139              | 56.0 | 40 to 60     |      |           | 0.358 | 5          |
| AZ08769 | Fluoride          | mg/L  | 0.0281  | 0.05     | 2.50  | 2.61 | 0.0437           | 2.52 | 2.25 to 2.75 | 104  | 80 to 120 | 0.00  | 20         |
| AZ08769 | Chloride          | mg/L  | -0.0563 | 0.50     | 10.0  | 12.1 | 1.63             | 9.71 | 9 to 11      | 104  | 80 to 120 | 1.22  | 20         |
| AZ08769 | Sulfate           | mg/L  | -0.120  | 0.50     | 20.0  | 22.5 | 3.18             | 19.8 | 18 to 22     | 96.3 | 80 to 120 | 1.87  | 20         |

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Laboratory certification ID: E571114

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Expiration: June 30, 2019

**Comments:**

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  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 02-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-6 DUP

Laboratory ID Number: AZ08764

| Name                                  | Analyst | Test Date | Reference   | Vio Spec | DF    | MDL    | RL     | Q Results      | Units |
|---------------------------------------|---------|-----------|-------------|----------|-------|--------|--------|----------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |             |          |       |        |        |                |       |
| * Arsenic, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Barium, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 0.0241         | mg/L  |
| * Beryllium, Total                    | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0006 | 0.003  | U Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.03   | 0.1    | 2.70           | mg/L  |
| * Calcium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.1    | 0.5    | 80.0           | mg/L  |
| * Cadmium, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0003 | 0.001  | U Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0008 | 0.003  | J 0.000812     | mg/L  |
| * Cobalt, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.005  | U Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 4/17/2019 | EPA 245.1   |          | 1     | 0.0003 | 0.0005 | U Not Detected | mg/L  |
| * Lithium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.01   | 0.02   | U Not Detected | mg/L  |
| * Molybdenum, Total                   | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 0.0169         | mg/L  |
| * Lead, Total                         | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Selenium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0002 | 0.001  | U Not Detected | mg/L  |
| <b>General Characteristics</b>        |         |           |             |          |       |        |        |                |       |
| * Solids, Dissolved                   | CRB     | 4/11/2019 | SM 2540C    |          | 1     |        | 25     | 445            | mg/L  |
| Filter Completion Date                | CRB     | 4/8/2019  | SM 2540C    |          | 1     |        |        | 04/08/2019     | Date  |
| * Chloride                            | JCC     | 4/9/2019  | SM4500Cl E  |          | 4     | 2.00   | 4      | 66.4           | mg/L  |
| * Fluoride                            | JCC     | 4/9/2019  | SM4500F C   |          | 1     | 0.05   | 0.1    | J 0.0600       | mg/L  |
| * Sulfate                             | JCC     | 4/8/2019  | SM4500SO4 E |          | 32    | 16.00  | 32     | 200            | mg/L  |
| <b>Field Measurements</b>             |         |           |             |          |       |        |        |                |       |
| pH                                    | BTR     | 4/2/2019  |             |          |       |        |        | FA 7.73        | SU    |

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Laboratory certification ID: E571114

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**Comments:**

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

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 02-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-6 DUP

Laboratory ID Number: AZ08764

| Sample  | Analysis               | Units | MB          |         | Spike | MS      | MSD     | LCS     | LCS              |     | Rec   |           | Prec Limit |    |
|---------|------------------------|-------|-------------|---------|-------|---------|---------|---------|------------------|-----|-------|-----------|------------|----|
|         |                        |       | MB          | Limit   |       |         |         |         | Limit            | Rec | Limit | Prec      |            |    |
| AZ08769 | Arsenic, Total         | mg/L  | 0.0000129   | 0.0022  | 0.10  | 0.0976  | 0.0973  | 0.101   | 0.085 to 0.115   |     | 97.6  | 70 to 130 | 0.320      | 20 |
| AZ08769 | Barium, Total          | mg/L  | 0.00000645  | 0.0044  | 0.10  | 0.105   | 0.104   | 0.0989  | 0.085 to 0.115   |     | 98.6  | 70 to 130 | 0.570      | 20 |
| AZ08769 | Mercury, Total by CVAA | mg/L  | 0.0000120   | 0.0005  | 0.004 | 0.00396 | 0.00395 | 0.00381 | 0.0034 to 0.0046 |     | 98.9  | 70 to 130 | 0.276      | 20 |
| AZ08769 | Cadmium, Total         | mg/L  | -0.00000085 | 0.00066 | 0.10  | 0.0999  | 0.0981  | 0.0989  | 0.085 to 0.115   |     | 99.9  | 70 to 130 | 1.81       | 20 |
| AZ08769 | Selenium, Total        | mg/L  | 0.0000521   | 0.0044  | 0.10  | 0.0996  | 0.102   | 0.106   | 0.085 to 0.115   |     | 99.6  | 70 to 130 | 2.50       | 20 |
| AZ08769 | Beryllium, Total       | mg/L  | 0.0000276   | 0.00132 | 0.10  | 0.103   | 0.102   | 0.101   | 0.085 to 0.115   |     | 103   | 70 to 130 | 0.537      | 20 |
| AZ08769 | Chromium, Total        | mg/L  | 0.0000103   | 0.0044  | 0.10  | 0.100   | 0.0983  | 0.0996  | 0.085 to 0.115   |     | 100   | 70 to 130 | 1.95       | 20 |
| AZ08769 | Lithium, Total         | mg/L  | 0.0000223   | 0.022   | 0.20  | 0.208   | 0.205   | 0.201   | 0.17 to 0.23     |     | 104   | 70 to 130 | 1.60       | 20 |
| AZ08769 | Boron, Total           | mg/L  | 0.00143     | 0.044   | 1.00  | 0.998   | 0.988   | 1.00    | 0.85 to 1.15     |     | 99.8  | 70 to 130 | 1.06       | 20 |
| AZ08769 | Calcium, Total         | mg/L  | -0.000112   | 0.22    | 5.00  | 36.7    | 36.6    | 5.22    | 4.25 to 5.75     |     | 103   | 70 to 130 | 0.483      | 20 |
| AZ08769 | Lead, Total            | mg/L  | 0.00000474  | 0.0022  | 0.10  | 0.109   | 0.108   | 0.106   | 0.085 to 0.115   |     | 109   | 70 to 130 | 0.870      | 20 |
| AZ08769 | Cobalt, Total          | mg/L  | -0.00000276 | 0.0044  | 0.10  | 0.103   | 0.105   | 0.101   | 0.085 to 0.115   |     | 103   | 70 to 130 | 1.34       | 20 |
| AZ08769 | Molybdenum, Total      | mg/L  | 0.00000377  | 0.0044  | 0.10  | 0.110   | 0.112   | 0.101   | 0.085 to 0.115   |     | 103   | 70 to 130 | 1.34       | 20 |
| AZ08769 | Antimony, Total        | mg/L  | 0.000176    | 0.00176 | 0.10  | 0.0929  | 0.0925  | 0.0954  | 0.085 to 0.115   |     | 92.9  | 70 to 130 | 0.483      | 20 |
| AZ08769 | Thallium, Total        | mg/L  | 0.00000236  | 0.00044 | 0.10  | 0.108   | 0.105   | 0.106   | 0.085 to 0.115   |     | 108   | 70 to 130 | 2.28       | 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:**

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

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 02-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-6 DUP

Laboratory ID Number: AZ08764

| Sample  | Analysis          | Units | MB      | MB    |       |      | Sample    |      | LCS          | Rec  |           | Prec  |       |
|---------|-------------------|-------|---------|-------|-------|------|-----------|------|--------------|------|-----------|-------|-------|
|         |                   |       |         | Limit | Spike | MS   | Duplicate | LCS  | Limit        | Rec  | Limit     | Prec  | Limit |
| AZ08769 | Fluoride          | mg/L  | 0.0281  | 0.05  | 2.50  | 2.61 | 0.0437    | 2.52 | 2.25 to 2.75 | 104  | 80 to 120 | 0.00  | 20    |
| AZ08769 | Solids, Dissolved | mg/L  | 0.0000  | 25    |       |      | 139       | 56.0 | 40 to 60     |      |           | 0.358 | 5     |
| AZ08769 | Chloride          | mg/L  | -0.0563 | 0.50  | 10.0  | 12.1 | 1.63      | 9.71 | 9 to 11      | 104  | 80 to 120 | 1.22  | 20    |
| AZ08769 | Sulfate           | mg/L  | -0.120  | 0.50  | 20.0  | 22.5 | 3.18      | 19.8 | 18 to 22     | 96.3 | 80 to 120 | 1.87  | 20    |

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Laboratory certification ID: E571114

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**Comments:**

CC:

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

**Certificate Of Analysis**  **Alabama Power**



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 02-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-21

Laboratory ID Number: AZ08765

| Name                                  | Analyst | Test Date | Reference   | Vio Spec | DF    | MDL    | RL     | Q Results      | Units |
|---------------------------------------|---------|-----------|-------------|----------|-------|--------|--------|----------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |             |          |       |        |        |                |       |
| * Arsenic, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | J 0.00134      | mg/L  |
| * Barium, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 0.0146         | mg/L  |
| * Beryllium, Total                    | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0006 | 0.003  | U Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.03   | 0.1    | 1.50           | mg/L  |
| * Calcium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.1    | 0.5    | 61.1           | mg/L  |
| * Cadmium, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0003 | 0.001  | U Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0008 | 0.003  | U Not Detected | mg/L  |
| * Cobalt, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.005  | U Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 4/17/2019 | EPA 245.1   |          | 1     | 0.0003 | 0.0005 | U Not Detected | mg/L  |
| * Lithium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.01   | 0.02   | U Not Detected | mg/L  |
| * Molybdenum, Total                   | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | J 0.00611      | mg/L  |
| * Lead, Total                         | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Selenium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0002 | 0.001  | U Not Detected | mg/L  |
| <b>General Characteristics</b>        |         |           |             |          |       |        |        |                |       |
| * Solids, Dissolved                   | CRB     | 4/11/2019 | SM 2540C    |          | 1     |        | 25     | 401            | mg/L  |
| Filter Completion Date                | CRB     | 4/8/2019  | SM 2540C    |          | 1     |        |        | 04/08/2019     | Date  |
| * Chloride                            | JCC     | 4/9/2019  | SM4500Cl E  |          | 2     | 1.00   | 2      | 27.0           | mg/L  |
| * Fluoride                            | JCC     | 4/9/2019  | SM4500F C   |          | 1     | 0.05   | 0.1    | U Not Detected | mg/L  |
| * Sulfate                             | JCC     | 4/8/2019  | SM4500SO4 E |          | 32    | 16.00  | 32     | 189            | mg/L  |
| <b>Field Measurements</b>             |         |           |             |          |       |        |        |                |       |
| pH                                    | BTR     | 4/2/2019  |             |          |       |        |        | FA 7.67        | 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) 664-6032 or 6171  
 FAX (205) 257-1654

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 02-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-21

Laboratory ID Number: AZ08765

| Sample  | Analysis               | Units | MB          |         | Spike | MS      | MSD     | LCS     | LCS              |     | Rec   |           | Prec  |    |
|---------|------------------------|-------|-------------|---------|-------|---------|---------|---------|------------------|-----|-------|-----------|-------|----|
|         |                        |       | MB          | Limit   |       |         |         |         | Limit            | Rec | Limit | Prec      |       |    |
| AZ08769 | Arsenic, Total         | mg/L  | 0.0000129   | 0.0022  | 0.10  | 0.0976  | 0.0973  | 0.101   | 0.085 to 0.115   |     | 97.6  | 70 to 130 | 0.320 | 20 |
| AZ08769 | Mercury, Total by CVAA | mg/L  | 0.0000120   | 0.0005  | 0.004 | 0.00396 | 0.00395 | 0.00381 | 0.0034 to 0.0046 |     | 98.9  | 70 to 130 | 0.276 | 20 |
| AZ08769 | Barium, Total          | mg/L  | 0.00000645  | 0.0044  | 0.10  | 0.105   | 0.104   | 0.0989  | 0.085 to 0.115   |     | 98.6  | 70 to 130 | 0.570 | 20 |
| AZ08769 | Cobalt, Total          | mg/L  | -0.00000276 | 0.0044  | 0.10  | 0.103   | 0.105   | 0.101   | 0.085 to 0.115   |     | 103   | 70 to 130 | 1.34  | 20 |
| AZ08769 | Molybdenum, Total      | mg/L  | 0.00000377  | 0.0044  | 0.10  | 0.110   | 0.112   | 0.101   | 0.085 to 0.115   |     | 103   | 70 to 130 | 1.34  | 20 |
| AZ08769 | Antimony, Total        | mg/L  | 0.000176    | 0.00176 | 0.10  | 0.0929  | 0.0925  | 0.0954  | 0.085 to 0.115   |     | 92.9  | 70 to 130 | 0.483 | 20 |
| AZ08769 | Thallium, Total        | mg/L  | 0.00000236  | 0.00044 | 0.10  | 0.108   | 0.105   | 0.106   | 0.085 to 0.115   |     | 108   | 70 to 130 | 2.28  | 20 |
| AZ08769 | Beryllium, Total       | mg/L  | 0.0000276   | 0.00132 | 0.10  | 0.103   | 0.102   | 0.101   | 0.085 to 0.115   |     | 103   | 70 to 130 | 0.537 | 20 |
| AZ08769 | Chromium, Total        | mg/L  | 0.0000103   | 0.0044  | 0.10  | 0.100   | 0.0983  | 0.0996  | 0.085 to 0.115   |     | 100   | 70 to 130 | 1.95  | 20 |
| AZ08769 | Lithium, Total         | mg/L  | 0.0000223   | 0.022   | 0.20  | 0.208   | 0.205   | 0.201   | 0.17 to 0.23     |     | 104   | 70 to 130 | 1.60  | 20 |
| AZ08769 | Cadmium, Total         | mg/L  | -0.00000085 | 0.00066 | 0.10  | 0.0999  | 0.0981  | 0.0989  | 0.085 to 0.115   |     | 99.9  | 70 to 130 | 1.81  | 20 |
| AZ08769 | Selenium, Total        | mg/L  | 0.0000521   | 0.0044  | 0.10  | 0.0996  | 0.102   | 0.106   | 0.085 to 0.115   |     | 99.6  | 70 to 130 | 2.50  | 20 |
| AZ08769 | Boron, Total           | mg/L  | 0.00143     | 0.044   | 1.00  | 0.998   | 0.988   | 1.00    | 0.85 to 1.15     |     | 99.8  | 70 to 130 | 1.06  | 20 |
| AZ08769 | Calcium, Total         | mg/L  | -0.000112   | 0.22    | 5.00  | 36.7    | 36.6    | 5.22    | 4.25 to 5.75     |     | 103   | 70 to 130 | 0.483 | 20 |
| AZ08769 | Lead, Total            | mg/L  | 0.00000474  | 0.0022  | 0.10  | 0.109   | 0.108   | 0.106   | 0.085 to 0.115   |     | 109   | 70 to 130 | 0.870 | 20 |

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

**Comments:**

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

## Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 02-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-21

Laboratory ID Number: AZ08765

| Sample  | Analysis          | Units | MB      | MB    |       |      | Sample    |      | LCS          | Rec  |           | Prec  |       |
|---------|-------------------|-------|---------|-------|-------|------|-----------|------|--------------|------|-----------|-------|-------|
|         |                   |       |         | Limit | Spike | MS   | Duplicate | LCS  | Limit        | Rec  | Limit     | Prec  | Limit |
| AZ08769 | Fluoride          | mg/L  | 0.0281  | 0.05  | 2.50  | 2.61 | 0.0437    | 2.52 | 2.25 to 2.75 | 104  | 80 to 120 | 0.00  | 20    |
| AZ08769 | Solids, Dissolved | mg/L  | 0.0000  | 25    |       |      | 139       | 56.0 | 40 to 60     |      |           | 0.358 | 5     |
| AZ08769 | Chloride          | mg/L  | -0.0563 | 0.50  | 10.0  | 12.1 | 1.63      | 9.71 | 9 to 11      | 104  | 80 to 120 | 1.22  | 20    |
| AZ08769 | Sulfate           | mg/L  | -0.120  | 0.50  | 20.0  | 22.5 | 3.18      | 19.8 | 18 to 22     | 96.3 | 80 to 120 | 1.87  | 20    |

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Laboratory certification ID: E571114

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Comments:

CC:

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

# Certificate Of Analysis Alabama Power



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 02-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-22

Laboratory ID Number: AZ08766

| Name                                  | Analyst | Test Date | Reference   | Vio Spec | DF    | MDL    | RL     | Q Results      | Units |
|---------------------------------------|---------|-----------|-------------|----------|-------|--------|--------|----------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |             |          |       |        |        |                |       |
| * Arsenic, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Barium, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 0.0471         | mg/L  |
| * Beryllium, Total                    | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0006 | 0.003  | U Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.03   | 0.1    | 2.03           | mg/L  |
| * Calcium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 10.15 | 1.015  | 5.075  | 134            | mg/L  |
| * Cadmium, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0003 | 0.001  | U Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0008 | 0.003  | U Not Detected | mg/L  |
| * Cobalt, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.005  | U Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 4/17/2019 | EPA 245.1   |          | 1     | 0.0003 | 0.0005 | U Not Detected | mg/L  |
| * Lithium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.01   | 0.02   | U Not Detected | mg/L  |
| * Molybdenum, Total                   | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 0.0703         | mg/L  |
| * Lead, Total                         | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Selenium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0002 | 0.001  | U Not Detected | mg/L  |
| <b>General Characteristics</b>        |         |           |             |          |       |        |        |                |       |
| * Solids, Dissolved                   | CRB     | 4/11/2019 | SM 2540C    |          | 1     |        | 50     | 522            | mg/L  |
| Filter Completion Date                | CRB     | 4/8/2019  | SM 2540C    |          | 1     |        |        | 04/08/2019     | Date  |
| * Chloride                            | JCC     | 4/9/2019  | SM4500Cl E  |          | 4     | 2.00   | 4      | 67.3           | mg/L  |
| * Fluoride                            | JCC     | 4/9/2019  | SM4500F C   |          | 1     | 0.05   | 0.1    | J 0.0613       | mg/L  |
| * Sulfate                             | JCC     | 4/8/2019  | SM4500SO4 E |          | 32    | 16.00  | 32     | 212            | mg/L  |
| <b>Field Measurements</b>             |         |           |             |          |       |        |        |                |       |
| pH                                    | BTR     | 4/2/2019  |             |          |       |        |        | FA 7.33        | SU    |

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Laboratory certification ID: E571114

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**Comments:**

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

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 02-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-22

Laboratory ID Number: AZ08766

| Sample  | Analysis               | Units | MB          |         | Spike | MS      | MSD     | LCS     | LCS              |     | Rec   |           | Prec Limit |    |
|---------|------------------------|-------|-------------|---------|-------|---------|---------|---------|------------------|-----|-------|-----------|------------|----|
|         |                        |       | MB          | Limit   |       |         |         |         | Limit            | Rec | Limit | Prec      |            |    |
| AZ08769 | Arsenic, Total         | mg/L  | 0.0000129   | 0.0022  | 0.10  | 0.0976  | 0.0973  | 0.101   | 0.085 to 0.115   |     | 97.6  | 70 to 130 | 0.320      | 20 |
| AZ08769 | Barium, Total          | mg/L  | 0.00000645  | 0.0044  | 0.10  | 0.105   | 0.104   | 0.0989  | 0.085 to 0.115   |     | 98.6  | 70 to 130 | 0.570      | 20 |
| AZ08769 | Mercury, Total by CVAA | mg/L  | 0.0000120   | 0.0005  | 0.004 | 0.00396 | 0.00395 | 0.00381 | 0.0034 to 0.0046 |     | 98.9  | 70 to 130 | 0.276      | 20 |
| AZ08769 | Cadmium, Total         | mg/L  | -0.00000085 | 0.00066 | 0.10  | 0.0999  | 0.0981  | 0.0989  | 0.085 to 0.115   |     | 99.9  | 70 to 130 | 1.81       | 20 |
| AZ08769 | Selenium, Total        | mg/L  | 0.0000521   | 0.0044  | 0.10  | 0.0996  | 0.102   | 0.106   | 0.085 to 0.115   |     | 99.6  | 70 to 130 | 2.50       | 20 |
| AZ08769 | Beryllium, Total       | mg/L  | 0.0000276   | 0.00132 | 0.10  | 0.103   | 0.102   | 0.101   | 0.085 to 0.115   |     | 103   | 70 to 130 | 0.537      | 20 |
| AZ08769 | Chromium, Total        | mg/L  | 0.0000103   | 0.0044  | 0.10  | 0.100   | 0.0983  | 0.0996  | 0.085 to 0.115   |     | 100   | 70 to 130 | 1.95       | 20 |
| AZ08769 | Lithium, Total         | mg/L  | 0.0000223   | 0.022   | 0.20  | 0.208   | 0.205   | 0.201   | 0.17 to 0.23     |     | 104   | 70 to 130 | 1.60       | 20 |
| AZ08769 | Boron, Total           | mg/L  | 0.00143     | 0.044   | 1.00  | 0.998   | 0.988   | 1.00    | 0.85 to 1.15     |     | 99.8  | 70 to 130 | 1.06       | 20 |
| AZ08769 | Calcium, Total         | mg/L  | -0.000112   | 0.22    | 5.00  | 36.7    | 36.6    | 5.22    | 4.25 to 5.75     |     | 103   | 70 to 130 | 0.483      | 20 |
| AZ08769 | Lead, Total            | mg/L  | 0.00000474  | 0.0022  | 0.10  | 0.109   | 0.108   | 0.106   | 0.085 to 0.115   |     | 109   | 70 to 130 | 0.870      | 20 |
| AZ08769 | Cobalt, Total          | mg/L  | -0.00000276 | 0.0044  | 0.10  | 0.103   | 0.105   | 0.101   | 0.085 to 0.115   |     | 103   | 70 to 130 | 1.34       | 20 |
| AZ08769 | Molybdenum, Total      | mg/L  | 0.00000377  | 0.0044  | 0.10  | 0.110   | 0.112   | 0.101   | 0.085 to 0.115   |     | 103   | 70 to 130 | 1.34       | 20 |
| AZ08769 | Antimony, Total        | mg/L  | 0.000176    | 0.00176 | 0.10  | 0.0929  | 0.0925  | 0.0954  | 0.085 to 0.115   |     | 92.9  | 70 to 130 | 0.483      | 20 |
| AZ08769 | Thallium, Total        | mg/L  | 0.00000236  | 0.00044 | 0.10  | 0.108   | 0.105   | 0.106   | 0.085 to 0.115   |     | 108   | 70 to 130 | 2.28       | 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) 664-6032 or 6171  
 FAX (205) 257-1654

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 02-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-22

Laboratory ID Number: AZ08766

| Sample  | Analysis          | Units | MB      | MB    |       |      | Sample    |      | LCS          | Rec  |           | Prec  |       |
|---------|-------------------|-------|---------|-------|-------|------|-----------|------|--------------|------|-----------|-------|-------|
|         |                   |       |         | Limit | Spike | MS   | Duplicate | LCS  | Limit        | Rec  | Limit     | Prec  | Limit |
| AZ08769 | Fluoride          | mg/L  | 0.0281  | 0.05  | 2.50  | 2.61 | 0.0437    | 2.52 | 2.25 to 2.75 | 104  | 80 to 120 | 0.00  | 20    |
| AZ08769 | Solids, Dissolved | mg/L  | 0.0000  | 25    |       |      | 139       | 56.0 | 40 to 60     |      |           | 0.358 | 5     |
| AZ08769 | Chloride          | mg/L  | -0.0563 | 0.50  | 10.0  | 12.1 | 1.63      | 9.71 | 9 to 11      | 104  | 80 to 120 | 1.22  | 20    |
| AZ08769 | Sulfate           | mg/L  | -0.120  | 0.50  | 20.0  | 22.5 | 3.18      | 19.8 | 18 to 22     | 96.3 | 80 to 120 | 1.87  | 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:**

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  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 02-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-5

Laboratory ID Number: AZ08767

| Name                                  | Analyst | Test Date | Reference   | Vio Spec | DF    | MDL    | RL     | Q Results      | Units |
|---------------------------------------|---------|-----------|-------------|----------|-------|--------|--------|----------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |             |          |       |        |        |                |       |
| * Arsenic, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Barium, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 0.0371         | mg/L  |
| * Beryllium, Total                    | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0006 | 0.003  | U Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.03   | 0.1    | 1.78           | mg/L  |
| * Calcium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.1    | 0.5    | 69.8           | mg/L  |
| * Cadmium, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0003 | 0.001  | U Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0008 | 0.003  | U Not Detected | mg/L  |
| * Cobalt, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.005  | U Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 4/17/2019 | EPA 245.1   |          | 1     | 0.0003 | 0.0005 | U Not Detected | mg/L  |
| * Lithium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.01   | 0.02   | 0.0242         | mg/L  |
| * Molybdenum, Total                   | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 0.164          | mg/L  |
| * Lead, Total                         | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Selenium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0002 | 0.001  | U Not Detected | mg/L  |
| <b>General Characteristics</b>        |         |           |             |          |       |        |        |                |       |
| * Solids, Dissolved                   | CRB     | 4/11/2019 | SM 2540C    |          | 1     |        | 25     | 390            | mg/L  |
| Filter Completion Date                | CRB     | 4/8/2019  | SM 2540C    |          | 1     |        |        | 04/08/2019     | Date  |
| * Chloride                            | JCC     | 4/9/2019  | SM4500Cl E  |          | 3     | 1.50   | 3      | 39.9           | mg/L  |
| * Fluoride                            | JCC     | 4/9/2019  | SM4500F C   |          | 1     | 0.05   | 0.1    | J 0.0555       | mg/L  |
| * Sulfate                             | JCC     | 4/8/2019  | SM4500SO4 E |          | 10    | 5.00   | 10     | 122            | mg/L  |
| <b>Field Measurements</b>             |         |           |             |          |       |        |        |                |       |
| pH                                    | BTR     | 4/2/2019  |             |          |       |        |        | FA 7.47        | 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) 664-6032 or 6171  
 FAX (205) 257-1654

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 02-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-5

Laboratory ID Number: AZ08767

| Sample  | Analysis               | Units | MB          |         | Spike | MS      | MSD     | LCS     | LCS              |     | Rec   |           | Prec Limit |    |
|---------|------------------------|-------|-------------|---------|-------|---------|---------|---------|------------------|-----|-------|-----------|------------|----|
|         |                        |       | Limit       | MB      |       |         |         |         | Limit            | Rec | Limit | Prec      |            |    |
| AZ08769 | Arsenic, Total         | mg/L  | 0.0000129   | 0.0022  | 0.10  | 0.0976  | 0.0973  | 0.101   | 0.085 to 0.115   |     | 97.6  | 70 to 130 | 0.320      | 20 |
| AZ08769 | Barium, Total          | mg/L  | 0.00000645  | 0.0044  | 0.10  | 0.105   | 0.104   | 0.0989  | 0.085 to 0.115   |     | 98.6  | 70 to 130 | 0.570      | 20 |
| AZ08769 | Mercury, Total by CVAA | mg/L  | 0.0000120   | 0.0005  | 0.004 | 0.00396 | 0.00395 | 0.00381 | 0.0034 to 0.0046 |     | 98.9  | 70 to 130 | 0.276      | 20 |
| AZ08769 | Cadmium, Total         | mg/L  | -0.00000085 | 0.00066 | 0.10  | 0.0999  | 0.0981  | 0.0989  | 0.085 to 0.115   |     | 99.9  | 70 to 130 | 1.81       | 20 |
| AZ08769 | Selenium, Total        | mg/L  | 0.0000521   | 0.0044  | 0.10  | 0.0996  | 0.102   | 0.106   | 0.085 to 0.115   |     | 99.6  | 70 to 130 | 2.50       | 20 |
| AZ08769 | Beryllium, Total       | mg/L  | 0.0000276   | 0.00132 | 0.10  | 0.103   | 0.102   | 0.101   | 0.085 to 0.115   |     | 103   | 70 to 130 | 0.537      | 20 |
| AZ08769 | Chromium, Total        | mg/L  | 0.0000103   | 0.0044  | 0.10  | 0.100   | 0.0983  | 0.0996  | 0.085 to 0.115   |     | 100   | 70 to 130 | 1.95       | 20 |
| AZ08769 | Lithium, Total         | mg/L  | 0.0000223   | 0.022   | 0.20  | 0.208   | 0.205   | 0.201   | 0.17 to 0.23     |     | 104   | 70 to 130 | 1.60       | 20 |
| AZ08769 | Boron, Total           | mg/L  | 0.00143     | 0.044   | 1.00  | 0.998   | 0.988   | 1.00    | 0.85 to 1.15     |     | 99.8  | 70 to 130 | 1.06       | 20 |
| AZ08769 | Calcium, Total         | mg/L  | -0.000112   | 0.22    | 5.00  | 36.7    | 36.6    | 5.22    | 4.25 to 5.75     |     | 103   | 70 to 130 | 0.483      | 20 |
| AZ08769 | Lead, Total            | mg/L  | 0.00000474  | 0.0022  | 0.10  | 0.109   | 0.108   | 0.106   | 0.085 to 0.115   |     | 109   | 70 to 130 | 0.870      | 20 |
| AZ08769 | Cobalt, Total          | mg/L  | -0.00000276 | 0.0044  | 0.10  | 0.103   | 0.105   | 0.101   | 0.085 to 0.115   |     | 103   | 70 to 130 | 1.34       | 20 |
| AZ08769 | Molybdenum, Total      | mg/L  | 0.00000377  | 0.0044  | 0.10  | 0.110   | 0.112   | 0.101   | 0.085 to 0.115   |     | 103   | 70 to 130 | 1.34       | 20 |
| AZ08769 | Antimony, Total        | mg/L  | 0.000176    | 0.00176 | 0.10  | 0.0929  | 0.0925  | 0.0954  | 0.085 to 0.115   |     | 92.9  | 70 to 130 | 0.483      | 20 |
| AZ08769 | Thallium, Total        | mg/L  | 0.00000236  | 0.00044 | 0.10  | 0.108   | 0.105   | 0.106   | 0.085 to 0.115   |     | 108   | 70 to 130 | 2.28       | 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) 664-6032 or 6171  
 FAX (205) 257-1654

## Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 02-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-5

Laboratory ID Number: AZ08767

| Sample  | Analysis          | Units | MB      | MB    |       |      | Sample    |      | LCS          | Rec  |           | Prec  |       |
|---------|-------------------|-------|---------|-------|-------|------|-----------|------|--------------|------|-----------|-------|-------|
|         |                   |       |         | Limit | Spike | MS   | Duplicate | LCS  | Limit        | Rec  | Limit     | Prec  | Limit |
| AZ08769 | Chloride          | mg/L  | -0.0563 | 0.50  | 10.0  | 12.1 | 1.63      | 9.71 | 9 to 11      | 104  | 80 to 120 | 1.22  | 20    |
| AZ08769 | Fluoride          | mg/L  | 0.0281  | 0.05  | 2.50  | 2.61 | 0.0437    | 2.52 | 2.25 to 2.75 | 104  | 80 to 120 | 0.00  | 20    |
| AZ08769 | Solids, Dissolved | mg/L  | 0.0000  | 25    |       |      | 139       | 56.0 | 40 to 60     |      |           | 0.358 | 5     |
| AZ08769 | Sulfate           | mg/L  | -0.120  | 0.50  | 20.0  | 22.5 | 3.18      | 19.8 | 18 to 22     | 96.3 | 80 to 120 | 1.87  | 20    |

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Laboratory certification ID: E571114

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 FAX (205) 257-1654

# Certificate Of Analysis Alabama Power



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 02-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-4

Laboratory ID Number: AZ08768

| Name                                  | Analyst | Test Date | Reference   | Vio Spec | DF    | MDL    | RL     | Q Results      | Units |
|---------------------------------------|---------|-----------|-------------|----------|-------|--------|--------|----------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |             |          |       |        |        |                |       |
| * Arsenic, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Barium, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 0.0254         | mg/L  |
| * Beryllium, Total                    | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0006 | 0.003  | U Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.03   | 0.1    | 0.271          | mg/L  |
| * Calcium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.1    | 0.5    | 56.9           | mg/L  |
| * Cadmium, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0003 | 0.001  | U Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0008 | 0.003  | U Not Detected | mg/L  |
| * Cobalt, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.005  | U Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 4/17/2019 | EPA 245.1   |          | 1     | 0.0003 | 0.0005 | U Not Detected | mg/L  |
| * Lithium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.01   | 0.02   | U Not Detected | mg/L  |
| * Molybdenum, Total                   | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Lead, Total                         | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Selenium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0002 | 0.001  | U Not Detected | mg/L  |
| <b>General Characteristics</b>        |         |           |             |          |       |        |        |                |       |
| * Solids, Dissolved                   | CRB     | 4/11/2019 | SM 2540C    |          | 1     |        | 25     | 270            | mg/L  |
| Filter Completion Date                | CRB     | 4/8/2019  | SM 2540C    |          | 1     |        |        | 04/08/2019     | Date  |
| * Chloride                            | JCC     | 4/9/2019  | SM4500Cl E  |          | 1     | 0.50   | 1      | 18.3           | mg/L  |
| * Fluoride                            | JCC     | 4/9/2019  | SM4500F C   |          | 1     | 0.05   | 0.1    | U Not Detected | mg/L  |
| * Sulfate                             | JCC     | 4/8/2019  | SM4500SO4 E |          | 1     | 0.50   | 1      | 22.4           | mg/L  |
| <b>Field Measurements</b>             |         |           |             |          |       |        |        |                |       |
| pH                                    | BTR     | 4/2/2019  |             |          |       |        |        | FA 7.34        | 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  
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 Calera, AL 35040  
 (205) 664-6032 or 6171  
 FAX (205) 257-1654

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 02-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-4

Laboratory ID Number: AZ08768

| Sample  | Analysis               | Units | MB          |         | Spike | MS      | MSD     | LCS     | LCS              |     | Rec   |           | Prec Limit |    |
|---------|------------------------|-------|-------------|---------|-------|---------|---------|---------|------------------|-----|-------|-----------|------------|----|
|         |                        |       | MB          | Limit   |       |         |         |         | Limit            | Rec | Limit | Prec      |            |    |
| AZ08769 | Arsenic, Total         | mg/L  | 0.0000129   | 0.0022  | 0.10  | 0.0976  | 0.0973  | 0.101   | 0.085 to 0.115   |     | 97.6  | 70 to 130 | 0.320      | 20 |
| AZ08769 | Barium, Total          | mg/L  | 0.00000645  | 0.0044  | 0.10  | 0.105   | 0.104   | 0.0989  | 0.085 to 0.115   |     | 98.6  | 70 to 130 | 0.570      | 20 |
| AZ08769 | Mercury, Total by CVAA | mg/L  | 0.0000120   | 0.0005  | 0.004 | 0.00396 | 0.00395 | 0.00381 | 0.0034 to 0.0046 |     | 98.9  | 70 to 130 | 0.276      | 20 |
| AZ08769 | Cadmium, Total         | mg/L  | -0.00000085 | 0.00066 | 0.10  | 0.0999  | 0.0981  | 0.0989  | 0.085 to 0.115   |     | 99.9  | 70 to 130 | 1.81       | 20 |
| AZ08769 | Selenium, Total        | mg/L  | 0.0000521   | 0.0044  | 0.10  | 0.0996  | 0.102   | 0.106   | 0.085 to 0.115   |     | 99.6  | 70 to 130 | 2.50       | 20 |
| AZ08769 | Cobalt, Total          | mg/L  | -0.00000276 | 0.0044  | 0.10  | 0.103   | 0.105   | 0.101   | 0.085 to 0.115   |     | 103   | 70 to 130 | 1.34       | 20 |
| AZ08769 | Molybdenum, Total      | mg/L  | 0.00000377  | 0.0044  | 0.10  | 0.110   | 0.112   | 0.101   | 0.085 to 0.115   |     | 103   | 70 to 130 | 1.34       | 20 |
| AZ08769 | Antimony, Total        | mg/L  | 0.000176    | 0.00176 | 0.10  | 0.0929  | 0.0925  | 0.0954  | 0.085 to 0.115   |     | 92.9  | 70 to 130 | 0.483      | 20 |
| AZ08769 | Thallium, Total        | mg/L  | 0.00000236  | 0.00044 | 0.10  | 0.108   | 0.105   | 0.106   | 0.085 to 0.115   |     | 108   | 70 to 130 | 2.28       | 20 |
| AZ08769 | Beryllium, Total       | mg/L  | 0.0000276   | 0.00132 | 0.10  | 0.103   | 0.102   | 0.101   | 0.085 to 0.115   |     | 103   | 70 to 130 | 0.537      | 20 |
| AZ08769 | Chromium, Total        | mg/L  | 0.0000103   | 0.0044  | 0.10  | 0.100   | 0.0983  | 0.0996  | 0.085 to 0.115   |     | 100   | 70 to 130 | 1.95       | 20 |
| AZ08769 | Lithium, Total         | mg/L  | 0.0000223   | 0.022   | 0.20  | 0.208   | 0.205   | 0.201   | 0.17 to 0.23     |     | 104   | 70 to 130 | 1.60       | 20 |
| AZ08769 | Boron, Total           | mg/L  | 0.00143     | 0.044   | 1.00  | 0.998   | 0.988   | 1.00    | 0.85 to 1.15     |     | 99.8  | 70 to 130 | 1.06       | 20 |
| AZ08769 | Calcium, Total         | mg/L  | -0.000112   | 0.22    | 5.00  | 36.7    | 36.6    | 5.22    | 4.25 to 5.75     |     | 103   | 70 to 130 | 0.483      | 20 |
| AZ08769 | Lead, Total            | mg/L  | 0.00000474  | 0.0022  | 0.10  | 0.109   | 0.108   | 0.106   | 0.085 to 0.115   |     | 109   | 70 to 130 | 0.870      | 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  
 (205) 664-6032 or 6171  
 FAX (205) 257-1654

## Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 02-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-4

Laboratory ID Number: AZ08768

| Sample  | Analysis          | Units | MB      | MB Limit | Spike | MS   | Sample Duplicate | LCS  | LCS Limit    | Rec  | Rec Limit | Prec  | Prec Limit |
|---------|-------------------|-------|---------|----------|-------|------|------------------|------|--------------|------|-----------|-------|------------|
| AZ08769 | Solids, Dissolved | mg/L  | 0.0000  | 25       |       |      | 139              | 56.0 | 40 to 60     |      |           | 0.358 | 5          |
| AZ08769 | Sulfate           | mg/L  | -0.120  | 0.50     | 20.0  | 22.5 | 3.18             | 19.8 | 18 to 22     | 96.3 | 80 to 120 | 1.87  | 20         |
| AZ08769 | Chloride          | mg/L  | -0.0563 | 0.50     | 10.0  | 12.1 | 1.63             | 9.71 | 9 to 11      | 104  | 80 to 120 | 1.22  | 20         |
| AZ08769 | Fluoride          | mg/L  | 0.0281  | 0.05     | 2.50  | 2.61 | 0.0437           | 2.52 | 2.25 to 2.75 | 104  | 80 to 120 | 0.00  | 20         |

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Laboratory certification ID: E571114

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 FAX (205) 257-1654

# Certificate Of Analysis Alabama Power



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 02-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-3

Laboratory ID Number: AZ08769

| Name                                  | Analyst | Test Date | Reference   | Vio Spec | DF    | MDL    | RL     | Q Results      | Units |
|---------------------------------------|---------|-----------|-------------|----------|-------|--------|--------|----------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |             |          |       |        |        |                |       |
| * Arsenic, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Barium, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | J 0.00625      | mg/L  |
| * Beryllium, Total                    | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0006 | 0.003  | U Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.03   | 0.1    | U Not Detected | mg/L  |
| * Calcium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.1    | 0.5    | 31.6           | mg/L  |
| * Cadmium, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0003 | 0.001  | U Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0008 | 0.003  | U Not Detected | mg/L  |
| * Cobalt, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.005  | U Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 4/17/2019 | EPA 245.1   |          | 1     | 0.0003 | 0.0005 | U Not Detected | mg/L  |
| * Lithium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.01   | 0.02   | U Not Detected | mg/L  |
| * Molybdenum, Total                   | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | J 0.00766      | mg/L  |
| * Lead, Total                         | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Selenium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0002 | 0.001  | U Not Detected | mg/L  |
| <b>General Characteristics</b>        |         |           |             |          |       |        |        |                |       |
| * Solids, Dissolved                   | CRB     | 4/11/2019 | SM 2540C    |          | 1     |        | 25     | 140            | mg/L  |
| Filter Completion Date                | CRB     | 4/8/2019  | SM 2540C    |          | 1     |        |        | 04/08/2019     | Date  |
| * Chloride                            | JCC     | 4/9/2019  | SM4500Cl E  |          | 1     | 0.50   | 1      | 1.65           | mg/L  |
| * Fluoride                            | JCC     | 4/9/2019  | SM4500F C   |          | 1     | 0.05   | 0.1    | U Not Detected | mg/L  |
| * Sulfate                             | JCC     | 4/8/2019  | SM4500SO4 E |          | 1     | 0.50   | 1      | 3.24           | mg/L  |
| <b>Field Measurements</b>             |         |           |             |          |       |        |        |                |       |
| pH                                    | BTR     | 4/2/2019  |             |          |       |        |        | FA 7.8         | SU    |

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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:**



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

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 02-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-3

Laboratory ID Number: AZ08769

| Sample  | Analysis               | Units | MB          |         | Spike | MS      | MSD     | LCS     | LCS              |     | Rec   |           | Prec Limit |    |
|---------|------------------------|-------|-------------|---------|-------|---------|---------|---------|------------------|-----|-------|-----------|------------|----|
|         |                        |       | MB          | Limit   |       |         |         |         | Limit            | Rec | Limit | Prec      |            |    |
| AZ08769 | Arsenic, Total         | mg/L  | 0.0000129   | 0.0022  | 0.10  | 0.0976  | 0.0973  | 0.101   | 0.085 to 0.115   |     | 97.6  | 70 to 130 | 0.320      | 20 |
| AZ08769 | Barium, Total          | mg/L  | 0.00000645  | 0.0044  | 0.10  | 0.105   | 0.104   | 0.0989  | 0.085 to 0.115   |     | 98.6  | 70 to 130 | 0.570      | 20 |
| AZ08769 | Mercury, Total by CVAA | mg/L  | 0.0000120   | 0.0005  | 0.004 | 0.00396 | 0.00395 | 0.00381 | 0.0034 to 0.0046 |     | 98.9  | 70 to 130 | 0.276      | 20 |
| AZ08769 | Cadmium, Total         | mg/L  | -0.00000085 | 0.00066 | 0.10  | 0.0999  | 0.0981  | 0.0989  | 0.085 to 0.115   |     | 99.9  | 70 to 130 | 1.81       | 20 |
| AZ08769 | Selenium, Total        | mg/L  | 0.0000521   | 0.0044  | 0.10  | 0.0996  | 0.102   | 0.106   | 0.085 to 0.115   |     | 99.6  | 70 to 130 | 2.50       | 20 |
| AZ08769 | Beryllium, Total       | mg/L  | 0.0000276   | 0.00132 | 0.10  | 0.103   | 0.102   | 0.101   | 0.085 to 0.115   |     | 103   | 70 to 130 | 0.537      | 20 |
| AZ08769 | Chromium, Total        | mg/L  | 0.0000103   | 0.0044  | 0.10  | 0.100   | 0.0983  | 0.0996  | 0.085 to 0.115   |     | 100   | 70 to 130 | 1.95       | 20 |
| AZ08769 | Lithium, Total         | mg/L  | 0.0000223   | 0.022   | 0.20  | 0.208   | 0.205   | 0.201   | 0.17 to 0.23     |     | 104   | 70 to 130 | 1.60       | 20 |
| AZ08769 | Boron, Total           | mg/L  | 0.00143     | 0.044   | 1.00  | 0.998   | 0.988   | 1.00    | 0.85 to 1.15     |     | 99.8  | 70 to 130 | 1.06       | 20 |
| AZ08769 | Calcium, Total         | mg/L  | -0.000112   | 0.22    | 5.00  | 36.7    | 36.6    | 5.22    | 4.25 to 5.75     |     | 103   | 70 to 130 | 0.483      | 20 |
| AZ08769 | Lead, Total            | mg/L  | 0.00000474  | 0.0022  | 0.10  | 0.109   | 0.108   | 0.106   | 0.085 to 0.115   |     | 109   | 70 to 130 | 0.870      | 20 |
| AZ08769 | Cobalt, Total          | mg/L  | -0.00000276 | 0.0044  | 0.10  | 0.103   | 0.105   | 0.101   | 0.085 to 0.115   |     | 103   | 70 to 130 | 1.34       | 20 |
| AZ08769 | Molybdenum, Total      | mg/L  | 0.00000377  | 0.0044  | 0.10  | 0.110   | 0.112   | 0.101   | 0.085 to 0.115   |     | 103   | 70 to 130 | 1.34       | 20 |
| AZ08769 | Antimony, Total        | mg/L  | 0.000176    | 0.00176 | 0.10  | 0.0929  | 0.0925  | 0.0954  | 0.085 to 0.115   |     | 92.9  | 70 to 130 | 0.483      | 20 |
| AZ08769 | Thallium, Total        | mg/L  | 0.00000236  | 0.00044 | 0.10  | 0.108   | 0.105   | 0.106   | 0.085 to 0.115   |     | 108   | 70 to 130 | 2.28       | 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) 664-6032 or 6171  
 FAX (205) 257-1654

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 02-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-3

Laboratory ID Number: AZ08769

| Sample  | Analysis          | Units | MB      | MB Limit | Spike | MS   | Sample Duplicate | LCS  | LCS Limit    | Rec  | Rec Limit | Prec  | Prec Limit |
|---------|-------------------|-------|---------|----------|-------|------|------------------|------|--------------|------|-----------|-------|------------|
| AZ08769 | Solids, Dissolved | mg/L  | 0.0000  | 25       |       |      | 139              | 56.0 | 40 to 60     |      |           | 0.358 | 5          |
| AZ08769 | Chloride          | mg/L  | -0.0563 | 0.50     | 10.0  | 12.1 | 1.63             | 9.71 | 9 to 11      | 104  | 80 to 120 | 1.22  | 20         |
| AZ08769 | Sulfate           | mg/L  | -0.120  | 0.50     | 20.0  | 22.5 | 3.18             | 19.8 | 18 to 22     | 96.3 | 80 to 120 | 1.87  | 20         |
| AZ08769 | Fluoride          | mg/L  | 0.0281  | 0.05     | 2.50  | 2.61 | 0.0437           | 2.52 | 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 Alabama Power



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAPFB  
 Sample Date: 02-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond Field Blank

Laboratory ID Number: AZ08770

| Name                                  | Analyst | Test Date | Reference   | Vio Spec | DF    | MDL    | RL     | Q | Results      | Units |
|---------------------------------------|---------|-----------|-------------|----------|-------|--------|--------|---|--------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |             |          |       |        |        |   |              |       |
| * Arsenic, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U | Not Detected | mg/L  |
| * Barium, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U | Not Detected | mg/L  |
| * Beryllium, Total                    | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0006 | 0.003  | U | Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.03   | 0.1    | U | Not Detected | mg/L  |
| * Calcium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.1    | 0.5    | U | Not Detected | mg/L  |
| * Cadmium, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0003 | 0.001  | U | Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0008 | 0.003  | U | Not Detected | mg/L  |
| * Cobalt, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.005  | U | Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U | Not Detected | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 4/17/2019 | EPA 245.1   |          | 1     | 0.0003 | 0.0005 | U | Not Detected | mg/L  |
| * Lithium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.01   | 0.02   | U | Not Detected | mg/L  |
| * Molybdenum, Total                   | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U | Not Detected | mg/L  |
| * Lead, Total                         | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U | Not Detected | mg/L  |
| * Selenium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U | Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0002 | 0.001  | U | Not Detected | mg/L  |
| <b>General Characteristics</b>        |         |           |             |          |       |        |        |   |              |       |
| * Solids, Dissolved                   | CRB     | 4/11/2019 | SM 2540C    |          | 1     |        | 25     | U | Not Detected | mg/L  |
| Filter Completion Date                | CRB     | 4/8/2019  | SM 2540C    |          | 1     |        |        |   | 04/08/2019   | Date  |
| * Chloride                            | JCC     | 4/9/2019  | SM4500Cl E  |          | 1     | 0.50   | 1      | U | Not Detected | mg/L  |
| * Fluoride                            | JCC     | 4/9/2019  | SM4500F C   |          | 1     | 0.05   | 0.1    | U | Not Detected | mg/L  |
| * Sulfate                             | JCC     | 4/8/2019  | 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:**

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

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAPFB  
 Sample Date: 02-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond Field Blank

Laboratory ID Number: AZ08770

| Sample  | Analysis               | Units | MB          | MB      |       | MS      | MSD     | LCS     | LCS              |     | Rec   |           | Prec  |    |
|---------|------------------------|-------|-------------|---------|-------|---------|---------|---------|------------------|-----|-------|-----------|-------|----|
|         |                        |       |             | Limit   | Spike |         |         |         | Limit            | Rec | Limit | Prec      |       |    |
| AZ08779 | Mercury, Total by CVAA | mg/L  | 0.00000269  | 0.0005  | 0.004 | 0.00382 | 0.00382 | 0.00384 | 0.0034 to 0.0046 |     | 95.4  | 70 to 130 | 0.207 | 20 |
| AZ08779 | Beryllium, Total       | mg/L  | 0.0000276   | 0.00132 | 0.10  | 0.103   | 0.0988  | 0.101   | 0.085 to 0.115   |     | 103   | 70 to 130 | 3.74  | 20 |
| AZ08779 | Barium, Total          | mg/L  | 0.00000645  | 0.0044  | 0.10  | 0.122   | 0.120   | 0.0989  | 0.085 to 0.115   |     | 101   | 70 to 130 | 1.93  | 20 |
| AZ08779 | Boron, Total           | mg/L  | 0.000443    | 0.044   | 1.00  | 0.988   | 0.999   | 0.944   | 0.85 to 1.15     |     | 95.3  | 70 to 130 | 1.15  | 20 |
| AZ08779 | Chromium, Total        | mg/L  | 0.0000103   | 0.0044  | 0.10  | 0.0981  | 0.0994  | 0.0996  | 0.085 to 0.115   |     | 98.1  | 70 to 130 | 1.35  | 20 |
| AZ08779 | Calcium, Total         | mg/L  | 0.000588    | 0.22    | 5.00  | 55.1    | 55.3    | 5.00    | 4.25 to 5.75     |     | 92.2  | 70 to 130 | 0.290 | 20 |
| AZ08779 | Cadmium, Total         | mg/L  | -0.00000085 | 0.00066 | 0.10  | 0.102   | 0.0981  | 0.0989  | 0.085 to 0.115   |     | 102   | 70 to 130 | 4.11  | 20 |
| AZ08779 | Thallium, Total        | mg/L  | 0.00000236  | 0.00044 | 0.10  | 0.107   | 0.105   | 0.106   | 0.085 to 0.115   |     | 107   | 70 to 130 | 2.46  | 20 |
| AZ08779 | Lithium, Total         | mg/L  | -0.000327   | 0.022   | 0.20  | 0.210   | 0.211   | 0.198   | 0.17 to 0.23     |     | 105   | 70 to 130 | 0.187 | 20 |
| AZ08779 | Molybdenum, Total      | mg/L  | 0.00000377  | 0.0044  | 0.10  | 0.106   | 0.102   | 0.101   | 0.085 to 0.115   |     | 106   | 70 to 130 | 4.17  | 20 |
| AZ08779 | Arsenic, Total         | mg/L  | 0.0000129   | 0.0022  | 0.10  | 0.0983  | 0.0995  | 0.101   | 0.085 to 0.115   |     | 96.5  | 70 to 130 | 1.27  | 20 |
| AZ08779 | Cobalt, Total          | mg/L  | -0.00000276 | 0.0044  | 0.10  | 0.106   | 0.101   | 0.101   | 0.085 to 0.115   |     | 106   | 70 to 130 | 4.74  | 20 |
| AZ08779 | Selenium, Total        | mg/L  | 0.0000521   | 0.0044  | 0.10  | 0.103   | 0.0974  | 0.106   | 0.085 to 0.115   |     | 103   | 70 to 130 | 5.88  | 20 |
| AZ08779 | Lead, Total            | mg/L  | 0.00000474  | 0.0022  | 0.10  | 0.111   | 0.107   | 0.106   | 0.085 to 0.115   |     | 111   | 70 to 130 | 3.34  | 20 |
| AZ08779 | Antimony, Total        | mg/L  | 0.000176    | 0.00176 | 0.10  | 0.0957  | 0.0943  | 0.0954  | 0.085 to 0.115   |     | 95.7  | 70 to 130 | 1.50  | 20 |

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

**Comments:**

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

## Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAPFB  
 Sample Date: 02-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond Field Blank

Laboratory ID Number: AZ08770

| Sample  | Analysis          | Units | MB      | MB    |       |      | Sample    |      | LCS          | Rec  |           | Prec |       |
|---------|-------------------|-------|---------|-------|-------|------|-----------|------|--------------|------|-----------|------|-------|
|         |                   |       |         | Limit | Spike | MS   | Duplicate | LCS  | Limit        | Rec  | Limit     | Prec | Limit |
| AZ08779 | Chloride          | mg/L  | -0.0597 | 0.50  | 10.0  | 14.2 | 3.94      | 9.84 | 9 to 11      | 103  | 80 to 120 | 1.02 | 20    |
| AZ08779 | Fluoride          | mg/L  | 0.0175  | 0.05  | 2.50  | 2.67 | 0.0938    | 2.52 | 2.25 to 2.75 | 103  | 80 to 120 | 1.90 | 20    |
| AZ08779 | Sulfate           | mg/L  | -0.0869 | 0.50  | 20.0  | 21.4 | 1.78      | 19.7 | 18 to 22     | 98.0 | 80 to 120 | 1.12 | 20    |
| AZ08779 | Solids, Dissolved | mg/L  | 0.0000  | 25    |       |      | 259       | 56.0 | 40 to 60     |      |           | 1.71 | 5     |

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Laboratory certification ID: E571114

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Comments:

CC:

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

# Certificate Of Analysis Alabama Power



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-20

Laboratory ID Number: AZ08771

| Name                                  | Analyst | Test Date | Reference   | Vio Spec | DF    | MDL    | RL     | Q Results      | Units |
|---------------------------------------|---------|-----------|-------------|----------|-------|--------|--------|----------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |             |          |       |        |        |                |       |
| * Arsenic, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | J 0.00398      | mg/L  |
| * Barium, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 0.0599         | mg/L  |
| * Beryllium, Total                    | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0006 | 0.003  | U Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.03   | 0.1    | 3.77           | mg/L  |
| * Calcium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 10.15 | 1.015  | 5.075  | 206            | mg/L  |
| * Cadmium, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0003 | 0.001  | U Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0008 | 0.003  | U Not Detected | mg/L  |
| * Cobalt, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.005  | U Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 4/17/2019 | EPA 245.1   |          | 1     | 0.0003 | 0.0005 | U Not Detected | mg/L  |
| * Lithium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.01   | 0.02   | 0.115          | mg/L  |
| * Molybdenum, Total                   | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 0.803          | mg/L  |
| * Lead, Total                         | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Selenium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0002 | 0.001  | U Not Detected | mg/L  |
| <b>General Characteristics</b>        |         |           |             |          |       |        |        |                |       |
| * Solids, Dissolved                   | CRB     | 4/11/2019 | SM 2540C    |          | 1     |        | 50     | 910            | mg/L  |
| Filter Completion Date                | CRB     | 4/8/2019  | SM 2540C    |          | 1     |        |        | 04/08/2019     | Date  |
| * Chloride                            | JCC     | 4/9/2019  | SM4500Cl E  |          | 1     | 0.50   | 1      | 17.9           | mg/L  |
| * Fluoride                            | JCC     | 4/9/2019  | SM4500F C   |          | 1     | 0.05   | 0.1    | J 0.0657       | mg/L  |
| * Sulfate                             | JCC     | 4/8/2019  | SM4500SO4 E |          | 40    | 20.00  | 40     | 577            | mg/L  |
| <b>Field Measurements</b>             |         |           |             |          |       |        |        |                |       |
| pH                                    | BTR     | 4/3/2019  |             |          |       |        |        | FA 7.45        | 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) 664-6032 or 6171  
 FAX (205) 257-1654

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-20

Laboratory ID Number: AZ08771

| Sample  | Analysis               | Units | MB          | MB      |       |         | LCS     |         |                  | Rec  |           | Prec  |    |
|---------|------------------------|-------|-------------|---------|-------|---------|---------|---------|------------------|------|-----------|-------|----|
|         |                        |       |             | Limit   | Spike | MS      | MSD     | LCS     | Limit            | Rec  | Limit     | Prec  |    |
| AZ08779 | Beryllium, Total       | mg/L  | 0.0000276   | 0.00132 | 0.10  | 0.103   | 0.0988  | 0.101   | 0.085 to 0.115   | 103  | 70 to 130 | 3.74  | 20 |
| AZ08779 | Mercury, Total by CVAA | mg/L  | 0.00000269  | 0.0005  | 0.004 | 0.00382 | 0.00382 | 0.00384 | 0.0034 to 0.0046 | 95.4 | 70 to 130 | 0.207 | 20 |
| AZ08779 | Lead, Total            | mg/L  | 0.00000474  | 0.0022  | 0.10  | 0.111   | 0.107   | 0.106   | 0.085 to 0.115   | 111  | 70 to 130 | 3.34  | 20 |
| AZ08779 | Antimony, Total        | mg/L  | 0.000176    | 0.00176 | 0.10  | 0.0957  | 0.0943  | 0.0954  | 0.085 to 0.115   | 95.7 | 70 to 130 | 1.50  | 20 |
| AZ08779 | Barium, Total          | mg/L  | 0.00000645  | 0.0044  | 0.10  | 0.122   | 0.120   | 0.0989  | 0.085 to 0.115   | 101  | 70 to 130 | 1.93  | 20 |
| AZ08779 | Boron, Total           | mg/L  | 0.000443    | 0.044   | 1.00  | 0.988   | 0.999   | 0.944   | 0.85 to 1.15     | 95.3 | 70 to 130 | 1.15  | 20 |
| AZ08779 | Chromium, Total        | mg/L  | 0.0000103   | 0.0044  | 0.10  | 0.0981  | 0.0994  | 0.0996  | 0.085 to 0.115   | 98.1 | 70 to 130 | 1.35  | 20 |
| AZ08779 | Arsenic, Total         | mg/L  | 0.0000129   | 0.0022  | 0.10  | 0.0983  | 0.0995  | 0.101   | 0.085 to 0.115   | 96.5 | 70 to 130 | 1.27  | 20 |
| AZ08779 | Cobalt, Total          | mg/L  | -0.00000276 | 0.0044  | 0.10  | 0.106   | 0.101   | 0.101   | 0.085 to 0.115   | 106  | 70 to 130 | 4.74  | 20 |
| AZ08779 | Selenium, Total        | mg/L  | 0.0000521   | 0.0044  | 0.10  | 0.103   | 0.0974  | 0.106   | 0.085 to 0.115   | 103  | 70 to 130 | 5.88  | 20 |
| AZ08779 | Calcium, Total         | mg/L  | 0.000588    | 0.22    | 5.00  | 55.1    | 55.3    | 5.00    | 4.25 to 5.75     | 92.2 | 70 to 130 | 0.290 | 20 |
| AZ08779 | Cadmium, Total         | mg/L  | -0.00000085 | 0.00066 | 0.10  | 0.102   | 0.0981  | 0.0989  | 0.085 to 0.115   | 102  | 70 to 130 | 4.11  | 20 |
| AZ08779 | Thallium, Total        | mg/L  | 0.00000236  | 0.00044 | 0.10  | 0.107   | 0.105   | 0.106   | 0.085 to 0.115   | 107  | 70 to 130 | 2.46  | 20 |
| AZ08779 | Lithium, Total         | mg/L  | -0.000327   | 0.022   | 0.20  | 0.210   | 0.211   | 0.198   | 0.17 to 0.23     | 105  | 70 to 130 | 0.187 | 20 |
| AZ08779 | Molybdenum, Total      | mg/L  | 0.00000377  | 0.0044  | 0.10  | 0.106   | 0.102   | 0.101   | 0.085 to 0.115   | 106  | 70 to 130 | 4.17  | 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) 664-6032 or 6171  
 FAX (205) 257-1654

## Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-20

Laboratory ID Number: AZ08771

| Sample  | Analysis          | Units | MB      | MB    |       |      | Sample    |      | LCS          | Rec  |           | Prec |       |
|---------|-------------------|-------|---------|-------|-------|------|-----------|------|--------------|------|-----------|------|-------|
|         |                   |       |         | Limit | Spike | MS   | Duplicate | LCS  | Limit        | Rec  | Limit     | Prec | Limit |
| AZ08779 | Fluoride          | mg/L  | 0.0175  | 0.05  | 2.50  | 2.67 | 0.0938    | 2.52 | 2.25 to 2.75 | 103  | 80 to 120 | 1.90 | 20    |
| AZ08779 | Sulfate           | mg/L  | -0.0869 | 0.50  | 20.0  | 21.4 | 1.78      | 19.7 | 18 to 22     | 98.0 | 80 to 120 | 1.12 | 20    |
| AZ08779 | Solids, Dissolved | mg/L  | 0.0000  | 25    |       |      | 259       | 56.0 | 40 to 60     |      |           | 1.71 | 5     |
| AZ08779 | Chloride          | mg/L  | -0.0597 | 0.50  | 10.0  | 14.2 | 3.94      | 9.84 | 9 to 11      | 103  | 80 to 120 | 1.02 | 20    |

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Laboratory certification ID: E571114

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**Comments:**

CC:



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

**Certificate Of Analysis**  **Alabama Power**



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-18

Laboratory ID Number: AZ08772

| Name                                  | Analyst | Test Date | Reference   | Vio Spec | DF    | MDL    | RL     | Q Results      | Units |
|---------------------------------------|---------|-----------|-------------|----------|-------|--------|--------|----------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |             |          |       |        |        |                |       |
| * Arsenic, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | 0.00670        | mg/L  |
| * Barium, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 0.0450         | mg/L  |
| * Beryllium, Total                    | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0006 | 0.003  | U Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.03   | 0.1    | 1.27           | mg/L  |
| * Calcium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 10.15 | 1.015  | 5.075  | 139            | mg/L  |
| * Cadmium, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0003 | 0.001  | U Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0008 | 0.003  | U Not Detected | mg/L  |
| * Cobalt, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.005  | U Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 4/17/2019 | EPA 245.1   |          | 1     | 0.0003 | 0.0005 | U Not Detected | mg/L  |
| * Lithium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.01   | 0.02   | 0.0393         | mg/L  |
| * Molybdenum, Total                   | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 0.0214         | mg/L  |
| * Lead, Total                         | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Selenium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0002 | 0.001  | J 0.000340     | mg/L  |
| <b>General Characteristics</b>        |         |           |             |          |       |        |        |                |       |
| * Solids, Dissolved                   | CRB     | 4/11/2019 | SM 2540C    |          | 1     |        | 50     | 560            | mg/L  |
| Filter Completion Date                | CRB     | 4/8/2019  | SM 2540C    |          | 1     |        |        | 04/08/2019     | Date  |
| * Chloride                            | JCC     | 4/9/2019  | SM4500Cl E  |          | 1     | 0.50   | 1      | 12.1           | mg/L  |
| * Fluoride                            | JCC     | 4/9/2019  | SM4500F C   |          | 1     | 0.05   | 0.1    | J 0.0678       | mg/L  |
| * Sulfate                             | JCC     | 4/8/2019  | SM4500SO4 E |          | 20    | 10.00  | 20     | 168            | mg/L  |
| <b>Field Measurements</b>             |         |           |             |          |       |        |        |                |       |
| pH                                    | BTR     | 4/3/2019  |             |          |       |        |        | FA 6.9         | 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) 664-6032 or 6171  
 FAX (205) 257-1654

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-18

Laboratory ID Number: AZ08772

| Sample  | Analysis               | Units | MB          |         | MS    | MSD     | LCS     | LCS     |                  | Rec   |           | Prec  | Limit |
|---------|------------------------|-------|-------------|---------|-------|---------|---------|---------|------------------|-------|-----------|-------|-------|
|         |                        |       | MB          | Limit   |       |         |         | Limit   | Rec              | Limit | Prec      |       |       |
| AZ08779 | Mercury, Total by CVAA | mg/L  | 0.0000269   | 0.0005  | 0.004 | 0.00382 | 0.00382 | 0.00384 | 0.0034 to 0.0046 | 95.4  | 70 to 130 | 0.207 | 20    |
| AZ08779 | Beryllium, Total       | mg/L  | 0.0000276   | 0.00132 | 0.10  | 0.103   | 0.0988  | 0.101   | 0.085 to 0.115   | 103   | 70 to 130 | 3.74  | 20    |
| AZ08779 | Lead, Total            | mg/L  | 0.00000474  | 0.0022  | 0.10  | 0.111   | 0.107   | 0.106   | 0.085 to 0.115   | 111   | 70 to 130 | 3.34  | 20    |
| AZ08779 | Antimony, Total        | mg/L  | 0.000176    | 0.00176 | 0.10  | 0.0957  | 0.0943  | 0.0954  | 0.085 to 0.115   | 95.7  | 70 to 130 | 1.50  | 20    |
| AZ08779 | Calcium, Total         | mg/L  | 0.000588    | 0.22    | 5.00  | 55.1    | 55.3    | 5.00    | 4.25 to 5.75     | 92.2  | 70 to 130 | 0.290 | 20    |
| AZ08779 | Cadmium, Total         | mg/L  | -0.00000085 | 0.00066 | 0.10  | 0.102   | 0.0981  | 0.0989  | 0.085 to 0.115   | 102   | 70 to 130 | 4.11  | 20    |
| AZ08779 | Thallium, Total        | mg/L  | 0.00000236  | 0.00044 | 0.10  | 0.107   | 0.105   | 0.106   | 0.085 to 0.115   | 107   | 70 to 130 | 2.46  | 20    |
| AZ08779 | Barium, Total          | mg/L  | 0.00000645  | 0.0044  | 0.10  | 0.122   | 0.120   | 0.0989  | 0.085 to 0.115   | 101   | 70 to 130 | 1.93  | 20    |
| AZ08779 | Boron, Total           | mg/L  | 0.000443    | 0.044   | 1.00  | 0.988   | 0.999   | 0.944   | 0.85 to 1.15     | 95.3  | 70 to 130 | 1.15  | 20    |
| AZ08779 | Chromium, Total        | mg/L  | 0.0000103   | 0.0044  | 0.10  | 0.0981  | 0.0994  | 0.0996  | 0.085 to 0.115   | 98.1  | 70 to 130 | 1.35  | 20    |
| AZ08779 | Lithium, Total         | mg/L  | -0.000327   | 0.022   | 0.20  | 0.210   | 0.211   | 0.198   | 0.17 to 0.23     | 105   | 70 to 130 | 0.187 | 20    |
| AZ08779 | Molybdenum, Total      | mg/L  | 0.00000377  | 0.0044  | 0.10  | 0.106   | 0.102   | 0.101   | 0.085 to 0.115   | 106   | 70 to 130 | 4.17  | 20    |
| AZ08779 | Arsenic, Total         | mg/L  | 0.0000129   | 0.0022  | 0.10  | 0.0983  | 0.0995  | 0.101   | 0.085 to 0.115   | 96.5  | 70 to 130 | 1.27  | 20    |
| AZ08779 | Cobalt, Total          | mg/L  | -0.00000276 | 0.0044  | 0.10  | 0.106   | 0.101   | 0.101   | 0.085 to 0.115   | 106   | 70 to 130 | 4.74  | 20    |
| AZ08779 | Selenium, Total        | mg/L  | 0.0000521   | 0.0044  | 0.10  | 0.103   | 0.0974  | 0.106   | 0.085 to 0.115   | 103   | 70 to 130 | 5.88  | 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  
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 Calera, AL 35040  
 (205) 664-6032 or 6171  
 FAX (205) 257-1654

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-18

Laboratory ID Number: AZ08772

| Sample  | Analysis          | Units | MB      | MB    |       |      | Sample    |      | LCS          | Rec  |           | Prec |       |
|---------|-------------------|-------|---------|-------|-------|------|-----------|------|--------------|------|-----------|------|-------|
|         |                   |       |         | Limit | Spike | MS   | Duplicate | LCS  | Limit        | Rec  | Limit     | Prec | Limit |
| AZ08779 | Chloride          | mg/L  | -0.0597 | 0.50  | 10.0  | 14.2 | 3.94      | 9.84 | 9 to 11      | 103  | 80 to 120 | 1.02 | 20    |
| AZ08779 | Fluoride          | mg/L  | 0.0175  | 0.05  | 2.50  | 2.67 | 0.0938    | 2.52 | 2.25 to 2.75 | 103  | 80 to 120 | 1.90 | 20    |
| AZ08779 | Sulfate           | mg/L  | -0.0869 | 0.50  | 20.0  | 21.4 | 1.78      | 19.7 | 18 to 22     | 98.0 | 80 to 120 | 1.12 | 20    |
| AZ08779 | Solids, Dissolved | mg/L  | 0.0000  | 25    |       |      | 259       | 56.0 | 40 to 60     |      |           | 1.71 | 5     |

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

**Comments:**

CC:

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

# Certificate Of Analysis Alabama Power



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-17

Laboratory ID Number: AZ08773

| Name                                  | Analyst | Test Date | Reference   | Vio Spec | DF    | MDL    | RL     | Q Results      | Units |
|---------------------------------------|---------|-----------|-------------|----------|-------|--------|--------|----------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |             |          |       |        |        |                |       |
| * Arsenic, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | 0.0106         | mg/L  |
| * Barium, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 0.105          | mg/L  |
| * Beryllium, Total                    | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0006 | 0.003  | U Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.03   | 0.1    | 2.92           | mg/L  |
| * Calcium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 10.15 | 1.015  | 5.075  | 116            | mg/L  |
| * Cadmium, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0003 | 0.001  | J 0.000510     | mg/L  |
| * Antimony, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0008 | 0.003  | J 0.00135      | mg/L  |
| * Cobalt, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.005  | U Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 4/17/2019 | EPA 245.1   |          | 1     | 0.0003 | 0.0005 | U Not Detected | mg/L  |
| * Lithium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.01   | 0.02   | 0.716          | mg/L  |
| * Molybdenum, Total                   | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 2.33           | mg/L  |
| * Lead, Total                         | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Selenium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0002 | 0.001  | U Not Detected | mg/L  |
| <b>General Characteristics</b>        |         |           |             |          |       |        |        |                |       |
| * Solids, Dissolved                   | CRB     | 4/11/2019 | SM 2540C    |          | 1     |        | 50     | 536            | mg/L  |
| Filter Completion Date                | CRB     | 4/8/2019  | SM 2540C    |          | 1     |        |        | 04/08/2019     | Date  |
| * Chloride                            | JCC     | 4/9/2019  | SM4500Cl E  |          | 3     | 1.50   | 3      | 38.0           | mg/L  |
| * Fluoride                            | JCC     | 4/9/2019  | SM4500F C   |          | 1     | 0.05   | 0.1    | 0.182          | mg/L  |
| * Sulfate                             | JCC     | 4/8/2019  | SM4500SO4 E |          | 20    | 10.00  | 20     | 346            | mg/L  |
| <b>Field Measurements</b>             |         |           |             |          |       |        |        |                |       |
| pH                                    | BTR     | 4/3/2019  |             |          |       |        |        | FA 9.56        | SU    |

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Laboratory certification ID: E571114

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Expiration: June 30, 2019

**Comments:**

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

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-17

Laboratory ID Number: AZ08773

| Sample  | Analysis               | Units | MB          |         | MS    | MSD     | LCS     | LCS     |                  | Rec   |           | Prec  | Limit |
|---------|------------------------|-------|-------------|---------|-------|---------|---------|---------|------------------|-------|-----------|-------|-------|
|         |                        |       | MB          | Limit   |       |         |         | Limit   | Rec              | Limit | Prec      |       |       |
| AZ08779 | Mercury, Total by CVAA | mg/L  | 0.00000269  | 0.0005  | 0.004 | 0.00382 | 0.00382 | 0.00384 | 0.0034 to 0.0046 | 95.4  | 70 to 130 | 0.207 | 20    |
| AZ08779 | Beryllium, Total       | mg/L  | 0.0000276   | 0.00132 | 0.10  | 0.103   | 0.0988  | 0.101   | 0.085 to 0.115   | 103   | 70 to 130 | 3.74  | 20    |
| AZ08779 | Barium, Total          | mg/L  | 0.00000645  | 0.0044  | 0.10  | 0.122   | 0.120   | 0.0989  | 0.085 to 0.115   | 101   | 70 to 130 | 1.93  | 20    |
| AZ08779 | Boron, Total           | mg/L  | 0.000443    | 0.044   | 1.00  | 0.988   | 0.999   | 0.944   | 0.85 to 1.15     | 95.3  | 70 to 130 | 1.15  | 20    |
| AZ08779 | Chromium, Total        | mg/L  | 0.0000103   | 0.0044  | 0.10  | 0.0981  | 0.0994  | 0.0996  | 0.085 to 0.115   | 98.1  | 70 to 130 | 1.35  | 20    |
| AZ08779 | Lead, Total            | mg/L  | 0.00000474  | 0.0022  | 0.10  | 0.111   | 0.107   | 0.106   | 0.085 to 0.115   | 111   | 70 to 130 | 3.34  | 20    |
| AZ08779 | Antimony, Total        | mg/L  | 0.000176    | 0.00176 | 0.10  | 0.0957  | 0.0943  | 0.0954  | 0.085 to 0.115   | 95.7  | 70 to 130 | 1.50  | 20    |
| AZ08779 | Lithium, Total         | mg/L  | -0.000327   | 0.022   | 0.20  | 0.210   | 0.211   | 0.198   | 0.17 to 0.23     | 105   | 70 to 130 | 0.187 | 20    |
| AZ08779 | Molybdenum, Total      | mg/L  | 0.00000377  | 0.0044  | 0.10  | 0.106   | 0.102   | 0.101   | 0.085 to 0.115   | 106   | 70 to 130 | 4.17  | 20    |
| AZ08779 | Calcium, Total         | mg/L  | 0.000588    | 0.22    | 5.00  | 55.1    | 55.3    | 5.00    | 4.25 to 5.75     | 92.2  | 70 to 130 | 0.290 | 20    |
| AZ08779 | Cadmium, Total         | mg/L  | -0.00000085 | 0.00066 | 0.10  | 0.102   | 0.0981  | 0.0989  | 0.085 to 0.115   | 102   | 70 to 130 | 4.11  | 20    |
| AZ08779 | Thallium, Total        | mg/L  | 0.00000236  | 0.00044 | 0.10  | 0.107   | 0.105   | 0.106   | 0.085 to 0.115   | 107   | 70 to 130 | 2.46  | 20    |
| AZ08779 | Arsenic, Total         | mg/L  | 0.0000129   | 0.0022  | 0.10  | 0.0983  | 0.0995  | 0.101   | 0.085 to 0.115   | 96.5  | 70 to 130 | 1.27  | 20    |
| AZ08779 | Cobalt, Total          | mg/L  | -0.00000276 | 0.0044  | 0.10  | 0.106   | 0.101   | 0.101   | 0.085 to 0.115   | 106   | 70 to 130 | 4.74  | 20    |
| AZ08779 | Selenium, Total        | mg/L  | 0.0000521   | 0.0044  | 0.10  | 0.103   | 0.0974  | 0.106   | 0.085 to 0.115   | 103   | 70 to 130 | 5.88  | 20    |

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

**Comments:**

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

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-17

Laboratory ID Number: AZ08773

| Sample  | Analysis          | Units | MB      | MB    |       |      | Sample    |      | LCS          | Rec  |           | Prec |       |
|---------|-------------------|-------|---------|-------|-------|------|-----------|------|--------------|------|-----------|------|-------|
|         |                   |       |         | Limit | Spike | MS   | Duplicate | LCS  | Limit        | Rec  | Limit     | Prec | Limit |
| AZ08779 | Fluoride          | mg/L  | 0.0175  | 0.05  | 2.50  | 2.67 | 0.0938    | 2.52 | 2.25 to 2.75 | 103  | 80 to 120 | 1.90 | 20    |
| AZ08779 | Chloride          | mg/L  | -0.0597 | 0.50  | 10.0  | 14.2 | 3.94      | 9.84 | 9 to 11      | 103  | 80 to 120 | 1.02 | 20    |
| AZ08779 | Sulfate           | mg/L  | -0.0869 | 0.50  | 20.0  | 21.4 | 1.78      | 19.7 | 18 to 22     | 98.0 | 80 to 120 | 1.12 | 20    |
| AZ08779 | Solids, Dissolved | mg/L  | 0.0000  | 25    |       |      | 259       | 56.0 | 40 to 60     |      |           | 1.71 | 5     |

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Laboratory certification ID: E571114

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CC:

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 (205) 664-6032 or 6171  
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**Certificate Of Analysis**  **Alabama Power**



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-16

Laboratory ID Number: AZ08774

| Name                                  | Analyst | Test Date | Reference   | Vio Spec | DF    | MDL    | RL     | Q Results      | Units |
|---------------------------------------|---------|-----------|-------------|----------|-------|--------|--------|----------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |             |          |       |        |        |                |       |
| * Arsenic, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | J 0.00466      | mg/L  |
| * Barium, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 0.0335         | mg/L  |
| * Beryllium, Total                    | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0006 | 0.003  | U Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.03   | 0.1    | 1.32           | mg/L  |
| * Calcium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.1    | 0.5    | 45.7           | mg/L  |
| * Cadmium, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0003 | 0.001  | U Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0008 | 0.003  | U Not Detected | mg/L  |
| * Cobalt, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.005  | U Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 4/17/2019 | EPA 245.1   |          | 1     | 0.0003 | 0.0005 | U Not Detected | mg/L  |
| * Lithium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.01   | 0.02   | 0.0814         | mg/L  |
| * Molybdenum, Total                   | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 0.311          | mg/L  |
| * Lead, Total                         | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Selenium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0002 | 0.001  | U Not Detected | mg/L  |
| <b>General Characteristics</b>        |         |           |             |          |       |        |        |                |       |
| * Solids, Dissolved                   | CRB     | 4/11/2019 | SM 2540C    |          | 1     |        | 25     | 273            | mg/L  |
| Filter Completion Date                | CRB     | 4/8/2019  | SM 2540C    |          | 1     |        |        | 04/08/2019     | Date  |
| * Chloride                            | JCC     | 4/9/2019  | SM4500Cl E  |          | 1     | 0.50   | 1      | 15.9           | mg/L  |
| * Fluoride                            | JCC     | 4/9/2019  | SM4500F C   |          | 1     | 0.05   | 0.1    | 0.120          | mg/L  |
| * Sulfate                             | JCC     | 4/8/2019  | SM4500SO4 E |          | 20    | 10.00  | 20     | 161            | mg/L  |
| <b>Field Measurements</b>             |         |           |             |          |       |        |        |                |       |
| pH                                    | BTR     | 4/3/2019  |             |          |       |        |        | FA 8.3         | 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) 664-6032 or 6171  
 FAX (205) 257-1654

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-16

Laboratory ID Number: AZ08774

| Sample  | Analysis               | Units | MB          |         | Spike | MS      | MSD     | LCS     | LCS              |     | Rec   |           | Prec  | Limit |
|---------|------------------------|-------|-------------|---------|-------|---------|---------|---------|------------------|-----|-------|-----------|-------|-------|
|         |                        |       | MB          | Limit   |       |         |         |         | Limit            | Rec | Limit | Prec      |       |       |
| AZ08779 | Mercury, Total by CVAA | mg/L  | 0.00000269  | 0.0005  | 0.004 | 0.00382 | 0.00382 | 0.00384 | 0.0034 to 0.0046 |     | 95.4  | 70 to 130 | 0.207 | 20    |
| AZ08779 | Beryllium, Total       | mg/L  | 0.0000276   | 0.00132 | 0.10  | 0.103   | 0.0988  | 0.101   | 0.085 to 0.115   |     | 103   | 70 to 130 | 3.74  | 20    |
| AZ08779 | Lithium, Total         | mg/L  | -0.000327   | 0.022   | 0.20  | 0.210   | 0.211   | 0.198   | 0.17 to 0.23     |     | 105   | 70 to 130 | 0.187 | 20    |
| AZ08779 | Molybdenum, Total      | mg/L  | 0.00000377  | 0.0044  | 0.10  | 0.106   | 0.102   | 0.101   | 0.085 to 0.115   |     | 106   | 70 to 130 | 4.17  | 20    |
| AZ08779 | Lead, Total            | mg/L  | 0.00000474  | 0.0022  | 0.10  | 0.111   | 0.107   | 0.106   | 0.085 to 0.115   |     | 111   | 70 to 130 | 3.34  | 20    |
| AZ08779 | Antimony, Total        | mg/L  | 0.000176    | 0.00176 | 0.10  | 0.0957  | 0.0943  | 0.0954  | 0.085 to 0.115   |     | 95.7  | 70 to 130 | 1.50  | 20    |
| AZ08779 | Barium, Total          | mg/L  | 0.00000645  | 0.0044  | 0.10  | 0.122   | 0.120   | 0.0989  | 0.085 to 0.115   |     | 101   | 70 to 130 | 1.93  | 20    |
| AZ08779 | Boron, Total           | mg/L  | 0.000443    | 0.044   | 1.00  | 0.988   | 0.999   | 0.944   | 0.85 to 1.15     |     | 95.3  | 70 to 130 | 1.15  | 20    |
| AZ08779 | Chromium, Total        | mg/L  | 0.0000103   | 0.0044  | 0.10  | 0.0981  | 0.0994  | 0.0996  | 0.085 to 0.115   |     | 98.1  | 70 to 130 | 1.35  | 20    |
| AZ08779 | Calcium, Total         | mg/L  | 0.000588    | 0.22    | 5.00  | 55.1    | 55.3    | 5.00    | 4.25 to 5.75     |     | 92.2  | 70 to 130 | 0.290 | 20    |
| AZ08779 | Cadmium, Total         | mg/L  | -0.00000085 | 0.00066 | 0.10  | 0.102   | 0.0981  | 0.0989  | 0.085 to 0.115   |     | 102   | 70 to 130 | 4.11  | 20    |
| AZ08779 | Thallium, Total        | mg/L  | 0.00000236  | 0.00044 | 0.10  | 0.107   | 0.105   | 0.106   | 0.085 to 0.115   |     | 107   | 70 to 130 | 2.46  | 20    |
| AZ08779 | Arsenic, Total         | mg/L  | 0.0000129   | 0.0022  | 0.10  | 0.0983  | 0.0995  | 0.101   | 0.085 to 0.115   |     | 96.5  | 70 to 130 | 1.27  | 20    |
| AZ08779 | Cobalt, Total          | mg/L  | -0.00000276 | 0.0044  | 0.10  | 0.106   | 0.101   | 0.101   | 0.085 to 0.115   |     | 106   | 70 to 130 | 4.74  | 20    |
| AZ08779 | Selenium, Total        | mg/L  | 0.0000521   | 0.0044  | 0.10  | 0.103   | 0.0974  | 0.106   | 0.085 to 0.115   |     | 103   | 70 to 130 | 5.88  | 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:**



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

## Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-16

Laboratory ID Number: AZ08774

| Sample  | Analysis          | Units | MB      | MB    |       |      | Sample    |      | LCS          | Rec  |           | Prec |       |
|---------|-------------------|-------|---------|-------|-------|------|-----------|------|--------------|------|-----------|------|-------|
|         |                   |       |         | Limit | Spike | MS   | Duplicate | LCS  | Limit        | Rec  | Limit     | Prec | Limit |
| AZ08779 | Chloride          | mg/L  | -0.0597 | 0.50  | 10.0  | 14.2 | 3.94      | 9.84 | 9 to 11      | 103  | 80 to 120 | 1.02 | 20    |
| AZ08779 | Fluoride          | mg/L  | 0.0175  | 0.05  | 2.50  | 2.67 | 0.0938    | 2.52 | 2.25 to 2.75 | 103  | 80 to 120 | 1.90 | 20    |
| AZ08779 | Solids, Dissolved | mg/L  | 0.0000  | 25    |       |      | 259       | 56.0 | 40 to 60     |      |           | 1.71 | 5     |
| AZ08779 | Sulfate           | mg/L  | -0.0869 | 0.50  | 20.0  | 21.4 | 1.78      | 19.7 | 18 to 22     | 98.0 | 80 to 120 | 1.12 | 20    |

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Laboratory certification ID: E571114

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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  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-16 DUP

Laboratory ID Number: AZ08775

| Name                                  | Analyst | Test Date | Reference   | Vio Spec | DF    | MDL    | RL     | Q Results      | Units |
|---------------------------------------|---------|-----------|-------------|----------|-------|--------|--------|----------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |             |          |       |        |        |                |       |
| * Arsenic, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | J 0.00469      | mg/L  |
| * Barium, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 0.0327         | mg/L  |
| * Beryllium, Total                    | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0006 | 0.003  | U Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.03   | 0.1    | 1.32           | mg/L  |
| * Calcium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.1    | 0.5    | 45.8           | mg/L  |
| * Cadmium, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0003 | 0.001  | U Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0008 | 0.003  | U Not Detected | mg/L  |
| * Cobalt, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.005  | U Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 4/17/2019 | EPA 245.1   |          | 1     | 0.0003 | 0.0005 | U Not Detected | mg/L  |
| * Lithium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.01   | 0.02   | 0.0808         | mg/L  |
| * Molybdenum, Total                   | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 0.317          | mg/L  |
| * Lead, Total                         | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Selenium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0002 | 0.001  | U Not Detected | mg/L  |
| <b>General Characteristics</b>        |         |           |             |          |       |        |        |                |       |
| * Solids, Dissolved                   | CRB     | 4/11/2019 | SM 2540C    |          | 1     |        | 25     | 275            | mg/L  |
| Filter Completion Date                | CRB     | 4/8/2019  | SM 2540C    |          | 1     |        |        | 04/08/2019     | Date  |
| * Chloride                            | JCC     | 4/9/2019  | SM4500Cl E  |          | 1     | 0.50   | 1      | 15.9           | mg/L  |
| * Fluoride                            | JCC     | 4/9/2019  | SM4500F C   |          | 1     | 0.05   | 0.1    | 0.130          | mg/L  |
| * Sulfate                             | JCC     | 4/8/2019  | SM4500SO4 E |          | 20    | 10.00  | 20     | 150            | mg/L  |
| <b>Field Measurements</b>             |         |           |             |          |       |        |        |                |       |
| pH                                    | BTR     | 4/3/2019  |             |          |       |        |        | FA 8.3         | SU    |

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Laboratory certification ID: E571114

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# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-16 DUP

Laboratory ID Number: AZ08775

| Sample  | Analysis               | Units | MB          | MB      |       | MS      | MSD     | LCS     | LCS              |      | Rec       |       | Prec | Limit |
|---------|------------------------|-------|-------------|---------|-------|---------|---------|---------|------------------|------|-----------|-------|------|-------|
|         |                        |       |             | Limit   | Spike |         |         |         | Limit            | Rec  | Limit     | Prec  |      |       |
| AZ08779 | Mercury, Total by CVAA | mg/L  | 0.00000269  | 0.0005  | 0.004 | 0.00382 | 0.00382 | 0.00384 | 0.0034 to 0.0046 | 95.4 | 70 to 130 | 0.207 | 20   |       |
| AZ08779 | Beryllium, Total       | mg/L  | 0.0000276   | 0.00132 | 0.10  | 0.103   | 0.0988  | 0.101   | 0.085 to 0.115   | 103  | 70 to 130 | 3.74  | 20   |       |
| AZ08779 | Lithium, Total         | mg/L  | -0.000327   | 0.022   | 0.20  | 0.210   | 0.211   | 0.198   | 0.17 to 0.23     | 105  | 70 to 130 | 0.187 | 20   |       |
| AZ08779 | Molybdenum, Total      | mg/L  | 0.00000377  | 0.0044  | 0.10  | 0.106   | 0.102   | 0.101   | 0.085 to 0.115   | 106  | 70 to 130 | 4.17  | 20   |       |
| AZ08779 | Lead, Total            | mg/L  | 0.00000474  | 0.0022  | 0.10  | 0.111   | 0.107   | 0.106   | 0.085 to 0.115   | 111  | 70 to 130 | 3.34  | 20   |       |
| AZ08779 | Antimony, Total        | mg/L  | 0.000176    | 0.00176 | 0.10  | 0.0957  | 0.0943  | 0.0954  | 0.085 to 0.115   | 95.7 | 70 to 130 | 1.50  | 20   |       |
| AZ08779 | Calcium, Total         | mg/L  | 0.000588    | 0.22    | 5.00  | 55.1    | 55.3    | 5.00    | 4.25 to 5.75     | 92.2 | 70 to 130 | 0.290 | 20   |       |
| AZ08779 | Cadmium, Total         | mg/L  | -0.00000085 | 0.00066 | 0.10  | 0.102   | 0.0981  | 0.0989  | 0.085 to 0.115   | 102  | 70 to 130 | 4.11  | 20   |       |
| AZ08779 | Thallium, Total        | mg/L  | 0.00000236  | 0.00044 | 0.10  | 0.107   | 0.105   | 0.106   | 0.085 to 0.115   | 107  | 70 to 130 | 2.46  | 20   |       |
| AZ08779 | Barium, Total          | mg/L  | 0.00000645  | 0.0044  | 0.10  | 0.122   | 0.120   | 0.0989  | 0.085 to 0.115   | 101  | 70 to 130 | 1.93  | 20   |       |
| AZ08779 | Boron, Total           | mg/L  | 0.000443    | 0.044   | 1.00  | 0.988   | 0.999   | 0.944   | 0.85 to 1.15     | 95.3 | 70 to 130 | 1.15  | 20   |       |
| AZ08779 | Chromium, Total        | mg/L  | 0.0000103   | 0.0044  | 0.10  | 0.0981  | 0.0994  | 0.0996  | 0.085 to 0.115   | 98.1 | 70 to 130 | 1.35  | 20   |       |
| AZ08779 | Arsenic, Total         | mg/L  | 0.0000129   | 0.0022  | 0.10  | 0.0983  | 0.0995  | 0.101   | 0.085 to 0.115   | 96.5 | 70 to 130 | 1.27  | 20   |       |
| AZ08779 | Cobalt, Total          | mg/L  | -0.00000276 | 0.0044  | 0.10  | 0.106   | 0.101   | 0.101   | 0.085 to 0.115   | 106  | 70 to 130 | 4.74  | 20   |       |
| AZ08779 | Selenium, Total        | mg/L  | 0.0000521   | 0.0044  | 0.10  | 0.103   | 0.0974  | 0.106   | 0.085 to 0.115   | 103  | 70 to 130 | 5.88  | 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) 664-6032 or 6171  
 FAX (205) 257-1654

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-16 DUP

Laboratory ID Number: AZ08775

| Sample  | Analysis          | Units | MB      | MB    |       |      | Sample    |      | LCS          | Rec  |           | Prec |       |
|---------|-------------------|-------|---------|-------|-------|------|-----------|------|--------------|------|-----------|------|-------|
|         |                   |       |         | Limit | Spike | MS   | Duplicate | LCS  | Limit        | Rec  | Limit     | Prec | Limit |
| AZ08779 | Chloride          | mg/L  | -0.0597 | 0.50  | 10.0  | 14.2 | 3.94      | 9.84 | 9 to 11      | 103  | 80 to 120 | 1.02 | 20    |
| AZ08779 | Fluoride          | mg/L  | 0.0175  | 0.05  | 2.50  | 2.67 | 0.0938    | 2.52 | 2.25 to 2.75 | 103  | 80 to 120 | 1.90 | 20    |
| AZ08779 | Sulfate           | mg/L  | -0.0869 | 0.50  | 20.0  | 21.4 | 1.78      | 19.7 | 18 to 22     | 98.0 | 80 to 120 | 1.12 | 20    |
| AZ08779 | Solids, Dissolved | mg/L  | 0.0000  | 25    |       |      | 259       | 56.0 | 40 to 60     |      |           | 1.71 | 5     |

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Laboratory certification ID: E571114

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**Comments:**

CC:

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

**Certificate Of Analysis**  **Alabama Power**



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-15R

Laboratory ID Number: AZ08776

| Name                                  | Analyst | Test Date | Reference   | Vio Spec | DF    | MDL    | RL     | Q Results      | Units |
|---------------------------------------|---------|-----------|-------------|----------|-------|--------|--------|----------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |             |          |       |        |        |                |       |
| * Arsenic, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | J 0.00207      | mg/L  |
| * Barium, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 0.134          | mg/L  |
| * Beryllium, Total                    | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0006 | 0.003  | U Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.03   | 0.1    | 4.18           | mg/L  |
| * Calcium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 10.15 | 1.015  | 5.075  | 209            | mg/L  |
| * Cadmium, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0003 | 0.001  | U Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0008 | 0.003  | J 0.00113      | mg/L  |
| * Cobalt, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.005  | U Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 4/17/2019 | EPA 245.1   |          | 1     | 0.0003 | 0.0005 | U Not Detected | mg/L  |
| * Lithium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.01   | 0.02   | 0.149          | mg/L  |
| * Molybdenum, Total                   | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 0.433          | mg/L  |
| * Lead, Total                         | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Selenium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0002 | 0.001  | U Not Detected | mg/L  |
| <b>General Characteristics</b>        |         |           |             |          |       |        |        |                |       |
| * Solids, Dissolved                   | CRB     | 4/11/2019 | SM 2540C    |          | 1     |        | 50     | 810            | mg/L  |
| Filter Completion Date                | CRB     | 4/8/2019  | SM 2540C    |          | 1     |        |        | 04/08/2019     | Date  |
| * Chloride                            | JCC     | 4/9/2019  | SM4500Cl E  |          | 10    | 5.00   | 10     | 156            | mg/L  |
| * Fluoride                            | JCC     | 4/9/2019  | SM4500F C   |          | 1     | 0.05   | 0.1    | 0.104          | mg/L  |
| * Sulfate                             | JCC     | 4/8/2019  | SM4500SO4 E |          | 20    | 10.00  | 20     | 339            | mg/L  |
| <b>Field Measurements</b>             |         |           |             |          |       |        |        |                |       |
| pH                                    | BTR     | 4/3/2019  |             |          |       |        |        | FA 7.7         | 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) 664-6032 or 6171  
 FAX (205) 257-1654

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-15R

Laboratory ID Number: AZ08776

| Sample  | Analysis               | Units | MB          |         | Spike | MS      | MSD     | LCS     | LCS              |     | Rec   |           | Prec  | Limit |
|---------|------------------------|-------|-------------|---------|-------|---------|---------|---------|------------------|-----|-------|-----------|-------|-------|
|         |                        |       | MB          | Limit   |       |         |         |         | Limit            | Rec | Limit | Prec      |       |       |
| AZ08779 | Mercury, Total by CVAA | mg/L  | 0.00000269  | 0.0005  | 0.004 | 0.00382 | 0.00382 | 0.00384 | 0.0034 to 0.0046 |     | 95.4  | 70 to 130 | 0.207 | 20    |
| AZ08779 | Beryllium, Total       | mg/L  | 0.0000276   | 0.00132 | 0.10  | 0.103   | 0.0988  | 0.101   | 0.085 to 0.115   |     | 103   | 70 to 130 | 3.74  | 20    |
| AZ08779 | Lithium, Total         | mg/L  | -0.000327   | 0.022   | 0.20  | 0.210   | 0.211   | 0.198   | 0.17 to 0.23     |     | 105   | 70 to 130 | 0.187 | 20    |
| AZ08779 | Molybdenum, Total      | mg/L  | 0.00000377  | 0.0044  | 0.10  | 0.106   | 0.102   | 0.101   | 0.085 to 0.115   |     | 106   | 70 to 130 | 4.17  | 20    |
| AZ08779 | Arsenic, Total         | mg/L  | 0.0000129   | 0.0022  | 0.10  | 0.0983  | 0.0995  | 0.101   | 0.085 to 0.115   |     | 96.5  | 70 to 130 | 1.27  | 20    |
| AZ08779 | Cobalt, Total          | mg/L  | -0.00000276 | 0.0044  | 0.10  | 0.106   | 0.101   | 0.101   | 0.085 to 0.115   |     | 106   | 70 to 130 | 4.74  | 20    |
| AZ08779 | Selenium, Total        | mg/L  | 0.0000521   | 0.0044  | 0.10  | 0.103   | 0.0974  | 0.106   | 0.085 to 0.115   |     | 103   | 70 to 130 | 5.88  | 20    |
| AZ08779 | Calcium, Total         | mg/L  | 0.000588    | 0.22    | 5.00  | 55.1    | 55.3    | 5.00    | 4.25 to 5.75     |     | 92.2  | 70 to 130 | 0.290 | 20    |
| AZ08779 | Cadmium, Total         | mg/L  | -0.00000085 | 0.00066 | 0.10  | 0.102   | 0.0981  | 0.0989  | 0.085 to 0.115   |     | 102   | 70 to 130 | 4.11  | 20    |
| AZ08779 | Thallium, Total        | mg/L  | 0.00000236  | 0.00044 | 0.10  | 0.107   | 0.105   | 0.106   | 0.085 to 0.115   |     | 107   | 70 to 130 | 2.46  | 20    |
| AZ08779 | Barium, Total          | mg/L  | 0.00000645  | 0.0044  | 0.10  | 0.122   | 0.120   | 0.0989  | 0.085 to 0.115   |     | 101   | 70 to 130 | 1.93  | 20    |
| AZ08779 | Boron, Total           | mg/L  | 0.000443    | 0.044   | 1.00  | 0.988   | 0.999   | 0.944   | 0.85 to 1.15     |     | 95.3  | 70 to 130 | 1.15  | 20    |
| AZ08779 | Chromium, Total        | mg/L  | 0.0000103   | 0.0044  | 0.10  | 0.0981  | 0.0994  | 0.0996  | 0.085 to 0.115   |     | 98.1  | 70 to 130 | 1.35  | 20    |
| AZ08779 | Lead, Total            | mg/L  | 0.00000474  | 0.0022  | 0.10  | 0.111   | 0.107   | 0.106   | 0.085 to 0.115   |     | 111   | 70 to 130 | 3.34  | 20    |
| AZ08779 | Antimony, Total        | mg/L  | 0.000176    | 0.00176 | 0.10  | 0.0957  | 0.0943  | 0.0954  | 0.085 to 0.115   |     | 95.7  | 70 to 130 | 1.50  | 20    |

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

**Comments:**

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

## Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-15R

Laboratory ID Number: AZ08776

| Sample  | Analysis          | Units | MB      | MB    |       |      | Sample    |      | LCS          | Rec  |           | Prec |       |
|---------|-------------------|-------|---------|-------|-------|------|-----------|------|--------------|------|-----------|------|-------|
|         |                   |       |         | Limit | Spike | MS   | Duplicate | LCS  | Limit        | Rec  | Limit     | Prec | Limit |
| AZ08779 | Chloride          | mg/L  | -0.0597 | 0.50  | 10.0  | 14.2 | 3.94      | 9.84 | 9 to 11      | 103  | 80 to 120 | 1.02 | 20    |
| AZ08779 | Fluoride          | mg/L  | 0.0175  | 0.05  | 2.50  | 2.67 | 0.0938    | 2.52 | 2.25 to 2.75 | 103  | 80 to 120 | 1.90 | 20    |
| AZ08779 | Sulfate           | mg/L  | -0.0869 | 0.50  | 20.0  | 21.4 | 1.78      | 19.7 | 18 to 22     | 98.0 | 80 to 120 | 1.12 | 20    |
| AZ08779 | Solids, Dissolved | mg/L  | 0.0000  | 25    |       |      | 259       | 56.0 | 40 to 60     |      |           | 1.71 | 5     |

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**Comments:**

CC:

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

**Certificate Of Analysis**  **Alabama Power**



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAPFB  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond Field Blank

Laboratory ID Number: AZ08777

| Name                                  | Analyst | Test Date | Reference   | Vio Spec | DF    | MDL    | RL     | Q | Results      | Units |
|---------------------------------------|---------|-----------|-------------|----------|-------|--------|--------|---|--------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |             |          |       |        |        |   |              |       |
| * Arsenic, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U | Not Detected | mg/L  |
| * Barium, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U | Not Detected | mg/L  |
| * Beryllium, Total                    | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0006 | 0.003  | U | Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.03   | 0.1    | J | 0.0316       | mg/L  |
| * Calcium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.1    | 0.5    | U | Not Detected | mg/L  |
| * Cadmium, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0003 | 0.001  | U | Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0008 | 0.003  | U | Not Detected | mg/L  |
| * Cobalt, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.005  | U | Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U | Not Detected | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 4/17/2019 | EPA 245.1   |          | 1     | 0.0003 | 0.0005 | U | Not Detected | mg/L  |
| * Lithium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.01   | 0.02   | U | Not Detected | mg/L  |
| * Molybdenum, Total                   | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U | Not Detected | mg/L  |
| * Lead, Total                         | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U | Not Detected | mg/L  |
| * Selenium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U | Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0002 | 0.001  | U | Not Detected | mg/L  |
| <b>General Characteristics</b>        |         |           |             |          |       |        |        |   |              |       |
| * Solids, Dissolved                   | CRB     | 4/11/2019 | SM 2540C    |          | 1     |        | 25     | U | Not Detected | mg/L  |
| Filter Completion Date                | CRB     | 4/8/2019  | SM 2540C    |          | 1     |        |        |   | 04/08/2019   | Date  |
| * Chloride                            | JCC     | 4/9/2019  | SM4500Cl E  |          | 1     | 0.50   | 1      | J | 0.880        | mg/L  |
| * Fluoride                            | JCC     | 4/9/2019  | SM4500F C   |          | 1     | 0.05   | 0.1    | U | Not Detected | mg/L  |
| * Sulfate                             | JCC     | 4/8/2019  | SM4500SO4 E |          | 1     | 0.50   | 1      | U | Not Detected | mg/L  |

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**Comments:**



Alabama Power General Test Laboratory  
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# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAPFB  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond Field Blank

Laboratory ID Number: AZ08777

| Sample  | Analysis               | Units | MB          |         | Spike | MS      | MSD     | LCS     | LCS              |     | Rec   |           | Prec  | Limit |
|---------|------------------------|-------|-------------|---------|-------|---------|---------|---------|------------------|-----|-------|-----------|-------|-------|
|         |                        |       | Limit       | MB      |       |         |         |         | Limit            | Rec | Limit | Prec      |       |       |
| AZ08779 | Mercury, Total by CVAA | mg/L  | 0.00000269  | 0.0005  | 0.004 | 0.00382 | 0.00382 | 0.00384 | 0.0034 to 0.0046 |     | 95.4  | 70 to 130 | 0.207 | 20    |
| AZ08779 | Beryllium, Total       | mg/L  | 0.0000276   | 0.00132 | 0.10  | 0.103   | 0.0988  | 0.101   | 0.085 to 0.115   |     | 103   | 70 to 130 | 3.74  | 20    |
| AZ08779 | Lead, Total            | mg/L  | 0.00000474  | 0.0022  | 0.10  | 0.111   | 0.107   | 0.106   | 0.085 to 0.115   |     | 111   | 70 to 130 | 3.34  | 20    |
| AZ08779 | Antimony, Total        | mg/L  | 0.000176    | 0.00176 | 0.10  | 0.0957  | 0.0943  | 0.0954  | 0.085 to 0.115   |     | 95.7  | 70 to 130 | 1.50  | 20    |
| AZ08779 | Arsenic, Total         | mg/L  | 0.0000129   | 0.0022  | 0.10  | 0.0983  | 0.0995  | 0.101   | 0.085 to 0.115   |     | 96.5  | 70 to 130 | 1.27  | 20    |
| AZ08779 | Cobalt, Total          | mg/L  | -0.00000276 | 0.0044  | 0.10  | 0.106   | 0.101   | 0.101   | 0.085 to 0.115   |     | 106   | 70 to 130 | 4.74  | 20    |
| AZ08779 | Selenium, Total        | mg/L  | 0.0000521   | 0.0044  | 0.10  | 0.103   | 0.0974  | 0.106   | 0.085 to 0.115   |     | 103   | 70 to 130 | 5.88  | 20    |
| AZ08779 | Lithium, Total         | mg/L  | -0.000327   | 0.022   | 0.20  | 0.210   | 0.211   | 0.198   | 0.17 to 0.23     |     | 105   | 70 to 130 | 0.187 | 20    |
| AZ08779 | Molybdenum, Total      | mg/L  | 0.00000377  | 0.0044  | 0.10  | 0.106   | 0.102   | 0.101   | 0.085 to 0.115   |     | 106   | 70 to 130 | 4.17  | 20    |
| AZ08779 | Calcium, Total         | mg/L  | 0.000588    | 0.22    | 5.00  | 55.1    | 55.3    | 5.00    | 4.25 to 5.75     |     | 92.2  | 70 to 130 | 0.290 | 20    |
| AZ08779 | Cadmium, Total         | mg/L  | -0.00000085 | 0.00066 | 0.10  | 0.102   | 0.0981  | 0.0989  | 0.085 to 0.115   |     | 102   | 70 to 130 | 4.11  | 20    |
| AZ08779 | Thallium, Total        | mg/L  | 0.00000236  | 0.00044 | 0.10  | 0.107   | 0.105   | 0.106   | 0.085 to 0.115   |     | 107   | 70 to 130 | 2.46  | 20    |
| AZ08779 | Barium, Total          | mg/L  | 0.00000645  | 0.0044  | 0.10  | 0.122   | 0.120   | 0.0989  | 0.085 to 0.115   |     | 101   | 70 to 130 | 1.93  | 20    |
| AZ08779 | Boron, Total           | mg/L  | 0.000443    | 0.044   | 1.00  | 0.988   | 0.999   | 0.944   | 0.85 to 1.15     |     | 95.3  | 70 to 130 | 1.15  | 20    |
| AZ08779 | Chromium, Total        | mg/L  | 0.0000103   | 0.0044  | 0.10  | 0.0981  | 0.0994  | 0.0996  | 0.085 to 0.115   |     | 98.1  | 70 to 130 | 1.35  | 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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 (205) 664-6032 or 6171  
 FAX (205) 257-1654

## Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAPFB  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond Field Blank

Laboratory ID Number: AZ08777

| Sample  | Analysis          | Units | MB      | MB    |       |      | Sample    |      | LCS          | Rec  |           | Prec |       |
|---------|-------------------|-------|---------|-------|-------|------|-----------|------|--------------|------|-----------|------|-------|
|         |                   |       |         | Limit | Spike | MS   | Duplicate | LCS  | Limit        | Rec  | Limit     | Prec | Limit |
| AZ08779 | Chloride          | mg/L  | -0.0597 | 0.50  | 10.0  | 14.2 | 3.94      | 9.84 | 9 to 11      | 103  | 80 to 120 | 1.02 | 20    |
| AZ08779 | Fluoride          | mg/L  | 0.0175  | 0.05  | 2.50  | 2.67 | 0.0938    | 2.52 | 2.25 to 2.75 | 103  | 80 to 120 | 1.90 | 20    |
| AZ08779 | Solids, Dissolved | mg/L  | 0.0000  | 25    |       |      | 259       | 56.0 | 40 to 60     |      |           | 1.71 | 5     |
| AZ08779 | Sulfate           | mg/L  | -0.0869 | 0.50  | 20.0  | 21.4 | 1.78      | 19.7 | 18 to 22     | 98.0 | 80 to 120 | 1.12 | 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:

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  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 01-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-9

Laboratory ID Number: AZ08778

| Name                                  | Analyst | Test Date | Reference   | Vio Spec | DF    | MDL    | RL     | Q Results      | Units |
|---------------------------------------|---------|-----------|-------------|----------|-------|--------|--------|----------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |             |          |       |        |        |                |       |
| * Arsenic, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | J 0.00269      | mg/L  |
| * Barium, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 0.105          | mg/L  |
| * Beryllium, Total                    | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0006 | 0.003  | U Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.03   | 0.1    | U Not Detected | mg/L  |
| * Calcium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.1    | 0.5    | 32.3           | mg/L  |
| * Cadmium, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0003 | 0.001  | U Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0008 | 0.003  | U Not Detected | mg/L  |
| * Cobalt, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.005  | U Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 4/17/2019 | EPA 245.1   |          | 1     | 0.0003 | 0.0005 | U Not Detected | mg/L  |
| * Lithium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.01   | 0.02   | U Not Detected | mg/L  |
| * Molybdenum, Total                   | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Lead, Total                         | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Selenium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0002 | 0.001  | U Not Detected | mg/L  |
| <b>General Characteristics</b>        |         |           |             |          |       |        |        |                |       |
| * Solids, Dissolved                   | CRB     | 4/11/2019 | SM 2540C    |          | 1     |        | 25     | 205            | mg/L  |
| Filter Completion Date                | CRB     | 4/8/2019  | SM 2540C    |          | 1     |        |        | 04/08/2019     | Date  |
| * Chloride                            | JCC     | 4/9/2019  | SM4500CI E  |          | 1     | 0.50   | 1      | 8.42           | mg/L  |
| * Fluoride                            | JCC     | 4/9/2019  | SM4500F C   |          | 1     | 0.05   | 0.1    | 0.136          | mg/L  |
| * Sulfate                             | JCC     | 4/8/2019  | SM4500SO4 E |          | 1     | 0.50   | 1      | 14.3           | mg/L  |
| <b>Field Measurements</b>             |         |           |             |          |       |        |        |                |       |
| pH                                    | SNP     | 4/1/2019  |             |          |       |        |        | FA 7.64        | 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) 664-6032 or 6171  
 FAX (205) 257-1654

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 01-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-9

Laboratory ID Number: AZ08778

| Sample  | Analysis               | Units | MB          |         | Spike | MS      | MSD     | LCS     | LCS              |     | Rec   |           | Prec  | Limit |
|---------|------------------------|-------|-------------|---------|-------|---------|---------|---------|------------------|-----|-------|-----------|-------|-------|
|         |                        |       | MB          | Limit   |       |         |         |         | Limit            | Rec | Limit | Prec      |       |       |
| AZ08779 | Mercury, Total by CVAA | mg/L  | 0.00000269  | 0.0005  | 0.004 | 0.00382 | 0.00382 | 0.00384 | 0.0034 to 0.0046 |     | 95.4  | 70 to 130 | 0.207 | 20    |
| AZ08779 | Lead, Total            | mg/L  | 0.00000474  | 0.0022  | 0.10  | 0.111   | 0.107   | 0.106   | 0.085 to 0.115   |     | 111   | 70 to 130 | 3.34  | 20    |
| AZ08779 | Antimony, Total        | mg/L  | 0.000176    | 0.00176 | 0.10  | 0.0957  | 0.0943  | 0.0954  | 0.085 to 0.115   |     | 95.7  | 70 to 130 | 1.50  | 20    |
| AZ08779 | Beryllium, Total       | mg/L  | 0.0000276   | 0.00132 | 0.10  | 0.103   | 0.0988  | 0.101   | 0.085 to 0.115   |     | 103   | 70 to 130 | 3.74  | 20    |
| AZ08779 | Barium, Total          | mg/L  | 0.00000645  | 0.0044  | 0.10  | 0.122   | 0.120   | 0.0989  | 0.085 to 0.115   |     | 101   | 70 to 130 | 1.93  | 20    |
| AZ08779 | Boron, Total           | mg/L  | 0.000443    | 0.044   | 1.00  | 0.988   | 0.999   | 0.944   | 0.85 to 1.15     |     | 95.3  | 70 to 130 | 1.15  | 20    |
| AZ08779 | Chromium, Total        | mg/L  | 0.0000103   | 0.0044  | 0.10  | 0.0981  | 0.0994  | 0.0996  | 0.085 to 0.115   |     | 98.1  | 70 to 130 | 1.35  | 20    |
| AZ08779 | Arsenic, Total         | mg/L  | 0.0000129   | 0.0022  | 0.10  | 0.0983  | 0.0995  | 0.101   | 0.085 to 0.115   |     | 96.5  | 70 to 130 | 1.27  | 20    |
| AZ08779 | Cobalt, Total          | mg/L  | -0.00000276 | 0.0044  | 0.10  | 0.106   | 0.101   | 0.101   | 0.085 to 0.115   |     | 106   | 70 to 130 | 4.74  | 20    |
| AZ08779 | Selenium, Total        | mg/L  | 0.0000521   | 0.0044  | 0.10  | 0.103   | 0.0974  | 0.106   | 0.085 to 0.115   |     | 103   | 70 to 130 | 5.88  | 20    |
| AZ08779 | Lithium, Total         | mg/L  | -0.000327   | 0.022   | 0.20  | 0.210   | 0.211   | 0.198   | 0.17 to 0.23     |     | 105   | 70 to 130 | 0.187 | 20    |
| AZ08779 | Molybdenum, Total      | mg/L  | 0.00000377  | 0.0044  | 0.10  | 0.106   | 0.102   | 0.101   | 0.085 to 0.115   |     | 106   | 70 to 130 | 4.17  | 20    |
| AZ08779 | Calcium, Total         | mg/L  | 0.000588    | 0.22    | 5.00  | 55.1    | 55.3    | 5.00    | 4.25 to 5.75     |     | 92.2  | 70 to 130 | 0.290 | 20    |
| AZ08779 | Cadmium, Total         | mg/L  | -0.00000085 | 0.00066 | 0.10  | 0.102   | 0.0981  | 0.0989  | 0.085 to 0.115   |     | 102   | 70 to 130 | 4.11  | 20    |
| AZ08779 | Thallium, Total        | mg/L  | 0.00000236  | 0.00044 | 0.10  | 0.107   | 0.105   | 0.106   | 0.085 to 0.115   |     | 107   | 70 to 130 | 2.46  | 20    |

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Laboratory certification ID: E571114

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Expiration: June 30, 2019

**Comments:**

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

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 01-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-9

Laboratory ID Number: AZ08778

| Sample  | Analysis          | Units | MB      | MB    |       |      | Sample    |      | LCS          | Rec  |           | Prec |       |
|---------|-------------------|-------|---------|-------|-------|------|-----------|------|--------------|------|-----------|------|-------|
|         |                   |       |         | Limit | Spike | MS   | Duplicate | LCS  | Limit        | Rec  | Limit     | Prec | Limit |
| AZ08779 | Sulfate           | mg/L  | -0.0869 | 0.50  | 20.0  | 21.4 | 1.78      | 19.7 | 18 to 22     | 98.0 | 80 to 120 | 1.12 | 20    |
| AZ08779 | Fluoride          | mg/L  | 0.0175  | 0.05  | 2.50  | 2.67 | 0.0938    | 2.52 | 2.25 to 2.75 | 103  | 80 to 120 | 1.90 | 20    |
| AZ08779 | Solids, Dissolved | mg/L  | 0.0000  | 25    |       |      | 259       | 56.0 | 40 to 60     |      |           | 1.71 | 5     |
| AZ08779 | Chloride          | mg/L  | -0.0597 | 0.50  | 10.0  | 14.2 | 3.94      | 9.84 | 9 to 11      | 103  | 80 to 120 | 1.02 | 20    |

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Laboratory certification ID: E571114

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 FAX (205) 257-1654

# Certificate Of Analysis Alabama Power



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 01-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-8

Laboratory ID Number: AZ08779

| Name                                  | Analyst | Test Date | Reference   | Vio Spec | DF    | MDL    | RL     | Q | Results      | Units |
|---------------------------------------|---------|-----------|-------------|----------|-------|--------|--------|---|--------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |             |          |       |        |        |   |              |       |
| * Arsenic, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | J | 0.00177      | mg/L  |
| * Barium, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   |   | 0.0209       | mg/L  |
| * Beryllium, Total                    | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0006 | 0.003  | U | Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.03   | 0.1    | J | 0.0345       | mg/L  |
| * Calcium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.1    | 0.5    |   | 50.5         | mg/L  |
| * Cadmium, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0003 | 0.001  | U | Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0008 | 0.003  | U | Not Detected | mg/L  |
| * Cobalt, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.005  | U | Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U | Not Detected | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 4/17/2019 | EPA 245.1   |          | 1     | 0.0003 | 0.0005 | U | Not Detected | mg/L  |
| * Lithium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.01   | 0.02   | U | Not Detected | mg/L  |
| * Molybdenum, Total                   | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U | Not Detected | mg/L  |
| * Lead, Total                         | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U | Not Detected | mg/L  |
| * Selenium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U | Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0002 | 0.001  | U | Not Detected | mg/L  |
| <b>General Characteristics</b>        |         |           |             |          |       |        |        |   |              |       |
| * Solids, Dissolved                   | CRB     | 4/11/2019 | SM 2540C    |          | 1     |        | 25     |   | 268          | mg/L  |
| Filter Completion Date                | CRB     | 4/8/2019  | SM 2540C    |          | 1     |        |        |   | 04/08/2019   | Date  |
| * Chloride                            | JCC     | 4/9/2019  | SM4500Cl E  |          | 1     | 0.50   | 1      |   | 3.90         | mg/L  |
| * Fluoride                            | JCC     | 4/9/2019  | SM4500F C   |          | 1     | 0.05   | 0.1    | J | 0.0956       | mg/L  |
| * Sulfate                             | JCC     | 4/8/2019  | SM4500SO4 E |          | 1     | 0.50   | 1      |   | 1.80         | mg/L  |
| <b>Field Measurements</b>             |         |           |             |          |       |        |        |   |              |       |
| pH                                    | SNP     | 4/1/2019  |             |          |       |        |        |   | FA 7.4       | 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  
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 Calera, AL 35040  
 (205) 664-6032 or 6171  
 FAX (205) 257-1654

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 01-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-8

Laboratory ID Number: AZ08779

| Sample  | Analysis               | Units | MB          |         | Spike | MS      | MSD     | LCS     | LCS              |     | Rec   |           | Prec  | Limit |
|---------|------------------------|-------|-------------|---------|-------|---------|---------|---------|------------------|-----|-------|-----------|-------|-------|
|         |                        |       | MB          | Limit   |       |         |         |         | Limit            | Rec | Limit | Prec      |       |       |
| AZ08779 | Mercury, Total by CVAA | mg/L  | 0.00000269  | 0.0005  | 0.004 | 0.00382 | 0.00382 | 0.00384 | 0.0034 to 0.0046 |     | 95.4  | 70 to 130 | 0.207 | 20    |
| AZ08779 | Beryllium, Total       | mg/L  | 0.0000276   | 0.00132 | 0.10  | 0.103   | 0.0988  | 0.101   | 0.085 to 0.115   |     | 103   | 70 to 130 | 3.74  | 20    |
| AZ08779 | Lead, Total            | mg/L  | 0.00000474  | 0.0022  | 0.10  | 0.111   | 0.107   | 0.106   | 0.085 to 0.115   |     | 111   | 70 to 130 | 3.34  | 20    |
| AZ08779 | Antimony, Total        | mg/L  | 0.000176    | 0.00176 | 0.10  | 0.0957  | 0.0943  | 0.0954  | 0.085 to 0.115   |     | 95.7  | 70 to 130 | 1.50  | 20    |
| AZ08779 | Barium, Total          | mg/L  | 0.00000645  | 0.0044  | 0.10  | 0.122   | 0.120   | 0.0989  | 0.085 to 0.115   |     | 101   | 70 to 130 | 1.93  | 20    |
| AZ08779 | Boron, Total           | mg/L  | 0.000443    | 0.044   | 1.00  | 0.988   | 0.999   | 0.944   | 0.85 to 1.15     |     | 95.3  | 70 to 130 | 1.15  | 20    |
| AZ08779 | Chromium, Total        | mg/L  | 0.0000103   | 0.0044  | 0.10  | 0.0981  | 0.0994  | 0.0996  | 0.085 to 0.115   |     | 98.1  | 70 to 130 | 1.35  | 20    |
| AZ08779 | Arsenic, Total         | mg/L  | 0.0000129   | 0.0022  | 0.10  | 0.0983  | 0.0995  | 0.101   | 0.085 to 0.115   |     | 96.5  | 70 to 130 | 1.27  | 20    |
| AZ08779 | Cobalt, Total          | mg/L  | -0.00000276 | 0.0044  | 0.10  | 0.106   | 0.101   | 0.101   | 0.085 to 0.115   |     | 106   | 70 to 130 | 4.74  | 20    |
| AZ08779 | Selenium, Total        | mg/L  | 0.0000521   | 0.0044  | 0.10  | 0.103   | 0.0974  | 0.106   | 0.085 to 0.115   |     | 103   | 70 to 130 | 5.88  | 20    |
| AZ08779 | Calcium, Total         | mg/L  | 0.000588    | 0.22    | 5.00  | 55.1    | 55.3    | 5.00    | 4.25 to 5.75     |     | 92.2  | 70 to 130 | 0.290 | 20    |
| AZ08779 | Cadmium, Total         | mg/L  | -0.00000085 | 0.00066 | 0.10  | 0.102   | 0.0981  | 0.0989  | 0.085 to 0.115   |     | 102   | 70 to 130 | 4.11  | 20    |
| AZ08779 | Thallium, Total        | mg/L  | 0.00000236  | 0.00044 | 0.10  | 0.107   | 0.105   | 0.106   | 0.085 to 0.115   |     | 107   | 70 to 130 | 2.46  | 20    |
| AZ08779 | Lithium, Total         | mg/L  | -0.000327   | 0.022   | 0.20  | 0.210   | 0.211   | 0.198   | 0.17 to 0.23     |     | 105   | 70 to 130 | 0.187 | 20    |
| AZ08779 | Molybdenum, Total      | mg/L  | 0.00000377  | 0.0044  | 0.10  | 0.106   | 0.102   | 0.101   | 0.085 to 0.115   |     | 106   | 70 to 130 | 4.17  | 20    |

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Laboratory certification ID: E571114

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Expiration: June 30, 2019

**Comments:**

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

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 01-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-8

Laboratory ID Number: AZ08779

| Sample  | Analysis          | Units | MB      | MB Limit | Spike | MS   | Sample    |      | LCS Limit    | Rec  |           | Prec Limit |    |
|---------|-------------------|-------|---------|----------|-------|------|-----------|------|--------------|------|-----------|------------|----|
|         |                   |       |         |          |       |      | Duplicate | LCS  |              | Rec  | Limit     |            |    |
| AZ08779 | Sulfate           | mg/L  | -0.0869 | 0.50     | 20.0  | 21.4 | 1.78      | 19.7 | 18 to 22     | 98.0 | 80 to 120 | 1.12       | 20 |
| AZ08779 | Fluoride          | mg/L  | 0.0175  | 0.05     | 2.50  | 2.67 | 0.0938    | 2.52 | 2.25 to 2.75 | 103  | 80 to 120 | 1.90       | 20 |
| AZ08779 | Solids, Dissolved | mg/L  | 0.0000  | 25       |       |      | 259       | 56.0 | 40 to 60     |      |           | 1.71       | 5  |
| AZ08779 | Chloride          | mg/L  | -0.0597 | 0.50     | 10.0  | 14.2 | 3.94      | 9.84 | 9 to 11      | 103  | 80 to 120 | 1.02       | 20 |

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**Comments:**

CC:



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

# Certificate Of Analysis Alabama Power



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 01-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-1

Laboratory ID Number: AZ08780

| Name                                  | Analyst | Test Date | Reference   | Vio Spec | DF    | MDL    | RL     | Q Results      | Units |
|---------------------------------------|---------|-----------|-------------|----------|-------|--------|--------|----------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |             |          |       |        |        |                |       |
| * Arsenic, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | 0.00679        | mg/L  |
| * Barium, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 0.0266         | mg/L  |
| * Beryllium, Total                    | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0006 | 0.003  | U Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.03   | 0.1    | U Not Detected | mg/L  |
| * Calcium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.1    | 0.5    | 59.2           | mg/L  |
| * Cadmium, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0003 | 0.001  | U Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0008 | 0.003  | J 0.00130      | mg/L  |
| * Cobalt, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.005  | U Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 4/17/2019 | EPA 245.1   |          | 1     | 0.0003 | 0.0005 | U Not Detected | mg/L  |
| * Lithium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.01   | 0.02   | U Not Detected | mg/L  |
| * Molybdenum, Total                   | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 0.0191         | mg/L  |
| * Lead, Total                         | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Selenium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0002 | 0.001  | U Not Detected | mg/L  |
| <b>General Characteristics</b>        |         |           |             |          |       |        |        |                |       |
| * Solids, Dissolved                   | CRB     | 4/16/2019 | SM 2540C    |          | 1     |        | 25     | 294            | mg/L  |
| Filter Completion Date                | CES     | 4/9/2019  | SM 2540C    |          | 1     |        |        | 04/09/2019     | Date  |
| * Chloride                            | JCC     | 4/9/2019  | SM4500Cl E  |          | 1     | 0.50   | 1      | 4.75           | mg/L  |
| * Fluoride                            | JCC     | 4/9/2019  | SM4500F C   |          | 1     | 0.05   | 0.1    | J 0.0791       | mg/L  |
| * Sulfate                             | JCC     | 4/8/2019  | SM4500SO4 E |          | 1     | 0.50   | 1      | 33.1           | mg/L  |
| <b>Field Measurements</b>             |         |           |             |          |       |        |        |                |       |
| pH                                    | SNP     | 4/1/2019  |             |          |       |        |        | FA 7.41        | 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:** TDS result is an estimate due to samples were filtered out of analytical hold time. LBM 05/09/2019

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  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 01-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-1

Laboratory ID Number: AZ08780

| Sample  | Analysis               | Units | MB          | MB      |       |         | MS      | MSD     | LCS              | LCS   |           | Rec    |      | Prec |
|---------|------------------------|-------|-------------|---------|-------|---------|---------|---------|------------------|-------|-----------|--------|------|------|
|         |                        |       |             | Limit   | Spike | MS      |         |         |                  | Limit | Rec       | Limit  | Prec |      |
| AZ08788 | Cobalt, Total          | mg/L  | -0.00000565 | 0.0044  | 0.10  | 0.102   | 0.103   | 0.106   | 0.085 to 0.115   | 102   | 70 to 130 | 0.949  | 20   |      |
| AZ08788 | Antimony, Total        | mg/L  | 0.000186    | 0.00176 | 0.10  | 0.0931  | 0.0909  | 0.0913  | 0.085 to 0.115   | 93.1  | 70 to 130 | 2.31   | 20   |      |
| AZ08788 | Mercury, Total by CVAA | mg/L  | 0.00000313  | 0.0005  | 0.004 | 0.00384 | 0.00383 | 0.00383 | 0.0034 to 0.0046 | 96.0  | 70 to 130 | 0.188  | 20   |      |
| AZ08788 | Molybdenum, Total      | mg/L  | 0.00000358  | 0.0044  | 0.10  | 0.104   | 0.105   | 0.104   | 0.085 to 0.115   | 104   | 70 to 130 | 0.759  | 20   |      |
| AZ08788 | Chromium, Total        | mg/L  | -0.0000294  | 0.0044  | 0.10  | 0.101   | 0.100   | 0.0999  | 0.085 to 0.115   | 101   | 70 to 130 | 0.358  | 20   |      |
| AZ08788 | Selenium, Total        | mg/L  | 0.0000548   | 0.0044  | 0.10  | 0.0990  | 0.0965  | 0.0994  | 0.085 to 0.115   | 99.0  | 70 to 130 | 2.62   | 20   |      |
| AZ08788 | Arsenic, Total         | mg/L  | 0.00000663  | 0.0022  | 0.10  | 0.0979  | 0.0960  | 0.0973  | 0.085 to 0.115   | 97.9  | 70 to 130 | 1.91   | 20   |      |
| AZ08788 | Calcium, Total         | mg/L  | 0.00326     | 0.22    | 5.00  | 44.8    | 45.4    | 5.22    | 4.25 to 5.75     | 97.0  | 70 to 130 | 1.25   | 20   |      |
| AZ08788 | Lithium, Total         | mg/L  | 0.0000213   | 0.022   | 0.20  | 0.211   | 0.213   | 0.198   | 0.17 to 0.23     | 106   | 70 to 130 | 0.868  | 20   |      |
| AZ08788 | Barium, Total          | mg/L  | 0.0000117   | 0.0044  | 0.10  | 0.115   | 0.111   | 0.0998  | 0.085 to 0.115   | 102   | 70 to 130 | 3.44   | 20   |      |
| AZ08788 | Thallium, Total        | mg/L  | -0.00000008 | 0.00044 | 0.10  | 0.103   | 0.105   | 0.108   | 0.085 to 0.115   | 103   | 70 to 130 | 2.20   | 20   |      |
| AZ08788 | Beryllium, Total       | mg/L  | 0.0000233   | 0.00132 | 0.10  | 0.0959  | 0.0960  | 0.103   | 0.085 to 0.115   | 95.9  | 70 to 130 | 0.0668 | 20   |      |
| AZ08788 | Boron, Total           | mg/L  | 0.00196     | 0.044   | 1.00  | 1.02    | 1.02    | 0.985   | 0.85 to 1.15     | 102   | 70 to 130 | 0.461  | 20   |      |
| AZ08788 | Cadmium, Total         | mg/L  | -0.00000225 | 0.00066 | 0.10  | 0.103   | 0.0984  | 0.100   | 0.085 to 0.115   | 103   | 70 to 130 | 4.25   | 20   |      |
| AZ08788 | Lead, Total            | mg/L  | 0.00000363  | 0.0022  | 0.10  | 0.106   | 0.106   | 0.110   | 0.085 to 0.115   | 106   | 70 to 130 | 0.160  | 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 an estimate due to samples were filtered out of analytical hold time. LBM 05/09/2019

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  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 01-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-1

Laboratory ID Number: AZ08780

| Sample  | Analysis          | Units | MB      | MB Limit | Spike | MS   | Sample    |      | LCS Limit    | Rec  |           | Prec Limit |    |
|---------|-------------------|-------|---------|----------|-------|------|-----------|------|--------------|------|-----------|------------|----|
|         |                   |       |         |          |       |      | Duplicate | LCS  |              | Rec  | Limit     |            |    |
| AZ08788 | Solids, Dissolved | mg/L  | -3.00   | 25       |       |      | 176       | 54.0 | 40 to 60     |      |           | 2.92       | 5  |
| AZ08788 | Fluoride          | mg/L  | 0.00538 | 0.05     | 2.50  | 2.51 | 0.029     | 2.52 | 2.25 to 2.75 | 100  | 80 to 120 | 0.00       | 20 |
| AZ08788 | Sulfate           | mg/L  | -0.127  | 0.50     | 20.0  | 23.0 | 3.78      | 19.8 | 18 to 22     | 96.0 | 80 to 120 | 0.791      | 20 |
| AZ08788 | Chloride          | mg/L  | -0.095  | 0.50     | 10.0  | 12.9 | 2.67      | 9.58 | 9 to 11      | 103  | 80 to 120 | 1.13       | 20 |

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: TDS result is an estimate due to samples were filtered out of analytical hold time. LBM 05/09/2019

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  
 Lauren Parker

Customer Account: WMWGASAPFB  
 Sample Date: 01-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond Field Blank

Laboratory ID Number: AZ08781

| Name                                  | Analyst | Test Date | Reference   | Vio Spec | DF    | MDL    | RL     | Q | Results      | Units |
|---------------------------------------|---------|-----------|-------------|----------|-------|--------|--------|---|--------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |             |          |       |        |        |   |              |       |
| * Arsenic, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U | Not Detected | mg/L  |
| * Barium, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U | Not Detected | mg/L  |
| * Beryllium, Total                    | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0006 | 0.003  | U | Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.03   | 0.1    | U | Not Detected | mg/L  |
| * Calcium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.1    | 0.5    | U | Not Detected | mg/L  |
| * Cadmium, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0003 | 0.001  | U | Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0008 | 0.003  | J | 0.000988     | mg/L  |
| * Cobalt, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.005  | U | Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U | Not Detected | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 4/17/2019 | EPA 245.1   |          | 1     | 0.0003 | 0.0005 | U | Not Detected | mg/L  |
| * Lithium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.01   | 0.02   | U | Not Detected | mg/L  |
| * Molybdenum, Total                   | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U | Not Detected | mg/L  |
| * Lead, Total                         | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U | Not Detected | mg/L  |
| * Selenium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U | Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0002 | 0.001  | U | Not Detected | mg/L  |
| <b>General Characteristics</b>        |         |           |             |          |       |        |        |   |              |       |
| * Solids, Dissolved                   | CRB     | 4/16/2019 | SM 2540C    |          | 1     |        | 25     | U | Not Detected | mg/L  |
| Filter Completion Date                | CES     | 4/9/2019  | SM 2540C    |          | 1     |        |        |   | 04/09/2019   | Date  |
| * Chloride                            | JCC     | 4/9/2019  | SM4500Cl E  |          | 1     | 0.50   | 1      | U | Not Detected | mg/L  |
| * Fluoride                            | JCC     | 4/9/2019  | SM4500F C   |          | 1     | 0.05   | 0.1    | U | Not Detected | mg/L  |
| * Sulfate                             | JCC     | 4/8/2019  | SM4500SO4 E |          | 1     | 0.50   | 1      | U | Not Detected | mg/L  |

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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 an estimate due to samples were filtered out of analytical hold time. LBM 05/09/2019

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  
 Lauren Parker

Customer Account: WMWGASAPFB  
 Sample Date: 01-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond Field Blank

Laboratory ID Number: AZ08781

| Sample  | Analysis               | Units | MB          |         | Spike | MS      | MSD     | LCS     | LCS              |      | Rec       |        | Prec Limit |
|---------|------------------------|-------|-------------|---------|-------|---------|---------|---------|------------------|------|-----------|--------|------------|
|         |                        |       | MB          | Limit   |       |         |         |         | Limit            | Rec  | Limit     | Prec   |            |
| AZ08788 | Antimony, Total        | mg/L  | 0.000186    | 0.00176 | 0.10  | 0.0931  | 0.0909  | 0.0913  | 0.085 to 0.115   | 93.1 | 70 to 130 | 2.31   | 20         |
| AZ08788 | Cobalt, Total          | mg/L  | -0.00000565 | 0.0044  | 0.10  | 0.102   | 0.103   | 0.106   | 0.085 to 0.115   | 102  | 70 to 130 | 0.949  | 20         |
| AZ08788 | Chromium, Total        | mg/L  | -0.0000294  | 0.0044  | 0.10  | 0.101   | 0.100   | 0.0999  | 0.085 to 0.115   | 101  | 70 to 130 | 0.358  | 20         |
| AZ08788 | Selenium, Total        | mg/L  | 0.0000548   | 0.0044  | 0.10  | 0.0990  | 0.0965  | 0.0994  | 0.085 to 0.115   | 99.0 | 70 to 130 | 2.62   | 20         |
| AZ08788 | Arsenic, Total         | mg/L  | 0.00000663  | 0.0022  | 0.10  | 0.0979  | 0.0960  | 0.0973  | 0.085 to 0.115   | 97.9 | 70 to 130 | 1.91   | 20         |
| AZ08788 | Calcium, Total         | mg/L  | 0.00326     | 0.22    | 5.00  | 44.8    | 45.4    | 5.22    | 4.25 to 5.75     | 97.0 | 70 to 130 | 1.25   | 20         |
| AZ08788 | Lithium, Total         | mg/L  | 0.0000213   | 0.022   | 0.20  | 0.211   | 0.213   | 0.198   | 0.17 to 0.23     | 106  | 70 to 130 | 0.868  | 20         |
| AZ08788 | Mercury, Total by CVAA | mg/L  | 0.00000313  | 0.0005  | 0.004 | 0.00384 | 0.00383 | 0.00383 | 0.0034 to 0.0046 | 96.0 | 70 to 130 | 0.188  | 20         |
| AZ08788 | Molybdenum, Total      | mg/L  | 0.00000358  | 0.0044  | 0.10  | 0.104   | 0.105   | 0.104   | 0.085 to 0.115   | 104  | 70 to 130 | 0.759  | 20         |
| AZ08788 | Beryllium, Total       | mg/L  | 0.0000233   | 0.00132 | 0.10  | 0.0959  | 0.0960  | 0.103   | 0.085 to 0.115   | 95.9 | 70 to 130 | 0.0668 | 20         |
| AZ08788 | Boron, Total           | mg/L  | 0.00196     | 0.044   | 1.00  | 1.02    | 1.02    | 0.985   | 0.85 to 1.15     | 102  | 70 to 130 | 0.461  | 20         |
| AZ08788 | Cadmium, Total         | mg/L  | -0.00000225 | 0.00066 | 0.10  | 0.103   | 0.0984  | 0.100   | 0.085 to 0.115   | 103  | 70 to 130 | 4.25   | 20         |
| AZ08788 | Lead, Total            | mg/L  | 0.00000363  | 0.0022  | 0.10  | 0.106   | 0.106   | 0.110   | 0.085 to 0.115   | 106  | 70 to 130 | 0.160  | 20         |
| AZ08788 | Barium, Total          | mg/L  | 0.0000117   | 0.0044  | 0.10  | 0.115   | 0.111   | 0.0998  | 0.085 to 0.115   | 102  | 70 to 130 | 3.44   | 20         |
| AZ08788 | Thallium, Total        | mg/L  | -0.00000008 | 0.00044 | 0.10  | 0.103   | 0.105   | 0.108   | 0.085 to 0.115   | 103  | 70 to 130 | 2.20   | 20         |

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: TDS result is an estimate due to samples were filtered out of analytical hold time. LBM 05/09/2019

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  
 Lauren Parker

Customer Account: WMWGASAPFB  
 Sample Date: 01-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond Field Blank

Laboratory ID Number: AZ08781

| Sample  | Analysis          | Units | MB      | MB Limit | Spike | MS   | Sample    |      | LCS Limit    | Rec  |           | Prec Limit |    |
|---------|-------------------|-------|---------|----------|-------|------|-----------|------|--------------|------|-----------|------------|----|
|         |                   |       |         |          |       |      | Duplicate | LCS  |              | Rec  | Limit     |            |    |
| AZ08788 | Fluoride          | mg/L  | 0.00538 | 0.05     | 2.50  | 2.51 | 0.029     | 2.52 | 2.25 to 2.75 | 100  | 80 to 120 | 0.00       | 20 |
| AZ08788 | Chloride          | mg/L  | -0.095  | 0.50     | 10.0  | 12.9 | 2.67      | 9.58 | 9 to 11      | 103  | 80 to 120 | 1.13       | 20 |
| AZ08788 | Solids, Dissolved | mg/L  | -3.00   | 25       |       |      | 176       | 54.0 | 40 to 60     |      |           | 2.92       | 5  |
| AZ08788 | Sulfate           | mg/L  | -0.127  | 0.50     | 20.0  | 23.0 | 3.78      | 19.8 | 18 to 22     | 96.0 | 80 to 120 | 0.791      | 20 |

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

Comments: TDS result is an estimate due to samples were filtered out of analytical hold time. LBM 05/09/2019

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  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-14

Laboratory ID Number: AZ08782

| Name                                  | Analyst | Test Date | Reference   | Vio Spec | DF    | MDL    | RL     | Q Results      | Units |
|---------------------------------------|---------|-----------|-------------|----------|-------|--------|--------|----------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |             |          |       |        |        |                |       |
| * Arsenic, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Barium, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 0.0619         | mg/L  |
| * Beryllium, Total                    | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0006 | 0.003  | U Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.03   | 0.1    | U Not Detected | mg/L  |
| * Calcium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.1    | 0.5    | 63.1           | mg/L  |
| * Cadmium, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0003 | 0.001  | U Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0008 | 0.003  | J 0.000939     | mg/L  |
| * Cobalt, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.005  | U Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 4/17/2019 | EPA 245.1   |          | 1     | 0.0003 | 0.0005 | U Not Detected | mg/L  |
| * Lithium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.01   | 0.02   | U Not Detected | mg/L  |
| * Molybdenum, Total                   | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Lead, Total                         | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Selenium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0002 | 0.001  | U Not Detected | mg/L  |
| <b>General Characteristics</b>        |         |           |             |          |       |        |        |                |       |
| * Solids, Dissolved                   | CRB     | 4/16/2019 | SM 2540C    |          | 1     |        | 25     | 336            | mg/L  |
| Filter Completion Date                | CES     | 4/9/2019  | SM 2540C    |          | 1     |        |        | 04/09/2019     | Date  |
| * Chloride                            | JCC     | 4/9/2019  | SM4500Cl E  |          | 1     | 0.50   | 1      | 5.72           | mg/L  |
| * Fluoride                            | JCC     | 4/9/2019  | SM4500F C   |          | 1     | 0.05   | 0.1    | 0.106          | mg/L  |
| * Sulfate                             | JCC     | 4/8/2019  | SM4500SO4 E |          | 3     | 1.50   | 3      | 75.2           | mg/L  |
| <b>Field Measurements</b>             |         |           |             |          |       |        |        |                |       |
| pH                                    | SNP     | 4/3/2019  |             |          |       |        |        | FA 7.43        | 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) 664-6032 or 6171  
 FAX (205) 257-1654

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-14

Laboratory ID Number: AZ08782

| Sample  | Analysis               | Units | MB          |         | Spike | MS      | MSD     | LCS     | LCS              |     | Rec   |           | Prec | Limit  |    |
|---------|------------------------|-------|-------------|---------|-------|---------|---------|---------|------------------|-----|-------|-----------|------|--------|----|
|         |                        |       | MB          | Limit   |       |         |         |         | Limit            | Rec | Limit | Prec      |      |        |    |
| AZ08788 | Cobalt, Total          | mg/L  | -0.00000565 | 0.0044  | 0.10  | 0.102   | 0.103   | 0.106   | 0.085 to 0.115   |     | 102   | 70 to 130 |      | 0.949  | 20 |
| AZ08788 | Antimony, Total        | mg/L  | 0.000186    | 0.00176 | 0.10  | 0.0931  | 0.0909  | 0.0913  | 0.085 to 0.115   |     | 93.1  | 70 to 130 |      | 2.31   | 20 |
| AZ08788 | Mercury, Total by CVAA | mg/L  | 0.00000313  | 0.0005  | 0.004 | 0.00384 | 0.00383 | 0.00383 | 0.0034 to 0.0046 |     | 96.0  | 70 to 130 |      | 0.188  | 20 |
| AZ08788 | Molybdenum, Total      | mg/L  | 0.00000358  | 0.0044  | 0.10  | 0.104   | 0.105   | 0.104   | 0.085 to 0.115   |     | 104   | 70 to 130 |      | 0.759  | 20 |
| AZ08788 | Chromium, Total        | mg/L  | -0.0000294  | 0.0044  | 0.10  | 0.101   | 0.100   | 0.0999  | 0.085 to 0.115   |     | 101   | 70 to 130 |      | 0.358  | 20 |
| AZ08788 | Selenium, Total        | mg/L  | 0.0000548   | 0.0044  | 0.10  | 0.0990  | 0.0965  | 0.0994  | 0.085 to 0.115   |     | 99.0  | 70 to 130 |      | 2.62   | 20 |
| AZ08788 | Barium, Total          | mg/L  | 0.0000117   | 0.0044  | 0.10  | 0.115   | 0.111   | 0.0998  | 0.085 to 0.115   |     | 102   | 70 to 130 |      | 3.44   | 20 |
| AZ08788 | Thallium, Total        | mg/L  | -0.00000008 | 0.00044 | 0.10  | 0.103   | 0.105   | 0.108   | 0.085 to 0.115   |     | 103   | 70 to 130 |      | 2.20   | 20 |
| AZ08788 | Beryllium, Total       | mg/L  | 0.0000233   | 0.00132 | 0.10  | 0.0959  | 0.0960  | 0.103   | 0.085 to 0.115   |     | 95.9  | 70 to 130 |      | 0.0668 | 20 |
| AZ08788 | Boron, Total           | mg/L  | 0.00196     | 0.044   | 1.00  | 1.02    | 1.02    | 0.985   | 0.85 to 1.15     |     | 102   | 70 to 130 |      | 0.461  | 20 |
| AZ08788 | Cadmium, Total         | mg/L  | -0.00000225 | 0.00066 | 0.10  | 0.103   | 0.0984  | 0.100   | 0.085 to 0.115   |     | 103   | 70 to 130 |      | 4.25   | 20 |
| AZ08788 | Lead, Total            | mg/L  | 0.00000363  | 0.0022  | 0.10  | 0.106   | 0.106   | 0.110   | 0.085 to 0.115   |     | 106   | 70 to 130 |      | 0.160  | 20 |
| AZ08788 | Arsenic, Total         | mg/L  | 0.00000663  | 0.0022  | 0.10  | 0.0979  | 0.0960  | 0.0973  | 0.085 to 0.115   |     | 97.9  | 70 to 130 |      | 1.91   | 20 |
| AZ08788 | Calcium, Total         | mg/L  | 0.00326     | 0.22    | 5.00  | 44.8    | 45.4    | 5.22    | 4.25 to 5.75     |     | 97.0  | 70 to 130 |      | 1.25   | 20 |
| AZ08788 | Lithium, Total         | mg/L  | 0.0000213   | 0.022   | 0.20  | 0.211   | 0.213   | 0.198   | 0.17 to 0.23     |     | 106   | 70 to 130 |      | 0.868  | 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:**



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

## Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-14

Laboratory ID Number: AZ08782

| Sample  | Analysis          | Units | MB      | MB    |       |      | Sample    |      | LCS          | Rec  |           | Prec  |       |
|---------|-------------------|-------|---------|-------|-------|------|-----------|------|--------------|------|-----------|-------|-------|
|         |                   |       |         | Limit | Spike | MS   | Duplicate | LCS  | Limit        | Rec  | Limit     | Prec  | Limit |
| AZ08788 | Fluoride          | mg/L  | 0.00538 | 0.05  | 2.50  | 2.51 | 0.029     | 2.52 | 2.25 to 2.75 | 100  | 80 to 120 | 0.00  | 20    |
| AZ08788 | Chloride          | mg/L  | -0.095  | 0.50  | 10.0  | 12.9 | 2.67      | 9.58 | 9 to 11      | 103  | 80 to 120 | 1.13  | 20    |
| AZ08788 | Solids, Dissolved | mg/L  | -3.00   | 25    |       |      | 176       | 54.0 | 40 to 60     |      |           | 2.92  | 5     |
| AZ08788 | Sulfate           | mg/L  | -0.127  | 0.50  | 20.0  | 23.0 | 3.78      | 19.8 | 18 to 22     | 96.0 | 80 to 120 | 0.791 | 20    |

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

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Comments:

CC:

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

**Certificate Of Analysis**  **Alabama Power**



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-13

Laboratory ID Number: AZ08783

| Name                                  | Analyst | Test Date | Reference   | Vio Spec | DF    | MDL    | RL     | Q Results      | Units |
|---------------------------------------|---------|-----------|-------------|----------|-------|--------|--------|----------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |             |          |       |        |        |                |       |
| * Arsenic, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Barium, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 0.0363         | mg/L  |
| * Beryllium, Total                    | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0006 | 0.003  | U Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.03   | 0.1    | U Not Detected | mg/L  |
| * Calcium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.1    | 0.5    | 46.9           | mg/L  |
| * Cadmium, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0003 | 0.001  | U Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0008 | 0.003  | U Not Detected | mg/L  |
| * Cobalt, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.005  | U Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 4/17/2019 | EPA 245.1   |          | 1     | 0.0003 | 0.0005 | U Not Detected | mg/L  |
| * Lithium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.01   | 0.02   | U Not Detected | mg/L  |
| * Molybdenum, Total                   | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Lead, Total                         | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Selenium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0002 | 0.001  | U Not Detected | mg/L  |
| <b>General Characteristics</b>        |         |           |             |          |       |        |        |                |       |
| * Solids, Dissolved                   | CRB     | 4/16/2019 | SM 2540C    |          | 1     |        | 25     | 201            | mg/L  |
| Filter Completion Date                | CES     | 4/9/2019  | SM 2540C    |          | 1     |        |        | 04/09/2019     | Date  |
| * Chloride                            | JCC     | 4/9/2019  | SM4500Cl E  |          | 1     | 0.50   | 1      | 4.85           | mg/L  |
| * Fluoride                            | JCC     | 4/9/2019  | SM4500F C   |          | 1     | 0.05   | 0.1    | U Not Detected | mg/L  |
| * Sulfate                             | JCC     | 4/8/2019  | SM4500SO4 E |          | 1     | 0.50   | 1      | J 0.925        | mg/L  |
| <b>Field Measurements</b>             |         |           |             |          |       |        |        |                |       |
| pH                                    | SNP     | 4/3/2019  |             |          |       |        |        | 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) 664-6032 or 6171  
 FAX (205) 257-1654

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-13

Laboratory ID Number: AZ08783

| Sample  | Analysis               | Units | MB          |         | Spike | MS      | MSD     | LCS     | LCS              |     | Rec   |                     | Prec Limit |
|---------|------------------------|-------|-------------|---------|-------|---------|---------|---------|------------------|-----|-------|---------------------|------------|
|         |                        |       | MB          | Limit   |       |         |         |         | Limit            | Rec | Limit | Prec                |            |
| AZ08788 | Cobalt, Total          | mg/L  | -0.00000565 | 0.0044  | 0.10  | 0.102   | 0.103   | 0.106   | 0.085 to 0.115   |     | 102   | 70 to 130 0.949 20  |            |
| AZ08788 | Antimony, Total        | mg/L  | 0.000186    | 0.00176 | 0.10  | 0.0931  | 0.0909  | 0.0913  | 0.085 to 0.115   |     | 93.1  | 70 to 130 2.31 20   |            |
| AZ08788 | Chromium, Total        | mg/L  | -0.0000294  | 0.0044  | 0.10  | 0.101   | 0.100   | 0.0999  | 0.085 to 0.115   |     | 101   | 70 to 130 0.358 20  |            |
| AZ08788 | Selenium, Total        | mg/L  | 0.0000548   | 0.0044  | 0.10  | 0.0990  | 0.0965  | 0.0994  | 0.085 to 0.115   |     | 99.0  | 70 to 130 2.62 20   |            |
| AZ08788 | Arsenic, Total         | mg/L  | 0.00000663  | 0.0022  | 0.10  | 0.0979  | 0.0960  | 0.0973  | 0.085 to 0.115   |     | 97.9  | 70 to 130 1.91 20   |            |
| AZ08788 | Calcium, Total         | mg/L  | 0.00326     | 0.22    | 5.00  | 44.8    | 45.4    | 5.22    | 4.25 to 5.75     |     | 97.0  | 70 to 130 1.25 20   |            |
| AZ08788 | Lithium, Total         | mg/L  | 0.0000213   | 0.022   | 0.20  | 0.211   | 0.213   | 0.198   | 0.17 to 0.23     |     | 106   | 70 to 130 0.868 20  |            |
| AZ08788 | Mercury, Total by CVAA | mg/L  | 0.00000313  | 0.0005  | 0.004 | 0.00384 | 0.00383 | 0.00383 | 0.0034 to 0.0046 |     | 96.0  | 70 to 130 0.188 20  |            |
| AZ08788 | Molybdenum, Total      | mg/L  | 0.00000358  | 0.0044  | 0.10  | 0.104   | 0.105   | 0.104   | 0.085 to 0.115   |     | 104   | 70 to 130 0.759 20  |            |
| AZ08788 | Beryllium, Total       | mg/L  | 0.0000233   | 0.00132 | 0.10  | 0.0959  | 0.0960  | 0.103   | 0.085 to 0.115   |     | 95.9  | 70 to 130 0.0668 20 |            |
| AZ08788 | Boron, Total           | mg/L  | 0.00196     | 0.044   | 1.00  | 1.02    | 1.02    | 0.985   | 0.85 to 1.15     |     | 102   | 70 to 130 0.461 20  |            |
| AZ08788 | Cadmium, Total         | mg/L  | -0.00000225 | 0.00066 | 0.10  | 0.103   | 0.0984  | 0.100   | 0.085 to 0.115   |     | 103   | 70 to 130 4.25 20   |            |
| AZ08788 | Lead, Total            | mg/L  | 0.00000363  | 0.0022  | 0.10  | 0.106   | 0.106   | 0.110   | 0.085 to 0.115   |     | 106   | 70 to 130 0.160 20  |            |
| AZ08788 | Barium, Total          | mg/L  | 0.0000117   | 0.0044  | 0.10  | 0.115   | 0.111   | 0.0998  | 0.085 to 0.115   |     | 102   | 70 to 130 3.44 20   |            |
| AZ08788 | Thallium, Total        | mg/L  | -0.00000008 | 0.00044 | 0.10  | 0.103   | 0.105   | 0.108   | 0.085 to 0.115   |     | 103   | 70 to 130 2.20 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:**

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

## Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-13

Laboratory ID Number: AZ08783

| Sample  | Analysis          | Units | MB      | MB    |       |      | Sample    |      | LCS          | Rec  |           | Prec  |       |
|---------|-------------------|-------|---------|-------|-------|------|-----------|------|--------------|------|-----------|-------|-------|
|         |                   |       |         | Limit | Spike | MS   | Duplicate | LCS  | Limit        | Rec  | Limit     | Prec  | Limit |
| AZ08788 | Fluoride          | mg/L  | 0.00538 | 0.05  | 2.50  | 2.51 | 0.029     | 2.52 | 2.25 to 2.75 | 100  | 80 to 120 | 0.00  | 20    |
| AZ08788 | Chloride          | mg/L  | -0.095  | 0.50  | 10.0  | 12.9 | 2.67      | 9.58 | 9 to 11      | 103  | 80 to 120 | 1.13  | 20    |
| AZ08788 | Solids, Dissolved | mg/L  | -3.00   | 25    |       |      | 176       | 54.0 | 40 to 60     |      |           | 2.92  | 5     |
| AZ08788 | Sulfate           | mg/L  | -0.127  | 0.50  | 20.0  | 23.0 | 3.78      | 19.8 | 18 to 22     | 96.0 | 80 to 120 | 0.791 | 20    |

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

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**Comments:**

CC:

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

# Certificate Of Analysis Alabama Power



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-12

Laboratory ID Number: AZ08784

| Name                                  | Analyst | Test Date | Reference   | Vio Spec | DF    | MDL    | RL     | Q Results      | Units |
|---------------------------------------|---------|-----------|-------------|----------|-------|--------|--------|----------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |             |          |       |        |        |                |       |
| * Arsenic, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | 0.00726        | mg/L  |
| * Barium, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 0.0730         | mg/L  |
| * Beryllium, Total                    | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0006 | 0.003  | U Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.03   | 0.1    | 0.401          | mg/L  |
| * Calcium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.1    | 0.5    | 67.8           | mg/L  |
| * Cadmium, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0003 | 0.001  | U Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0008 | 0.003  | J 0.000871     | mg/L  |
| * Cobalt, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.005  | U Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 4/17/2019 | EPA 245.1   |          | 1     | 0.0003 | 0.0005 | U Not Detected | mg/L  |
| * Lithium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.01   | 0.02   | U Not Detected | mg/L  |
| * Molybdenum, Total                   | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Lead, Total                         | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Selenium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0002 | 0.001  | U Not Detected | mg/L  |
| <b>General Characteristics</b>        |         |           |             |          |       |        |        |                |       |
| * Solids, Dissolved                   | CRB     | 4/16/2019 | SM 2540C    |          | 1     |        | 25     | 372            | mg/L  |
| Filter Completion Date                | CES     | 4/9/2019  | SM 2540C    |          | 1     |        |        | 04/09/2019     | Date  |
| * Chloride                            | JCC     | 4/9/2019  | SM4500Cl E  |          | 1     | 0.50   | 1      | 19.7           | mg/L  |
| * Fluoride                            | JCC     | 4/9/2019  | SM4500F C   |          | 1     | 0.05   | 0.1    | U Not Detected | mg/L  |
| * Sulfate                             | JCC     | 4/8/2019  | SM4500SO4 E |          | 4     | 2.00   | 4      | 102            | mg/L  |
| <b>Field Measurements</b>             |         |           |             |          |       |        |        |                |       |
| pH                                    | SNP     | 4/3/2019  |             |          |       |        |        | FA 7.37        | 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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 Calera, AL 35040  
 (205) 664-6032 or 6171  
 FAX (205) 257-1654

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-12

Laboratory ID Number: AZ08784

| Sample  | Analysis               | Units | MB          | MB      |       | MS      | MSD     | LCS     | LCS              |     | Rec   |                     | Prec Limit |
|---------|------------------------|-------|-------------|---------|-------|---------|---------|---------|------------------|-----|-------|---------------------|------------|
|         |                        |       |             | Limit   | Spike |         |         |         | Limit            | Rec | Limit | Prec                |            |
| AZ08788 | Cobalt, Total          | mg/L  | -0.00000565 | 0.0044  | 0.10  | 0.102   | 0.103   | 0.106   | 0.085 to 0.115   |     | 102   | 70 to 130 0.949 20  |            |
| AZ08788 | Antimony, Total        | mg/L  | 0.000186    | 0.00176 | 0.10  | 0.0931  | 0.0909  | 0.0913  | 0.085 to 0.115   |     | 93.1  | 70 to 130 2.31 20   |            |
| AZ08788 | Mercury, Total by CVAA | mg/L  | 0.00000313  | 0.0005  | 0.004 | 0.00384 | 0.00383 | 0.00383 | 0.0034 to 0.0046 |     | 96.0  | 70 to 130 0.188 20  |            |
| AZ08788 | Molybdenum, Total      | mg/L  | 0.00000358  | 0.0044  | 0.10  | 0.104   | 0.105   | 0.104   | 0.085 to 0.115   |     | 104   | 70 to 130 0.759 20  |            |
| AZ08788 | Chromium, Total        | mg/L  | -0.0000294  | 0.0044  | 0.10  | 0.101   | 0.100   | 0.0999  | 0.085 to 0.115   |     | 101   | 70 to 130 0.358 20  |            |
| AZ08788 | Selenium, Total        | mg/L  | 0.0000548   | 0.0044  | 0.10  | 0.0990  | 0.0965  | 0.0994  | 0.085 to 0.115   |     | 99.0  | 70 to 130 2.62 20   |            |
| AZ08788 | Barium, Total          | mg/L  | 0.0000117   | 0.0044  | 0.10  | 0.115   | 0.111   | 0.0998  | 0.085 to 0.115   |     | 102   | 70 to 130 3.44 20   |            |
| AZ08788 | Thallium, Total        | mg/L  | -0.00000008 | 0.00044 | 0.10  | 0.103   | 0.105   | 0.108   | 0.085 to 0.115   |     | 103   | 70 to 130 2.20 20   |            |
| AZ08788 | Arsenic, Total         | mg/L  | 0.00000663  | 0.0022  | 0.10  | 0.0979  | 0.0960  | 0.0973  | 0.085 to 0.115   |     | 97.9  | 70 to 130 1.91 20   |            |
| AZ08788 | Calcium, Total         | mg/L  | 0.00326     | 0.22    | 5.00  | 44.8    | 45.4    | 5.22    | 4.25 to 5.75     |     | 97.0  | 70 to 130 1.25 20   |            |
| AZ08788 | Lithium, Total         | mg/L  | 0.0000213   | 0.022   | 0.20  | 0.211   | 0.213   | 0.198   | 0.17 to 0.23     |     | 106   | 70 to 130 0.868 20  |            |
| AZ08788 | Beryllium, Total       | mg/L  | 0.0000233   | 0.00132 | 0.10  | 0.0959  | 0.0960  | 0.103   | 0.085 to 0.115   |     | 95.9  | 70 to 130 0.0668 20 |            |
| AZ08788 | Boron, Total           | mg/L  | 0.00196     | 0.044   | 1.00  | 1.02    | 1.02    | 0.985   | 0.85 to 1.15     |     | 102   | 70 to 130 0.461 20  |            |
| AZ08788 | Cadmium, Total         | mg/L  | -0.00000225 | 0.00066 | 0.10  | 0.103   | 0.0984  | 0.100   | 0.085 to 0.115   |     | 103   | 70 to 130 4.25 20   |            |
| AZ08788 | Lead, Total            | mg/L  | 0.00000363  | 0.0022  | 0.10  | 0.106   | 0.106   | 0.110   | 0.085 to 0.115   |     | 106   | 70 to 130 0.160 20  |            |

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

\* Test results for these accredited parameters 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) 664-6032 or 6171  
 FAX (205) 257-1654

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-12

Laboratory ID Number: AZ08784

| Sample  | Analysis          | Units | MB      | MB    |       |      | Sample    |      | LCS          | Rec  |           | Prec  |       |
|---------|-------------------|-------|---------|-------|-------|------|-----------|------|--------------|------|-----------|-------|-------|
|         |                   |       |         | Limit | Spike | MS   | Duplicate | LCS  | Limit        | Rec  | Limit     | Prec  | Limit |
| AZ08788 | Chloride          | mg/L  | -0.095  | 0.50  | 10.0  | 12.9 | 2.67      | 9.58 | 9 to 11      | 103  | 80 to 120 | 1.13  | 20    |
| AZ08788 | Fluoride          | mg/L  | 0.00538 | 0.05  | 2.50  | 2.51 | 0.029     | 2.52 | 2.25 to 2.75 | 100  | 80 to 120 | 0.00  | 20    |
| AZ08788 | Sulfate           | mg/L  | -0.127  | 0.50  | 20.0  | 23.0 | 3.78      | 19.8 | 18 to 22     | 96.0 | 80 to 120 | 0.791 | 20    |
| AZ08788 | Solids, Dissolved | mg/L  | -3.00   | 25    |       |      | 176       | 54.0 | 40 to 60     |      |           | 2.92  | 5     |

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

**Certificate Of Analysis**  **Alabama Power**



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAPEB  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond Equipment Blank

Laboratory ID Number: AZ08785

| Name                                  | Analyst | Test Date | Reference   | Vio Spec | DF    | MDL    | RL     | Q | Results      | Units |
|---------------------------------------|---------|-----------|-------------|----------|-------|--------|--------|---|--------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |             |          |       |        |        |   |              |       |
| * Arsenic, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U | Not Detected | mg/L  |
| * Barium, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U | Not Detected | mg/L  |
| * Beryllium, Total                    | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0006 | 0.003  | U | Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.03   | 0.1    | U | Not Detected | mg/L  |
| * Calcium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.1    | 0.5    | U | Not Detected | mg/L  |
| * Cadmium, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0003 | 0.001  | U | Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0008 | 0.003  | U | Not Detected | mg/L  |
| * Cobalt, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.005  | U | Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U | Not Detected | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 4/17/2019 | EPA 245.1   |          | 1     | 0.0003 | 0.0005 | U | Not Detected | mg/L  |
| * Lithium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.01   | 0.02   | U | Not Detected | mg/L  |
| * Molybdenum, Total                   | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U | Not Detected | mg/L  |
| * Lead, Total                         | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U | Not Detected | mg/L  |
| * Selenium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U | Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0002 | 0.001  | U | Not Detected | mg/L  |
| <b>General Characteristics</b>        |         |           |             |          |       |        |        |   |              |       |
| * Solids, Dissolved                   | CRB     | 4/16/2019 | SM 2540C    |          | 1     |        | 25     | U | Not Detected | mg/L  |
| Filter Completion Date                | CES     | 4/9/2019  | SM 2540C    |          | 1     |        |        |   | 04/09/2019   | Date  |
| * Chloride                            | JCC     | 4/9/2019  | SM4500Cl E  |          | 1     | 0.50   | 1      | U | Not Detected | mg/L  |
| * Fluoride                            | JCC     | 4/9/2019  | SM4500F C   |          | 1     | 0.05   | 0.1    | U | Not Detected | mg/L  |
| * Sulfate                             | JCC     | 4/8/2019  | SM4500SO4 E |          | 1     | 0.50   | 1      | U | Not Detected | mg/L  |

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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:**



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

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAPEB  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond Equipment Blank

Laboratory ID Number: AZ08785

| Sample  | Analysis               | Units | MB          | MB      |       | MS      | MSD     | LCS     | LCS              |     | Rec   |           | Prec | Limit  |    |
|---------|------------------------|-------|-------------|---------|-------|---------|---------|---------|------------------|-----|-------|-----------|------|--------|----|
|         |                        |       |             | Limit   | Spike |         |         |         | Limit            | Rec | Limit | Prec      |      |        |    |
| AZ08788 | Cobalt, Total          | mg/L  | -0.00000565 | 0.0044  | 0.10  | 0.102   | 0.103   | 0.106   | 0.085 to 0.115   |     | 102   | 70 to 130 |      | 0.949  | 20 |
| AZ08788 | Antimony, Total        | mg/L  | 0.000186    | 0.00176 | 0.10  | 0.0931  | 0.0909  | 0.0913  | 0.085 to 0.115   |     | 93.1  | 70 to 130 |      | 2.31   | 20 |
| AZ08788 | Mercury, Total by CVAA | mg/L  | 0.00000313  | 0.0005  | 0.004 | 0.00384 | 0.00383 | 0.00383 | 0.0034 to 0.0046 |     | 96.0  | 70 to 130 |      | 0.188  | 20 |
| AZ08788 | Molybdenum, Total      | mg/L  | 0.00000358  | 0.0044  | 0.10  | 0.104   | 0.105   | 0.104   | 0.085 to 0.115   |     | 104   | 70 to 130 |      | 0.759  | 20 |
| AZ08788 | Arsenic, Total         | mg/L  | 0.00000663  | 0.0022  | 0.10  | 0.0979  | 0.0960  | 0.0973  | 0.085 to 0.115   |     | 97.9  | 70 to 130 |      | 1.91   | 20 |
| AZ08788 | Calcium, Total         | mg/L  | 0.00326     | 0.22    | 5.00  | 44.8    | 45.4    | 5.22    | 4.25 to 5.75     |     | 97.0  | 70 to 130 |      | 1.25   | 20 |
| AZ08788 | Lithium, Total         | mg/L  | 0.0000213   | 0.022   | 0.20  | 0.211   | 0.213   | 0.198   | 0.17 to 0.23     |     | 106   | 70 to 130 |      | 0.868  | 20 |
| AZ08788 | Beryllium, Total       | mg/L  | 0.0000233   | 0.00132 | 0.10  | 0.0959  | 0.0960  | 0.103   | 0.085 to 0.115   |     | 95.9  | 70 to 130 |      | 0.0668 | 20 |
| AZ08788 | Boron, Total           | mg/L  | 0.00196     | 0.044   | 1.00  | 1.02    | 1.02    | 0.985   | 0.85 to 1.15     |     | 102   | 70 to 130 |      | 0.461  | 20 |
| AZ08788 | Cadmium, Total         | mg/L  | -0.00000225 | 0.00066 | 0.10  | 0.103   | 0.0984  | 0.100   | 0.085 to 0.115   |     | 103   | 70 to 130 |      | 4.25   | 20 |
| AZ08788 | Lead, Total            | mg/L  | 0.00000363  | 0.0022  | 0.10  | 0.106   | 0.106   | 0.110   | 0.085 to 0.115   |     | 106   | 70 to 130 |      | 0.160  | 20 |
| AZ08788 | Chromium, Total        | mg/L  | -0.0000294  | 0.0044  | 0.10  | 0.101   | 0.100   | 0.0999  | 0.085 to 0.115   |     | 101   | 70 to 130 |      | 0.358  | 20 |
| AZ08788 | Selenium, Total        | mg/L  | 0.0000548   | 0.0044  | 0.10  | 0.0990  | 0.0965  | 0.0994  | 0.085 to 0.115   |     | 99.0  | 70 to 130 |      | 2.62   | 20 |
| AZ08788 | Barium, Total          | mg/L  | 0.0000117   | 0.0044  | 0.10  | 0.115   | 0.111   | 0.0998  | 0.085 to 0.115   |     | 102   | 70 to 130 |      | 3.44   | 20 |
| AZ08788 | Thallium, Total        | mg/L  | -0.00000008 | 0.00044 | 0.10  | 0.103   | 0.105   | 0.108   | 0.085 to 0.115   |     | 103   | 70 to 130 |      | 2.20   | 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:**

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

## Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAPEB  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond Equipment Blank

Laboratory ID Number: AZ08785

| Sample  | Analysis          | Units | MB      | MB    |       |      | Sample    |      | LCS          | Rec  |           | Prec  |       |
|---------|-------------------|-------|---------|-------|-------|------|-----------|------|--------------|------|-----------|-------|-------|
|         |                   |       |         | Limit | Spike | MS   | Duplicate | LCS  | Limit        | Rec  | Limit     | Prec  | Limit |
| AZ08788 | Chloride          | mg/L  | -0.095  | 0.50  | 10.0  | 12.9 | 2.67      | 9.58 | 9 to 11      | 103  | 80 to 120 | 1.13  | 20    |
| AZ08788 | Fluoride          | mg/L  | 0.00538 | 0.05  | 2.50  | 2.51 | 0.029     | 2.52 | 2.25 to 2.75 | 100  | 80 to 120 | 0.00  | 20    |
| AZ08788 | Sulfate           | mg/L  | -0.127  | 0.50  | 20.0  | 23.0 | 3.78      | 19.8 | 18 to 22     | 96.0 | 80 to 120 | 0.791 | 20    |
| AZ08788 | Solids, Dissolved | mg/L  | -3.00   | 25    |       |      | 176       | 54.0 | 40 to 60     |      |           | 2.92  | 5     |

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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:**

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  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-11

Laboratory ID Number: AZ08786

| Name                                  | Analyst | Test Date | Reference   | Vio Spec | DF    | MDL    | RL     | Q Results      | Units |
|---------------------------------------|---------|-----------|-------------|----------|-------|--------|--------|----------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |             |          |       |        |        |                |       |
| * Arsenic, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Barium, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | J 0.00993      | mg/L  |
| * Beryllium, Total                    | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0006 | 0.003  | U Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.03   | 0.1    | 0.216          | mg/L  |
| * Calcium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.1    | 0.5    | 44.1           | mg/L  |
| * Cadmium, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0003 | 0.001  | U Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0008 | 0.003  | U Not Detected | mg/L  |
| * Cobalt, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.005  | U Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 4/17/2019 | EPA 245.1   |          | 1     | 0.0003 | 0.0005 | U Not Detected | mg/L  |
| * Lithium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.01   | 0.02   | U Not Detected | mg/L  |
| * Molybdenum, Total                   | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Lead, Total                         | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Selenium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0002 | 0.001  | U Not Detected | mg/L  |
| <b>General Characteristics</b>        |         |           |             |          |       |        |        |                |       |
| * Solids, Dissolved                   | CRB     | 4/16/2019 | SM 2540C    |          | 1     |        | 25     | 200            | mg/L  |
| Filter Completion Date                | CES     | 4/9/2019  | SM 2540C    |          | 1     |        |        | 04/09/2019     | Date  |
| * Chloride                            | JCC     | 4/9/2019  | SM4500CI E  |          | 1     | 0.50   | 1      | 6.35           | mg/L  |
| * Fluoride                            | JCC     | 4/9/2019  | SM4500F C   |          | 1     | 0.05   | 0.1    | U Not Detected | mg/L  |
| * Sulfate                             | JCC     | 4/8/2019  | SM4500SO4 E |          | 2     | 1.00   | 2      | 44.2           | mg/L  |
| <b>Field Measurements</b>             |         |           |             |          |       |        |        |                |       |
| pH                                    | SNP     | 4/3/2019  |             |          |       |        |        | FA 7.75        | 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  
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 Calera, AL 35040  
 (205) 664-6032 or 6171  
 FAX (205) 257-1654

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-11

Laboratory ID Number: AZ08786

| Sample  | Analysis               | Units | MB          |         | Spike | MS      | MSD     | LCS     | LCS              |     | Rec   |           | Prec   |    |
|---------|------------------------|-------|-------------|---------|-------|---------|---------|---------|------------------|-----|-------|-----------|--------|----|
|         |                        |       | MB          | Limit   |       |         |         |         | Limit            | Rec | Limit | Prec      |        |    |
| AZ08788 | Cobalt, Total          | mg/L  | -0.00000565 | 0.0044  | 0.10  | 0.102   | 0.103   | 0.106   | 0.085 to 0.115   |     | 102   | 70 to 130 | 0.949  | 20 |
| AZ08788 | Antimony, Total        | mg/L  | 0.000186    | 0.00176 | 0.10  | 0.0931  | 0.0909  | 0.0913  | 0.085 to 0.115   |     | 93.1  | 70 to 130 | 2.31   | 20 |
| AZ08788 | Mercury, Total by CVAA | mg/L  | 0.00000313  | 0.0005  | 0.004 | 0.00384 | 0.00383 | 0.00383 | 0.0034 to 0.0046 |     | 96.0  | 70 to 130 | 0.188  | 20 |
| AZ08788 | Molybdenum, Total      | mg/L  | 0.00000358  | 0.0044  | 0.10  | 0.104   | 0.105   | 0.104   | 0.085 to 0.115   |     | 104   | 70 to 130 | 0.759  | 20 |
| AZ08788 | Arsenic, Total         | mg/L  | 0.00000663  | 0.0022  | 0.10  | 0.0979  | 0.0960  | 0.0973  | 0.085 to 0.115   |     | 97.9  | 70 to 130 | 1.91   | 20 |
| AZ08788 | Calcium, Total         | mg/L  | 0.00326     | 0.22    | 5.00  | 44.8    | 45.4    | 5.22    | 4.25 to 5.75     |     | 97.0  | 70 to 130 | 1.25   | 20 |
| AZ08788 | Lithium, Total         | mg/L  | 0.0000213   | 0.022   | 0.20  | 0.211   | 0.213   | 0.198   | 0.17 to 0.23     |     | 106   | 70 to 130 | 0.868  | 20 |
| AZ08788 | Chromium, Total        | mg/L  | -0.0000294  | 0.0044  | 0.10  | 0.101   | 0.100   | 0.0999  | 0.085 to 0.115   |     | 101   | 70 to 130 | 0.358  | 20 |
| AZ08788 | Selenium, Total        | mg/L  | 0.0000548   | 0.0044  | 0.10  | 0.0990  | 0.0965  | 0.0994  | 0.085 to 0.115   |     | 99.0  | 70 to 130 | 2.62   | 20 |
| AZ08788 | Barium, Total          | mg/L  | 0.0000117   | 0.0044  | 0.10  | 0.115   | 0.111   | 0.0998  | 0.085 to 0.115   |     | 102   | 70 to 130 | 3.44   | 20 |
| AZ08788 | Thallium, Total        | mg/L  | -0.00000008 | 0.00044 | 0.10  | 0.103   | 0.105   | 0.108   | 0.085 to 0.115   |     | 103   | 70 to 130 | 2.20   | 20 |
| AZ08788 | Beryllium, Total       | mg/L  | 0.0000233   | 0.00132 | 0.10  | 0.0959  | 0.0960  | 0.103   | 0.085 to 0.115   |     | 95.9  | 70 to 130 | 0.0668 | 20 |
| AZ08788 | Boron, Total           | mg/L  | 0.00196     | 0.044   | 1.00  | 1.02    | 1.02    | 0.985   | 0.85 to 1.15     |     | 102   | 70 to 130 | 0.461  | 20 |
| AZ08788 | Cadmium, Total         | mg/L  | -0.00000225 | 0.00066 | 0.10  | 0.103   | 0.0984  | 0.100   | 0.085 to 0.115   |     | 103   | 70 to 130 | 4.25   | 20 |
| AZ08788 | Lead, Total            | mg/L  | 0.00000363  | 0.0022  | 0.10  | 0.106   | 0.106   | 0.110   | 0.085 to 0.115   |     | 106   | 70 to 130 | 0.160  | 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:**

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

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-11

Laboratory ID Number: AZ08786

| Sample  | Analysis          | Units | MB      | MB Limit | Spike | MS   | Sample Duplicate | LCS  | LCS Limit    | Rec Rec | Rec Limit | Prec  | Prec Limit |
|---------|-------------------|-------|---------|----------|-------|------|------------------|------|--------------|---------|-----------|-------|------------|
| AZ08788 | Solids, Dissolved | mg/L  | -3.00   | 25       |       |      | 176              | 54.0 | 40 to 60     |         |           | 2.92  | 5          |
| AZ08788 | Fluoride          | mg/L  | 0.00538 | 0.05     | 2.50  | 2.51 | 0.029            | 2.52 | 2.25 to 2.75 | 100     | 80 to 120 | 0.00  | 20         |
| AZ08788 | Chloride          | mg/L  | -0.095  | 0.50     | 10.0  | 12.9 | 2.67             | 9.58 | 9 to 11      | 103     | 80 to 120 | 1.13  | 20         |
| AZ08788 | Sulfate           | mg/L  | -0.127  | 0.50     | 20.0  | 23.0 | 3.78             | 19.8 | 18 to 22     | 96.0    | 80 to 120 | 0.791 | 20         |

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Laboratory certification ID: E571114

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**Comments:**

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  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-10

Laboratory ID Number: AZ08787

| Name                                  | Analyst | Test Date | Reference   | Vio Spec | DF    | MDL    | RL     | Q Results      | Units |
|---------------------------------------|---------|-----------|-------------|----------|-------|--------|--------|----------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |             |          |       |        |        |                |       |
| * Arsenic, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Barium, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 0.0137         | mg/L  |
| * Beryllium, Total                    | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0006 | 0.003  | U Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.03   | 0.1    | U Not Detected | mg/L  |
| * Calcium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.1    | 0.5    | 40.0           | mg/L  |
| * Cadmium, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0003 | 0.001  | U Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0008 | 0.003  | U Not Detected | mg/L  |
| * Cobalt, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.005  | U Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 4/17/2019 | EPA 245.1   |          | 1     | 0.0003 | 0.0005 | U Not Detected | mg/L  |
| * Lithium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.01   | 0.02   | U Not Detected | mg/L  |
| * Molybdenum, Total                   | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Lead, Total                         | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Selenium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0002 | 0.001  | U Not Detected | mg/L  |
| <b>General Characteristics</b>        |         |           |             |          |       |        |        |                |       |
| * Solids, Dissolved                   | CRB     | 4/16/2019 | SM 2540C    |          | 1     |        | 25     | 177            | mg/L  |
| Filter Completion Date                | CES     | 4/9/2019  | SM 2540C    |          | 1     |        |        | 04/09/2019     | Date  |
| * Chloride                            | JCC     | 4/9/2019  | SM4500Cl E  |          | 1     | 0.50   | 1      | 2.70           | mg/L  |
| * Fluoride                            | JCC     | 4/9/2019  | SM4500F C   |          | 1     | 0.05   | 0.1    | U Not Detected | mg/L  |
| * Sulfate                             | JCC     | 4/8/2019  | SM4500SO4 E |          | 1     | 0.50   | 1      | 3.85           | mg/L  |
| <b>Field Measurements</b>             |         |           |             |          |       |        |        |                |       |
| pH                                    | SNP     | 4/3/2019  |             |          |       |        |        | FA 7.6         | SU    |

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

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**Comments:**

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

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-10

Laboratory ID Number: AZ08787

| Sample  | Analysis               | Units | MB          | MB      |       | MS      | MSD     | LCS     | LCS              |     | Rec   |           | Prec   |    |
|---------|------------------------|-------|-------------|---------|-------|---------|---------|---------|------------------|-----|-------|-----------|--------|----|
|         |                        |       |             | Limit   | Spike |         |         |         | Limit            | Rec | Limit | Prec      |        |    |
| AZ08788 | Cobalt, Total          | mg/L  | -0.00000565 | 0.0044  | 0.10  | 0.102   | 0.103   | 0.106   | 0.085 to 0.115   |     | 102   | 70 to 130 | 0.949  | 20 |
| AZ08788 | Antimony, Total        | mg/L  | 0.000186    | 0.00176 | 0.10  | 0.0931  | 0.0909  | 0.0913  | 0.085 to 0.115   |     | 93.1  | 70 to 130 | 2.31   | 20 |
| AZ08788 | Mercury, Total by CVAA | mg/L  | 0.00000313  | 0.0005  | 0.004 | 0.00384 | 0.00383 | 0.00383 | 0.0034 to 0.0046 |     | 96.0  | 70 to 130 | 0.188  | 20 |
| AZ08788 | Molybdenum, Total      | mg/L  | 0.00000358  | 0.0044  | 0.10  | 0.104   | 0.105   | 0.104   | 0.085 to 0.115   |     | 104   | 70 to 130 | 0.759  | 20 |
| AZ08788 | Arsenic, Total         | mg/L  | 0.00000663  | 0.0022  | 0.10  | 0.0979  | 0.0960  | 0.0973  | 0.085 to 0.115   |     | 97.9  | 70 to 130 | 1.91   | 20 |
| AZ08788 | Calcium, Total         | mg/L  | 0.00326     | 0.22    | 5.00  | 44.8    | 45.4    | 5.22    | 4.25 to 5.75     |     | 97.0  | 70 to 130 | 1.25   | 20 |
| AZ08788 | Lithium, Total         | mg/L  | 0.0000213   | 0.022   | 0.20  | 0.211   | 0.213   | 0.198   | 0.17 to 0.23     |     | 106   | 70 to 130 | 0.868  | 20 |
| AZ08788 | Barium, Total          | mg/L  | 0.0000117   | 0.0044  | 0.10  | 0.115   | 0.111   | 0.0998  | 0.085 to 0.115   |     | 102   | 70 to 130 | 3.44   | 20 |
| AZ08788 | Thallium, Total        | mg/L  | -0.00000008 | 0.00044 | 0.10  | 0.103   | 0.105   | 0.108   | 0.085 to 0.115   |     | 103   | 70 to 130 | 2.20   | 20 |
| AZ08788 | Beryllium, Total       | mg/L  | 0.0000233   | 0.00132 | 0.10  | 0.0959  | 0.0960  | 0.103   | 0.085 to 0.115   |     | 95.9  | 70 to 130 | 0.0668 | 20 |
| AZ08788 | Boron, Total           | mg/L  | 0.00196     | 0.044   | 1.00  | 1.02    | 1.02    | 0.985   | 0.85 to 1.15     |     | 102   | 70 to 130 | 0.461  | 20 |
| AZ08788 | Cadmium, Total         | mg/L  | -0.00000225 | 0.00066 | 0.10  | 0.103   | 0.0984  | 0.100   | 0.085 to 0.115   |     | 103   | 70 to 130 | 4.25   | 20 |
| AZ08788 | Lead, Total            | mg/L  | 0.00000363  | 0.0022  | 0.10  | 0.106   | 0.106   | 0.110   | 0.085 to 0.115   |     | 106   | 70 to 130 | 0.160  | 20 |
| AZ08788 | Chromium, Total        | mg/L  | -0.0000294  | 0.0044  | 0.10  | 0.101   | 0.100   | 0.0999  | 0.085 to 0.115   |     | 101   | 70 to 130 | 0.358  | 20 |
| AZ08788 | Selenium, Total        | mg/L  | 0.0000548   | 0.0044  | 0.10  | 0.0990  | 0.0965  | 0.0994  | 0.085 to 0.115   |     | 99.0  | 70 to 130 | 2.62   | 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:**

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

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-10

Laboratory ID Number: AZ08787

| Sample  | Analysis          | Units | MB      | MB    |       |      | Sample    |      | LCS          | Rec  |           |       | Prec  |
|---------|-------------------|-------|---------|-------|-------|------|-----------|------|--------------|------|-----------|-------|-------|
|         |                   |       |         | Limit | Spike | MS   | Duplicate | LCS  | Limit        | Rec  | Limit     | Prec  | Limit |
| AZ08788 | Fluoride          | mg/L  | 0.00538 | 0.05  | 2.50  | 2.51 | 0.029     | 2.52 | 2.25 to 2.75 | 100  | 80 to 120 | 0.00  | 20    |
| AZ08788 | Solids, Dissolved | mg/L  | -3.00   | 25    |       |      | 176       | 54.0 | 40 to 60     |      |           | 2.92  | 5     |
| AZ08788 | Sulfate           | mg/L  | -0.127  | 0.50  | 20.0  | 23.0 | 3.78      | 19.8 | 18 to 22     | 96.0 | 80 to 120 | 0.791 | 20    |
| AZ08788 | Chloride          | mg/L  | -0.095  | 0.50  | 10.0  | 12.9 | 2.67      | 9.58 | 9 to 11      | 103  | 80 to 120 | 1.13  | 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) 664-6032 or 6171  
 FAX (205) 257-1654

**Certificate Of Analysis**  **Alabama Power**



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-10 DUP

Laboratory ID Number: AZ08788

| Name                                  | Analyst | Test Date | Reference   | Vio Spec | DF    | MDL    | RL     | Q Results      | Units |
|---------------------------------------|---------|-----------|-------------|----------|-------|--------|--------|----------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |             |          |       |        |        |                |       |
| * Arsenic, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Barium, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 0.0129         | mg/L  |
| * Beryllium, Total                    | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0006 | 0.003  | U Not Detected | mg/L  |
| * Boron, Total                        | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.03   | 0.1    | U Not Detected | mg/L  |
| * Calcium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.1    | 0.5    | 39.9           | mg/L  |
| * Cadmium, Total                      | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0003 | 0.001  | U Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0008 | 0.003  | U Not Detected | mg/L  |
| * Cobalt, Total                       | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.005  | U Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Mercury, Total by CVAA              | ABB     | 4/17/2019 | EPA 245.1   |          | 1     | 0.0003 | 0.0005 | U Not Detected | mg/L  |
| * Lithium, Total                      | GAS     | 4/18/2019 | EPA 200.7   |          | 2.03  | 0.01   | 0.02   | U Not Detected | mg/L  |
| * Molybdenum, Total                   | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Lead, Total                         | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Selenium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 4/9/2019  | EPA 200.8   |          | 5.075 | 0.0002 | 0.001  | U Not Detected | mg/L  |
| <b>General Characteristics</b>        |         |           |             |          |       |        |        |                |       |
| * Solids, Dissolved                   | CRB     | 4/16/2019 | SM 2540C    |          | 1     |        | 25     | 166            | mg/L  |
| Filter Completion Date                | CES     | 4/9/2019  | SM 2540C    |          | 1     |        |        | 04/09/2019     | Date  |
| * Chloride                            | JCC     | 4/9/2019  | SM4500Cl E  |          | 1     | 0.50   | 1      | 2.64           | mg/L  |
| * Fluoride                            | JCC     | 4/9/2019  | SM4500F C   |          | 1     | 0.05   | 0.1    | U Not Detected | mg/L  |
| * Sulfate                             | JCC     | 4/8/2019  | SM4500SO4 E |          | 1     | 0.50   | 1      | 3.81           | mg/L  |
| <b>Field Measurements</b>             |         |           |             |          |       |        |        |                |       |
| pH                                    | SNP     | 4/3/2019  |             |          |       |        |        | FA 7.6         | SU    |

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 Calera, AL 35040  
 (205) 664-6032 or 6171  
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# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-10 DUP

Laboratory ID Number: AZ08788

| Sample  | Analysis               | Units | MB          | MB      |       | MS      | MSD     | LCS     | LCS              |      | Rec       |        | Prec |
|---------|------------------------|-------|-------------|---------|-------|---------|---------|---------|------------------|------|-----------|--------|------|
|         |                        |       |             | Limit   | Spike |         |         |         | Limit            | Rec  | Limit     | Prec   |      |
| AZ08788 | Cobalt, Total          | mg/L  | -0.00000565 | 0.0044  | 0.10  | 0.102   | 0.103   | 0.106   | 0.085 to 0.115   | 102  | 70 to 130 | 0.949  | 20   |
| AZ08788 | Antimony, Total        | mg/L  | 0.000186    | 0.00176 | 0.10  | 0.0931  | 0.0909  | 0.0913  | 0.085 to 0.115   | 93.1 | 70 to 130 | 2.31   | 20   |
| AZ08788 | Mercury, Total by CVAA | mg/L  | 0.00000313  | 0.0005  | 0.004 | 0.00384 | 0.00383 | 0.00383 | 0.0034 to 0.0046 | 96.0 | 70 to 130 | 0.188  | 20   |
| AZ08788 | Molybdenum, Total      | mg/L  | 0.00000358  | 0.0044  | 0.10  | 0.104   | 0.105   | 0.104   | 0.085 to 0.115   | 104  | 70 to 130 | 0.759  | 20   |
| AZ08788 | Barium, Total          | mg/L  | 0.0000117   | 0.0044  | 0.10  | 0.115   | 0.111   | 0.0998  | 0.085 to 0.115   | 102  | 70 to 130 | 3.44   | 20   |
| AZ08788 | Thallium, Total        | mg/L  | -0.00000008 | 0.00044 | 0.10  | 0.103   | 0.105   | 0.108   | 0.085 to 0.115   | 103  | 70 to 130 | 2.20   | 20   |
| AZ08788 | Chromium, Total        | mg/L  | -0.0000294  | 0.0044  | 0.10  | 0.101   | 0.100   | 0.0999  | 0.085 to 0.115   | 101  | 70 to 130 | 0.358  | 20   |
| AZ08788 | Selenium, Total        | mg/L  | 0.0000548   | 0.0044  | 0.10  | 0.0990  | 0.0965  | 0.0994  | 0.085 to 0.115   | 99.0 | 70 to 130 | 2.62   | 20   |
| AZ08788 | Beryllium, Total       | mg/L  | 0.0000233   | 0.00132 | 0.10  | 0.0959  | 0.0960  | 0.103   | 0.085 to 0.115   | 95.9 | 70 to 130 | 0.0668 | 20   |
| AZ08788 | Boron, Total           | mg/L  | 0.00196     | 0.044   | 1.00  | 1.02    | 1.02    | 0.985   | 0.85 to 1.15     | 102  | 70 to 130 | 0.461  | 20   |
| AZ08788 | Cadmium, Total         | mg/L  | -0.00000225 | 0.00066 | 0.10  | 0.103   | 0.0984  | 0.100   | 0.085 to 0.115   | 103  | 70 to 130 | 4.25   | 20   |
| AZ08788 | Lead, Total            | mg/L  | 0.00000363  | 0.0022  | 0.10  | 0.106   | 0.106   | 0.110   | 0.085 to 0.115   | 106  | 70 to 130 | 0.160  | 20   |
| AZ08788 | Arsenic, Total         | mg/L  | 0.00000663  | 0.0022  | 0.10  | 0.0979  | 0.0960  | 0.0973  | 0.085 to 0.115   | 97.9 | 70 to 130 | 1.91   | 20   |
| AZ08788 | Calcium, Total         | mg/L  | 0.00326     | 0.22    | 5.00  | 44.8    | 45.4    | 5.22    | 4.25 to 5.75     | 97.0 | 70 to 130 | 1.25   | 20   |
| AZ08788 | Lithium, Total         | mg/L  | 0.0000213   | 0.022   | 0.20  | 0.211   | 0.213   | 0.198   | 0.17 to 0.23     | 106  | 70 to 130 | 0.868  | 20   |

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Laboratory certification ID: E571114

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**Comments:**

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

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 03-Apr-19  
 Customer ID:  
 Delivery Date: 04-Apr-19

Description: Gaston Ash Pond - MW-10 DUP

Laboratory ID Number: AZ08788

| Sample  | Analysis          | Units | MB      | MB    |       |      | Sample    |      | LCS          | Rec  |           | Prec  |       |
|---------|-------------------|-------|---------|-------|-------|------|-----------|------|--------------|------|-----------|-------|-------|
|         |                   |       |         | Limit | Spike | MS   | Duplicate | LCS  | Limit        | Rec  | Limit     | Prec  | Limit |
| AZ08788 | Fluoride          | mg/L  | 0.00538 | 0.05  | 2.50  | 2.51 | 0.029     | 2.52 | 2.25 to 2.75 | 100  | 80 to 120 | 0.00  | 20    |
| AZ08788 | Chloride          | mg/L  | -0.095  | 0.50  | 10.0  | 12.9 | 2.67      | 9.58 | 9 to 11      | 103  | 80 to 120 | 1.13  | 20    |
| AZ08788 | Solids, Dissolved | mg/L  | -3.00   | 25    |       |      | 176       | 54.0 | 40 to 60     |      |           | 2.92  | 5     |
| AZ08788 | Sulfate           | mg/L  | -0.127  | 0.50  | 20.0  | 23.0 | 3.78      | 19.8 | 18 to 22     | 96.0 | 80 to 120 | 0.791 | 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:



| 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  
 Lab Complete

Outside Lab

Lab ETA **04/04/2019 08:30**

|                                                             |                   |                                        |                                         |
|-------------------------------------------------------------|-------------------|----------------------------------------|-----------------------------------------|
| Requested Complete Date<br>Site Representative<br>Collector | Routine           | Results To<br>Requested By<br>Location | Dustin Brooks, Greg Dyer, Lauren Parker |
|                                                             | Tanisha Fenderson |                                        | Lauren Parker                           |
|                                                             | Ben Rothschild    |                                        | Gaston 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-19     | 4/1/19     | 14:06 | 4            | Groundwater      |            | AZ08760 |
| MW-2      | 04/01/2019 | 15:33 | 4            | Groundwater      |            | AZ08761 |
| MW-7      | 04/02/2019 | 09:53 | 4            | Groundwater      |            | AZ08762 |
| MW-6      | 04/02/2019 | 11:01 | 4            | Groundwater      |            | AZ08763 |
| MW-6 DUP  | 04/02/2019 | 11:01 | 4            | Sample Duplicate |            | AZ08764 |
| MW-21     | 04/02/2019 | 12:06 | 4            | Groundwater      |            | AZ08765 |
| MW-22     | 04/02/2019 | 12:57 | 4            | Groundwater      |            | AZ08766 |
| MW-5      | 04/02/2019 | 13:45 | 4            | Groundwater      |            | AZ08767 |
| MW-4      | 04/02/2019 | 14:56 | 4            | Groundwater      |            | AZ08768 |
| MW-3      | 04/02/2019 | 16:07 | 4            | Groundwater      |            | AZ08769 |
| FB-2      | 04/02/2019 | 16:50 | 4            | Field Blank      |            | AZ08770 |
| MW-20     | 04/03/2019 | 10:14 | 4            | Groundwater      |            | AZ08771 |
| MW-18     | 04/03/2019 | 11:10 | 4            | Groundwater      |            | AZ08772 |
| MW-17     | 04/03/2019 | 12:07 | 4            | Groundwater      |            | AZ08773 |
| MW-16     | 04/03/2019 | 13:40 | 4            | Groundwater      |            | AZ08774 |
| MW-16 DUP | 04/03/2019 | 13:40 | 4            | Sample Duplicate |            | AZ08775 |
| MW-15R    | 04/03/2019 | 14:47 | 4            | Groundwater      |            | AZ08776 |
| FB-3      | 04/03/2019 | 15:50 | 4            | Field Blank      |            | AZ08777 |
|           |            |       |              |                  |            |         |
|           |            |       |              |                  |            |         |
|           |            |       |              |                  |            |         |

|                 |             |                  |
|-----------------|-------------|------------------|
| Relinquished By | Received By | Date/Time        |
|                 |             | 04/04/2019 08:25 |
|                 |             |                  |
|                 |             |                  |

|              |                |
|--------------|----------------|
| SmarTroll ID | 4696-23443-3-2 |
| Turbidity ID | 3901-20010-2-2 |
| Sample Event | 1214           |

All metals and radiological bottles have pH < 2

|                |                |
|----------------|----------------|
| Cooler Temp    | 0.3 degrees C  |
| Thermometer ID | 5408-27568-2-2 |
| pH Strip ID    | 7260-39349-1-1 |



# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA 04/04/2019 09:00

|                         |                   |              |                                         |
|-------------------------|-------------------|--------------|-----------------------------------------|
| Requested Complete Date | Routine           | Results To   | Dustin Brooks, Greg Dyer, Lauren Parker |
| Site Representative     | Tanisha Fenderson | Requested By | Lauren Parker                           |
| Collector               | Nick Pitts        | Location     | Gaston 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-9      | 4/1/19     | 11:23 | 4            | Groundwater      |            | AZ08778 |
| MW-8      | 04/01/2019 | 13:10 | 4            | Groundwater      |            | AZ08779 |
| MW-1      | 04/01/2019 | 15:05 | 4            | Groundwater      |            | AZ08780 |
| FB-1      | 04/01/2019 | 15:40 | 4            | Field Blank      |            | AZ08781 |
| MW-14     | 04/03/2019 | 09:55 | 4            | Groundwater      |            | AZ08782 |
| MW-13     | 04/03/2019 | 11:23 | 4            | Groundwater      |            | AZ08783 |
| MW-12     | 04/03/2019 | 13:55 | 4            | Groundwater      |            | AZ08784 |
| EB-1      | 04/03/2019 | 13:00 | 4            | Equipment Blank  |            | AZ08785 |
| MW-11     | 04/03/2019 | 15:12 | 4            | Groundwater      |            | AZ08786 |
| MW-10     | 04/03/2019 | 16:10 | 4            | Groundwater      |            | AZ08787 |
| MW-10 Dup | 04/03/2019 | 16:10 | 4            | Sample Duplicate |            | AZ08788 |
|           |            |       |              |                  |            |         |
|           |            |       |              |                  |            |         |
|           |            |       |              |                  |            |         |
|           |            |       |              |                  |            |         |
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|           |            |       |              |                  |            |         |

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|-----------------|-------------|------------------|
| Relinquished By | Received By | Date/Time        |
|                 |             | 04/04/2019 09:35 |
|                 |             |                  |
|                 |             |                  |

|              |                |                                                                                     |
|--------------|----------------|-------------------------------------------------------------------------------------|
| 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 | 1214           | Thermometer ID                                                                      |
|              |                | pH Strip ID                                                                         |
|              |                |                                                                                     |



# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete

Outside Lab

Lab Complete

Lab ETA **04/04/2019 08:30**

|                         |                   |              |                                       |
|-------------------------|-------------------|--------------|---------------------------------------|
| Requested Complete Date | Routine           | Results To   | Dustin Brooks,Greg Dyer,Lauren Parker |
| Site Representative     | Tanisha Fenderson | Requested By | Lauren Parker                         |
| Collector               | Ben Rothschild    | Location     | Gaston 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-5 and MW-18

| Sample #  | Date       | Time  | Bottle Count | Description      | Lab Filter | Lab Id  |
|-----------|------------|-------|--------------|------------------|------------|---------|
| MW-19     | 4/1/19     | 14:06 | 1            | Groundwater      |            | AZ08789 |
| MW-2      | 04/01/2019 | 15:33 | 1            | Groundwater      |            | AZ08790 |
| MW-7      | 04/02/2019 | 09:53 | 1            | Groundwater      |            | AZ08791 |
| MW-6      | 04/02/2019 | 11:01 | 1            | Groundwater      |            | AZ08792 |
| MW-6 DUP  | 04/02/2019 | 11:01 | 1            | Sample Duplicate |            | AZ08793 |
| MW-21     | 04/02/2019 | 12:06 | 1            | Groundwater      |            | AZ08794 |
| MW-22     | 04/02/2019 | 12:57 | 1            | Groundwater      |            | AZ08795 |
| MW-5      | 04/02/2019 | 13:45 | 3            | Groundwater      |            | AZ08796 |
| MW-4      | 04/02/2019 | 14:56 | 1            | Groundwater      |            | AZ08797 |
| MW-3      | 04/02/2019 | 16:07 | 1            | Groundwater      |            | AZ08798 |
| FB-2      | 04/02/2019 | 16:50 | 1            | Field Blank      |            | AZ08799 |
| MW-20     | 04/03/2019 | 10:14 | 1            | Groundwater      |            | AZ08800 |
| MW-18     | 04/03/2019 | 11:10 | 3            | Groundwater      |            | AZ08801 |
| MW-17     | 04/03/2019 | 12:07 | 1            | Groundwater      |            | AZ08802 |
| MW-16     | 04/03/2019 | 13:40 | 1            | Groundwater      |            | AZ08803 |
| MW-16 DUP | 04/03/2019 | 13:40 | 1            | Sample Duplicate |            | AZ08804 |
| MW-15R    | 04/03/2019 | 14:47 | 1            | Groundwater      |            | AZ08805 |
| FB-3      | 04/03/2019 | 15:50 | 1            | Field Blank      |            | AZ08806 |
|           |            |       |              |                  |            |         |
|           |            |       |              |                  |            |         |
|           |            |       |              |                  |            |         |

|                 |             |                  |
|-----------------|-------------|------------------|
| Relinquished By | Received By | Date/Time        |
|                 |             | 04/04/2019 08:25 |
|                 |             |                  |
|                 |             |                  |

|              |                |                                                                                     |                |
|--------------|----------------|-------------------------------------------------------------------------------------|----------------|
| SmarTroll ID | 4696-23443-3-2 | All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/> |                |
| Turbidity ID | 3901-20010-2-2 |                                                                                     |                |
| Sample Event | 1214           |                                                                                     |                |
|              |                |                                                                                     |                |
|              |                | Cooler Temp                                                                         | N/A            |
|              |                | Thermometer ID                                                                      | N/A            |
|              |                | pH Strip ID                                                                         | 7260-39349-1-1 |



# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA 04/04/2019 09:00

|                         |                   |              |                                         |
|-------------------------|-------------------|--------------|-----------------------------------------|
| Requested Complete Date | Routine           | Results To   | Dustin Brooks, Greg Dyer, Lauren Parker |
| Site Representative     | Tanisha Fenderson | Requested By | Lauren Parker                           |
| Collector               | Nick Pitts        | Location     | Gaston 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-9      | 4/1/19     | 11:23 | 1            | Groundwater      |            | AZ08807 |
| MW-8      | 04/01/2019 | 13:10 | 1            | Groundwater      |            | AZ08808 |
| MW-1      | 04/01/2019 | 15:05 | 1            | Groundwater      |            | AZ08809 |
| FB-1      | 04/01/2019 | 15:40 | 1            | Field Blank      |            | AZ08810 |
| MW-14     | 04/03/2019 | 09:55 | 1            | Groundwater      |            | AZ08811 |
| MW-13     | 04/03/2019 | 11:23 | 1            | Groundwater      |            | AZ08812 |
| MW-12     | 04/03/2019 | 13:55 | 1            | Groundwater      |            | AZ08813 |
| EB-1      | 04/03/2019 | 13:00 | 1            | Equipment Blank  |            | AZ08814 |
| MW-11     | 04/03/2019 | 15:12 | 1            | Groundwater      |            | AZ08815 |
| MW-10     | 04/03/2019 | 16:10 | 1            | Groundwater      |            | AZ08816 |
| MW-10 Dup | 04/03/2019 | 16:10 | 1            | Sample Duplicate |            | AZ08817 |
|           |            |       |              |                  |            |         |
|           |            |       |              |                  |            |         |
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|                 |             |                  |
|-----------------|-------------|------------------|
| Relinquished By | Received By | Date/Time        |
|                 |             | 04/04/2019 09:32 |
|                 |             |                  |
|                 |             |                  |

|              |                |
|--------------|----------------|
| SmarTroll ID | 7151-38850-2-2 |
| Turbidity ID | 3901-20009-2-1 |
| Sample Event | 1214           |

All metals and radiological bottles have pH < 2

|                |                |
|----------------|----------------|
| Cooler Temp    | N/A            |
| Thermometer ID | N/A            |
| pH Strip ID    | 7260-39349-1-1 |



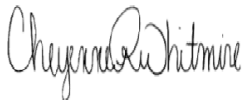
## ANALYTICAL REPORT

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

Laboratory Job ID: 400-168447-1  
Laboratory Sample Delivery Group: Gaston Ash Pond 1214  
Client Project/Site: CCR Plant Gaston

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

Attn: Laura Midkiff



Authorized for release by:  
5/30/2019 4:18:33 PM

Cheyenne Whitmire, Project Manager II  
(850)471-6222  
[cheyenne.whitmire@testamericainc.com](mailto:cheyenne.whitmire@testamericainc.com)

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*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 Gaston

Job ID: 400-168447-1  
SDG: Gaston Ash Pond 1214

**Job ID: 400-168447-1**

**Laboratory: Eurofins TestAmerica, Pensacola**

## Narrative

### Job Narrative 400-168447-1

#### RAD

Method(s) 9315: Ra-226 Prep Batch 160-424966. 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. AZ08789 MW-19 (400-168447-1), AZ08790 MW-2 (400-168447-2), AZ08791 MW-7 (400-168447-3), AZ08792 MW-6 (400-168447-4), AZ08793 MW-6 DUP (400-168447-5), AZ08794 MW-21 (400-168447-6), AZ08817 MW-10 DUP (400-168447-29), (LCS 160-424966/1-A), (LCSD 160-424966/2-A) and (MB 160-424966/23-A)

Method(s) 9315: Ra-226 Prep Batch 160-425526. 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. AZ08799 FB-2 (400-168447-11), AZ08800 MW-20 (400-168447-12), AZ08801 MW-18 (400-168447-13), AZ08801 MW-18 (400-168447-13[DUJ]), AZ08802 MW-17 (400-168447-14), AZ08803 MW-16 (400-168447-15), AZ08804 MW-16 DUP (400-168447-16), AZ08805 MW-15R (400-168447-17), AZ08806 FB-3 (400-168447-18), AZ08807 MW-9 (400-168447-19), AZ08808 MW-8 (400-168447-20), AZ08809 MW-1 (400-168447-21), AZ08810 FB-1 (400-168447-22), AZ08811 MW-14 (400-168447-23), AZ08812 MW-13 (400-168447-24), AZ08813 MW-12 (400-168447-25), AZ08814 EB-1 (400-168447-26), AZ08815 MW-11 (400-168447-27), AZ08816 MW-10 (400-168447-28), (LCS 160-425526/1-A) and (MB 160-425526/23-A)

Method(s) 9315: Ra-226 Prep Batch 160-424955. The barium carrier recovery is outside the upper control limit (110%) for the following sample: AZ08797 MW-4 (400-168447-9). There was physical evidence of matrix interference apparent during the initial preparation of the sample. The QC samples associated with the batch have acceptable carrier recovery indicating the presence of matrix interference.

Method(s) 9315: Ra-226 Prep Batch 160-424955. 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. AZ08795 MW-22 (400-168447-7), AZ08796 MW-5 (400-168447-8), AZ08796 MW-5 (400-168447-8[DUJ]), AZ08797 MW-4 (400-168447-9), AZ08798 MW-3 (400-168447-10), (LCS 160-424955/1-A) and (MB 160-424955/23-A)

Method(s) 9320: Ra-228 Prep Batch 160-425535. 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. AZ08799 FB-2 (400-168447-11), AZ08800 MW-20 (400-168447-12), AZ08801 MW-18 (400-168447-13), AZ08801 MW-18 (400-168447-13[DUJ]), AZ08802 MW-17 (400-168447-14), AZ08803 MW-16 (400-168447-15), AZ08804 MW-16 DUP (400-168447-16), AZ08805 MW-15R (400-168447-17), AZ08806 FB-3 (400-168447-18), AZ08807 MW-9 (400-168447-19), AZ08808 MW-8 (400-168447-20), AZ08809 MW-1 (400-168447-21), AZ08810 FB-1 (400-168447-22), AZ08811 MW-14 (400-168447-23), AZ08812 MW-13 (400-168447-24), AZ08813 MW-12 (400-168447-25), AZ08814 EB-1 (400-168447-26), AZ08815 MW-11 (400-168447-27), AZ08816 MW-10 (400-168447-28), (LCS 160-425535/1-A) and (MB 160-425535/23-A)

Method(s) 9320: Radium-228 Prep Batch 160-424967. 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. AZ08789 MW-19 (400-168447-1), AZ08790 MW-2 (400-168447-2), AZ08791 MW-7 (400-168447-3), AZ08792 MW-6 (400-168447-4), AZ08793 MW-6 DUP (400-168447-5), AZ08794 MW-21 (400-168447-6), AZ08817 MW-10 DUP (400-168447-29), (LCS 160-424967/1-A), (LCSD 160-424967/2-A) and (MB 160-424967/23-A)

Method(s) 9320: Ra-226 Prep batch 160-424962. The barium carrier recovery is outside the upper control limit (110%) for the following sample: AZ08797 MW-4 (400-168447-9). There was physical evidence of matrix interference apparent during the initial preparation of the sample. The QC samples associated with the batch have acceptable carrier recovery indicating the presence of matrix interference.

Method(s) 9320: Ra-228 Prep Batch 160-424962. 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. AZ08795 MW-22 (400-168447-7), AZ08796 MW-5

## Case Narrative

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

Job ID: 400-168447-1  
SDG: Gaston Ash Pond 1214

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### Job ID: 400-168447-1 (Continued)

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#### Laboratory: Eurofins TestAmerica, Pensacola (Continued)

(400-168447-8), AZ08796 MW-5 (400-168447-8[DU]), AZ08797 MW-4 (400-168447-9), AZ08798 MW-3 (400-168447-10), (LCS 160-424962/1-A) and (MB 160-424962/23-A)

Method(s) PrecSep\_0: Radium 228 Prep Batch 160-424967. Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: AZ08789 MW-19 (400-168447-1), AZ08790 MW-2 (400-168447-2), AZ08791 MW-7 (400-168447-3), AZ08792 MW-6 (400-168447-4), AZ08793 MW-6 DUP (400-168447-5), AZ08794 MW-21 (400-168447-6) and AZ08817 MW-10 DUP (400-168447-29). 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 160-424966. Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: AZ08789 MW-19 (400-168447-1), AZ08790 MW-2 (400-168447-2), AZ08791 MW-7 (400-168447-3), AZ08792 MW-6 (400-168447-4), AZ08793 MW-6 DUP (400-168447-5), AZ08794 MW-21 (400-168447-6) and AZ08817 MW-10 DUP (400-168447-29). 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 424955. The barium carrier recovery is outside the upper control limit (110%) for the following sample: AZ08797 MW-4 (400-168447-9). The sample(s) were heated at full heat for an extra 30 minutes to eliminate extra water molecules that could cause a high bias in carrier recovery with no significant change.



# Method Summary

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

Job ID: 400-168447-1  
SDG: Gaston Ash Pond 1214

| 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 Gaston

Job ID: 400-168447-1  
SDG: Gaston Ash Pond 1214

| Lab Sample ID | Client Sample ID  | Matrix | Collected      | Received       | Asset ID |
|---------------|-------------------|--------|----------------|----------------|----------|
| 400-168447-1  | AZ08789 MW-19     | Water  | 04/01/19 14:06 | 04/08/19 14:50 |          |
| 400-168447-2  | AZ08790 MW-2      | Water  | 04/01/19 15:53 | 04/08/19 14:50 |          |
| 400-168447-3  | AZ08791 MW-7      | Water  | 04/02/19 09:53 | 04/08/19 14:50 |          |
| 400-168447-4  | AZ08792 MW-6      | Water  | 04/02/19 11:01 | 04/08/19 14:50 |          |
| 400-168447-5  | AZ08793 MW-6 DUP  | Water  | 04/02/19 11:01 | 04/08/19 14:50 |          |
| 400-168447-6  | AZ08794 MW-21     | Water  | 04/02/19 12:06 | 04/08/19 14:50 |          |
| 400-168447-7  | AZ08795 MW-22     | Water  | 04/02/19 12:57 | 04/08/19 14:50 |          |
| 400-168447-8  | AZ08796 MW-5      | Water  | 04/02/19 13:45 | 04/08/19 14:50 |          |
| 400-168447-9  | AZ08797 MW-4      | Water  | 04/02/19 14:56 | 04/08/19 14:50 |          |
| 400-168447-10 | AZ08798 MW-3      | Water  | 04/02/19 16:07 | 04/08/19 14:50 |          |
| 400-168447-11 | AZ08799 FB-2      | Water  | 04/02/19 16:50 | 04/08/19 14:50 |          |
| 400-168447-12 | AZ08800 MW-20     | Water  | 04/03/19 10:14 | 04/08/19 14:50 |          |
| 400-168447-13 | AZ08801 MW-18     | Water  | 04/03/19 11:10 | 04/08/19 14:50 |          |
| 400-168447-14 | AZ08802 MW-17     | Water  | 04/03/19 12:07 | 04/08/19 14:50 |          |
| 400-168447-15 | AZ08803 MW-16     | Water  | 04/03/19 13:40 | 04/08/19 14:50 |          |
| 400-168447-16 | AZ08804 MW-16 DUP | Water  | 04/03/19 13:40 | 04/08/19 14:50 |          |
| 400-168447-17 | AZ08805 MW-15R    | Water  | 04/03/19 14:47 | 04/08/19 14:50 |          |
| 400-168447-18 | AZ08806 FB-3      | Water  | 04/03/19 15:50 | 04/08/19 14:50 |          |
| 400-168447-19 | AZ08807 MW-9      | Water  | 04/01/19 11:23 | 04/08/19 14:50 |          |
| 400-168447-20 | AZ08808 MW-8      | Water  | 04/01/19 13:10 | 04/08/19 14:50 |          |
| 400-168447-21 | AZ08809 MW-1      | Water  | 04/01/19 15:05 | 04/08/19 14:50 |          |
| 400-168447-22 | AZ08810 FB-1      | Water  | 04/01/19 15:40 | 04/08/19 14:50 |          |
| 400-168447-23 | AZ08811 MW-14     | Water  | 04/03/19 09:55 | 04/08/19 14:50 |          |
| 400-168447-24 | AZ08812 MW-13     | Water  | 04/03/19 11:23 | 04/08/19 14:50 |          |
| 400-168447-25 | AZ08813 MW-12     | Water  | 04/03/19 13:55 | 04/08/19 14:50 |          |
| 400-168447-26 | AZ08814 EB-1      | Water  | 04/03/19 13:00 | 04/08/19 14:50 |          |
| 400-168447-27 | AZ08815 MW-11     | Water  | 04/03/19 15:12 | 04/08/19 14:50 |          |
| 400-168447-28 | AZ08816 MW-10     | Water  | 04/03/19 16:10 | 04/08/19 14:50 |          |
| 400-168447-29 | AZ08817 MW-10 DUP | Water  | 04/03/19 16:10 | 04/08/19 14:50 |          |

# Client Sample Results

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

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

**Client Sample ID: AZ08789 MW-19**

**Lab Sample ID: 400-168447-1**

Date Collected: 04/01/19 14:06

Matrix: Water

Date Received: 04/08/19 14:50

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

| Analyte           | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC    | Unit  | Prepared        | Analyzed        | Dil Fac        |
|-------------------|---------------|------------------|-----------------------------|-----------------------------|------|--------|-------|-----------------|-----------------|----------------|
| <b>Radium-226</b> | <b>0.207</b>  |                  | 0.0931                      | 0.0950                      | 1.00 | 0.0949 | pCi/L | 04/22/19 15:20  | 05/18/19 15:01  | 1              |
| <b>Carrier</b>    | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |        |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| <i>Ba Carrier</i> | 98.6          |                  | 40 - 110                    |                             |      |        |       | 04/22/19 15:20  | 05/18/19 15:01  | 1              |

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

| Analyte           | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|-------------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228        | 0.0560        | U                | 0.222                       | 0.222                       | 1.00 | 0.385 | pCi/L | 04/22/19 15:23  | 05/10/19 08:53  | 1              |
| <b>Carrier</b>    | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| <i>Ba Carrier</i> | 98.6          |                  | 40 - 110                    |                             |      |       |       | 04/22/19 15:23  | 05/10/19 08:53  | 1              |
| <i>Y Carrier</i>  | 92.7          |                  | 40 - 110                    |                             |      |       |       | 04/22/19 15:23  | 05/10/19 08:53  | 1              |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | 0.263  | U         | 0.241                       | 0.241                       | 5.00 | 0.385 | pCi/L |          | 05/30/19 08:50 | 1       |

# Client Sample Results

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

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

**Client Sample ID: AZ08790 MW-2**

**Lab Sample ID: 400-168447-2**

Date Collected: 04/01/19 15:53

Matrix: Water

Date Received: 04/08/19 14:50

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

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC    | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|--------|-------|-----------------|-----------------|----------------|
| Radium-226     | 0.0652        | U                | 0.0546                      | 0.0549                      | 1.00 | 0.0763 | pCi/L | 04/22/19 15:20  | 05/18/19 15:01  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |        |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 94.6          |                  | 40 - 110                    |                             |      |        |       | 04/22/19 15:20  | 05/18/19 15:01  | 1              |

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

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228     | 0.0964        | U                | 0.219                       | 0.219                       | 1.00 | 0.376 | pCi/L | 04/22/19 15:23  | 05/10/19 08:53  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 94.6          |                  | 40 - 110                    |                             |      |       |       | 04/22/19 15:23  | 05/10/19 08:53  | 1              |
| Y Carrier      | 90.8          |                  | 40 - 110                    |                             |      |       |       | 04/22/19 15:23  | 05/10/19 08:53  | 1              |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | 0.162  | U         | 0.226                       | 0.226                       | 5.00 | 0.376 | pCi/L |          | 05/30/19 08:50 | 1       |



# Client Sample Results

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

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

**Client Sample ID: AZ08791 MW-7**

**Lab Sample ID: 400-168447-3**

Date Collected: 04/02/19 09:53

Matrix: Water

Date Received: 04/08/19 14:50

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC    | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.140  |           | 0.0754                      | 0.0765                      | 1.00 | 0.0849 | pCi/L | 04/22/19 15:20 | 05/18/19 15:01 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |        |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 94.6   |           | 40 - 110                    |                             |      |        |       | 04/22/19 15:20 | 05/18/19 15:01 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.186  | U         | 0.220                       | 0.221                       | 1.00 | 0.363 | pCi/L | 04/22/19 15:23 | 05/10/19 08:53 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 94.6   |           | 40 - 110                    |                             |      |       |       | 04/22/19 15:23 | 05/10/19 08:53 | 1       |
| Y Carrier  | 89.0   |           | 40 - 110                    |                             |      |       |       | 04/22/19 15:23 | 05/10/19 08:53 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | 0.326  | U         | 0.233                       | 0.234                       | 5.00 | 0.363 | pCi/L |          | 05/30/19 08:50 | 1       |

# Client Sample Results

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

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

**Client Sample ID: AZ08792 MW-6**

**Lab Sample ID: 400-168447-4**

Date Collected: 04/02/19 11:01

Matrix: Water

Date Received: 04/08/19 14:50

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

| Analyte           | Result       | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC    | Unit  | Prepared       | Analyzed       | Dil Fac |
|-------------------|--------------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| <b>Radium-226</b> | <b>0.179</b> |           | 0.0866                      | 0.0881                      | 1.00 | 0.0939 | pCi/L | 04/22/19 15:20 | 05/18/19 15:02 | 1       |
| Carrier           | %Yield       | Qualifier | Limits                      |                             |      |        |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier        | 94.1         |           | 40 - 110                    |                             |      |        |       | 04/22/19 15:20 | 05/18/19 15:02 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.190  | U         | 0.211                       | 0.212                       | 1.00 | 0.347 | pCi/L | 04/22/19 15:23 | 05/10/19 08:53 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 94.1   |           | 40 - 110                    |                             |      |       |       | 04/22/19 15:23 | 05/10/19 08:53 | 1       |
| Y Carrier  | 92.3   |           | 40 - 110                    |                             |      |       |       | 04/22/19 15:23 | 05/10/19 08:53 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                              | Result       | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| <b>Combined Radium<br/>226 + 228</b> | <b>0.369</b> |           | 0.228                       | 0.230                       | 5.00 | 0.347 | pCi/L |          | 05/30/19 08:50 | 1       |

# Client Sample Results

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

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

**Client Sample ID: AZ08793 MW-6 DUP**

**Lab Sample ID: 400-168447-5**

Date Collected: 04/02/19 11:01

Matrix: Water

Date Received: 04/08/19 14:50

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.250  |           | 0.102                       | 0.104                       | 1.00 | 0.101 | pCi/L | 04/22/19 15:20 | 05/18/19 15:03 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 100    |           | 40 - 110                    |                             |      |       |       | 04/22/19 15:20 | 05/18/19 15:03 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.0622 | U         | 0.189                       | 0.189                       | 1.00 | 0.330 | pCi/L | 04/22/19 15:23 | 05/10/19 08:54 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 100    |           | 40 - 110                    |                             |      |       |       | 04/22/19 15:23 | 05/10/19 08:54 | 1       |
| Y Carrier  | 85.2   |           | 40 - 110                    |                             |      |       |       | 04/22/19 15:23 | 05/10/19 08:54 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | 0.312  | U         | 0.215                       | 0.216                       | 5.00 | 0.330 | pCi/L |          | 05/30/19 08:50 | 1       |

# Client Sample Results

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

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

**Client Sample ID: AZ08794 MW-21**

**Lab Sample ID: 400-168447-6**

Date Collected: 04/02/19 12:06

Matrix: Water

Date Received: 04/08/19 14:50

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.161  |           | 0.0958                      | 0.0968                      | 1.00 | 0.127 | pCi/L | 04/22/19 15:20 | 05/18/19 15:03 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 96.0   |           | 40 - 110                    |                             |      |       |       | 04/22/19 15:20 | 05/18/19 15:03 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.0208 | U         | 0.220                       | 0.220                       | 1.00 | 0.389 | pCi/L | 04/22/19 15:23 | 05/10/19 08:54 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 96.0   |           | 40 - 110                    |                             |      |       |       | 04/22/19 15:23 | 05/10/19 08:54 | 1       |
| Y Carrier  | 84.9   |           | 40 - 110                    |                             |      |       |       | 04/22/19 15:23 | 05/10/19 08:54 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | 0.182  | U         | 0.240                       | 0.240                       | 5.00 | 0.389 | pCi/L |          | 05/30/19 08:50 | 1       |

# Client Sample Results

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

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

**Client Sample ID: AZ08795 MW-22**

**Lab Sample ID: 400-168447-7**

Date Collected: 04/02/19 12:57

Matrix: Water

Date Received: 04/08/19 14:50

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

| Analyte           | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC    | Unit  | Prepared        | Analyzed        | Dil Fac        |
|-------------------|---------------|------------------|-----------------------------|-----------------------------|------|--------|-------|-----------------|-----------------|----------------|
| <b>Radium-226</b> | <b>0.156</b>  |                  | 0.0790                      | 0.0802                      | 1.00 | 0.0897 | pCi/L | 04/22/19 12:54  | 05/18/19 19:06  | 1              |
| <b>Carrier</b>    | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |        |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier        | 110           |                  | 40 - 110                    |                             |      |        |       | 04/22/19 12:54  | 05/18/19 19:06  | 1              |

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

| Analyte           | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|-------------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| <b>Radium-228</b> | <b>0.347</b>  |                  | 0.226                       | 0.228                       | 1.00 | 0.347 | pCi/L | 04/22/19 14:21  | 05/08/19 16:00  | 1              |
| <b>Carrier</b>    | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier        | 110           |                  | 40 - 110                    |                             |      |       |       | 04/22/19 14:21  | 05/08/19 16:00  | 1              |
| Y Carrier         | 88.6          |                  | 40 - 110                    |                             |      |       |       | 04/22/19 14:21  | 05/08/19 16:00  | 1              |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                              | Result       | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| <b>Combined Radium<br/>226 + 228</b> | <b>0.503</b> |           | 0.239                       | 0.242                       | 5.00 | 0.347 | pCi/L |          | 05/30/19 08:50 | 1       |

# Client Sample Results

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

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

**Client Sample ID: AZ08796 MW-5**

**Lab Sample ID: 400-168447-8**

Date Collected: 04/02/19 13:45

Matrix: Water

Date Received: 04/08/19 14:50

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

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-226     | 0.0764        | U                | 0.0719                      | 0.0722                      | 1.00 | 0.111 | pCi/L | 04/22/19 12:54  | 05/18/19 19:06  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 108           |                  | 40 - 110                    |                             |      |       |       | 04/22/19 12:54  | 05/18/19 19:06  | 1              |

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

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228     | 0.168         | U                | 0.204                       | 0.205                       | 1.00 | 0.338 | pCi/L | 04/22/19 14:21  | 05/08/19 16:00  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 108           |                  | 40 - 110                    |                             |      |       |       | 04/22/19 14:21  | 05/08/19 16:00  | 1              |
| Y Carrier      | 90.5          |                  | 40 - 110                    |                             |      |       |       | 04/22/19 14:21  | 05/08/19 16:00  | 1              |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | 0.245  | U         | 0.216                       | 0.217                       | 5.00 | 0.338 | pCi/L |          | 05/30/19 08:50 | 1       |

# Client Sample Results

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

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

**Client Sample ID: AZ08797 MW-4**

**Lab Sample ID: 400-168447-9**

Date Collected: 04/02/19 14:56

Matrix: Water

Date Received: 04/08/19 14:50

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

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC    | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|--------|-------|-----------------|-----------------|----------------|
| Radium-226     | 0.0705        | U                | 0.0576                      | 0.0579                      | 1.00 | 0.0829 | pCi/L | 04/22/19 12:54  | 05/18/19 19:07  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |        |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 114           | X                | 40 - 110                    |                             |      |        |       | 04/22/19 12:54  | 05/18/19 19:07  | 1              |

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

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228     | 0.356         |                  | 0.193                       | 0.196                       | 1.00 | 0.283 | pCi/L | 04/22/19 14:21  | 05/08/19 16:01  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 114           | X                | 40 - 110                    |                             |      |       |       | 04/22/19 14:21  | 05/08/19 16:01  | 1              |
| Y Carrier      | 91.2          |                  | 40 - 110                    |                             |      |       |       | 04/22/19 14:21  | 05/08/19 16:01  | 1              |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium<br>226 + 228 | 0.427  |           | 0.201                       | 0.204                       | 5.00 | 0.283 | pCi/L |          | 05/30/19 08:50 | 1       |

# Client Sample Results

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

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

**Client Sample ID: AZ08798 MW-3**

**Lab Sample ID: 400-168447-10**

Date Collected: 04/02/19 16:07

Matrix: Water

Date Received: 04/08/19 14:50

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

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-226     | 0.0114        | U                | 0.0595                      | 0.0595                      | 1.00 | 0.114 | pCi/L | 04/22/19 12:54  | 05/18/19 19:07  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 108           |                  | 40 - 110                    |                             |      |       |       | 04/22/19 12:54  | 05/18/19 19:07  | 1              |

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

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228     | -0.0745       | U                | 0.167                       | 0.167                       | 1.00 | 0.316 | pCi/L | 04/22/19 14:21  | 05/08/19 16:01  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 108           |                  | 40 - 110                    |                             |      |       |       | 04/22/19 14:21  | 05/08/19 16:01  | 1              |
| Y Carrier      | 92.3          |                  | 40 - 110                    |                             |      |       |       | 04/22/19 14:21  | 05/08/19 16:01  | 1              |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result  | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | -0.0631 | U         | 0.177                       | 0.177                       | 5.00 | 0.316 | pCi/L |          | 05/30/19 08:50 | 1       |



# Client Sample Results

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

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

**Client Sample ID: AZ08799 FB-2**

**Lab Sample ID: 400-168447-11**

Date Collected: 04/02/19 16:50

Matrix: Water

Date Received: 04/08/19 14:50

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0553 | U         | 0.0663                      | 0.0664                      | 1.00 | 0.108 | pCi/L | 04/25/19 13:29 | 05/20/19 08:12 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 103    |           | 40 - 110                    |                             |      |       |       | 04/25/19 13:29 | 05/20/19 08:12 | 1       |

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

| Analyte    | Result  | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | -0.0446 | U         | 0.169                       | 0.169                       | 1.00 | 0.312 | pCi/L | 04/25/19 14:26 | 05/13/19 09:24 | 1       |
| Carrier    | %Yield  | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 103     |           | 40 - 110                    |                             |      |       |       | 04/25/19 14:26 | 05/13/19 09:24 | 1       |
| Y Carrier  | 93.8    |           | 40 - 110                    |                             |      |       |       | 04/25/19 14:26 | 05/13/19 09:24 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | 0.0108 | U         | 0.182                       | 0.182                       | 5.00 | 0.312 | pCi/L |          | 05/30/19 08:50 | 1       |

# Client Sample Results

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

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

**Client Sample ID: AZ08800 MW-20**

**Lab Sample ID: 400-168447-12**

Date Collected: 04/03/19 10:14

Matrix: Water

Date Received: 04/08/19 14:50

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

| Analyte           | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|-------------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| <b>Radium-226</b> | <b>12.7</b>   |                  | 0.658                       | 1.32                        | 1.00 | 0.111 | pCi/L | 04/25/19 13:29  | 05/20/19 08:12  | 1              |
| <b>Carrier</b>    | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier        | 85.6          |                  | 40 - 110                    |                             |      |       |       | 04/25/19 13:29  | 05/20/19 08:12  | 1              |

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

| Analyte           | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|-------------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| <b>Radium-228</b> | <b>1.09</b>   |                  | 0.295                       | 0.312                       | 1.00 | 0.365 | pCi/L | 04/25/19 14:26  | 05/13/19 09:25  | 1              |
| <b>Carrier</b>    | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier        | 85.6          |                  | 40 - 110                    |                             |      |       |       | 04/25/19 14:26  | 05/13/19 09:25  | 1              |
| Y Carrier         | 93.5          |                  | 40 - 110                    |                             |      |       |       | 04/25/19 14:26  | 05/13/19 09:25  | 1              |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                              | Result      | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|-------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| <b>Combined Radium<br/>226 + 228</b> | <b>13.8</b> |           | 0.721                       | 1.36                        | 5.00 | 0.365 | pCi/L |          | 05/30/19 08:50 | 1       |

# Client Sample Results

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

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

**Client Sample ID: AZ08801 MW-18**

**Lab Sample ID: 400-168447-13**

Date Collected: 04/03/19 11:10

Matrix: Water

Date Received: 04/08/19 14:50

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

| Analyte           | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC    | Unit  | Prepared        | Analyzed        | Dil Fac        |
|-------------------|---------------|------------------|-----------------------------|-----------------------------|------|--------|-------|-----------------|-----------------|----------------|
| <b>Radium-226</b> | <b>0.712</b>  |                  | 0.161                       | 0.173                       | 1.00 | 0.0904 | pCi/L | 04/25/19 13:29  | 05/20/19 08:10  | 1              |
| <b>Carrier</b>    | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |        |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier        | 87.6          |                  | 40 - 110                    |                             |      |        |       | 04/25/19 13:29  | 05/20/19 08:10  | 1              |

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

| Analyte           | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|-------------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| <b>Radium-228</b> | <b>0.776</b>  |                  | 0.257                       | 0.266                       | 1.00 | 0.336 | pCi/L | 04/25/19 14:26  | 05/13/19 09:25  | 1              |
| <b>Carrier</b>    | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier        | 87.6          |                  | 40 - 110                    |                             |      |       |       | 04/25/19 14:26  | 05/13/19 09:25  | 1              |
| Y Carrier         | 95.3          |                  | 40 - 110                    |                             |      |       |       | 04/25/19 14:26  | 05/13/19 09:25  | 1              |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                              | Result      | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|-------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| <b>Combined Radium<br/>226 + 228</b> | <b>1.49</b> |           | 0.303                       | 0.317                       | 5.00 | 0.336 | pCi/L |          | 05/30/19 08:50 | 1       |

# Client Sample Results

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

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

**Client Sample ID: AZ08802 MW-17**

**Lab Sample ID: 400-168447-14**

Date Collected: 04/03/19 12:07

Matrix: Water

Date Received: 04/08/19 14:50

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

| Analyte           | Result       | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC    | Unit  | Prepared       | Analyzed       | Dil Fac |
|-------------------|--------------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| <b>Radium-226</b> | <b>0.286</b> |           | 0.101                       | 0.104                       | 1.00 | 0.0955 | pCi/L | 04/25/19 13:29 | 05/20/19 08:11 | 1       |
| Carrier           | %Yield       | Qualifier | Limits                      |                             |      |        |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier        | 96.3         |           | 40 - 110                    |                             |      |        |       | 04/25/19 13:29 | 05/20/19 08:11 | 1       |

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

| Analyte           | Result       | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|-------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| <b>Radium-228</b> | <b>0.621</b> |           | 0.227                       | 0.234                       | 1.00 | 0.306 | pCi/L | 04/25/19 14:26 | 05/13/19 09:25 | 1       |
| Carrier           | %Yield       | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier        | 96.3         |           | 40 - 110                    |                             |      |       |       | 04/25/19 14:26 | 05/13/19 09:25 | 1       |
| Y Carrier         | 95.3         |           | 40 - 110                    |                             |      |       |       | 04/25/19 14:26 | 05/13/19 09:25 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                              | Result       | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| <b>Combined Radium<br/>226 + 228</b> | <b>0.907</b> |           | 0.248                       | 0.256                       | 5.00 | 0.306 | pCi/L |          | 05/30/19 08:50 | 1       |

# Client Sample Results

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

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

**Client Sample ID: AZ08803 MW-16**

**Lab Sample ID: 400-168447-15**

Date Collected: 04/03/19 13:40

Matrix: Water

Date Received: 04/08/19 14:50

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

| Analyte           | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC    | Unit  | Prepared        | Analyzed        | Dil Fac        |
|-------------------|---------------|------------------|-----------------------------|-----------------------------|------|--------|-------|-----------------|-----------------|----------------|
| <b>Radium-226</b> | <b>2.42</b>   |                  | 0.279                       | 0.353                       | 1.00 | 0.0969 | pCi/L | 04/25/19 13:29  | 05/20/19 08:11  | 1              |
| <b>Carrier</b>    | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |        |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier        | 91.5          |                  | 40 - 110                    |                             |      |        |       | 04/25/19 13:29  | 05/20/19 08:11  | 1              |

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

| Analyte           | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|-------------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| <b>Radium-228</b> | <b>1.01</b>   |                  | 0.291                       | 0.305                       | 1.00 | 0.360 | pCi/L | 04/25/19 14:26  | 05/13/19 09:25  | 1              |
| <b>Carrier</b>    | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier        | 91.5          |                  | 40 - 110                    |                             |      |       |       | 04/25/19 14:26  | 05/13/19 09:25  | 1              |
| Y Carrier         | 83.4          |                  | 40 - 110                    |                             |      |       |       | 04/25/19 14:26  | 05/13/19 09:25  | 1              |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                              | Result      | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|-------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| <b>Combined Radium<br/>226 + 228</b> | <b>3.43</b> |           | 0.403                       | 0.467                       | 5.00 | 0.360 | pCi/L |          | 05/30/19 08:50 | 1       |

# Client Sample Results

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

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

**Client Sample ID: AZ08804 MW-16 DUP**

**Lab Sample ID: 400-168447-16**

Date Collected: 04/03/19 13:40

Matrix: Water

Date Received: 04/08/19 14:50

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

| Analyte           | Result      | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC    | Unit  | Prepared       | Analyzed       | Dil Fac |
|-------------------|-------------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| <b>Radium-226</b> | <b>2.28</b> |           | 0.264                       | 0.334                       | 1.00 | 0.0744 | pCi/L | 04/25/19 13:29 | 05/20/19 08:11 | 1       |
| Carrier           | %Yield      | Qualifier | Limits                      |                             |      |        |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier        | 98.9        |           | 40 - 110                    |                             |      |        |       | 04/25/19 13:29 | 05/20/19 08:11 | 1       |

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

| Analyte           | Result       | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|-------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| <b>Radium-228</b> | <b>0.925</b> |           | 0.259                       | 0.272                       | 1.00 | 0.328 | pCi/L | 04/25/19 14:26 | 05/13/19 09:26 | 1       |
| Carrier           | %Yield       | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier        | 98.9         |           | 40 - 110                    |                             |      |       |       | 04/25/19 14:26 | 05/13/19 09:26 | 1       |
| Y Carrier         | 96.1         |           | 40 - 110                    |                             |      |       |       | 04/25/19 14:26 | 05/13/19 09:26 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                              | Result      | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|-------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| <b>Combined Radium<br/>226 + 228</b> | <b>3.20</b> |           | 0.370                       | 0.431                       | 5.00 | 0.328 | pCi/L |          | 05/30/19 08:50 | 1       |

# Client Sample Results

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

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

**Client Sample ID: AZ08805 MW-15R**

**Lab Sample ID: 400-168447-17**

Date Collected: 04/03/19 14:47

Matrix: Water

Date Received: 04/08/19 14:50

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

| Analyte           | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC    | Unit  | Prepared        | Analyzed        | Dil Fac        |
|-------------------|---------------|------------------|-----------------------------|-----------------------------|------|--------|-------|-----------------|-----------------|----------------|
| <b>Radium-226</b> | <b>0.382</b>  |                  | 0.118                       | 0.123                       | 1.00 | 0.0934 | pCi/L | 04/25/19 13:29  | 05/20/19 08:11  | 1              |
| <b>Carrier</b>    | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |        |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier        | 89.8          |                  | 40 - 110                    |                             |      |        |       | 04/25/19 13:29  | 05/20/19 08:11  | 1              |

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

| Analyte           | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|-------------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| <b>Radium-228</b> | <b>0.781</b>  |                  | 0.266                       | 0.275                       | 1.00 | 0.354 | pCi/L | 04/25/19 14:26  | 05/13/19 09:26  | 1              |
| <b>Carrier</b>    | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier        | 89.8          |                  | 40 - 110                    |                             |      |       |       | 04/25/19 14:26  | 05/13/19 09:26  | 1              |
| Y Carrier         | 92.0          |                  | 40 - 110                    |                             |      |       |       | 04/25/19 14:26  | 05/13/19 09:26  | 1              |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                              | Result      | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|-------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| <b>Combined Radium<br/>226 + 228</b> | <b>1.16</b> |           | 0.291                       | 0.301                       | 5.00 | 0.354 | pCi/L |          | 05/30/19 08:50 | 1       |

# Client Sample Results

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

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

**Client Sample ID: AZ08806 FB-3**

**Lab Sample ID: 400-168447-18**

Date Collected: 04/03/19 15:50

Matrix: Water

Date Received: 04/08/19 14:50

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC    | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.0275 | U         | 0.0516                      | 0.0516                      | 1.00 | 0.0937 | pCi/L | 04/25/19 13:29 | 05/20/19 08:11 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |        |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 87.3   |           | 40 - 110                    |                             |      |        |       | 04/25/19 13:29 | 05/20/19 08:11 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.462  |           | 0.235                       | 0.239                       | 1.00 | 0.344 | pCi/L | 04/25/19 14:26 | 05/13/19 09:26 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 87.3   |           | 40 - 110                    |                             |      |       |       | 04/25/19 14:26 | 05/13/19 09:26 | 1       |
| Y Carrier  | 93.5   |           | 40 - 110                    |                             |      |       |       | 04/25/19 14:26 | 05/13/19 09:26 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium<br>226 + 228 | 0.489  |           | 0.241                       | 0.245                       | 5.00 | 0.344 | pCi/L |          | 05/30/19 08:50 | 1       |



# Client Sample Results

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

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

**Client Sample ID: AZ08807 MW-9**

**Lab Sample ID: 400-168447-19**

Date Collected: 04/01/19 11:23

Matrix: Water

Date Received: 04/08/19 14:50

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0995 | U         | 0.0732                      | 0.0738                      | 1.00 | 0.101 | pCi/L | 04/25/19 13:29 | 05/20/19 10:16 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 94.4   |           | 40 - 110                    |                             |      |       |       | 04/25/19 13:29 | 05/20/19 10:16 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.234  | U         | 0.188                       | 0.189                       | 1.00 | 0.295 | pCi/L | 04/25/19 14:26 | 05/13/19 09:26 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 94.4   |           | 40 - 110                    |                             |      |       |       | 04/25/19 14:26 | 05/13/19 09:26 | 1       |
| Y Carrier  | 88.2   |           | 40 - 110                    |                             |      |       |       | 04/25/19 14:26 | 05/13/19 09:26 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                              | Result       | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| <b>Combined Radium<br/>226 + 228</b> | <b>0.334</b> |           | 0.202                       | 0.203                       | 5.00 | 0.295 | pCi/L |          | 05/30/19 08:50 | 1       |

# Client Sample Results

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

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

**Client Sample ID: AZ08808 MW-8**

**Lab Sample ID: 400-168447-20**

Date Collected: 04/01/19 13:10

Matrix: Water

Date Received: 04/08/19 14:50

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0360 | U         | 0.0663                      | 0.0664                      | 1.00 | 0.118 | pCi/L | 04/25/19 13:29 | 05/20/19 10:16 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 91.5   |           | 40 - 110                    |                             |      |       |       | 04/25/19 13:29 | 05/20/19 10:16 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | -0.108 | U         | 0.177                       | 0.178                       | 1.00 | 0.338 | pCi/L | 04/25/19 14:26 | 05/13/19 09:26 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 91.5   |           | 40 - 110                    |                             |      |       |       | 04/25/19 14:26 | 05/13/19 09:26 | 1       |
| Y Carrier  | 97.9   |           | 40 - 110                    |                             |      |       |       | 04/25/19 14:26 | 05/13/19 09:26 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result  | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | -0.0724 | U         | 0.189                       | 0.190                       | 5.00 | 0.338 | pCi/L |          | 05/30/19 08:50 | 1       |

# Client Sample Results

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

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

**Client Sample ID: AZ08809 MW-1**

**Lab Sample ID: 400-168447-21**

Date Collected: 04/01/19 15:05

Matrix: Water

Date Received: 04/08/19 14:50

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

| Analyte           | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|-------------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| <b>Radium-226</b> | <b>0.421</b>  |                  | 0.124                       | 0.130                       | 1.00 | 0.102 | pCi/L | 04/25/19 13:29  | 05/20/19 10:17  | 1              |
| <b>Carrier</b>    | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier        | 94.6          |                  | 40 - 110                    |                             |      |       |       | 04/25/19 13:29  | 05/20/19 10:17  | 1              |

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

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228     | 0.143         | U                | 0.185                       | 0.185                       | 1.00 | 0.307 | pCi/L | 04/25/19 14:26  | 05/13/19 09:26  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 94.6          |                  | 40 - 110                    |                             |      |       |       | 04/25/19 14:26  | 05/13/19 09:26  | 1              |
| Y Carrier      | 96.1          |                  | 40 - 110                    |                             |      |       |       | 04/25/19 14:26  | 05/13/19 09:26  | 1              |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                              | Result       | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| <b>Combined Radium<br/>226 + 228</b> | <b>0.564</b> |           | 0.223                       | 0.226                       | 5.00 | 0.307 | pCi/L |          | 05/30/19 08:50 | 1       |

# Client Sample Results

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

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

**Client Sample ID: AZ08810 FB-1**

**Lab Sample ID: 400-168447-22**

Date Collected: 04/01/19 15:40

Matrix: Water

Date Received: 04/08/19 14:50

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC    | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.0862 | U         | 0.0663                      | 0.0668                      | 1.00 | 0.0911 | pCi/L | 04/25/19 13:29 | 05/20/19 10:17 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |        |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 92.4   |           | 40 - 110                    |                             |      |        |       | 04/25/19 13:29 | 05/20/19 10:17 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.0738 | U         | 0.187                       | 0.188                       | 1.00 | 0.324 | pCi/L | 04/25/19 14:26 | 05/13/19 09:26 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 92.4   |           | 40 - 110                    |                             |      |       |       | 04/25/19 14:26 | 05/13/19 09:26 | 1       |
| Y Carrier  | 98.3   |           | 40 - 110                    |                             |      |       |       | 04/25/19 14:26 | 05/13/19 09:26 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | 0.160  | U         | 0.198                       | 0.200                       | 5.00 | 0.324 | pCi/L |          | 05/30/19 08:50 | 1       |

# Client Sample Results

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

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

**Client Sample ID: AZ08811 MW-14**

**Lab Sample ID: 400-168447-23**

Date Collected: 04/03/19 09:55

Matrix: Water

Date Received: 04/08/19 14:50

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC    | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.252  |           | 0.0965                      | 0.0991                      | 1.00 | 0.0962 | pCi/L | 04/25/19 13:29 | 05/20/19 10:17 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |        |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 94.9   |           | 40 - 110                    |                             |      |        |       | 04/25/19 13:29 | 05/20/19 10:17 | 1       |

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

| Analyte    | Result  | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | -0.0632 | U         | 0.241                       | 0.241                       | 1.00 | 0.435 | pCi/L | 04/25/19 14:26 | 05/13/19 09:36 | 1       |
| Carrier    | %Yield  | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 94.9    |           | 40 - 110                    |                             |      |       |       | 04/25/19 14:26 | 05/13/19 09:36 | 1       |
| Y Carrier  | 90.5    |           | 40 - 110                    |                             |      |       |       | 04/25/19 14:26 | 05/13/19 09:36 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                   | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.189  | U         | 0.260                       | 0.261                       | 5.00 | 0.435 | pCi/L |          | 05/30/19 08:50 | 1       |

# Client Sample Results

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

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

**Client Sample ID: AZ08812 MW-13**

**Lab Sample ID: 400-168447-24**

Date Collected: 04/03/19 11:23

Matrix: Water

Date Received: 04/08/19 14:50

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

| Analyte           | Result       | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC    | Unit  | Prepared       | Analyzed       | Dil Fac |
|-------------------|--------------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| <b>Radium-226</b> | <b>0.317</b> |           | 0.106                       | 0.110                       | 1.00 | 0.0921 | pCi/L | 04/25/19 13:29 | 05/20/19 10:17 | 1       |
| Carrier           | %Yield       | Qualifier | Limits                      |                             |      |        |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier        | 97.2         |           | 40 - 110                    |                             |      |        |       | 04/25/19 13:29 | 05/20/19 10:17 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.261  | U         | 0.242                       | 0.243                       | 1.00 | 0.391 | pCi/L | 04/25/19 14:26 | 05/13/19 09:36 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 97.2   |           | 40 - 110                    |                             |      |       |       | 04/25/19 14:26 | 05/13/19 09:36 | 1       |
| Y Carrier  | 88.2   |           | 40 - 110                    |                             |      |       |       | 04/25/19 14:26 | 05/13/19 09:36 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                              | Result       | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| <b>Combined Radium<br/>226 + 228</b> | <b>0.577</b> |           | 0.264                       | 0.267                       | 5.00 | 0.391 | pCi/L |          | 05/30/19 08:50 | 1       |

# Client Sample Results

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

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

**Client Sample ID: AZ08813 MW-12**

**Lab Sample ID: 400-168447-25**

Date Collected: 04/03/19 13:55

Matrix: Water

Date Received: 04/08/19 14:50

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC    | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.294  |           | 0.0993                      | 0.103                       | 1.00 | 0.0746 | pCi/L | 04/25/19 13:29 | 05/20/19 10:17 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |        |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 98.0   |           | 40 - 110                    |                             |      |        |       | 04/25/19 13:29 | 05/20/19 10:17 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.375  | U         | 0.247                       | 0.249                       | 1.00 | 0.385 | pCi/L | 04/25/19 14:26 | 05/13/19 09:36 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 98.0   |           | 40 - 110                    |                             |      |       |       | 04/25/19 14:26 | 05/13/19 09:36 | 1       |
| Y Carrier  | 97.9   |           | 40 - 110                    |                             |      |       |       | 04/25/19 14:26 | 05/13/19 09:36 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium<br>226 + 228 | 0.669  |           | 0.266                       | 0.269                       | 5.00 | 0.385 | pCi/L |          | 05/30/19 08:50 | 1       |

# Client Sample Results

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

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

**Client Sample ID: AZ08814 EB-1**

**Lab Sample ID: 400-168447-26**

Date Collected: 04/03/19 13:00

Matrix: Water

Date Received: 04/08/19 14:50

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC    | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.0346 | U         | 0.0502                      | 0.0503                      | 1.00 | 0.0858 | pCi/L | 04/25/19 13:29 | 05/20/19 10:17 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |        |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 99.4   |           | 40 - 110                    |                             |      |        |       | 04/25/19 13:29 | 05/20/19 10:17 | 1       |

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

| Analyte    | Result  | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | -0.0426 | U         | 0.239                       | 0.239                       | 1.00 | 0.426 | pCi/L | 04/25/19 14:26 | 05/13/19 09:36 | 1       |
| Carrier    | %Yield  | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 99.4    |           | 40 - 110                    |                             |      |       |       | 04/25/19 14:26 | 05/13/19 09:36 | 1       |
| Y Carrier  | 94.2    |           | 40 - 110                    |                             |      |       |       | 04/25/19 14:26 | 05/13/19 09:36 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result   | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|----------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | -0.00797 | U         | 0.244                       | 0.244                       | 5.00 | 0.426 | pCi/L |          | 05/30/19 08:50 | 1       |



# Client Sample Results

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

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

**Client Sample ID: AZ08815 MW-11**

**Lab Sample ID: 400-168447-27**

Date Collected: 04/03/19 15:12

Matrix: Water

Date Received: 04/08/19 14:50

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC    | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.105  |           | 0.0702                      | 0.0708                      | 1.00 | 0.0891 | pCi/L | 04/25/19 13:29 | 05/20/19 10:17 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |        |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 92.4   |           | 40 - 110                    |                             |      |        |       | 04/25/19 13:29 | 05/20/19 10:17 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.0950 | U         | 0.226                       | 0.226                       | 1.00 | 0.388 | pCi/L | 04/25/19 14:26 | 05/13/19 09:36 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 92.4   |           | 40 - 110                    |                             |      |       |       | 04/25/19 14:26 | 05/13/19 09:36 | 1       |
| Y Carrier  | 96.4   |           | 40 - 110                    |                             |      |       |       | 04/25/19 14:26 | 05/13/19 09:36 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | 0.200  | U         | 0.237                       | 0.237                       | 5.00 | 0.388 | pCi/L |          | 05/30/19 08:50 | 1       |

# Client Sample Results

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

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

**Client Sample ID: AZ08816 MW-10**

**Lab Sample ID: 400-168447-28**

Date Collected: 04/03/19 16:10

Matrix: Water

Date Received: 04/08/19 14:50

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC    | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.0581 | U         | 0.0604                      | 0.0606                      | 1.00 | 0.0944 | pCi/L | 04/25/19 13:29 | 05/20/19 10:18 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |        |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 94.4   |           | 40 - 110                    |                             |      |        |       | 04/25/19 13:29 | 05/20/19 10:18 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.201  | U         | 0.220                       | 0.221                       | 1.00 | 0.361 | pCi/L | 04/25/19 14:26 | 05/13/19 09:36 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 94.4   |           | 40 - 110                    |                             |      |       |       | 04/25/19 14:26 | 05/13/19 09:36 | 1       |
| Y Carrier  | 92.0   |           | 40 - 110                    |                             |      |       |       | 04/25/19 14:26 | 05/13/19 09:36 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | 0.260  | U         | 0.228                       | 0.229                       | 5.00 | 0.361 | pCi/L |          | 05/30/19 08:50 | 1       |

# Client Sample Results

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

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

**Client Sample ID: AZ08817 MW-10 DUP**

**Lab Sample ID: 400-168447-29**

Date Collected: 04/03/19 16:10

Matrix: Water

Date Received: 04/08/19 14:50

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC    | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.0586 | U         | 0.0586                      | 0.0588                      | 1.00 | 0.0903 | pCi/L | 04/22/19 15:20 | 05/18/19 15:00 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |        |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 98.0   |           | 40 - 110                    |                             |      |        |       | 04/22/19 15:20 | 05/18/19 15:00 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.0865 | U         | 0.199                       | 0.199                       | 1.00 | 0.343 | pCi/L | 04/22/19 15:23 | 05/10/19 08:53 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 98.0   |           | 40 - 110                    |                             |      |       |       | 04/22/19 15:23 | 05/10/19 08:53 | 1       |
| Y Carrier  | 88.2   |           | 40 - 110                    |                             |      |       |       | 04/22/19 15:23 | 05/10/19 08:53 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | 0.145  | U         | 0.207                       | 0.208                       | 5.00 | 0.343 | pCi/L |          | 05/30/19 08:50 | 1       |

# Definitions/Glossary

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

Job ID: 400-168447-1  
SDG: Gaston Ash Pond 1214

## Qualifiers

### Rad

| Qualifier | Qualifier Description                           |
|-----------|-------------------------------------------------|
| U         | Result is less than the sample detection limit. |
| X         | Carrier is outside acceptance limits.           |

## 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 Gaston

Job ID: 400-168447-1  
SDG: Gaston Ash Pond 1214

**Client Sample ID: AZ08789 MW-19**

**Lab Sample ID: 400-168447-1**

**Date Collected: 04/01/19 14:06**

**Matrix: Water**

**Date Received: 04/08/19 14:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 424966       | 04/22/19 15:20       | CLP     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 429043       | 05/18/19 15:01       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 424967       | 04/22/19 15:23       | CLP     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 427892       | 05/10/19 08:53       | KLS     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 430219       | 05/30/19 08:50       | SMP     | TAL SL |

**Client Sample ID: AZ08790 MW-2**

**Lab Sample ID: 400-168447-2**

**Date Collected: 04/01/19 15:53**

**Matrix: Water**

**Date Received: 04/08/19 14:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 424966       | 04/22/19 15:20       | CLP     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 429043       | 05/18/19 15:01       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 424967       | 04/22/19 15:23       | CLP     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 427892       | 05/10/19 08:53       | KLS     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 430219       | 05/30/19 08:50       | SMP     | TAL SL |

**Client Sample ID: AZ08791 MW-7**

**Lab Sample ID: 400-168447-3**

**Date Collected: 04/02/19 09:53**

**Matrix: Water**

**Date Received: 04/08/19 14:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 424966       | 04/22/19 15:20       | CLP     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 429043       | 05/18/19 15:01       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 424967       | 04/22/19 15:23       | CLP     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 427892       | 05/10/19 08:53       | KLS     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 430219       | 05/30/19 08:50       | SMP     | TAL SL |

**Client Sample ID: AZ08792 MW-6**

**Lab Sample ID: 400-168447-4**

**Date Collected: 04/02/19 11:01**

**Matrix: Water**

**Date Received: 04/08/19 14:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 424966       | 04/22/19 15:20       | CLP     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 429045       | 05/18/19 15:02       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 424967       | 04/22/19 15:23       | CLP     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 427892       | 05/10/19 08:53       | KLS     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 430219       | 05/30/19 08:50       | SMP     | TAL SL |

# Lab Chronicle

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

Job ID: 400-168447-1  
SDG: Gaston Ash Pond 1214

## Client Sample ID: AZ08793 MW-6 DUP

**Lab Sample ID: 400-168447-5**

Date Collected: 04/02/19 11:01

Matrix: Water

Date Received: 04/08/19 14:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 424966       | 04/22/19 15:20       | CLP     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 429045       | 05/18/19 15:03       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 424967       | 04/22/19 15:23       | CLP     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 427892       | 05/10/19 08:54       | KLS     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 430219       | 05/30/19 08:50       | SMP     | TAL SL |

## Client Sample ID: AZ08794 MW-21

**Lab Sample ID: 400-168447-6**

Date Collected: 04/02/19 12:06

Matrix: Water

Date Received: 04/08/19 14:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 424966       | 04/22/19 15:20       | CLP     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 429045       | 05/18/19 15:03       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 424967       | 04/22/19 15:23       | CLP     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 427892       | 05/10/19 08:54       | KLS     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 430219       | 05/30/19 08:50       | SMP     | TAL SL |

## Client Sample ID: AZ08795 MW-22

**Lab Sample ID: 400-168447-7**

Date Collected: 04/02/19 12:57

Matrix: Water

Date Received: 04/08/19 14:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 424955       | 04/22/19 12:54       | JLC     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 429045       | 05/18/19 19:06       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 424962       | 04/22/19 14:21       | JLC     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 427688       | 05/08/19 16:00       | CDR     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 430219       | 05/30/19 08:50       | SMP     | TAL SL |

## Client Sample ID: AZ08796 MW-5

**Lab Sample ID: 400-168447-8**

Date Collected: 04/02/19 13:45

Matrix: Water

Date Received: 04/08/19 14:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 424955       | 04/22/19 12:54       | JLC     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 429045       | 05/18/19 19:06       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 424962       | 04/22/19 14:21       | JLC     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 427688       | 05/08/19 16:00       | CDR     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 430219       | 05/30/19 08:50       | SMP     | TAL SL |

# Lab Chronicle

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

Job ID: 400-168447-1  
SDG: Gaston Ash Pond 1214

**Client Sample ID: AZ08797 MW-4**

**Lab Sample ID: 400-168447-9**

**Date Collected: 04/02/19 14:56**

**Matrix: Water**

**Date Received: 04/08/19 14:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 424955       | 04/22/19 12:54       | JLC     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 429045       | 05/18/19 19:07       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 424962       | 04/22/19 14:21       | JLC     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 427688       | 05/08/19 16:01       | CDR     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 430219       | 05/30/19 08:50       | SMP     | TAL SL |

**Client Sample ID: AZ08798 MW-3**

**Lab Sample ID: 400-168447-10**

**Date Collected: 04/02/19 16:07**

**Matrix: Water**

**Date Received: 04/08/19 14:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 424955       | 04/22/19 12:54       | JLC     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 429045       | 05/18/19 19:07       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 424962       | 04/22/19 14:21       | JLC     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 427688       | 05/08/19 16:01       | CDR     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 430219       | 05/30/19 08:50       | SMP     | TAL SL |

**Client Sample ID: AZ08799 FB-2**

**Lab Sample ID: 400-168447-11**

**Date Collected: 04/02/19 16:50**

**Matrix: Water**

**Date Received: 04/08/19 14:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 425526       | 04/25/19 13:29       |         | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 429092       | 05/20/19 08:12       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 425535       | 04/25/19 14:26       |         | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 428063       | 05/13/19 09:24       | CDR     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 430219       | 05/30/19 08:50       | SMP     | TAL SL |

**Client Sample ID: AZ08800 MW-20**

**Lab Sample ID: 400-168447-12**

**Date Collected: 04/03/19 10:14**

**Matrix: Water**

**Date Received: 04/08/19 14:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 425526       | 04/25/19 13:29       |         | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 429092       | 05/20/19 08:12       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 425535       | 04/25/19 14:26       |         | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 428063       | 05/13/19 09:25       | CDR     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 430219       | 05/30/19 08:50       | SMP     | TAL SL |

# Lab Chronicle

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

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

## Client Sample ID: AZ08801 MW-18

## Lab Sample ID: 400-168447-13

Date Collected: 04/03/19 11:10

Matrix: Water

Date Received: 04/08/19 14:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 425526       | 04/25/19 13:29       |         | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 429095       | 05/20/19 08:10       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 425535       | 04/25/19 14:26       |         | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 428063       | 05/13/19 09:25       | CDR     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 430219       | 05/30/19 08:50       | SMP     | TAL SL |

## Client Sample ID: AZ08802 MW-17

## Lab Sample ID: 400-168447-14

Date Collected: 04/03/19 12:07

Matrix: Water

Date Received: 04/08/19 14:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 425526       | 04/25/19 13:29       |         | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 429093       | 05/20/19 08:11       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 425535       | 04/25/19 14:26       |         | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 428063       | 05/13/19 09:25       | CDR     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 430219       | 05/30/19 08:50       | SMP     | TAL SL |

## Client Sample ID: AZ08803 MW-16

## Lab Sample ID: 400-168447-15

Date Collected: 04/03/19 13:40

Matrix: Water

Date Received: 04/08/19 14:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 425526       | 04/25/19 13:29       |         | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 429093       | 05/20/19 08:11       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 425535       | 04/25/19 14:26       |         | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 428063       | 05/13/19 09:25       | CDR     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 430219       | 05/30/19 08:50       | SMP     | TAL SL |

## Client Sample ID: AZ08804 MW-16 DUP

## Lab Sample ID: 400-168447-16

Date Collected: 04/03/19 13:40

Matrix: Water

Date Received: 04/08/19 14:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 425526       | 04/25/19 13:29       |         | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 429093       | 05/20/19 08:11       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 425535       | 04/25/19 14:26       |         | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 428063       | 05/13/19 09:26       | CDR     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 430219       | 05/30/19 08:50       | SMP     | TAL SL |



# Lab Chronicle

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

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

## Client Sample ID: AZ08805 MW-15R

## Lab Sample ID: 400-168447-17

Date Collected: 04/03/19 14:47

Matrix: Water

Date Received: 04/08/19 14:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 425526       | 04/25/19 13:29       |         | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 429093       | 05/20/19 08:11       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 425535       | 04/25/19 14:26       |         | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 428063       | 05/13/19 09:26       | CDR     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 430219       | 05/30/19 08:50       | SMP     | TAL SL |

## Client Sample ID: AZ08806 FB-3

## Lab Sample ID: 400-168447-18

Date Collected: 04/03/19 15:50

Matrix: Water

Date Received: 04/08/19 14:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 425526       | 04/25/19 13:29       |         | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 429093       | 05/20/19 08:11       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 425535       | 04/25/19 14:26       |         | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 428063       | 05/13/19 09:26       | CDR     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 430219       | 05/30/19 08:50       | SMP     | TAL SL |

## Client Sample ID: AZ08807 MW-9

## Lab Sample ID: 400-168447-19

Date Collected: 04/01/19 11:23

Matrix: Water

Date Received: 04/08/19 14:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 425526       | 04/25/19 13:29       |         | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 429092       | 05/20/19 10:16       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 425535       | 04/25/19 14:26       |         | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 428063       | 05/13/19 09:26       | CDR     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 430219       | 05/30/19 08:50       | SMP     | TAL SL |

## Client Sample ID: AZ08808 MW-8

## Lab Sample ID: 400-168447-20

Date Collected: 04/01/19 13:10

Matrix: Water

Date Received: 04/08/19 14:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 425526       | 04/25/19 13:29       |         | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 429092       | 05/20/19 10:16       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 425535       | 04/25/19 14:26       |         | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 428063       | 05/13/19 09:26       | CDR     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 430219       | 05/30/19 08:50       | SMP     | TAL SL |

# Lab Chronicle

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

Job ID: 400-168447-1  
SDG: Gaston Ash Pond 1214

**Client Sample ID: AZ08809 MW-1**

**Lab Sample ID: 400-168447-21**

**Date Collected: 04/01/19 15:05**

**Matrix: Water**

**Date Received: 04/08/19 14:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 425526       | 04/25/19 13:29       |         | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 429092       | 05/20/19 10:17       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 425535       | 04/25/19 14:26       |         | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 428063       | 05/13/19 09:26       | CDR     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 430219       | 05/30/19 08:50       | SMP     | TAL SL |

**Client Sample ID: AZ08810 FB-1**

**Lab Sample ID: 400-168447-22**

**Date Collected: 04/01/19 15:40**

**Matrix: Water**

**Date Received: 04/08/19 14:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 425526       | 04/25/19 13:29       |         | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 429092       | 05/20/19 10:17       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 425535       | 04/25/19 14:26       |         | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 428063       | 05/13/19 09:26       | CDR     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 430219       | 05/30/19 08:50       | SMP     | TAL SL |

**Client Sample ID: AZ08811 MW-14**

**Lab Sample ID: 400-168447-23**

**Date Collected: 04/03/19 09:55**

**Matrix: Water**

**Date Received: 04/08/19 14:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 425526       | 04/25/19 13:29       |         | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 429093       | 05/20/19 10:17       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 425535       | 04/25/19 14:26       |         | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 428067       | 05/13/19 09:36       | CDR     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 430219       | 05/30/19 08:50       | SMP     | TAL SL |

**Client Sample ID: AZ08812 MW-13**

**Lab Sample ID: 400-168447-24**

**Date Collected: 04/03/19 11:23**

**Matrix: Water**

**Date Received: 04/08/19 14:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 425526       | 04/25/19 13:29       |         | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 429093       | 05/20/19 10:17       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 425535       | 04/25/19 14:26       |         | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 428067       | 05/13/19 09:36       | CDR     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 430219       | 05/30/19 08:50       | SMP     | TAL SL |

# Lab Chronicle

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

Job ID: 400-168447-1  
SDG: Gaston Ash Pond 1214

## Client Sample ID: AZ08813 MW-12

## Lab Sample ID: 400-168447-25

Date Collected: 04/03/19 13:55

Matrix: Water

Date Received: 04/08/19 14:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 425526       | 04/25/19 13:29       |         | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 429093       | 05/20/19 10:17       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 425535       | 04/25/19 14:26       |         | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 428067       | 05/13/19 09:36       | CDR     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 430219       | 05/30/19 08:50       | SMP     | TAL SL |

## Client Sample ID: AZ08814 EB-1

## Lab Sample ID: 400-168447-26

Date Collected: 04/03/19 13:00

Matrix: Water

Date Received: 04/08/19 14:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 425526       | 04/25/19 13:29       |         | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 429093       | 05/20/19 10:17       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 425535       | 04/25/19 14:26       |         | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 428067       | 05/13/19 09:36       | CDR     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 430219       | 05/30/19 08:50       | SMP     | TAL SL |

## Client Sample ID: AZ08815 MW-11

## Lab Sample ID: 400-168447-27

Date Collected: 04/03/19 15:12

Matrix: Water

Date Received: 04/08/19 14:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 425526       | 04/25/19 13:29       |         | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 429093       | 05/20/19 10:17       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 425535       | 04/25/19 14:26       |         | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 428067       | 05/13/19 09:36       | CDR     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 430219       | 05/30/19 08:50       | SMP     | TAL SL |

## Client Sample ID: AZ08816 MW-10

## Lab Sample ID: 400-168447-28

Date Collected: 04/03/19 16:10

Matrix: Water

Date Received: 04/08/19 14:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 425526       | 04/25/19 13:29       |         | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 429093       | 05/20/19 10:18       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 425535       | 04/25/19 14:26       |         | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 428067       | 05/13/19 09:36       | CDR     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 430219       | 05/30/19 08:50       | SMP     | TAL SL |

# Lab Chronicle

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

Job ID: 400-168447-1  
SDG: Gaston Ash Pond 1214

**Client Sample ID: AZ08817 MW-10 DUP**

**Lab Sample ID: 400-168447-29**

**Date Collected: 04/03/19 16:10**

**Matrix: Water**

**Date Received: 04/08/19 14:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 424966       | 04/22/19 15:20       | CLP     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 429043       | 05/18/19 15:00       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 424967       | 04/22/19 15:23       | CLP     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 427892       | 05/10/19 08:53       | KLS     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 430219       | 05/30/19 08:50       | 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 Gaston

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

## Rad

### Prep Batch: 424955

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method     | Prep Batch |
|--------------------|--------------------|-----------|--------|------------|------------|
| 400-168447-7       | AZ08795 MW-22      | Total/NA  | Water  | PrecSep-21 |            |
| 400-168447-8       | AZ08796 MW-5       | Total/NA  | Water  | PrecSep-21 |            |
| 400-168447-9       | AZ08797 MW-4       | Total/NA  | Water  | PrecSep-21 |            |
| 400-168447-10      | AZ08798 MW-3       | Total/NA  | Water  | PrecSep-21 |            |
| MB 160-424955/23-A | Method Blank       | Total/NA  | Water  | PrecSep-21 |            |
| LCS 160-424955/1-A | Lab Control Sample | Total/NA  | Water  | PrecSep-21 |            |
| 400-168447-8 DU    | AZ08796 MW-5       | Total/NA  | Water  | PrecSep-21 |            |

### Prep Batch: 424962

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method    | Prep Batch |
|--------------------|--------------------|-----------|--------|-----------|------------|
| 400-168447-7       | AZ08795 MW-22      | Total/NA  | Water  | PrecSep_0 |            |
| 400-168447-8       | AZ08796 MW-5       | Total/NA  | Water  | PrecSep_0 |            |
| 400-168447-9       | AZ08797 MW-4       | Total/NA  | Water  | PrecSep_0 |            |
| 400-168447-10      | AZ08798 MW-3       | Total/NA  | Water  | PrecSep_0 |            |
| MB 160-424962/23-A | Method Blank       | Total/NA  | Water  | PrecSep_0 |            |
| LCS 160-424962/1-A | Lab Control Sample | Total/NA  | Water  | PrecSep_0 |            |
| 400-168447-8 DU    | AZ08796 MW-5       | Total/NA  | Water  | PrecSep_0 |            |

### Prep Batch: 424966

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method     | Prep Batch |
|---------------------|------------------------|-----------|--------|------------|------------|
| 400-168447-1        | AZ08789 MW-19          | Total/NA  | Water  | PrecSep-21 |            |
| 400-168447-2        | AZ08790 MW-2           | Total/NA  | Water  | PrecSep-21 |            |
| 400-168447-3        | AZ08791 MW-7           | Total/NA  | Water  | PrecSep-21 |            |
| 400-168447-4        | AZ08792 MW-6           | Total/NA  | Water  | PrecSep-21 |            |
| 400-168447-5        | AZ08793 MW-6 DUP       | Total/NA  | Water  | PrecSep-21 |            |
| 400-168447-6        | AZ08794 MW-21          | Total/NA  | Water  | PrecSep-21 |            |
| 400-168447-29       | AZ08817 MW-10 DUP      | Total/NA  | Water  | PrecSep-21 |            |
| MB 160-424966/23-A  | Method Blank           | Total/NA  | Water  | PrecSep-21 |            |
| LCS 160-424966/1-A  | Lab Control Sample     | Total/NA  | Water  | PrecSep-21 |            |
| LCSD 160-424966/2-A | Lab Control Sample Dup | Total/NA  | Water  | PrecSep-21 |            |

### Prep Batch: 424967

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method    | Prep Batch |
|---------------------|------------------------|-----------|--------|-----------|------------|
| 400-168447-1        | AZ08789 MW-19          | Total/NA  | Water  | PrecSep_0 |            |
| 400-168447-2        | AZ08790 MW-2           | Total/NA  | Water  | PrecSep_0 |            |
| 400-168447-3        | AZ08791 MW-7           | Total/NA  | Water  | PrecSep_0 |            |
| 400-168447-4        | AZ08792 MW-6           | Total/NA  | Water  | PrecSep_0 |            |
| 400-168447-5        | AZ08793 MW-6 DUP       | Total/NA  | Water  | PrecSep_0 |            |
| 400-168447-6        | AZ08794 MW-21          | Total/NA  | Water  | PrecSep_0 |            |
| 400-168447-29       | AZ08817 MW-10 DUP      | Total/NA  | Water  | PrecSep_0 |            |
| MB 160-424967/23-A  | Method Blank           | Total/NA  | Water  | PrecSep_0 |            |
| LCS 160-424967/1-A  | Lab Control Sample     | Total/NA  | Water  | PrecSep_0 |            |
| LCSD 160-424967/2-A | Lab Control Sample Dup | Total/NA  | Water  | PrecSep_0 |            |

### Prep Batch: 425526

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 400-168447-11 | AZ08799 FB-2     | Total/NA  | Water  | PrecSep-21 |            |
| 400-168447-12 | AZ08800 MW-20    | Total/NA  | Water  | PrecSep-21 |            |
| 400-168447-13 | AZ08801 MW-18    | Total/NA  | Water  | PrecSep-21 |            |
| 400-168447-14 | AZ08802 MW-17    | Total/NA  | Water  | PrecSep-21 |            |
| 400-168447-15 | AZ08803 MW-16    | Total/NA  | Water  | PrecSep-21 |            |

# QC Association Summary

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

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

## Rad (Continued)

### Prep Batch: 425526 (Continued)

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method     | Prep Batch |
|--------------------|--------------------|-----------|--------|------------|------------|
| 400-168447-16      | AZ08804 MW-16 DUP  | Total/NA  | Water  | PrecSep-21 |            |
| 400-168447-17      | AZ08805 MW-15R     | Total/NA  | Water  | PrecSep-21 |            |
| 400-168447-18      | AZ08806 FB-3       | Total/NA  | Water  | PrecSep-21 |            |
| 400-168447-19      | AZ08807 MW-9       | Total/NA  | Water  | PrecSep-21 |            |
| 400-168447-20      | AZ08808 MW-8       | Total/NA  | Water  | PrecSep-21 |            |
| 400-168447-21      | AZ08809 MW-1       | Total/NA  | Water  | PrecSep-21 |            |
| 400-168447-22      | AZ08810 FB-1       | Total/NA  | Water  | PrecSep-21 |            |
| 400-168447-23      | AZ08811 MW-14      | Total/NA  | Water  | PrecSep-21 |            |
| 400-168447-24      | AZ08812 MW-13      | Total/NA  | Water  | PrecSep-21 |            |
| 400-168447-25      | AZ08813 MW-12      | Total/NA  | Water  | PrecSep-21 |            |
| 400-168447-26      | AZ08814 EB-1       | Total/NA  | Water  | PrecSep-21 |            |
| 400-168447-27      | AZ08815 MW-11      | Total/NA  | Water  | PrecSep-21 |            |
| 400-168447-28      | AZ08816 MW-10      | Total/NA  | Water  | PrecSep-21 |            |
| MB 160-425526/23-A | Method Blank       | Total/NA  | Water  | PrecSep-21 |            |
| LCS 160-425526/1-A | Lab Control Sample | Total/NA  | Water  | PrecSep-21 |            |
| 400-168447-13 DU   | AZ08801 MW-18      | Total/NA  | Water  | PrecSep-21 |            |

### Prep Batch: 425535

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method    | Prep Batch |
|--------------------|--------------------|-----------|--------|-----------|------------|
| 400-168447-11      | AZ08799 FB-2       | Total/NA  | Water  | PrecSep_0 |            |
| 400-168447-12      | AZ08800 MW-20      | Total/NA  | Water  | PrecSep_0 |            |
| 400-168447-13      | AZ08801 MW-18      | Total/NA  | Water  | PrecSep_0 |            |
| 400-168447-14      | AZ08802 MW-17      | Total/NA  | Water  | PrecSep_0 |            |
| 400-168447-15      | AZ08803 MW-16      | Total/NA  | Water  | PrecSep_0 |            |
| 400-168447-16      | AZ08804 MW-16 DUP  | Total/NA  | Water  | PrecSep_0 |            |
| 400-168447-17      | AZ08805 MW-15R     | Total/NA  | Water  | PrecSep_0 |            |
| 400-168447-18      | AZ08806 FB-3       | Total/NA  | Water  | PrecSep_0 |            |
| 400-168447-19      | AZ08807 MW-9       | Total/NA  | Water  | PrecSep_0 |            |
| 400-168447-20      | AZ08808 MW-8       | Total/NA  | Water  | PrecSep_0 |            |
| 400-168447-21      | AZ08809 MW-1       | Total/NA  | Water  | PrecSep_0 |            |
| 400-168447-22      | AZ08810 FB-1       | Total/NA  | Water  | PrecSep_0 |            |
| 400-168447-23      | AZ08811 MW-14      | Total/NA  | Water  | PrecSep_0 |            |
| 400-168447-24      | AZ08812 MW-13      | Total/NA  | Water  | PrecSep_0 |            |
| 400-168447-25      | AZ08813 MW-12      | Total/NA  | Water  | PrecSep_0 |            |
| 400-168447-26      | AZ08814 EB-1       | Total/NA  | Water  | PrecSep_0 |            |
| 400-168447-27      | AZ08815 MW-11      | Total/NA  | Water  | PrecSep_0 |            |
| 400-168447-28      | AZ08816 MW-10      | Total/NA  | Water  | PrecSep_0 |            |
| MB 160-425535/23-A | Method Blank       | Total/NA  | Water  | PrecSep_0 |            |
| LCS 160-425535/1-A | Lab Control Sample | Total/NA  | Water  | PrecSep_0 |            |
| 400-168447-13 DU   | AZ08801 MW-18      | Total/NA  | Water  | PrecSep_0 |            |

# QC Sample Results

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

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

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

**Lab Sample ID: MB 160-424955/23-A**  
**Matrix: Water**  
**Analysis Batch: 429045**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 424955**

| Analyte    | MB MB     |           | Count           | Total           | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|-----------|-----------|-----------------|-----------------|------|-------|-------|----------------|----------------|---------|
|            | Result    | Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) |      |       |       |                |                |         |
| Radium-226 | -0.007075 | U         | 0.0557          | 0.0557          | 1.00 | 0.116 | pCi/L | 04/22/19 12:54 | 05/18/19 19:07 | 1       |
| Carrier    | MB MB     |           | Limits          |                 |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | %Yield    | Qualifier | 40 - 110        |                 |      |       |       | 04/22/19 12:54 | 05/18/19 19:07 | 1       |
|            | 109       |           |                 |                 |      |       |       |                |                |         |

**Lab Sample ID: LCS 160-424955/1-A**  
**Matrix: Water**  
**Analysis Batch: 429039**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 424955**

| Analyte    | Spike Added | LCS Result    | LCS Qual | Total           | RL   | MDC    | Unit  | %Rec | %Rec. Limits |
|------------|-------------|---------------|----------|-----------------|------|--------|-------|------|--------------|
|            |             |               |          | Uncert. (2σ+/-) |      |        |       |      |              |
| Radium-226 | 11.4        | 9.416         |          | 0.984           | 1.00 | 0.0871 | pCi/L | 83   | 75 - 125     |
| Carrier    | LCS %Yield  | LCS Qualifier | Limits   |                 |      |        |       |      |              |
| Ba Carrier | 110         |               | 40 - 110 |                 |      |        |       |      |              |

**Lab Sample ID: 400-168447-8 DU**  
**Matrix: Water**  
**Analysis Batch: 429045**

**Client Sample ID: AZ08796 MW-5**  
**Prep Type: Total/NA**  
**Prep Batch: 424955**

| Analyte    | Sample Sample |              | DU       | DU   | Total           | RL   | MDC    | Unit  | RER  | RER Limit |
|------------|---------------|--------------|----------|------|-----------------|------|--------|-------|------|-----------|
|            | Result        | Qual         | Result   | Qual | Uncert. (2σ+/-) |      |        |       |      |           |
| Radium-226 | 0.0764        | U            | 0.2613   |      | 0.0967          | 1.00 | 0.0823 | pCi/L | 1.09 | 1         |
| Carrier    | DU %Yield     | DU Qualifier | Limits   |      |                 |      |        |       |      |           |
| Ba Carrier | 106           |              | 40 - 110 |      |                 |      |        |       |      |           |

**Lab Sample ID: MB 160-424966/23-A**  
**Matrix: Water**  
**Analysis Batch: 429045**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 424966**

| Analyte    | MB MB   |           | Count           | Total           | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|---------|-----------|-----------------|-----------------|------|-------|-------|----------------|----------------|---------|
|            | Result  | Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) |      |       |       |                |                |         |
| Radium-226 | 0.02463 | U         | 0.0725          | 0.0725          | 1.00 | 0.134 | pCi/L | 04/22/19 15:20 | 05/18/19 15:04 | 1       |
| Carrier    | MB MB   |           | Limits          |                 |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | %Yield  | Qualifier | 40 - 110        |                 |      |       |       | 04/22/19 15:20 | 05/18/19 15:04 | 1       |
|            | 95.5    |           |                 |                 |      |       |       |                |                |         |

**Lab Sample ID: LCS 160-424966/1-A**  
**Matrix: Water**  
**Analysis Batch: 429039**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 424966**

| Analyte    | Spike Added | LCS Result | LCS Qual | Total           | RL   | MDC    | Unit  | %Rec | %Rec. Limits |
|------------|-------------|------------|----------|-----------------|------|--------|-------|------|--------------|
|            |             |            |          | Uncert. (2σ+/-) |      |        |       |      |              |
| Radium-226 | 11.4        | 9.856      |          | 1.04            | 1.00 | 0.0996 | pCi/L | 87   | 75 - 125     |

# QC Sample Results

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

Job ID: 400-168447-1  
SDG: Gaston Ash Pond 1214

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

**Lab Sample ID: LCS 160-424966/1-A**  
**Matrix: Water**  
**Analysis Batch: 429039**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 424966**

| Carrier    | LCS<br>%Yield | LCS<br>Qualifier | Limits   |
|------------|---------------|------------------|----------|
| Ba Carrier | 98.6          |                  | 40 - 110 |

**Lab Sample ID: LCSD 160-424966/2-A**  
**Matrix: Water**  
**Analysis Batch: 429039**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 424966**

| Analyte    | Spike<br>Added | LCSD<br>Result | LCSD<br>Qual | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC    | Unit  | %Rec | %Rec.    |      | RER   |
|------------|----------------|----------------|--------------|-----------------------------|------|--------|-------|------|----------|------|-------|
|            |                |                |              |                             |      |        |       |      | Limits   | RER  | Limit |
| Radium-226 | 11.4           | 9.074          |              | 0.965                       | 1.00 | 0.0936 | pCi/L | 80   | 75 - 125 | 0.39 | 1     |

| Carrier    | LCSD<br>%Yield | LCSD<br>Qualifier | Limits   |
|------------|----------------|-------------------|----------|
| Ba Carrier | 98.0           |                   | 40 - 110 |

**Lab Sample ID: MB 160-425526/23-A**  
**Matrix: Water**  
**Analysis Batch: 429095**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 425526**

| Analyte    | MB<br>Result | MB<br>Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC    | Unit  | Prepared       |                | Analyzed |          | Dil Fac |
|------------|--------------|-----------------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|----------|----------|---------|
|            |              |                 |                             |                             |      |        |       | Prepared       | Analyzed       | Prepared | Analyzed | Dil Fac |
| Radium-226 | 0.07328      | U               | 0.0623                      | 0.0626                      | 1.00 | 0.0908 | pCi/L | 04/25/19 13:29 | 05/20/19 10:18 |          |          | 1       |

| Carrier    | MB<br>%Yield | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------|--------------|-----------------|----------|----------------|----------------|---------|
| Ba Carrier | 104          |                 | 40 - 110 | 04/25/19 13:29 | 05/20/19 10:18 | 1       |

**Lab Sample ID: LCS 160-425526/1-A**  
**Matrix: Water**  
**Analysis Batch: 429092**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 425526**

| Analyte    | Spike<br>Added | LCS<br>Result | LCS<br>Qual | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | %Rec | %Rec.    |  |
|------------|----------------|---------------|-------------|-----------------------------|------|-------|-------|------|----------|--|
|            |                |               |             |                             |      |       |       |      | Limits   |  |
| Radium-226 | 11.4           | 10.04         |             | 1.07                        | 1.00 | 0.104 | pCi/L | 88   | 75 - 125 |  |

| Carrier    | LCS<br>%Yield | LCS<br>Qualifier | Limits   |
|------------|---------------|------------------|----------|
| Ba Carrier | 91.2          |                  | 40 - 110 |

**Lab Sample ID: 400-168447-13 DU**  
**Matrix: Water**  
**Analysis Batch: 429095**

**Client Sample ID: AZ08801 MW-18**  
**Prep Type: Total/NA**  
**Prep Batch: 425526**

| Analyte    | Sample<br>Result | Sample<br>Qual | DU<br>Result | DU<br>Qual | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC    | Unit  | RER  | RER   |
|------------|------------------|----------------|--------------|------------|-----------------------------|------|--------|-------|------|-------|
|            |                  |                |              |            |                             |      |        |       |      | Limit |
| Radium-226 | 0.712            |                | 0.6584       |            | 0.163                       | 1.00 | 0.0903 | pCi/L | 0.16 | 1     |

| Carrier    | DU<br>%Yield | DU<br>Qualifier | Limits   |
|------------|--------------|-----------------|----------|
| Ba Carrier | 93.8         |                 | 40 - 110 |



# QC Sample Results

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

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

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

**Lab Sample ID: MB 160-424962/23-A**  
**Matrix: Water**  
**Analysis Batch: 427688**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 424962**

| Analyte    | MB MB  |           | Count           | Total           | RL             | MDC            | Unit    | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------|-----------------|----------------|----------------|---------|----------------|----------------|---------|
|            | Result | Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) |                |                |         |                |                |         |
| Radium-228 | 0.1244 | U         | 0.178           | 0.178           | 1.00           | 0.298          | pCi/L   | 04/22/19 14:21 | 05/08/19 16:01 | 1       |
| Carrier    | MB MB  |           | Limits          |                 | Prepared       | Analyzed       | Dil Fac |                |                |         |
|            | %Yield | Qualifier |                 |                 |                |                |         |                |                |         |
| Ba Carrier | 109    |           | 40 - 110        |                 | 04/22/19 14:21 | 05/08/19 16:01 | 1       |                |                |         |
| Y Carrier  | 95.3   |           | 40 - 110        |                 | 04/22/19 14:21 | 05/08/19 16:01 | 1       |                |                |         |

**Lab Sample ID: LCS 160-424962/1-A**  
**Matrix: Water**  
**Analysis Batch: 427716**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 424962**

| Analyte    | Spike Added | LCS Result | LCS Qual | Total           | RL   | MDC   | Unit  | %Rec | %Rec. Limits |
|------------|-------------|------------|----------|-----------------|------|-------|-------|------|--------------|
|            |             |            |          | Uncert. (2σ+/-) |      |       |       |      |              |
| Radium-228 | 9.23        | 7.421      |          | 0.884           | 1.00 | 0.348 | pCi/L | 80   | 75 - 125     |
| Carrier    | LCS LCS     |            | Limits   |                 |      |       |       |      |              |
|            | %Yield      | Qualifier  |          |                 |      |       |       |      |              |
| Ba Carrier | 110         |            | 40 - 110 |                 |      |       |       |      |              |
| Y Carrier  | 91.6        |            | 40 - 110 |                 |      |       |       |      |              |

**Lab Sample ID: 400-168447-8 DU**  
**Matrix: Water**  
**Analysis Batch: 427688**

**Client Sample ID: AZ08796 MW-5**  
**Prep Type: Total/NA**  
**Prep Batch: 424962**

| Analyte    | Sample Sample |           | DU       | DU   | Total           | RL   | MDC   | Unit  | RER  | RER Limit |
|------------|---------------|-----------|----------|------|-----------------|------|-------|-------|------|-----------|
|            | Result        | Qual      | Result   | Qual | Uncert. (2σ+/-) |      |       |       |      |           |
| Radium-228 | 0.168         | U         | 0.5090   |      | 0.234           | 1.00 | 0.327 | pCi/L | 0.78 | 1         |
| Carrier    | DU DU         |           | Limits   |      |                 |      |       |       |      |           |
|            | %Yield        | Qualifier |          |      |                 |      |       |       |      |           |
| Ba Carrier | 106           |           | 40 - 110 |      |                 |      |       |       |      |           |
| Y Carrier  | 91.6          |           | 40 - 110 |      |                 |      |       |       |      |           |

**Lab Sample ID: MB 160-424967/23-A**  
**Matrix: Water**  
**Analysis Batch: 427870**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 424967**

| Analyte    | MB MB   |           | Count           | Total           | RL             | MDC            | Unit    | Prepared       | Analyzed       | Dil Fac |
|------------|---------|-----------|-----------------|-----------------|----------------|----------------|---------|----------------|----------------|---------|
|            | Result  | Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) |                |                |         |                |                |         |
| Radium-228 | 0.08420 | U         | 0.206           | 0.206           | 1.00           | 0.355          | pCi/L   | 04/22/19 15:23 | 05/10/19 08:55 | 1       |
| Carrier    | MB MB   |           | Limits          |                 | Prepared       | Analyzed       | Dil Fac |                |                |         |
|            | %Yield  | Qualifier |                 |                 |                |                |         |                |                |         |
| Ba Carrier | 95.5    |           | 40 - 110        |                 | 04/22/19 15:23 | 05/10/19 08:55 | 1       |                |                |         |
| Y Carrier  | 87.5    |           | 40 - 110        |                 | 04/22/19 15:23 | 05/10/19 08:55 | 1       |                |                |         |

# QC Sample Results

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

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

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

**Lab Sample ID: LCS 160-424967/1-A**  
**Matrix: Water**  
**Analysis Batch: 427892**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 424967**

| Analyte    | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL   | MDC   | Unit  | %Rec | %Rec. Limits |     |
|------------|-------------|------------|----------|-----------------------|------|-------|-------|------|--------------|-----|
|            |             |            |          |                       |      |       |       |      | 75           | 125 |
| Radium-228 | 9.22        | 9.288      |          | 1.06                  | 1.00 | 0.337 | pCi/L | 101  | 75           | 125 |

| Carrier    | LCS    |           | Limits   |
|------------|--------|-----------|----------|
|            | %Yield | Qualifier |          |
| Ba Carrier | 98.6   |           | 40 - 110 |
| Y Carrier  | 88.6   |           | 40 - 110 |

**Lab Sample ID: LCSD 160-424967/2-A**  
**Matrix: Water**  
**Analysis Batch: 427892**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 424967**

| Analyte    | Spike Added | LCSD Result | LCSD Qual | Total Uncert. (2σ+/-) | RL   | MDC   | Unit  | %Rec | %Rec. Limits |     | RER  | Limit |
|------------|-------------|-------------|-----------|-----------------------|------|-------|-------|------|--------------|-----|------|-------|
|            |             |             |           |                       |      |       |       |      | 75           | 125 | 0.15 | 1     |
| Radium-228 | 9.22        | 8.964       |           | 1.04                  | 1.00 | 0.347 | pCi/L | 97   | 75           | 125 | 0.15 | 1     |

| Carrier    | LCSD   |           | Limits   |
|------------|--------|-----------|----------|
|            | %Yield | Qualifier |          |
| Ba Carrier | 98.0   |           | 40 - 110 |
| Y Carrier  | 88.2   |           | 40 - 110 |

**Lab Sample ID: MB 160-425535/23-A**  
**Matrix: Water**  
**Analysis Batch: 428067**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 425535**

| Analyte    | MB       |           | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL   | MDC   | Unit  | Prepared       |                | Analyzed       |       | Dil Fac |
|------------|----------|-----------|-----------------------|-----------------------|------|-------|-------|----------------|----------------|----------------|-------|---------|
|            | Result   | Qualifier |                       |                       |      |       |       | 04/25/19 14:26 | 05/13/19 09:36 | 05/13/19 09:36 | 09:36 |         |
| Radium-228 | -0.02237 | U         | 0.183                 | 0.183                 | 1.00 | 0.333 | pCi/L | 04/25/19 14:26 | 05/13/19 09:36 | 05/13/19 09:36 | 09:36 | 1       |

| Carrier    | MB     |           | Limits   | Prepared       |                | Analyzed       |       | Dil Fac |
|------------|--------|-----------|----------|----------------|----------------|----------------|-------|---------|
|            | %Yield | Qualifier |          | 04/25/19 14:26 | 05/13/19 09:36 | 05/13/19 09:36 | 09:36 |         |
| Ba Carrier | 104    |           | 40 - 110 | 04/25/19 14:26 | 05/13/19 09:36 | 05/13/19 09:36 | 09:36 | 1       |
| Y Carrier  | 92.7   |           | 40 - 110 | 04/25/19 14:26 | 05/13/19 09:36 | 05/13/19 09:36 | 09:36 | 1       |

**Lab Sample ID: LCS 160-425535/1-A**  
**Matrix: Water**  
**Analysis Batch: 428063**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 425535**

| Analyte    | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL   | MDC   | Unit  | %Rec | %Rec. Limits |     |
|------------|-------------|------------|----------|-----------------------|------|-------|-------|------|--------------|-----|
|            |             |            |          |                       |      |       |       |      | 75           | 125 |
| Radium-228 | 9.21        | 8.471      |          | 0.983                 | 1.00 | 0.353 | pCi/L | 92   | 75           | 125 |

| Carrier    | LCS    |           | Limits   |
|------------|--------|-----------|----------|
|            | %Yield | Qualifier |          |
| Ba Carrier | 91.2   |           | 40 - 110 |
| Y Carrier  | 97.9   |           | 40 - 110 |

# QC Sample Results

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

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

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

**Lab Sample ID: 400-168447-13 DU**  
**Matrix: Water**  
**Analysis Batch: 428063**

**Client Sample ID: AZ08801 MW-18**  
**Prep Type: Total/NA**  
**Prep Batch: 425535**

| Analyte        | Sample        | Sample           | DU            |      | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | RER  | RER<br>Limit |
|----------------|---------------|------------------|---------------|------|-----------------------------|------|-------|-------|------|--------------|
|                | Result        | Qual             | Result        | Qual |                             |      |       |       |      |              |
| Radium-228     | 0.776         |                  | 0.6605        |      | 0.235                       | 1.00 | 0.293 | pCi/L | 0.23 | 1            |
| <b>DU DU</b>   |               |                  |               |      |                             |      |       |       |      |              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b> |      |                             |      |       |       |      |              |
| Ba Carrier     | 93.8          |                  | 40 - 110      |      |                             |      |       |       |      |              |
| Y Carrier      | 95.3          |                  | 40 - 110      |      |                             |      |       |       |      |              |

## Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228

**Lab Sample ID: 400-168447-8 DU**  
**Matrix: Water**  
**Analysis Batch: 430219**

**Client Sample ID: AZ08796 MW-5**  
**Prep Type: Total/NA**

| Analyte                         | Sample | Sample | DU     |      | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | RER  | RER<br>Limit |
|---------------------------------|--------|--------|--------|------|-----------------------------|------|-------|-------|------|--------------|
|                                 | Result | Qual   | Result | Qual |                             |      |       |       |      |              |
| Combined<br>Radium 226 +<br>228 | 0.245  | U      | 0.7703 |      | 0.253                       | 5.00 | 0.327 | pCi/L | 1.12 |              |

**Lab Sample ID: 400-168447-13 DU**  
**Matrix: Water**  
**Analysis Batch: 430219**

**Client Sample ID: AZ08801 MW-18**  
**Prep Type: Total/NA**

| Analyte                         | Sample | Sample | DU     |      | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | RER  | RER<br>Limit |
|---------------------------------|--------|--------|--------|------|-----------------------------|------|-------|-------|------|--------------|
|                                 | Result | Qual   | Result | Qual |                             |      |       |       |      |              |
| Combined<br>Radium 226 +<br>228 | 1.49   |        | 1.319  |      | 0.286                       | 5.00 | 0.293 | pCi/L | 0.28 |              |

**TestAmerica Pensacola**

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

**Chain of Custody Record**



|                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                                                                                                                                                                                              |  |                                                                                                                                                                                                           |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Client Information</b><br>Company: Alabama Power General Test Laboratory<br>Address: 744 County Rd 87 GSC #8<br>City: Calera<br>State, Zip: AL, 35040<br>Phone: 205-664-6197(Tel)<br>Email: lbmickit@southernco.com<br>Project Name: 40007143<br>CCR<br>Site: Gaston Ash Pond 1214                                                                                                                              |  | <b>Client Information</b><br>Lab PM: Whitmire, Cheyenne R<br>E-Mail: cheyenne.whitmire@testamericainc.com<br>Due Date Requested:<br>TAT Requested (days): Routine<br>PO #: 40007143<br>WO #: 40007143<br>Project #:<br>SSO#: |  | COC No: 400-56525-24537.1<br>Page: Page 2 of 2<br>Job #:                                                                                                                                                  |  |
| <b>Analysis Requested</b><br>Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/><br>Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/><br>SM 4500 F, C <input checked="" type="checkbox"/><br>SM 4500 Cl, E <input checked="" type="checkbox"/><br>SM 4500 SO4, E <input checked="" type="checkbox"/><br>9315_Ra226, 9320_Ra228, Ra226Ra228_GFPc <input checked="" type="checkbox"/> |  | Carrier Tracking Note:<br>Total Number of Containers: 1                                                                                                                                                                      |  | Preservation Codes:<br>A - HCL<br>B - NaOH<br>C - Zn Acetate<br>D - Nitric Acid<br>E - NaHSO4<br>F - MeOH<br>G - Amshler<br>H - Ascorbic Acid<br>I - Ice<br>J - DI Water<br>K - EDTA<br>L - EDA<br>Other: |  |
| <b>Sample Identification</b><br>Sample ID: AZ08807<br>Sample Date: 4/1/19<br>Sample Time: 11:23<br>Sample Type: G (Grab)<br>Matrix: Water<br>Preservation Code:                                                                                                                                                                                                                                                    |  | Special Instructions/Note:<br>1 MW-9<br>1 MW-8<br>1 MW-1<br>1 FB-1 (Field Blank)<br>1 MW-14<br>1 MW-13<br>1 MW-12<br>1 EB-1 (Equipment Blank)<br>1 MW-11<br>1 MW-10<br>1 MW-10 DUP (Sample Duplicate)                        |  | Special Instructions/Note:<br>400-188447 COC                                                                                                                                                              |  |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)<br><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months                                                                                                                                                                                        |  | Special Instructions/QC Requirements:                                                                                                                                                                                        |  | Method of Shipment:                                                                                                                                                                                       |  |
| Relinquished by: Laura Mickit<br>Date: 4/2/2019 11:05<br>Relinquished by: _____<br>Date/Time: _____<br>Relinquished by: _____<br>Date/Time: _____<br>Relinquished by: _____<br>Date/Time: _____<br>Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                       |  | Received by: _____<br>Date/Time: 4/2/19 1450<br>Received by: _____<br>Date/Time: _____<br>Received by: _____<br>Date/Time: _____<br>Cooler Temperature(s) °C and Other Remarks: 6.0, 8.1 °C IDB                              |  | Company: TA                                                                                                                                                                                               |  |

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**Chain of Custody Record**

|                                                                                                                                                                                                                                                                                                             |  |                                                                                                                                                                                                                                                                                                     |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Client Information</b><br>Client Contact: Laura Midkiff<br>Company: Alabama Power General Test Laboratory<br>Address: 744 County Rd 87, GSC #8<br>City: Callera<br>State/Zip: AL, 35040<br>Phone: 205-664-6197 (Tel)<br>Email: lmidkiff@southemco.com<br>Project Name: CCR<br>Site: Gaston Ash Pond 1214 |  | <b>Client Information</b><br>Lab PM: Whitney, Cheyenne R<br>E-Mail: cheyenne.whitire@testamericantc.com<br>Carrier Tracking Note(s):<br>Page: 400-56525-24537.1<br>Job #: Page 1 of 2                                                                                                               |  |
| <b>Analysis Requested</b><br>Due Date Requested:<br>TAT Requested (days):<br>PO #:<br>WO #:<br>Project #:<br>SSO#:<br>Matrix (W=Water, E=Solid, O=Oil, BT=Tissue, AS=Asb)                                                                                                                                   |  | <b>Analysis Requested</b><br>SM 4500 F.C<br>SM 4500 C.E<br>SM 4500 S.O4.E<br>9315_Ra226, 9320_Ra228, Ra228a228_GFPc                                                                                                                                                                                 |  |
| <b>Sample Identification</b><br>Sample ID<br>Sample Date<br>Sample Time<br>Sample Type (C=Comp, G=grab)<br>Matrix (W=Water, E=Solid, O=Oil, BT=Tissue, AS=Asb)                                                                                                                                              |  | <b>Special Instructions/Note:</b><br>Total Number of containers<br>MW-19<br>MW-2<br>MW-7<br>MW-6<br>MW-6 DUP (Sample Duplicate)<br>MW-21<br>MW-22<br>MW-5<br>MW-4<br>MW-3<br>FB-2 (Field Blank)<br>MW-20<br>MW-18<br>MW-17<br>MW-16<br>MW-16 DUP (Sample Duplicate)<br>MW-15R<br>FB-3 (Field Blank) |  |
| <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological<br>Deliverable Requested I, II, III, IV, Other (specify)                             |  | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months<br>Special Instructions/IC Requirements:                                                                                                                       |  |
| <b>Empty Kit Relinquished by:</b><br>Relinquished by: Laura Midkiff<br>Date/Time: 4/5/2019 11:05 Water APC<br>Relinquished by:<br>Relinquished by:                                                                                                                                                          |  | <b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b><br>Relinquished by: [Signature]<br>Date/Time: 4/8/19 14:50 TA<br>Relinquished by:<br>Relinquished by:                                                                                                    |  |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Custody Seal No.:                                                                                                                                                                                                         |  | Cooler Temperature(s) °C and Other Remarks: 6.8°C 8.1°C                                                                                                                                                                                                                                             |  |



## Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-168447-1  
SDG Number: Gaston Ash Pond 1214

**Login Number: 168447**

**List Source: Eurofins TestAmerica, Pensacola**

**List Number: 1**

**Creator: Shannon, Jonathon W**

| Question                                                                                            | Answer | Comment          |
|-----------------------------------------------------------------------------------------------------|--------|------------------|
| Radioactivity wasn't checked or is <math>\leq</math> 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   | 6.8°C, 8.1°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: 400-168447-1  
SDG Number: Gaston Ash Pond 1214

**Login Number: 168447**

**List Number: 2**

**Creator: Hellm, Michael**

**List Source: Eurofins TestAmerica, St. Louis**

**List Creation: 04/11/19 11:54 AM**

| Question                                                                                            | Answer | Comment |
|-----------------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is <math>\leq</math> 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: 400-168447-1  
SDG Number: Gaston Ash Pond 1214

**Login Number: 168447**

**List Number: 3**

**Creator: McKinney, Gerrod E**

**List Source: Eurofins TestAmerica, St. Louis**

**List Creation: 04/12/19 01:47 PM**

| Question                                                                                            | Answer | Comment |
|-----------------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is <math>\leq</math> 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: 400-168447-1  
SDG Number: Gaston Ash Pond 1214

**Login Number: 168447**

**List Number: 4**

**Creator: Hellm, Michael**

**List Source: Eurofins TestAmerica, St. Louis**

**List Creation: 04/18/19 10:47 AM**

| Question                                                                                            | Answer | Comment |
|-----------------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is <math>\leq</math> 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 Gaston

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

## 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 Gaston

Job ID: 400-168447-1  
 SDG: Gaston Ash Pond 1214

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

## ***Field Case Narrative***



## **E.C. Gaston Ash Pond**

### **MW-15R Resample**

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 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 :** WMWGASAP\_1221  
**Project/Site :** Gaston Ash Pond  
Wilsonville, AL 35186  
**For :** Southern Company Services  
3535 Colonnade Parkway  
Birmingham, AL 35243  
**Attention :** Dustin Brooks, Greg Dyer, & Lauren Parker  
**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: 2019.06.12 08:17:27 -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 09:07:40 -05'00'



Metals ICP

Gaston Ash Pond

WMWGASAP\_1221

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> |
|------------------|-----------------|-------------------|
| AZ11489          | 646340          | WMWGASAP_1221     |
| AZ11490          | 646340          | WMWGASAP_1221     |
| AZ11491          | 646340          | WMWGASAP_1221     |
| AZ11492          | 646340          | WMWGASAP_1221     |

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. 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> |
|------------------|----------------|------------------------|
| AZ11490          | Calcium        | x10.15                 |
| AZ11491          | Calcium        | x10.15                 |

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



Metals ICPMS

Gaston Ash Pond

WMWGASAP\_1221

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> |
|------------------|-----------------|-------------------|
| AZ11489          | 647353          | WMWGASAP_1221     |
| AZ11490          | 647353          | WMWGASAP_1221     |
| AZ11491          | 647353          | WMWGASAP_1221     |
| AZ11492          | 647353          | WMWGASAP_1221     |

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

Gaston Ash Pond

WMWGASAP\_1221

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> |
|------------------|-----------------|-------------------|
| AZ11489          | 646207          | WMWGASAP_1221     |
| AZ11490          | 646207          | WMWGASAP_1221     |
| AZ11491          | 646207          | WMWGASAP_1221     |
| AZ11492          | 646207          | WMWGASAP_1221     |

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

Gaston Ash Pond

WMWGASAP\_1221

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> |
|------------------|-----------------|-------------------|
| AZ11489          | 646427          | WMWGASAP_1221     |
| AZ11490          | 646427          | WMWGASAP_1221     |
| AZ11491          | 646427          | WMWGASAP_1221     |
| AZ11492          | 646427          | WMWGASAP_1221     |

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:
  - AZ11489
  - AZ11492



Anions

Gaston Ash Pond

WMWGASAP\_1221

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> |
|------------------|--------------------------|-------------------|
| AZ11489          | 646294, 646292, & 646397 | WMWGASAP_1221     |
| AZ11490          | 646294, 646292, & 646397 | WMWGASAP_1221     |
| AZ11491          | 646294, 646292, & 646397 | WMWGASAP_1221     |
| AZ11492          | 646294, 646292, & 646397 | WMWGASAP_1221     |

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> |
|------------------|----------------|------------------------|
| AZ11490          | Chloride       | x10                    |
| AZ11490          | Sulfate        | x16                    |
| AZ11491          | Chloride       | x10                    |
| AZ11491          | 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  
 Lauren Parker

Customer Account: WMWGASAPFB  
 Sample Date: 07-May-19  
 Customer ID:  
 Delivery Date: 09-May-19

Description: Gaston Ash Pond Field Blank

Laboratory ID Number: AZ11489

| Name                                  | Analyst | Test Date | Reference   | Vio Spec | DF    | MDL    | RL     | Q | Results      | Units |
|---------------------------------------|---------|-----------|-------------|----------|-------|--------|--------|---|--------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |             |          |       |        |        |   |              |       |
| * Arsenic, Total                      | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U | Not Detected | mg/L  |
| * Barium, Total                       | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U | Not Detected | mg/L  |
| * Beryllium, Total                    | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.0006 | 0.003  | U | Not Detected | mg/L  |
| * Boron, Total                        | RDA     | 5/14/2019 | EPA 200.7   |          | 2.03  | 0.0609 | 0.203  | U | Not Detected | mg/L  |
| * Calcium, Total                      | RDA     | 5/14/2019 | EPA 200.7   |          | 2.03  | 0.203  | 1.015  | U | Not Detected | mg/L  |
| * Cadmium, Total                      | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.0003 | 0.001  | U | Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.0008 | 0.003  | J | 0.00139      | mg/L  |
| * Cobalt, Total                       | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.002  | 0.005  | U | Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 5/23/2019 | 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                      | RDA     | 5/14/2019 | EPA 200.7   |          | 2.03  | 0.0203 | 0.0406 | U | Not Detected | mg/L  |
| * Molybdenum, Total                   | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U | Not Detected | mg/L  |
| * Lead, Total                         | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U | Not Detected | mg/L  |
| * Selenium, Total                     | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U | Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.0002 | 0.001  | U | Not Detected | mg/L  |
| <b>General Characteristics</b>        |         |           |             |          |       |        |        |   |              |       |
| * Solids, Dissolved                   | CES     | 5/16/2019 | SM 2540C    |          | 1     |        | 25     | U | Not Detected | mg/L  |
| Filter Completion Date                | CES     | 5/13/2019 | SM 2540C    |          | 1     |        |        |   | 05/13/2019   | Date  |
| * Chloride                            | JCC     | 5/14/2019 | SM4500Cl E  |          | 1     | 0.50   | 1      | U | Not Detected | mg/L  |
| * Fluoride                            | JCC     | 5/14/2019 | 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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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  
 Lauren Parker

Customer Account: WMWGASAPFB  
 Sample Date: 07-May-19  
 Customer ID:  
 Delivery Date: 09-May-19

Description: Gaston Ash Pond Field Blank

Laboratory ID Number: AZ11489

| Sample  | Analysis               | Units | MB          |          | MS    | MSD     | LCS     | LCS Limit        | Rec  |           | Prec Limit |    |
|---------|------------------------|-------|-------------|----------|-------|---------|---------|------------------|------|-----------|------------|----|
|         |                        |       | MB          | Limit    |       |         |         |                  | Rec  | Limit     |            |    |
| AZ11492 | Arsenic, Total         | mg/L  | 0.00000678  | 0.0022   | 0.10  | 0.103   | 0.108   | 0.085 to 0.115   | 103  | 70 to 130 | 0.0636     | 20 |
| AZ11492 | Barium, Total          | mg/L  | 0.00000536  | 0.0044   | 0.10  | 0.0894  | 0.0918  | 0.085 to 0.115   | 89.4 | 70 to 130 | 0.964      | 20 |
| AZ11492 | Beryllium, Total       | mg/L  | 0.00000835  | 0.00132  | 0.10  | 0.100   | 0.102   | 0.085 to 0.115   | 100  | 70 to 130 | 0.270      | 20 |
| AZ11492 | Boron, Total           | mg/L  | 0.00265     | 0.065025 | 1.00  | 0.962   | 0.971   | 0.85 to 1.15     | 96.2 | 70 to 130 | 0.812      | 20 |
| AZ11492 | Calcium, Total         | mg/L  | 0.00784     | 0.216749 | 5.00  | 5.15    | 4.98    | 4.25 to 5.75     | 103  | 70 to 130 | 1.44       | 20 |
| AZ11492 | Cadmium, Total         | mg/L  | 0.00000210  | 0.00066  | 0.10  | 0.100   | 0.102   | 0.085 to 0.115   | 100  | 70 to 130 | 1.43       | 20 |
| AZ11492 | Cobalt, Total          | mg/L  | -0.00000168 | 0.0044   | 0.10  | 0.103   | 0.102   | 0.085 to 0.115   | 103  | 70 to 130 | 0.316      | 20 |
| AZ11492 | Chromium, Total        | mg/L  | 0.000173    | 0.0044   | 0.10  | 0.100   | 0.0992  | 0.101            | 100  | 70 to 130 | 1.16       | 20 |
| AZ11492 | Mercury, Total by CVAA | mg/L  | 0.0000375   | 0.0005   | 0.004 | 0.00443 | 0.00459 | 0.0034 to 0.0046 | 111  | 70 to 130 | 3.55       | 20 |
| AZ11492 | Lithium, Total         | mg/L  | -0.000132   | 0.019704 | 0.20  | 0.199   | 0.201   | 0.17 to 0.23     | 99.5 | 70 to 130 | 0.784      | 20 |
| AZ11492 | Molybdenum, Total      | mg/L  | 0.0000118   | 0.0044   | 0.10  | 0.104   | 0.103   | 0.085 to 0.115   | 104  | 70 to 130 | 3.19       | 20 |
| AZ11492 | Lead, Total            | mg/L  | 0.00000709  | 0.0022   | 0.10  | 0.103   | 0.105   | 0.085 to 0.115   | 103  | 70 to 130 | 2.37       | 20 |
| AZ11492 | Antimony, Total        | mg/L  | 0.000158    | 0.00176  | 0.10  | 0.0918  | 0.0938  | 0.085 to 0.115   | 90.8 | 70 to 130 | 2.14       | 20 |
| AZ11492 | Selenium, Total        | mg/L  | 0.0000724   | 0.0044   | 0.10  | 0.102   | 0.110   | 0.085 to 0.115   | 102  | 70 to 130 | 0.0973     | 20 |
| AZ11492 | Thallium, Total        | mg/L  | 0.00000299  | 0.00044  | 0.10  | 0.100   | 0.107   | 0.085 to 0.115   | 100  | 70 to 130 | 2.96       | 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:**



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  
 Lauren Parker

Customer Account: WMWGASAPFB  
 Sample Date: 07-May-19  
 Customer ID:  
 Delivery Date: 09-May-19

Description: Gaston Ash Pond Field Blank

Laboratory ID Number: AZ11489

| Sample  | Analysis          | Units | MB     | MB Limit | Spike | MS   | Sample Duplicate | LCS  | LCS Limit    | Rec  | Rec Limit | Prec  | Prec Limit |
|---------|-------------------|-------|--------|----------|-------|------|------------------|------|--------------|------|-----------|-------|------------|
| AZ11491 | Solids, Dissolved | mg/L  | 2.00   | 25       |       |      | 814              | 51.0 | 40 to 60     |      |           | 0.246 | 5          |
| AZ11492 | Chloride          | mg/L  | 0.0579 | 0.50     | 10.0  | 9.82 | 0.085            | 10.3 | 9 to 11      | 98.2 | 80 to 120 | 0.00  | 20         |
| AZ11492 | Fluoride          | mg/L  | 0.0183 | 0.05     | 2.50  | 2.40 | 0.0183           | 2.70 | 2.25 to 2.75 | 96.0 | 80 to 120 | 0.00  | 20         |
| AZ11492 | Sulfate           | mg/L  | -0.477 | 0.50     | 20.0  | 19.3 | -0.466           | 19.7 | 18 to 22     | 96.5 | 80 to 120 | 0.00  | 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

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CC:

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

**Certificate Of Analysis**  **Alabama Power**



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 07-May-19  
 Customer ID:  
 Delivery Date: 09-May-19

Description: Gaston Ash Pond - MW-15R DUP

Laboratory ID Number: AZ11490

| Name                                  | Analyst | Test Date | Reference   | Vio Spec | DF    | MDL    | RL     | Q Results      | Units |
|---------------------------------------|---------|-----------|-------------|----------|-------|--------|--------|----------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |             |          |       |        |        |                |       |
| * Arsenic, Total                      | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | J 0.00177      | mg/L  |
| * Barium, Total                       | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 0.0805         | mg/L  |
| * Beryllium, Total                    | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.0006 | 0.003  | U Not Detected | mg/L  |
| * Boron, Total                        | RDA     | 5/14/2019 | EPA 200.7   |          | 2.03  | 0.0609 | 0.203  | 4.12           | mg/L  |
| * Calcium, Total                      | RDA     | 5/14/2019 | EPA 200.7   |          | 10.15 | 1.015  | 5.075  | 169            | mg/L  |
| * Cadmium, Total                      | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.0003 | 0.001  | U Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.0008 | 0.003  | J 0.00107      | mg/L  |
| * Cobalt, Total                       | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.002  | 0.005  | U Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 5/23/2019 | 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                      | RDA     | 5/14/2019 | EPA 200.7   |          | 2.03  | 0.0203 | 0.0406 | 0.165          | mg/L  |
| * Molybdenum, Total                   | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 0.308          | mg/L  |
| * Lead, Total                         | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Selenium, Total                     | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.0002 | 0.001  | U Not Detected | mg/L  |
| <b>General Characteristics</b>        |         |           |             |          |       |        |        |                |       |
| * Solids, Dissolved                   | CES     | 5/16/2019 | SM 2540C    |          | 1     |        | 50     | 826            | mg/L  |
| Filter Completion Date                | CES     | 5/13/2019 | SM 2540C    |          | 1     |        |        | 05/13/2019     | Date  |
| * Chloride                            | JCC     | 5/14/2019 | SM4500CI E  |          | 10    | 5.00   | 10     | 160            | mg/L  |
| * Fluoride                            | JCC     | 5/14/2019 | SM4500F C   |          | 1     | 0.05   | 0.1    | 0.104          | mg/L  |
| * Sulfate                             | JCC     | 5/15/2019 | SM4500SO4 E |          | 16    | 8.00   | 16     | 318            | mg/L  |
| <b>Field Measurements</b>             |         |           |             |          |       |        |        |                |       |
| pH                                    | AWG     | 5/7/2019  |             |          |       |        |        | FA 7.57        | SU    |

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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:**

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  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 07-May-19  
 Customer ID:  
 Delivery Date: 09-May-19

Description: Gaston Ash Pond - MW-15R DUP

Laboratory ID Number: AZ11490

| Sample  | Analysis               | Units | MB          |          | MS    | MSD     | LCS     | LCS Limit | Rec              |       | Prec Limit |        |    |
|---------|------------------------|-------|-------------|----------|-------|---------|---------|-----------|------------------|-------|------------|--------|----|
|         |                        |       | MB          | Limit    |       |         |         |           | Rec              | Limit |            |        |    |
| AZ11492 | Arsenic, Total         | mg/L  | 0.00000678  | 0.0022   | 0.10  | 0.103   | 0.103   | 0.108     | 0.085 to 0.115   | 103   | 70 to 130  | 0.0636 | 20 |
| AZ11492 | Barium, Total          | mg/L  | 0.00000536  | 0.0044   | 0.10  | 0.0894  | 0.0902  | 0.0918    | 0.085 to 0.115   | 89.4  | 70 to 130  | 0.964  | 20 |
| AZ11492 | Beryllium, Total       | mg/L  | 0.00000835  | 0.00132  | 0.10  | 0.100   | 0.101   | 0.102     | 0.085 to 0.115   | 100   | 70 to 130  | 0.270  | 20 |
| AZ11492 | Boron, Total           | mg/L  | 0.00265     | 0.065025 | 1.00  | 0.962   | 0.970   | 0.971     | 0.85 to 1.15     | 96.2  | 70 to 130  | 0.812  | 20 |
| AZ11492 | Calcium, Total         | mg/L  | 0.00784     | 0.216749 | 5.00  | 5.15    | 5.22    | 4.98      | 4.25 to 5.75     | 103   | 70 to 130  | 1.44   | 20 |
| AZ11492 | Cadmium, Total         | mg/L  | 0.00000210  | 0.00066  | 0.10  | 0.100   | 0.102   | 0.102     | 0.085 to 0.115   | 100   | 70 to 130  | 1.43   | 20 |
| AZ11492 | Cobalt, Total          | mg/L  | -0.00000168 | 0.0044   | 0.10  | 0.103   | 0.103   | 0.102     | 0.085 to 0.115   | 103   | 70 to 130  | 0.316  | 20 |
| AZ11492 | Chromium, Total        | mg/L  | 0.000173    | 0.0044   | 0.10  | 0.100   | 0.0992  | 0.101     | 0.085 to 0.115   | 100   | 70 to 130  | 1.16   | 20 |
| AZ11492 | Mercury, Total by CVAA | mg/L  | 0.0000375   | 0.0005   | 0.004 | 0.00443 | 0.00459 | 0.00428   | 0.0034 to 0.0046 | 111   | 70 to 130  | 3.55   | 20 |
| AZ11492 | Lithium, Total         | mg/L  | -0.000132   | 0.019704 | 0.20  | 0.199   | 0.201   | 0.192     | 0.17 to 0.23     | 99.5  | 70 to 130  | 0.784  | 20 |
| AZ11492 | Molybdenum, Total      | mg/L  | 0.0000118   | 0.0044   | 0.10  | 0.104   | 0.100   | 0.103     | 0.085 to 0.115   | 104   | 70 to 130  | 3.19   | 20 |
| AZ11492 | Lead, Total            | mg/L  | 0.00000709  | 0.0022   | 0.10  | 0.103   | 0.105   | 0.105     | 0.085 to 0.115   | 103   | 70 to 130  | 2.37   | 20 |
| AZ11492 | Antimony, Total        | mg/L  | 0.000158    | 0.00176  | 0.10  | 0.0918  | 0.0938  | 0.0945    | 0.085 to 0.115   | 90.8  | 70 to 130  | 2.14   | 20 |
| AZ11492 | Selenium, Total        | mg/L  | 0.0000724   | 0.0044   | 0.10  | 0.102   | 0.102   | 0.110     | 0.085 to 0.115   | 102   | 70 to 130  | 0.0973 | 20 |
| AZ11492 | Thallium, Total        | mg/L  | 0.00000299  | 0.00044  | 0.10  | 0.100   | 0.103   | 0.107     | 0.085 to 0.115   | 100   | 70 to 130  | 2.96   | 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:**

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  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 07-May-19  
 Customer ID:  
 Delivery Date: 09-May-19

Description: Gaston Ash Pond - MW-15R DUP

Laboratory ID Number: AZ11490

| Sample  | Analysis          | Units | MB     | MB Limit | Spike | MS   | Sample Duplicate | LCS  | LCS Limit    | Rec  | Rec Limit | Prec  | Prec Limit |
|---------|-------------------|-------|--------|----------|-------|------|------------------|------|--------------|------|-----------|-------|------------|
| AZ11491 | Solids, Dissolved | mg/L  | 2.00   | 25       |       |      | 814              | 51.0 | 40 to 60     |      |           | 0.246 | 5          |
| AZ11492 | Chloride          | mg/L  | 0.0579 | 0.50     | 10.0  | 9.82 | 0.085            | 10.3 | 9 to 11      | 98.2 | 80 to 120 | 0.00  | 20         |
| AZ11492 | Fluoride          | mg/L  | 0.0183 | 0.05     | 2.50  | 2.40 | 0.0183           | 2.70 | 2.25 to 2.75 | 96.0 | 80 to 120 | 0.00  | 20         |
| AZ11492 | Sulfate           | mg/L  | -0.477 | 0.50     | 20.0  | 19.3 | -0.466           | 19.7 | 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  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 07-May-19  
 Customer ID:  
 Delivery Date: 09-May-19

Description: Gaston Ash Pond - MW-15R

Laboratory ID Number: AZ11491

| Name                                  | Analyst | Test Date | Reference   | Vio Spec | DF    | MDL    | RL     | Q Results      | Units |
|---------------------------------------|---------|-----------|-------------|----------|-------|--------|--------|----------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |             |          |       |        |        |                |       |
| * Arsenic, Total                      | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | J 0.00160      | mg/L  |
| * Barium, Total                       | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 0.0774         | mg/L  |
| * Beryllium, Total                    | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.0006 | 0.003  | U Not Detected | mg/L  |
| * Boron, Total                        | RDA     | 5/14/2019 | EPA 200.7   |          | 2.03  | 0.0609 | 0.203  | 4.13           | mg/L  |
| * Calcium, Total                      | RDA     | 5/14/2019 | EPA 200.7   |          | 10.15 | 1.015  | 5.075  | 175            | mg/L  |
| * Cadmium, Total                      | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.0003 | 0.001  | U Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.0008 | 0.003  | J 0.000998     | mg/L  |
| * Cobalt, Total                       | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.002  | 0.005  | U Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 5/23/2019 | 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                      | RDA     | 5/14/2019 | EPA 200.7   |          | 2.03  | 0.0203 | 0.0406 | 0.164          | mg/L  |
| * Molybdenum, Total                   | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | 0.292          | mg/L  |
| * Lead, Total                         | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U Not Detected | mg/L  |
| * Selenium, Total                     | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.0002 | 0.001  | U Not Detected | mg/L  |
| <b>General Characteristics</b>        |         |           |             |          |       |        |        |                |       |
| * Solids, Dissolved                   | CES     | 5/16/2019 | SM 2540C    |          | 1     |        | 50     | 810            | mg/L  |
| Filter Completion Date                | CES     | 5/13/2019 | SM 2540C    |          | 1     |        |        | 05/13/2019     | Date  |
| * Chloride                            | JCC     | 5/14/2019 | SM4500CI E  |          | 10    | 5.00   | 10     | 180            | mg/L  |
| * Fluoride                            | JCC     | 5/14/2019 | SM4500F C   |          | 1     | 0.05   | 0.1    | J 0.0937       | mg/L  |
| * Sulfate                             | JCC     | 5/15/2019 | SM4500SO4 E |          | 16    | 8.00   | 16     | 351            | mg/L  |
| <b>Field Measurements</b>             |         |           |             |          |       |        |        |                |       |
| pH                                    | AWG     | 5/7/2019  |             |          |       |        |        | FA 7.57        | SU    |

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Laboratory certification ID: E571114

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Expiration: June 30, 2019

Comments:

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

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 07-May-19  
 Customer ID:  
 Delivery Date: 09-May-19

Description: Gaston Ash Pond - MW-15R

Laboratory ID Number: AZ11491

| Sample  | Analysis               | Units | MB          |          | MS    | MSD     | LCS     | LCS Limit | Rec              |       | Prec Limit |        |    |
|---------|------------------------|-------|-------------|----------|-------|---------|---------|-----------|------------------|-------|------------|--------|----|
|         |                        |       | MB          | Limit    |       |         |         |           | Rec              | Limit |            |        |    |
| AZ11492 | Arsenic, Total         | mg/L  | 0.00000678  | 0.0022   | 0.10  | 0.103   | 0.103   | 0.108     | 0.085 to 0.115   | 103   | 70 to 130  | 0.0636 | 20 |
| AZ11492 | Barium, Total          | mg/L  | 0.00000536  | 0.0044   | 0.10  | 0.0894  | 0.0902  | 0.0918    | 0.085 to 0.115   | 89.4  | 70 to 130  | 0.964  | 20 |
| AZ11492 | Beryllium, Total       | mg/L  | 0.00000835  | 0.00132  | 0.10  | 0.100   | 0.101   | 0.102     | 0.085 to 0.115   | 100   | 70 to 130  | 0.270  | 20 |
| AZ11492 | Boron, Total           | mg/L  | 0.00265     | 0.065025 | 1.00  | 0.962   | 0.970   | 0.971     | 0.85 to 1.15     | 96.2  | 70 to 130  | 0.812  | 20 |
| AZ11492 | Calcium, Total         | mg/L  | 0.00784     | 0.216749 | 5.00  | 5.15    | 5.22    | 4.98      | 4.25 to 5.75     | 103   | 70 to 130  | 1.44   | 20 |
| AZ11492 | Cadmium, Total         | mg/L  | 0.00000210  | 0.00066  | 0.10  | 0.100   | 0.102   | 0.102     | 0.085 to 0.115   | 100   | 70 to 130  | 1.43   | 20 |
| AZ11492 | Cobalt, Total          | mg/L  | -0.00000168 | 0.0044   | 0.10  | 0.103   | 0.103   | 0.102     | 0.085 to 0.115   | 103   | 70 to 130  | 0.316  | 20 |
| AZ11492 | Chromium, Total        | mg/L  | 0.000173    | 0.0044   | 0.10  | 0.100   | 0.0992  | 0.101     | 0.085 to 0.115   | 100   | 70 to 130  | 1.16   | 20 |
| AZ11492 | Mercury, Total by CVAA | mg/L  | 0.0000375   | 0.0005   | 0.004 | 0.00443 | 0.00459 | 0.00428   | 0.0034 to 0.0046 | 111   | 70 to 130  | 3.55   | 20 |
| AZ11492 | Lithium, Total         | mg/L  | -0.000132   | 0.019704 | 0.20  | 0.199   | 0.201   | 0.192     | 0.17 to 0.23     | 99.5  | 70 to 130  | 0.784  | 20 |
| AZ11492 | Molybdenum, Total      | mg/L  | 0.0000118   | 0.0044   | 0.10  | 0.104   | 0.100   | 0.103     | 0.085 to 0.115   | 104   | 70 to 130  | 3.19   | 20 |
| AZ11492 | Lead, Total            | mg/L  | 0.00000709  | 0.0022   | 0.10  | 0.103   | 0.105   | 0.105     | 0.085 to 0.115   | 103   | 70 to 130  | 2.37   | 20 |
| AZ11492 | Antimony, Total        | mg/L  | 0.000158    | 0.00176  | 0.10  | 0.0918  | 0.0938  | 0.0945    | 0.085 to 0.115   | 90.8  | 70 to 130  | 2.14   | 20 |
| AZ11492 | Selenium, Total        | mg/L  | 0.0000724   | 0.0044   | 0.10  | 0.102   | 0.102   | 0.110     | 0.085 to 0.115   | 102   | 70 to 130  | 0.0973 | 20 |
| AZ11492 | Thallium, Total        | mg/L  | 0.00000299  | 0.00044  | 0.10  | 0.100   | 0.103   | 0.107     | 0.085 to 0.115   | 100   | 70 to 130  | 2.96   | 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  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 07-May-19  
 Customer ID:  
 Delivery Date: 09-May-19

Description: Gaston Ash Pond - MW-15R

Laboratory ID Number: AZ11491

| Sample  | Analysis          | Units | MB     | MB Limit | Spike | MS   | Sample Duplicate | LCS  | LCS Limit    | Rec  | Rec Limit | Prec  | Prec Limit |
|---------|-------------------|-------|--------|----------|-------|------|------------------|------|--------------|------|-----------|-------|------------|
| AZ11491 | Solids, Dissolved | mg/L  | 2.00   | 25       |       |      | 814              | 51.0 | 40 to 60     |      |           | 0.246 | 5          |
| AZ11492 | Chloride          | mg/L  | 0.0579 | 0.50     | 10.0  | 9.82 | 0.085            | 10.3 | 9 to 11      | 98.2 | 80 to 120 | 0.00  | 20         |
| AZ11492 | Fluoride          | mg/L  | 0.0183 | 0.05     | 2.50  | 2.40 | 0.0183           | 2.70 | 2.25 to 2.75 | 96.0 | 80 to 120 | 0.00  | 20         |
| AZ11492 | Sulfate           | mg/L  | -0.477 | 0.50     | 20.0  | 19.3 | -0.466           | 19.7 | 18 to 22     | 96.5 | 80 to 120 | 0.00  | 20         |

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CC:

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 FAX (205) 664-6108

**Certificate Of Analysis**  **Alabama Power**



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAPEB  
 Sample Date: 09-May-19  
 Customer ID:  
 Delivery Date: 09-May-19

Description: Gaston Ash Pond Equipment Blank

Laboratory ID Number: AZ11492

| Name                                  | Analyst | Test Date | Reference   | Vio Spec | DF    | MDL    | RL     | Q | Results      | Units |
|---------------------------------------|---------|-----------|-------------|----------|-------|--------|--------|---|--------------|-------|
| <b>Metals, Cyanide, Total Phenols</b> |         |           |             |          |       |        |        |   |              |       |
| * Arsenic, Total                      | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U | Not Detected | mg/L  |
| * Barium, Total                       | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U | Not Detected | mg/L  |
| * Beryllium, Total                    | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.0006 | 0.003  | U | Not Detected | mg/L  |
| * Boron, Total                        | RDA     | 5/14/2019 | EPA 200.7   |          | 2.03  | 0.0609 | 0.203  | U | Not Detected | mg/L  |
| * Calcium, Total                      | RDA     | 5/14/2019 | EPA 200.7   |          | 2.03  | 0.203  | 1.015  | U | Not Detected | mg/L  |
| * Cadmium, Total                      | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.0003 | 0.001  | U | Not Detected | mg/L  |
| * Antimony, Total                     | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.0008 | 0.003  | J | 0.00100      | mg/L  |
| * Cobalt, Total                       | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.002  | 0.005  | U | Not Detected | mg/L  |
| * Chromium, Total                     | DLJ     | 5/23/2019 | 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                      | RDA     | 5/14/2019 | EPA 200.7   |          | 2.03  | 0.0203 | 0.0406 | U | Not Detected | mg/L  |
| * Molybdenum, Total                   | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U | Not Detected | mg/L  |
| * Lead, Total                         | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.001  | 0.005  | U | Not Detected | mg/L  |
| * Selenium, Total                     | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.002  | 0.01   | U | Not Detected | mg/L  |
| * Thallium, Total                     | DLJ     | 5/23/2019 | EPA 200.8   |          | 5.075 | 0.0002 | 0.001  | U | Not Detected | mg/L  |
| <b>General Characteristics</b>        |         |           |             |          |       |        |        |   |              |       |
| * Solids, Dissolved                   | CES     | 5/16/2019 | SM 2540C    |          | 1     |        | 25     | U | Not Detected | mg/L  |
| Filter Completion Date                | CES     | 5/13/2019 | SM 2540C    |          | 1     |        |        |   | 05/13/2019   | Date  |
| * Chloride                            | JCC     | 5/14/2019 | SM4500Cl E  |          | 1     | 0.50   | 1      | U | Not Detected | mg/L  |
| * Fluoride                            | JCC     | 5/14/2019 | 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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 FAX (205) 664-6108

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAPEB  
 Sample Date: 09-May-19  
 Customer ID:  
 Delivery Date: 09-May-19

Description: Gaston Ash Pond Equipment Blank

Laboratory ID Number: AZ11492

| Sample  | Analysis               | Units | MB          |          | MS    | MSD     | LCS     | LCS     | Rec              |      | Prec      | Limit  |    |
|---------|------------------------|-------|-------------|----------|-------|---------|---------|---------|------------------|------|-----------|--------|----|
|         |                        |       | MB          | Limit    |       |         |         |         | Limit            | Prec |           |        |    |
| AZ11492 | Arsenic, Total         | mg/L  | 0.00000678  | 0.0022   | 0.10  | 0.103   | 0.103   | 0.108   | 0.085 to 0.115   | 103  | 70 to 130 | 0.0636 | 20 |
| AZ11492 | Barium, Total          | mg/L  | 0.00000536  | 0.0044   | 0.10  | 0.0894  | 0.0902  | 0.0918  | 0.085 to 0.115   | 89.4 | 70 to 130 | 0.964  | 20 |
| AZ11492 | Beryllium, Total       | mg/L  | 0.00000835  | 0.00132  | 0.10  | 0.100   | 0.101   | 0.102   | 0.085 to 0.115   | 100  | 70 to 130 | 0.270  | 20 |
| AZ11492 | Boron, Total           | mg/L  | 0.00265     | 0.065025 | 1.00  | 0.962   | 0.970   | 0.971   | 0.85 to 1.15     | 96.2 | 70 to 130 | 0.812  | 20 |
| AZ11492 | Calcium, Total         | mg/L  | 0.00784     | 0.216749 | 5.00  | 5.15    | 5.22    | 4.98    | 4.25 to 5.75     | 103  | 70 to 130 | 1.44   | 20 |
| AZ11492 | Cadmium, Total         | mg/L  | 0.00000210  | 0.00066  | 0.10  | 0.100   | 0.102   | 0.102   | 0.085 to 0.115   | 100  | 70 to 130 | 1.43   | 20 |
| AZ11492 | Cobalt, Total          | mg/L  | -0.00000168 | 0.0044   | 0.10  | 0.103   | 0.103   | 0.102   | 0.085 to 0.115   | 103  | 70 to 130 | 0.316  | 20 |
| AZ11492 | Chromium, Total        | mg/L  | 0.000173    | 0.0044   | 0.10  | 0.100   | 0.0992  | 0.101   | 0.085 to 0.115   | 100  | 70 to 130 | 1.16   | 20 |
| AZ11492 | Mercury, Total by CVAA | mg/L  | 0.0000375   | 0.0005   | 0.004 | 0.00443 | 0.00459 | 0.00428 | 0.0034 to 0.0046 | 111  | 70 to 130 | 3.55   | 20 |
| AZ11492 | Lithium, Total         | mg/L  | -0.000132   | 0.019704 | 0.20  | 0.199   | 0.201   | 0.192   | 0.17 to 0.23     | 99.5 | 70 to 130 | 0.784  | 20 |
| AZ11492 | Molybdenum, Total      | mg/L  | 0.0000118   | 0.0044   | 0.10  | 0.104   | 0.100   | 0.103   | 0.085 to 0.115   | 104  | 70 to 130 | 3.19   | 20 |
| AZ11492 | Lead, Total            | mg/L  | 0.00000709  | 0.0022   | 0.10  | 0.103   | 0.105   | 0.105   | 0.085 to 0.115   | 103  | 70 to 130 | 2.37   | 20 |
| AZ11492 | Antimony, Total        | mg/L  | 0.000158    | 0.00176  | 0.10  | 0.0918  | 0.0938  | 0.0945  | 0.085 to 0.115   | 90.8 | 70 to 130 | 2.14   | 20 |
| AZ11492 | Selenium, Total        | mg/L  | 0.0000724   | 0.0044   | 0.10  | 0.102   | 0.102   | 0.110   | 0.085 to 0.115   | 102  | 70 to 130 | 0.0973 | 20 |
| AZ11492 | Thallium, Total        | mg/L  | 0.00000299  | 0.00044  | 0.10  | 0.100   | 0.103   | 0.107   | 0.085 to 0.115   | 100  | 70 to 130 | 2.96   | 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:**

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  
 Lauren Parker

Customer Account: WMWGASAPEB  
 Sample Date: 09-May-19  
 Customer ID:  
 Delivery Date: 09-May-19

Description: Gaston Ash Pond Equipment Blank

Laboratory ID Number: AZ11492

| Sample  | Analysis          | Units | MB     | MB Limit | Spike | MS   | Sample Duplicate | LCS  | LCS Limit    | Rec  | Rec Limit | Prec  | Prec Limit |
|---------|-------------------|-------|--------|----------|-------|------|------------------|------|--------------|------|-----------|-------|------------|
| AZ11491 | Solids, Dissolved | mg/L  | 2.00   | 25       |       |      | 814              | 51.0 | 40 to 60     |      |           | 0.246 | 5          |
| AZ11492 | Chloride          | mg/L  | 0.0579 | 0.50     | 10.0  | 9.82 | 0.085            | 10.3 | 9 to 11      | 98.2 | 80 to 120 | 0.00  | 20         |
| AZ11492 | Fluoride          | mg/L  | 0.0183 | 0.05     | 2.50  | 2.40 | 0.0183           | 2.70 | 2.25 to 2.75 | 96.0 | 80 to 120 | 0.00  | 20         |
| AZ11492 | Sulfate           | mg/L  | -0.477 | 0.50     | 20.0  | 19.3 | -0.466           | 19.7 | 18 to 22     | 96.5 | 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:



| 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  
 Lab Complete

Outside Lab

Lab ETA 05/09/2019 11:55

|                         |                   |              |                                       |
|-------------------------|-------------------|--------------|---------------------------------------|
| Requested Complete Date | Routine           | Results To   | Dustin Brooks,Greg Dyer,Lauren Parker |
| Site Representative     | Tanisha Fenderson | Requested By | Lauren Parker                         |
| Collector               | Anthony Goggins   | Location     | Gaston 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 time to 10:30 for EB-1. LBM 05/09/2019

| Sample #  | Date       | Time  | Bottle Count | Description      | Lab Filter | Lab Id  |
|-----------|------------|-------|--------------|------------------|------------|---------|
| FB-1      | 5/7/19     | 11:00 | 4            | Field Blank      |            | AZ11489 |
| MW-15RDUP | 05/07/2019 | 11:20 | 4            | Sample Duplicate |            | AZ11490 |
| MW-15R    | 05/07/2019 | 11:20 | 4            | Groundwater      |            | AZ11491 |
| EB-1      | 05/09/2019 | 10:30 | 4            | Equipment Blank  |            | AZ11492 |
|           |            |       |              |                  |            |         |
|           |            |       |              |                  |            |         |
|           |            |       |              |                  |            |         |
|           |            |       |              |                  |            |         |
|           |            |       |              |                  |            |         |
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|           |            |       |              |                  |            |         |
|           |            |       |              |                  |            |         |

|                 |             |                  |
|-----------------|-------------|------------------|
| Relinquished By | Received By | Date/Time        |
|                 |             | 05/09/2019 14:29 |
|                 |             |                  |
|                 |             |                  |

|              |                |
|--------------|----------------|
| SmarTroll ID | 7151-38849-2-1 |
| Turbidity ID | 5160-26211-1-1 |
| Sample Event | 1221           |

All metals and radiological bottles have pH < 2

|                |                |
|----------------|----------------|
| Cooler Temp    | 3.1 degrees C  |
| Thermometer ID | 6603-34819-1-1 |
| pH Strip ID    | 7260-39349-1-1 |



# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA **05/09/2019 14:00**

|                         |                            |  |            |                                         |  |
|-------------------------|----------------------------|--|------------|-----------------------------------------|--|
| Requested Complete Date | Routine                    |  | Results To | Dustin Brooks, Greg Dyer, Lauren Parker |  |
|                         | Tanisha Fenderson          |  |            | Requested By                            |  |
|                         | Collector: Anthony Goggins |  |            | Location: Gaston 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 MW15R. Correcting time to 10:30 for EB-1. LBM 05/09/2019 |
|----------|-------------------------------------------------------------------------------------|

| Sample #  | Date       | Time  | Bottle Count | Description      | Lab Filter | Lab Id  |
|-----------|------------|-------|--------------|------------------|------------|---------|
| FB-1      | 5/7/19     | 11:00 | 1            | Field Blank      |            | AZ11493 |
| MW-15RDUP | 05/07/2019 | 11:20 | 1            | Sample Duplicate |            | AZ11494 |
| MW-15R    | 05/07/2019 | 11:20 | 3            | Groundwater      |            | AZ11495 |
| EB-1      | 05/09/2019 | 10:30 | 1            | Equipment Blank  |            | AZ11496 |
|           |            |       |              |                  |            |         |
|           |            |       |              |                  |            |         |
|           |            |       |              |                  |            |         |
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|           |            |       |              |                  |            |         |

|                 |             |                  |
|-----------------|-------------|------------------|
| Relinquished By | Received By | Date/Time        |
|                 |             | 05/09/2019 14:32 |
|                 |             |                  |
|                 |             |                  |

|              |                |                                                                                     |                |
|--------------|----------------|-------------------------------------------------------------------------------------|----------------|
| SmarTroll ID | 7151-38849-2-1 | All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/> |                |
| Turbidity ID | 5160-26211-1-1 |                                                                                     |                |
| Sample Event | 1221           | Cooler Temp                                                                         | N/A            |
|              |                | Thermometer ID                                                                      | N/A            |
|              |                | 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: 400-170115-1  
Laboratory Sample Delivery Group: Gaston Ash Pond 1221  
Client Project/Site: CCR Plant Gaston

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 5:52:16 PM

Cheyenne Whitmire, Project Manager II  
(850)471-6222  
[cheyenne.whitmire@testamericainc.com](mailto: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 Gaston

Job ID: 400-170115-1  
SDG: Gaston Ash Pond 1221

---

**Job ID: 400-170115-1**

---

**Laboratory: Eurofins TestAmerica, Pensacola**

---

**Narrative**

---

**Job Narrative  
400-170115-1**

**RAD**

Method(s) 9315: Ra-226 Prep Batch 160-430399. 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. AZ11493 FB-1 (400-170115-1), AZ11494 MW-15R DUP (400-170115-2), AZ11495 MW-15R (400-170115-3), AZ11495 MW-15R (400-170115-3[DU]), AZ11496 EB-1 (400-170115-4), (LCS 160-430399/1-A), (MB 160-430399/24-A), (240-111424-I-5-A), (240-111424-J-5-A MS) and (240-111424-H-5-A MSD)

Method(s) 9320: Ra-228 Prep Batch 160-430424. 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. AZ11493 FB-1 (400-170115-1), AZ11494 MW-15R DUP (400-170115-2), AZ11495 MW-15R (400-170115-3), AZ11495 MW-15R (400-170115-3[DU]), AZ11496 EB-1 (400-170115-4), (LCS 160-430424/1-A), (MB 160-430424/24-A), (240-111424-I-5-B), (240-111424-J-5-B MS) and (240-111424-H-5-B MSD)





# Method Summary

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

Job ID: 400-170115-1  
SDG: Gaston Ash Pond 1221

| 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 Gaston

Job ID: 400-170115-1  
SDG: Gaston Ash Pond 1221

| Lab Sample ID | Client Sample ID   | Matrix | Collected      | Received       | Asset ID |
|---------------|--------------------|--------|----------------|----------------|----------|
| 400-170115-1  | AZ11493 FB-1       | Water  | 05/07/19 11:00 | 05/13/19 08:54 |          |
| 400-170115-2  | AZ11494 MW-15R DUP | Water  | 05/07/19 11:20 | 05/13/19 08:54 |          |
| 400-170115-3  | AZ11495 MW-15R     | Water  | 05/07/19 11:20 | 05/13/19 08:54 |          |
| 400-170115-4  | AZ11496 EB-1       | Water  | 05/09/19 10:30 | 05/13/19 08:54 |          |

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# Client Sample Results

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

Job ID: 400-170115-1  
 SDG: Gaston Ash Pond 1221

**Client Sample ID: AZ11493 FB-1**

**Lab Sample ID: 400-170115-1**

Date Collected: 05/07/19 11:00

Matrix: Water

Date Received: 05/13/19 08:54

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

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-226     | -0.239        | U                | 0.151                       | 0.152                       | 1.00 | 0.390 | pCi/L | 05/31/19 10:57  | 08/15/19 19:48  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 96.0          |                  | 40 - 110                    |                             |      |       |       | 05/31/19 10:57  | 08/15/19 19:48  | 1              |

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

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228     | 0.153         | U                | 0.201                       | 0.202                       | 1.00 | 0.335 | pCi/L | 05/31/19 12:46  | 08/15/19 08:36  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 96.0          |                  | 40 - 110                    |                             |      |       |       | 05/31/19 12:46  | 08/15/19 08:36  | 1              |
| Y Carrier      | 96.1          |                  | 40 - 110                    |                             |      |       |       | 05/31/19 12:46  | 08/15/19 08:36  | 1              |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result  | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | -0.0855 | U         | 0.251                       | 0.253                       | 5.00 | 0.390 | pCi/L |          | 08/16/19 09:02 | 1       |

# Client Sample Results

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

Job ID: 400-170115-1  
 SDG: Gaston Ash Pond 1221

**Client Sample ID: AZ11494 MW-15R DUP**

**Lab Sample ID: 400-170115-2**

Date Collected: 05/07/19 11:20

Matrix: Water

Date Received: 05/13/19 08:54

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

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-226     | -0.0552       | U                | 0.156                       | 0.156                       | 1.00 | 0.335 | pCi/L | 05/31/19 10:57  | 08/15/19 19:48  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 96.6          |                  | 40 - 110                    |                             |      |       |       | 05/31/19 10:57  | 08/15/19 19:48  | 1              |

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

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228     | 0.559         |                  | 0.246                       | 0.252                       | 1.00 | 0.354 | pCi/L | 05/31/19 12:46  | 08/15/19 08:36  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 96.6          |                  | 40 - 110                    |                             |      |       |       | 05/31/19 12:46  | 08/15/19 08:36  | 1              |
| Y Carrier      | 89.0          |                  | 40 - 110                    |                             |      |       |       | 05/31/19 12:46  | 08/15/19 08:36  | 1              |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium<br>226 + 228 | 0.504  |           | 0.291                       | 0.296                       | 5.00 | 0.354 | pCi/L |          | 08/16/19 09:02 | 1       |

# Client Sample Results

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

Job ID: 400-170115-1  
 SDG: Gaston Ash Pond 1221

**Client Sample ID: AZ11495 MW-15R**

**Lab Sample ID: 400-170115-3**

Date Collected: 05/07/19 11:20

Matrix: Water

Date Received: 05/13/19 08:54

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

| Analyte           | Result       | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|-------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| <b>Radium-226</b> | <b>0.595</b> |           | 0.254                       | 0.260                       | 1.00 | 0.273 | pCi/L | 05/31/19 10:57 | 08/15/19 19:48 | 1       |
| Carrier           | %Yield       | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier        | 89.5         |           | 40 - 110                    |                             |      |       |       | 05/31/19 10:57 | 08/15/19 19:48 | 1       |

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

| Analyte           | Result       | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|-------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| <b>Radium-228</b> | <b>0.768</b> |           | 0.266                       | 0.275                       | 1.00 | 0.358 | pCi/L | 05/31/19 12:46 | 08/15/19 08:36 | 1       |
| Carrier           | %Yield       | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier        | 89.5         |           | 40 - 110                    |                             |      |       |       | 05/31/19 12:46 | 08/15/19 08:36 | 1       |
| Y Carrier         | 95.0         |           | 40 - 110                    |                             |      |       |       | 05/31/19 12:46 | 08/15/19 08:36 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                              | Result      | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|-------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| <b>Combined Radium<br/>226 + 228</b> | <b>1.36</b> |           | 0.368                       | 0.378                       | 5.00 | 0.358 | pCi/L |          | 08/16/19 09:02 | 1       |

# Client Sample Results

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

Job ID: 400-170115-1  
 SDG: Gaston Ash Pond 1221

**Client Sample ID: AZ11496 EB-1**

**Lab Sample ID: 400-170115-4**

Date Collected: 05/09/19 10:30

Matrix: Water

Date Received: 05/13/19 08:54

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | -0.106 | U         | 0.116                       | 0.117                       | 1.00 | 0.293 | pCi/L | 05/31/19 10:57 | 08/15/19 19:48 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 98.0   |           | 40 - 110                    |                             |      |       |       | 05/31/19 10:57 | 08/15/19 19:48 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.0525 | U         | 0.179                       | 0.179                       | 1.00 | 0.314 | pCi/L | 05/31/19 12:46 | 08/15/19 08:36 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 98.0   |           | 40 - 110                    |                             |      |       |       | 05/31/19 12:46 | 08/15/19 08:36 | 1       |
| Y Carrier  | 90.8   |           | 40 - 110                    |                             |      |       |       | 05/31/19 12:46 | 08/15/19 08:36 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result  | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | -0.0535 | U         | 0.213                       | 0.214                       | 5.00 | 0.314 | pCi/L |          | 08/16/19 09:02 | 1       |

# Definitions/Glossary

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

Job ID: 400-170115-1  
SDG: Gaston Ash Pond 1221

## 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 Gaston

Job ID: 400-170115-1  
SDG: Gaston Ash Pond 1221

**Client Sample ID: AZ11493 FB-1**

**Lab Sample ID: 400-170115-1**

**Date Collected: 05/07/19 11:00**

**Matrix: Water**

**Date Received: 05/13/19 08:54**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 430399       | 05/31/19 10:57       | ORM     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 439623       | 08/15/19 19:48       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 430424       | 05/31/19 12:46       | ORM     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 439664       | 08/15/19 08:36       | KLS     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 439723       | 08/16/19 09:02       | SMP     | TAL SL |

**Client Sample ID: AZ11494 MW-15R DUP**

**Lab Sample ID: 400-170115-2**

**Date Collected: 05/07/19 11:20**

**Matrix: Water**

**Date Received: 05/13/19 08:54**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 430399       | 05/31/19 10:57       | ORM     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 439623       | 08/15/19 19:48       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 430424       | 05/31/19 12:46       | ORM     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 439664       | 08/15/19 08:36       | KLS     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 439723       | 08/16/19 09:02       | SMP     | TAL SL |

**Client Sample ID: AZ11495 MW-15R**

**Lab Sample ID: 400-170115-3**

**Date Collected: 05/07/19 11:20**

**Matrix: Water**

**Date Received: 05/13/19 08:54**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 430399       | 05/31/19 10:57       | ORM     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 439623       | 08/15/19 19:48       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 430424       | 05/31/19 12:46       | ORM     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 439664       | 08/15/19 08:36       | KLS     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 439723       | 08/16/19 09:02       | SMP     | TAL SL |

**Client Sample ID: AZ11496 EB-1**

**Lab Sample ID: 400-170115-4**

**Date Collected: 05/09/19 10:30**

**Matrix: Water**

**Date Received: 05/13/19 08:54**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 430399       | 05/31/19 10:57       | ORM     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 439623       | 08/15/19 19:48       | CDR     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 430424       | 05/31/19 12:46       | ORM     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 439664       | 08/15/19 08:36       | KLS     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 439723       | 08/16/19 09:02       | 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 Gaston

Job ID: 400-170115-1  
SDG: Gaston Ash Pond 1221

## Rad

### Prep Batch: 430399

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method     | Prep Batch |
|----------------------|------------------------|-----------|--------|------------|------------|
| 400-170115-1         | AZ11493 FB-1           | Total/NA  | Water  | PrecSep-21 |            |
| 400-170115-2         | AZ11494 MW-15R DUP     | Total/NA  | Water  | PrecSep-21 |            |
| 400-170115-3         | AZ11495 MW-15R         | Total/NA  | Water  | PrecSep-21 |            |
| 400-170115-4         | AZ11496 EB-1           | Total/NA  | Water  | PrecSep-21 |            |
| MB 160-430399/24-A   | Method Blank           | Total/NA  | Water  | PrecSep-21 |            |
| LCS 160-430399/1-A   | Lab Control Sample     | Total/NA  | Water  | PrecSep-21 |            |
| 240-111424-H-5-A MSD | Matrix Spike Duplicate | Total/NA  | Water  | PrecSep-21 |            |
| 240-111424-J-5-A MS  | Matrix Spike           | Total/NA  | Water  | PrecSep-21 |            |
| 400-170115-3 DU      | AZ11495 MW-15R         | Total/NA  | Water  | PrecSep-21 |            |

### Prep Batch: 430424

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method    | Prep Batch |
|----------------------|------------------------|-----------|--------|-----------|------------|
| 400-170115-1         | AZ11493 FB-1           | Total/NA  | Water  | PrecSep_0 |            |
| 400-170115-2         | AZ11494 MW-15R DUP     | Total/NA  | Water  | PrecSep_0 |            |
| 400-170115-3         | AZ11495 MW-15R         | Total/NA  | Water  | PrecSep_0 |            |
| 400-170115-4         | AZ11496 EB-1           | Total/NA  | Water  | PrecSep_0 |            |
| MB 160-430424/24-A   | Method Blank           | Total/NA  | Water  | PrecSep_0 |            |
| LCS 160-430424/1-A   | Lab Control Sample     | Total/NA  | Water  | PrecSep_0 |            |
| 240-111424-H-5-B MSD | Matrix Spike Duplicate | Total/NA  | Water  | PrecSep_0 |            |
| 240-111424-J-5-B MS  | Matrix Spike           | Total/NA  | Water  | PrecSep_0 |            |
| 400-170115-3 DU      | AZ11495 MW-15R         | Total/NA  | Water  | PrecSep_0 |            |

# QC Sample Results

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

Job ID: 400-170115-1  
 SDG: Gaston Ash Pond 1221

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

**Lab Sample ID: MB 160-430399/24-A**  
**Matrix: Water**  
**Analysis Batch: 439623**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 430399**

| Analyte    | MB      | MB        | Count           | Total           | RL   | MDC            | Unit           | Prepared       | Analyzed       | Dil Fac |
|------------|---------|-----------|-----------------|-----------------|------|----------------|----------------|----------------|----------------|---------|
|            | Result  | Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) |      |                |                |                |                |         |
| Radium-226 | 0.06015 | U         | 0.161           | 0.161           | 1.00 | 0.300          | pCi/L          | 05/31/19 10:57 | 08/15/19 19:48 | 1       |
| Carrier    | MB      | MB        | Limits          |                 |      | Prepared       | Analyzed       |                | Dil Fac        |         |
| Ba Carrier | %Yield  | Qualifier | 40 - 110        |                 |      | 05/31/19 10:57 | 08/15/19 19:48 |                | 1              |         |
|            | 95.5    |           |                 |                 |      |                |                |                |                |         |

**Lab Sample ID: LCS 160-430399/1-A**  
**Matrix: Water**  
**Analysis Batch: 439663**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 430399**

| Analyte    | Spike Added | LCS       | LCS      | Total           | RL   | MDC   | Unit  | %Rec | %Rec. Limits |
|------------|-------------|-----------|----------|-----------------|------|-------|-------|------|--------------|
|            |             | Result    | Qual     | Uncert. (2σ+/-) |      |       |       |      |              |
| Radium-226 | 11.4        | 12.22     |          | 1.49            | 1.00 | 0.327 | pCi/L | 108  | 75 - 125     |
| Carrier    | LCS         | LCS       | Limits   |                 |      |       |       |      |              |
| Ba Carrier | %Yield      | Qualifier | 40 - 110 |                 |      |       |       |      |              |
|            | 96.3        |           |          |                 |      |       |       |      |              |

**Lab Sample ID: 240-111424-H-5-A MSD**  
**Matrix: Water**  
**Analysis Batch: 439664**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 430399**

| Analyte    | Sample | Sample    | Spike    | MSD    | MSD  | Total           | RL   | MDC   | Unit  | %Rec | %Rec. Limits | RER  | Limit |
|------------|--------|-----------|----------|--------|------|-----------------|------|-------|-------|------|--------------|------|-------|
|            | Result | Qual      | Added    | Result | Qual | Uncert. (2σ+/-) |      |       |       |      |              |      |       |
| Radium-226 | 1.13   |           | 11.3     | 11.64  |      | 1.42            | 1.00 | 0.332 | pCi/L | 93   | 75 - 138     | 0.08 | 1     |
| Carrier    | MSD    | MSD       | Limits   |        |      |                 |      |       |       |      |              |      |       |
| Ba Carrier | %Yield | Qualifier | 40 - 110 |        |      |                 |      |       |       |      |              |      |       |
|            | 93.2   |           |          |        |      |                 |      |       |       |      |              |      |       |

**Lab Sample ID: 240-111424-J-5-A MS**  
**Matrix: Water**  
**Analysis Batch: 439664**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 430399**

| Analyte    | Sample | Sample    | Spike    | MS     | MS   | Total           | RL   | MDC   | Unit  | %Rec | %Rec. Limits |
|------------|--------|-----------|----------|--------|------|-----------------|------|-------|-------|------|--------------|
|            | Result | Qual      | Added    | Result | Qual | Uncert. (2σ+/-) |      |       |       |      |              |
| Radium-226 | 1.13   |           | 11.3     | 11.43  |      | 1.42            | 1.00 | 0.341 | pCi/L | 91   | 75 - 138     |
| Carrier    | MS     | MS        | Limits   |        |      |                 |      |       |       |      |              |
| Ba Carrier | %Yield | Qualifier | 40 - 110 |        |      |                 |      |       |       |      |              |
|            | 92.1   |           |          |        |      |                 |      |       |       |      |              |

**Lab Sample ID: 400-170115-3 DU**  
**Matrix: Water**  
**Analysis Batch: 439623**

**Client Sample ID: AZ11495 MW-15R**  
**Prep Type: Total/NA**  
**Prep Batch: 430399**

| Analyte    | Sample | Sample | DU     | DU   | Total           | RL   | MDC   | Unit  | RER  | Limit |
|------------|--------|--------|--------|------|-----------------|------|-------|-------|------|-------|
|            | Result | Qual   | Result | Qual | Uncert. (2σ+/-) |      |       |       |      |       |
| Radium-226 | 0.595  |        | 0.5489 |      | 0.253           | 1.00 | 0.274 | pCi/L | 0.09 | 1     |

# QC Sample Results

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

Job ID: 400-170115-1  
SDG: Gaston Ash Pond 1221

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

**Lab Sample ID: 400-170115-3 DU**  
**Matrix: Water**  
**Analysis Batch: 439623**

**Client Sample ID: AZ11495 MW-15R**  
**Prep Type: Total/NA**  
**Prep Batch: 430399**

| Carrier    | <i>DU</i><br>%Yield | <i>DU</i><br>Qualifier | Limits   |
|------------|---------------------|------------------------|----------|
| Ba Carrier | 96.0                |                        | 40 - 110 |

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

**Lab Sample ID: MB 160-430424/24-A**  
**Matrix: Water**  
**Analysis Batch: 439664**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 430424**

| Analyte    | MB<br>Result | MB<br>Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------------|-----------------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.04548      | U               | 0.208                       | 0.208                       | 1.00 | 0.365 | pCi/L | 05/31/19 12:46 | 08/15/19 08:37 | 1       |

| Carrier    | <i>MB</i><br>%Yield | <i>MB</i><br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------|---------------------|------------------------|----------|----------------|----------------|---------|
| Ba Carrier | 95.5                |                        | 40 - 110 | 05/31/19 12:46 | 08/15/19 08:37 | 1       |
| Y Carrier  | 90.1                |                        | 40 - 110 | 05/31/19 12:46 | 08/15/19 08:37 | 1       |

**Lab Sample ID: LCS 160-430424/1-A**  
**Matrix: Water**  
**Analysis Batch: 439663**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 430424**

| Analyte    | Spike<br>Added | LCS<br>Result | LCS<br>Qual | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | %Rec | %Rec.<br>Limits |
|------------|----------------|---------------|-------------|-----------------------------|------|-------|-------|------|-----------------|
| Radium-228 | 8.93           | 9.375         |             | 1.09                        | 1.00 | 0.418 | pCi/L | 105  | 75 - 125        |

| Carrier    | <i>LCS</i><br>%Yield | <i>LCS</i><br>Qualifier | Limits   |
|------------|----------------------|-------------------------|----------|
| Ba Carrier | 96.3                 |                         | 40 - 110 |
| Y Carrier  | 81.1                 |                         | 40 - 110 |

**Lab Sample ID: 240-111424-H-5-B MSD**  
**Matrix: Water**  
**Analysis Batch: 439663**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 430424**

| Analyte    | Sample<br>Result | Sample<br>Qual | Spike<br>Added | MSD<br>Result | MSD<br>Qual | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | %Rec | %Rec.<br>Limits | RER  | RER<br>Limit |
|------------|------------------|----------------|----------------|---------------|-------------|-----------------------------|------|-------|-------|------|-----------------|------|--------------|
| Radium-228 | 0.982            |                | 8.93           | 9.030         |             | 1.03                        | 1.00 | 0.329 | pCi/L | 90   | 45 - 150        | 0.04 | 1            |

| Carrier    | <i>MSD</i><br>%Yield | <i>MSD</i><br>Qualifier | Limits   |
|------------|----------------------|-------------------------|----------|
| Ba Carrier | 93.2                 |                         | 40 - 110 |
| Y Carrier  | 96.1                 |                         | 40 - 110 |

**Lab Sample ID: 240-111424-J-5-B MS**  
**Matrix: Water**  
**Analysis Batch: 439663**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 430424**

| Analyte    | Sample<br>Result | Sample<br>Qual | Spike<br>Added | MS<br>Result | MS<br>Qual | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | %Rec | %Rec.<br>Limits |
|------------|------------------|----------------|----------------|--------------|------------|-----------------------------|------|-------|-------|------|-----------------|
| Radium-228 | 0.982            |                | 8.93           | 8.945        |            | 1.03                        | 1.00 | 0.394 | pCi/L | 89   | 45 - 150        |

Eurofins TestAmerica, Pensacola

# QC Sample Results

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

Job ID: 400-170115-1  
 SDG: Gaston Ash Pond 1221

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

**Lab Sample ID: 240-111424-J-5-B MS**  
**Matrix: Water**  
**Analysis Batch: 439663**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 430424**

| Carrier    | MS MS  |           | Limits   |
|------------|--------|-----------|----------|
|            | %Yield | Qualifier |          |
| Ba Carrier | 92.1   |           | 40 - 110 |
| Y Carrier  | 98.3   |           | 40 - 110 |

**Lab Sample ID: 400-170115-3 DU**  
**Matrix: Water**  
**Analysis Batch: 439664**

**Client Sample ID: AZ11495 MW-15R**  
**Prep Type: Total/NA**  
**Prep Batch: 430424**

| Analyte    | Sample Result | Sample Qual | DU Result | DU Qual | Total Uncert. (2σ+/-) | RL   | MDC   | Unit  | RER  | RER   |
|------------|---------------|-------------|-----------|---------|-----------------------|------|-------|-------|------|-------|
|            |               |             |           |         |                       |      |       |       |      | Limit |
| Radium-228 | 0.768         |             | 0.6078    |         | 0.242                 | 1.00 | 0.330 | pCi/L | 0.31 | 1     |

| Carrier    | DU DU  |           | Limits   |
|------------|--------|-----------|----------|
|            | %Yield | Qualifier |          |
| Ba Carrier | 96.0   |           | 40 - 110 |
| Y Carrier  | 98.7   |           | 40 - 110 |

## Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228

**Lab Sample ID: 400-170115-3 DU**  
**Matrix: Water**  
**Analysis Batch: 439723**

**Client Sample ID: AZ11495 MW-15R**  
**Prep Type: Total/NA**

| Analyte                   | Sample Result | Sample Qual | DU Result | DU Qual | Total Uncert. (2σ+/-) | RL   | MDC   | Unit  | RER  | RER   |
|---------------------------|---------------|-------------|-----------|---------|-----------------------|------|-------|-------|------|-------|
|                           |               |             |           |         |                       |      |       |       |      | Limit |
| Combined Radium 226 + 228 | 1.36          |             | 1.157     |         | 0.350                 | 5.00 | 0.330 | pCi/L | 0.28 |       |

**TestAmerica Pensacola**  
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**Chain of Custody Record**



**TestAmerica**  
 THE LEADER IN ENVIRONMENTAL TESTING

**Client Information (Sub Contract Lab)**  
 Sampler: Anthony Goggins  
 Lab PM: Whitmyre, Cheyenne R  
 Client Contact: Laura Midditt  
 Phone: Cheyenne.whitmyre@testamericainc.com  
 E-Mail: Whitmyre, Cheyenne R  
 State of Origin: Alabama  
 COC No: 400-56525-24537-1  
 Page: Page 1 of 1  
 300 #

**Due Date Requested:**  
 TAT Requested (days): Routine  
 PO #: 205-664-6197  
 WO #: [Blank]  
 Project #: 40007143  
 DCR: [Blank]  
 SSON#: [Blank]  
 Address: Alabama Power General Test Laboratory  
 744 County Rd 87 GSC#8  
 City: Calera  
 State, Zip: AL, 35040  
 Email: lbmidditt@southarmco.com  
 Project Name: [Blank]  
 Site: Gaston Ash Pond 1221

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (Residual, Suspended, Dissolved, Other) | Field Filtered Sample (Yes or No) | Perform MRM/SD (Yes or No) | SM 4500 F <sub>C</sub> | SM 4500 CL <sub>E</sub> | SM 4500 SO <sub>4</sub> <sub>E</sub> | 9315_RaZ28, 9320_RaZ28, RaZ28RaZ28_GFCP | Analysis Requested | Preservation Codes:                                                                                                                                                                                | Total Number of Containers | Special Instructions/Note:    |
|--------------------------------------------|-------------|-------------|------------------------------|------------------------------------------------|-----------------------------------|----------------------------|------------------------|-------------------------|--------------------------------------|-----------------------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------|
| AZ11483                                    | 5/7/19      | 11:00       | G                            | Water                                          |                                   | X                          |                        |                         |                                      | X                                       |                    | M - Hexene<br>N - None<br>O - Ash/AlO <sub>2</sub><br>P - Na2O4S<br>Q - Na2SO3<br>R - Na2SO4<br>S - H2SO4<br>T - TSP Dodecahydrate<br>U - Acetone<br>V - MCAA<br>W - pH 4-5<br>X - other (specify) | 1                          | FB-1 (Field Blank)            |
| AZ11484                                    | 5/7/19      | 11:20       | G                            | Water                                          |                                   | X                          |                        |                         |                                      | X                                       |                    | M - Hexene<br>N - None<br>O - Ash/AlO <sub>2</sub><br>P - Na2O4S<br>Q - Na2SO3<br>R - Na2SO4<br>S - H2SO4<br>T - TSP Dodecahydrate<br>U - Acetone<br>V - MCAA<br>W - pH 4-5<br>X - other (specify) | 1                          | MW-1SR DUP (Sample Duplicate) |
| AZ11485                                    | 5/7/19      | 11:20       | G                            | Water                                          |                                   | X                          |                        |                         |                                      | X                                       |                    | M - Hexene<br>N - None<br>O - Ash/AlO <sub>2</sub><br>P - Na2O4S<br>Q - Na2SO3<br>R - Na2SO4<br>S - H2SO4<br>T - TSP Dodecahydrate<br>U - Acetone<br>V - MCAA<br>W - pH 4-5<br>X - other (specify) | 3                          | MW-1SR                        |
| AZ11486                                    | 5/9/19      | 10:30       | G                            | Water                                          |                                   | X                          |                        |                         |                                      | X                                       |                    | M - Hexene<br>N - None<br>O - Ash/AlO <sub>2</sub><br>P - Na2O4S<br>Q - Na2SO3<br>R - Na2SO4<br>S - H2SO4<br>T - TSP Dodecahydrate<br>U - Acetone<br>V - MCAA<br>W - pH 4-5<br>X - other (specify) | 1                          | EB-1 (Equipment Blank)        |

**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 (QC Requirements):**  
**Emvat Kit Relinquished by:** Laura Midditt  
 Date/Time: 05/10/2019 10:40  
**Relinquished by:** [Signature]  
 Date/Time: [Blank]  
**Relinquished by:** [Signature]  
 Date/Time: 5-13-19 0854  
**Custody Seals Intact:** [Blank] **Custody Seal No.:** [Blank]  
 Cooler Temperature(s) °C and Other Remarks: 26.0°C - FA 8  
 Ver: 09/20/2016



## Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-170115-1  
SDG Number: Gaston Ash Pond 1221

**Login Number: 170115**

**List Source: Eurofins TestAmerica, Pensacola**

**List Number: 1**

**Creator: Conrady, Hank W**

| Question                                                                                            | Answer | Comment    |
|-----------------------------------------------------------------------------------------------------|--------|------------|
| Radioactivity wasn't checked or is <math>\leq</math> 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   | 2.6°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: 400-170115-1  
SDG Number: Gaston Ash Pond 1221

**Login Number: 170115**  
**List Number: 2**  
**Creator: Harris, Lorin C**

**List Source: Eurofins TestAmerica, St. Louis**  
**List Creation: 05/17/19 12:29 PM**

| Question                                                                                            | Answer | Comment |
|-----------------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.      | True   |         |
| The cooler's custody seal, if present, is intact.                                                   | True   |         |
| Sample custody seals, if present, are intact.                                                       | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.                      | True   |         |
| Samples were received on ice.                                                                       | False  |         |
| Cooler Temperature is acceptable.                                                                   | True   |         |
| Cooler Temperature is recorded.                                                                     | True   | 10.1    |
| 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 Gaston

Job ID: 400-170115-1  
 SDG: Gaston Ash Pond 1221

## 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 Gaston

Job ID: 400-170115-1  
 SDG: Gaston Ash Pond 1221

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

## ***Field Case Narrative***



### **E.C. Gaston Ash Pond**

#### **MW-20SV Fluoride Resample**

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:

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

Alabama Power General Test Laboratory  
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# Analytical Report



**Sample Group :** WMWGASAP\_1222  
**Project/Site :** Gaston Ash Pond  
Wilsonville, AL 35186  
**For :** Southern Company Services  
3535 Colonnade Parkway  
Birmingham, AL 35243  
**Attention :** Dustin Brooks, Greg Dyer, & Lauren Parker  
**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: 2019.05.31 14:55:27 -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: 2019.05.31 16:33:10 -0500



Anions

Gaston Ash Pond

WMWGASAP\_1222

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> |
|------------------|-----------------|-------------------|
| AZ11497          | 646204          | WMWGASAP_1222     |

4. All of the above samples were analyzed and prepared by SM4500 F C.
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. All samples were analyzed without dilution.

Alabama Power General Test Laboratory  
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# Certificate Of Analysis



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 07-May-19  
 Customer ID:  
 Delivery Date: 09-May-19

Description: Gaston Ash Pond - MW-20SV

Laboratory ID Number: AZ11497

| Name                           | Analyst | Test Date | Reference | Vio Spec | DF | MDL  | RL  | Q Results | Units |
|--------------------------------|---------|-----------|-----------|----------|----|------|-----|-----------|-------|
| <b>General Characteristics</b> |         |           |           |          |    |      |     |           |       |
| * Fluoride                     | JCC     | 5/13/2019 | SM4500F C |          | 1  | 0.05 | 0.1 | 0.101     | mg/L  |
| <b>Field Measurements</b>      |         |           |           |          |    |      |     |           |       |
| pH                             | AWG     | 5/7/2019  |           |          |    |      |     | FA 7.11   | 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) 664-6032 or 6171  
 FAX (205) 257-1654

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 07-May-19  
 Customer ID:  
 Delivery Date: 09-May-19

Description: Gaston Ash Pond - MW-20SV

Laboratory ID Number: AZ11497

| Sample | Analysis | Units | MB    | MB    | MS | MSD | LCS   | LCS | Rec   | Rec | Prec  | Prec |
|--------|----------|-------|-------|-------|----|-----|-------|-----|-------|-----|-------|------|
|        |          |       | Limit | Spike |    |     | Limit |     | Limit |     | Limit |      |

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

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2019

**Comments:**

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

## Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 07-May-19  
 Customer ID:  
 Delivery Date: 09-May-19

Description: Gaston Ash Pond - MW-20SV

Laboratory ID Number: AZ11497

| Sample  | Analysis | Units | MB     | MB Limit | Spike | MS   | Sample Duplicate | LCS  | LCS Limit    | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------|-------|--------|----------|-------|------|------------------|------|--------------|-----|-----------|------|------------|
| AZ11497 | Fluoride | mg/L  | 0.0251 | 0.05     | 2.50  | 2.75 | 0.101            | 2.62 | 2.25 to 2.75 | 106 | 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:



| 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  
 Lab Complete

Outside Lab

Lab ETA 05/09/2019 15:48

|                         |                   |              |                                         |
|-------------------------|-------------------|--------------|-----------------------------------------|
| Requested Complete Date | Routine           | Results To   | Dustin Brooks, Greg Dyer, Lauren Parker |
| Site Representative     | Tanisha Fenderson | Requested By | Lauren Parker                           |
| Collector               | Anthony Goggins   | Location     | Gaston Ash Pond                         |

|         |   |        |        |   |     |     |   |     |     |   |     |     |
|---------|---|--------|--------|---|-----|-----|---|-----|-----|---|-----|-----|
| Bottles | 1 | Anions | 250 mL | 3 | N/A | N/A | 5 | N/A | N/A | 7 | N/A | N/A |
|         | 2 | N/A    | N/A    | 4 | N/A | N/A | 6 | N/A | N/A | 8 | N/A | N/A |

Comments

| Sample # | Date   | Time  | Bottle Count | Description | Lab Filter | Lab Id  |
|----------|--------|-------|--------------|-------------|------------|---------|
| MW-20SV  | 5/7/19 | 09:58 | 1            | Groundwater |            | AZ11497 |
|          |        |       |              |             |            |         |
|          |        |       |              |             |            |         |
|          |        |       |              |             |            |         |
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|                 |             |                  |
|-----------------|-------------|------------------|
| Relinquished By | Received By | Date/Time        |
|                 |             | 05/09/2019 14:26 |
|                 |             |                  |
|                 |             |                  |

|              |                |                                                                          |
|--------------|----------------|--------------------------------------------------------------------------|
| SmarTroll ID | 7151-38849-2-1 | All metals and radiological bottles have pH < 2 <input type="checkbox"/> |
| Turbidity ID | 5160-26211-1-1 | Cooler Temp                                                              |
| Sample Event | 1222           | 3.1 degrees C                                                            |
|              |                | Thermometer ID                                                           |
|              |                | 6603-34819-1-1                                                           |
|              |                | pH Strip ID                                                              |
|              |                | N/A                                                                      |

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

## ***Field Case Narrative***



## **E.C. Gaston Ash Pond**

### **MW-1 TDS Resample**

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).

Due to low yield, MW-1 was sampled using the Minimal Purge Method, defined in the Plant Gaston Ash Pond SAP.

Field quality control procedures were performed as follows:

- Calibration verifications for all required field parameters were performed daily, before and after sample collection.

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

# Analytical Report



**Sample Group :** WMWGASAP\_1223  
**Project/Site :** Gaston Ash Pond  
Wilsonville, AL 35186  
**For :** Southern Company Services  
3535 Colonnade Parkway  
Birmingham, AL 35243  
**Attention :** Dustin Brooks, Greg Dyer, & Lauren Parker  
**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: 2019.05.31 14:52:37 -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: 2019.05.31 16:36:08 -0500



TDS

Gaston Ash Pond

WMWGASAP\_1223

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> |
|------------------|-----------------|-------------------|
| AZ11498          | 646428          | WMWGASAP_1223     |

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:
  - NA

Alabama Power 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  
 Lauren Parker

**Customer Account:** WMWGASAP  
**Sample Date:** 09-May-19  
**Customer ID:**  
**Delivery Date:** 09-May-19

**Description:** Gaston Ash Pond - MW-1

**Laboratory ID Number:** AZ11498

| Name                           | Analyst | Test Date | Reference | Vio Spec | DF | MDL | RL | Q Results  | Units |
|--------------------------------|---------|-----------|-----------|----------|----|-----|----|------------|-------|
| <b>General Characteristics</b> |         |           |           |          |    |     |    |            |       |
| Filter Completion Date         | CES     | 5/13/2019 | SM 2540C  |          | 1  |     |    | 05/13/2019 | Date  |
| * Solids, Dissolved            | CES     | 5/16/2019 | SM 2540C  |          | 1  |     | 25 | 302        | mg/L  |
| <b>Field Measurements</b>      |         |           |           |          |    |     |    |            |       |
| pH                             | AWG     | 5/9/2019  |           |          |    |     |    | FA 7.33    | 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) 664-6032 or 6171  
 FAX (205) 257-1654

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 09-May-19  
 Customer ID:  
 Delivery Date: 09-May-19

Description: Gaston Ash Pond - MW-1

Laboratory ID Number: AZ11498

| Sample | Analysis | Units | MB | Limit | Spike | MS | MSD | LCS | Limit | Rec | Limit | Prec | Limit |
|--------|----------|-------|----|-------|-------|----|-----|-----|-------|-----|-------|------|-------|
|--------|----------|-------|----|-------|-------|----|-----|-----|-------|-----|-------|------|-------|

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

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

\* 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

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**Comments:**

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

# Batch QC Summary



To: Dustin Brooks  
 Greg Dyer  
 Lauren Parker

Customer Account: WMWGASAP  
 Sample Date: 09-May-19  
 Customer ID:  
 Delivery Date: 09-May-19

Description: Gaston Ash Pond - MW-1

Laboratory ID Number: AZ11498

| Sample  | Analysis          | Units | MB   | MB    | Spike | MS | Sample    | LCS  | LCS      | Rec | Prec  | Prec  |   |
|---------|-------------------|-------|------|-------|-------|----|-----------|------|----------|-----|-------|-------|---|
|         |                   |       |      | Limit |       |    | Duplicate | LCS  | Limit    | Rec | Limit | Limit |   |
| AZ11498 | Solids, Dissolved | mg/L  | 2.00 | 25    |       |    | 298       | 51.0 | 40 to 60 |     |       | 0.667 | 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  
 Lab Complete

Outside Lab

Lab ETA 05/09/2019 11:59

|                         |                   |              |                                         |
|-------------------------|-------------------|--------------|-----------------------------------------|
| Requested Complete Date | Routine           | Results To   | Dustin Brooks, Greg Dyer, Lauren Parker |
| Site Representative     | Tanisha Fenderson | Requested By | Lauren Parker                           |
| Collector               | Anthony Goggins   | Location     | Gaston Ash Pond                         |

|         |   |     |        |   |     |     |   |     |     |   |     |     |
|---------|---|-----|--------|---|-----|-----|---|-----|-----|---|-----|-----|
| Bottles | 1 | TDS | 500 mL | 3 | N/A | N/A | 5 | N/A | N/A | 7 | N/A | N/A |
|         | 2 | N/A | N/A    | 4 | N/A | N/A | 6 | N/A | N/A | 8 | N/A | N/A |

Comments

| Sample # | Date   | Time  | Bottle Count | Description | Lab Filter | Lab Id  |
|----------|--------|-------|--------------|-------------|------------|---------|
| MW-1     | 5/9/19 | 10:26 | 1            | Groundwater |            | AZ11498 |
|          |        |       |              |             |            |         |
|          |        |       |              |             |            |         |
|          |        |       |              |             |            |         |
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|          |        |       |              |             |            |         |
|          |        |       |              |             |            |         |

|                 |             |                  |
|-----------------|-------------|------------------|
| Relinquished By | Received By | Date/Time        |
|                 |             | 05/09/2019 14:31 |
|                 |             |                  |
|                 |             |                  |

|              |                |                                                                          |
|--------------|----------------|--------------------------------------------------------------------------|
| SmarTroll ID | 7151-38849-2-1 | All metals and radiological bottles have pH < 2 <input type="checkbox"/> |
| Turbidity ID | 5160-26211-1-1 |                                                                          |
| Sample Event | 1223           |                                                                          |
|              |                |                                                                          |
|              | Cooler Temp    | 3.1 degrees C                                                            |
|              | Thermometer ID | 6603-34819-1-1                                                           |
|              | pH Strip ID    | N/A                                                                      |

**Alabama Power Company  
Plant Gaston Ash Pond**

| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-1     | 4/1/2019 14:40      | Conductivity                  | 511.3        | uS/cm       |
| GN-AP-MW-1     | 4/1/2019 14:40      | Depth to Water Detail         | 31.39        | ft          |
| GN-AP-MW-1     | 4/1/2019 14:40      | DO                            | 2.22         | mg/L        |
| GN-AP-MW-1     | 4/1/2019 14:40      | Oxidation Reduction Potention | -98.6        | mv          |
| GN-AP-MW-1     | 4/1/2019 14:40      | pH                            | 7.4          | pH          |
| GN-AP-MW-1     | 4/1/2019 14:40      | Temperature                   | 19.77        | C           |
| GN-AP-MW-1     | 4/1/2019 14:40      | Turbidity                     | 0.88         | NTU         |
| GN-AP-MW-1     | 4/1/2019 15:03      | Conductivity                  | 527.9        | uS/cm       |
| GN-AP-MW-1     | 4/1/2019 15:03      | Depth to Water Detail         | 34.59        | ft          |
| GN-AP-MW-1     | 4/1/2019 15:03      | DO                            | 0.3          | mg/L        |
| GN-AP-MW-1     | 4/1/2019 15:03      | Oxidation Reduction Potention | -120.1       | mv          |
| GN-AP-MW-1     | 4/1/2019 15:03      | pH                            | 7.41         | pH          |
| GN-AP-MW-1     | 4/1/2019 15:03      | Temperature                   | 20.41        | C           |
| GN-AP-MW-1     | 4/1/2019 15:03      | Turbidity                     | 0.45         | NTU         |

**Alabama Power Company  
Plant Gaston Ash Pond**

| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-2     | 4/1/2019 14:56      | Conductivity                  | 309.9        | uS/cm       |
| GN-AP-MW-2     | 4/1/2019 14:56      | Depth to Water Detail         | 15.48        | ft          |
| GN-AP-MW-2     | 4/1/2019 14:56      | DO                            | 4.38         | mg/L        |
| GN-AP-MW-2     | 4/1/2019 14:56      | Oxidation Reduction Potention | 37.1         | mv          |
| GN-AP-MW-2     | 4/1/2019 14:56      | pH                            | 7.74         | pH          |
| GN-AP-MW-2     | 4/1/2019 14:56      | Temperature                   | 17.58        | C           |
| GN-AP-MW-2     | 4/1/2019 14:56      | Turbidity                     | 0.47         | NTU         |
| GN-AP-MW-2     | 4/1/2019 15:01      | Conductivity                  | 311.3        | uS/cm       |
| GN-AP-MW-2     | 4/1/2019 15:01      | Depth to Water Detail         | 16.06        | ft          |
| GN-AP-MW-2     | 4/1/2019 15:01      | DO                            | 4.28         | mg/L        |
| GN-AP-MW-2     | 4/1/2019 15:01      | Oxidation Reduction Potention | 42.7         | mv          |
| GN-AP-MW-2     | 4/1/2019 15:01      | pH                            | 7.72         | pH          |
| GN-AP-MW-2     | 4/1/2019 15:01      | Temperature                   | 17.57        | C           |
| GN-AP-MW-2     | 4/1/2019 15:01      | Turbidity                     | 0.12         | NTU         |
| GN-AP-MW-2     | 4/1/2019 15:06      | Conductivity                  | 310.8        | uS/cm       |
| GN-AP-MW-2     | 4/1/2019 15:06      | Depth to Water Detail         | 16.4         | ft          |
| GN-AP-MW-2     | 4/1/2019 15:06      | DO                            | 4.51         | mg/L        |
| GN-AP-MW-2     | 4/1/2019 15:06      | Oxidation Reduction Potention | 46.2         | mv          |
| GN-AP-MW-2     | 4/1/2019 15:06      | pH                            | 7.72         | pH          |
| GN-AP-MW-2     | 4/1/2019 15:06      | Temperature                   | 17.59        | C           |
| GN-AP-MW-2     | 4/1/2019 15:06      | Turbidity                     | 0.42         | NTU         |
| GN-AP-MW-2     | 4/1/2019 15:11      | Conductivity                  | 309.3        | uS/cm       |
| GN-AP-MW-2     | 4/1/2019 15:11      | Depth to Water Detail         | 16.7         | ft          |
| GN-AP-MW-2     | 4/1/2019 15:11      | DO                            | 4.91         | mg/L        |
| GN-AP-MW-2     | 4/1/2019 15:11      | Oxidation Reduction Potention | 49.1         | mv          |
| GN-AP-MW-2     | 4/1/2019 15:11      | pH                            | 7.73         | pH          |
| GN-AP-MW-2     | 4/1/2019 15:11      | Temperature                   | 17.63        | C           |
| GN-AP-MW-2     | 4/1/2019 15:11      | Turbidity                     | 0.04         | NTU         |
| GN-AP-MW-2     | 4/1/2019 15:16      | Conductivity                  | 307.8        | uS/cm       |
| GN-AP-MW-2     | 4/1/2019 15:16      | Depth to Water Detail         | 16.91        | ft          |
| GN-AP-MW-2     | 4/1/2019 15:16      | DO                            | 5.36         | mg/L        |
| GN-AP-MW-2     | 4/1/2019 15:16      | Oxidation Reduction Potention | 52           | mv          |
| GN-AP-MW-2     | 4/1/2019 15:16      | pH                            | 7.74         | pH          |
| GN-AP-MW-2     | 4/1/2019 15:16      | Temperature                   | 17.59        | C           |
| GN-AP-MW-2     | 4/1/2019 15:16      | Turbidity                     | 0            | NTU         |
| GN-AP-MW-2     | 4/1/2019 15:21      | Conductivity                  | 306.3        | uS/cm       |
| GN-AP-MW-2     | 4/1/2019 15:21      | Depth to Water Detail         | 17.04        | ft          |
| GN-AP-MW-2     | 4/1/2019 15:21      | DO                            | 5.72         | mg/L        |
| GN-AP-MW-2     | 4/1/2019 15:21      | Oxidation Reduction Potention | 54.4         | mv          |
| GN-AP-MW-2     | 4/1/2019 15:21      | pH                            | 7.75         | pH          |
| GN-AP-MW-2     | 4/1/2019 15:21      | Temperature                   | 17.74        | C           |
| GN-AP-MW-2     | 4/1/2019 15:21      | Turbidity                     | 0            | NTU         |
| GN-AP-MW-2     | 4/1/2019 15:26      | Conductivity                  | 305.2        | uS/cm       |
| GN-AP-MW-2     | 4/1/2019 15:26      | Depth to Water Detail         | 17.19        | ft          |

**Alabama Power Company  
Plant Gaston Ash Pond**

| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-2     | 4/1/2019 15:26      | DO                            | 5.96         | mg/L        |
| GN-AP-MW-2     | 4/1/2019 15:26      | Oxidation Reduction Potention | 56.2         | mv          |
| GN-AP-MW-2     | 4/1/2019 15:26      | pH                            | 7.76         | pH          |
| GN-AP-MW-2     | 4/1/2019 15:26      | Temperature                   | 17.77        | C           |
| GN-AP-MW-2     | 4/1/2019 15:26      | Turbidity                     | 0            | NTU         |
| GN-AP-MW-2     | 4/1/2019 15:31      | Conductivity                  | 304.4        | uS/cm       |
| GN-AP-MW-2     | 4/1/2019 15:31      | Depth to Water Detail         | 17.27        | ft          |
| GN-AP-MW-2     | 4/1/2019 15:31      | DO                            | 6.11         | mg/L        |
| GN-AP-MW-2     | 4/1/2019 15:31      | Oxidation Reduction Potention | 57.8         | mv          |
| GN-AP-MW-2     | 4/1/2019 15:31      | pH                            | 7.76         | pH          |
| GN-AP-MW-2     | 4/1/2019 15:31      | Temperature                   | 17.77        | C           |
| GN-AP-MW-2     | 4/1/2019 15:31      | Turbidity                     | 0            | NTU         |

**Alabama Power Company  
Plant Gaston Ash Pond**

| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-3     | 4/2/2019 15:30      | Conductivity                  | 270.1        | uS/cm       |
| GN-AP-MW-3     | 4/2/2019 15:30      | Depth to Water Detail         | 18.31        | ft          |
| GN-AP-MW-3     | 4/2/2019 15:30      | DO                            | 4.68         | mg/L        |
| GN-AP-MW-3     | 4/2/2019 15:30      | Oxidation Reduction Potention | 52.5         | mv          |
| GN-AP-MW-3     | 4/2/2019 15:30      | pH                            | 7.77         | pH          |
| GN-AP-MW-3     | 4/2/2019 15:30      | Temperature                   | 18.34        | C           |
| GN-AP-MW-3     | 4/2/2019 15:30      | Turbidity                     | 0.18         | NTU         |
| GN-AP-MW-3     | 4/2/2019 15:35      | Conductivity                  | 271.1        | uS/cm       |
| GN-AP-MW-3     | 4/2/2019 15:35      | Depth to Water Detail         | 18.85        | ft          |
| GN-AP-MW-3     | 4/2/2019 15:35      | DO                            | 4.76         | mg/L        |
| GN-AP-MW-3     | 4/2/2019 15:35      | Oxidation Reduction Potention | 53           | mv          |
| GN-AP-MW-3     | 4/2/2019 15:35      | pH                            | 7.77         | pH          |
| GN-AP-MW-3     | 4/2/2019 15:35      | Temperature                   | 18.3         | C           |
| GN-AP-MW-3     | 4/2/2019 15:35      | Turbidity                     | 0.1          | NTU         |
| GN-AP-MW-3     | 4/2/2019 15:40      | Conductivity                  | 271.3        | uS/cm       |
| GN-AP-MW-3     | 4/2/2019 15:40      | Depth to Water Detail         | 19.33        | ft          |
| GN-AP-MW-3     | 4/2/2019 15:40      | DO                            | 4.92         | mg/L        |
| GN-AP-MW-3     | 4/2/2019 15:40      | Oxidation Reduction Potention | 52.2         | mv          |
| GN-AP-MW-3     | 4/2/2019 15:40      | pH                            | 7.77         | pH          |
| GN-AP-MW-3     | 4/2/2019 15:40      | Temperature                   | 18.34        | C           |
| GN-AP-MW-3     | 4/2/2019 15:40      | Turbidity                     | 0.18         | NTU         |
| GN-AP-MW-3     | 4/2/2019 15:45      | Conductivity                  | 270.4        | uS/cm       |
| GN-AP-MW-3     | 4/2/2019 15:45      | Depth to Water Detail         | 19.76        | ft          |
| GN-AP-MW-3     | 4/2/2019 15:45      | DO                            | 5.07         | mg/L        |
| GN-AP-MW-3     | 4/2/2019 15:45      | Oxidation Reduction Potention | 52.4         | mv          |
| GN-AP-MW-3     | 4/2/2019 15:45      | pH                            | 7.78         | pH          |
| GN-AP-MW-3     | 4/2/2019 15:45      | Temperature                   | 18.39        | C           |
| GN-AP-MW-3     | 4/2/2019 15:45      | Turbidity                     | 0.11         | NTU         |
| GN-AP-MW-3     | 4/2/2019 15:50      | Conductivity                  | 269.3        | uS/cm       |
| GN-AP-MW-3     | 4/2/2019 15:50      | Depth to Water Detail         | 20.01        | ft          |
| GN-AP-MW-3     | 4/2/2019 15:50      | DO                            | 5.21         | mg/L        |
| GN-AP-MW-3     | 4/2/2019 15:50      | Oxidation Reduction Potention | 52.8         | mv          |
| GN-AP-MW-3     | 4/2/2019 15:50      | pH                            | 7.79         | pH          |
| GN-AP-MW-3     | 4/2/2019 15:50      | Temperature                   | 18.34        | C           |
| GN-AP-MW-3     | 4/2/2019 15:50      | Turbidity                     | 0.13         | NTU         |
| GN-AP-MW-3     | 4/2/2019 15:55      | Conductivity                  | 268.5        | uS/cm       |
| GN-AP-MW-3     | 4/2/2019 15:55      | Depth to Water Detail         | 20.19        | ft          |
| GN-AP-MW-3     | 4/2/2019 15:55      | DO                            | 5.34         | mg/L        |
| GN-AP-MW-3     | 4/2/2019 15:55      | Oxidation Reduction Potention | 53.2         | mv          |
| GN-AP-MW-3     | 4/2/2019 15:55      | pH                            | 7.79         | pH          |
| GN-AP-MW-3     | 4/2/2019 15:55      | Temperature                   | 18.34        | C           |
| GN-AP-MW-3     | 4/2/2019 15:55      | Turbidity                     | 0.17         | NTU         |
| GN-AP-MW-3     | 4/2/2019 16:00      | Conductivity                  | 267.6        | uS/cm       |
| GN-AP-MW-3     | 4/2/2019 16:00      | Depth to Water Detail         | 20.32        | ft          |

**Alabama Power Company  
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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-3     | 4/2/2019 16:00      | DO                            | 5.42         | mg/L        |
| GN-AP-MW-3     | 4/2/2019 16:00      | Oxidation Reduction Potention | 53.5         | mv          |
| GN-AP-MW-3     | 4/2/2019 16:00      | pH                            | 7.79         | pH          |
| GN-AP-MW-3     | 4/2/2019 16:00      | Temperature                   | 18.35        | C           |
| GN-AP-MW-3     | 4/2/2019 16:00      | Turbidity                     | 0.11         | NTU         |
| GN-AP-MW-3     | 4/2/2019 16:05      | Conductivity                  | 266.9        | uS/cm       |
| GN-AP-MW-3     | 4/2/2019 16:05      | Depth to Water Detail         | 20.46        | ft          |
| GN-AP-MW-3     | 4/2/2019 16:05      | DO                            | 5.44         | mg/L        |
| GN-AP-MW-3     | 4/2/2019 16:05      | Oxidation Reduction Potention | 53.6         | mv          |
| GN-AP-MW-3     | 4/2/2019 16:05      | pH                            | 7.8          | pH          |
| GN-AP-MW-3     | 4/2/2019 16:05      | Temperature                   | 18.37        | C           |
| GN-AP-MW-3     | 4/2/2019 16:05      | Turbidity                     | 0.02         | NTU         |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-4     | 4/2/2019 14:29      | Conductivity                  | 517.7        | uS/cm       |
| GN-AP-MW-4     | 4/2/2019 14:29      | Depth to Water Detail         | 12.78        | ft          |
| GN-AP-MW-4     | 4/2/2019 14:29      | DO                            | 0.33         | mg/L        |
| GN-AP-MW-4     | 4/2/2019 14:29      | Oxidation Reduction Potention | 15           | mv          |
| GN-AP-MW-4     | 4/2/2019 14:29      | pH                            | 7.45         | pH          |
| GN-AP-MW-4     | 4/2/2019 14:29      | Temperature                   | 18.86        | C           |
| GN-AP-MW-4     | 4/2/2019 14:29      | Turbidity                     | 1.16         | NTU         |
| GN-AP-MW-4     | 4/2/2019 14:34      | Conductivity                  | 524.9        | uS/cm       |
| GN-AP-MW-4     | 4/2/2019 14:34      | Depth to Water Detail         | 12.81        | ft          |
| GN-AP-MW-4     | 4/2/2019 14:34      | DO                            | 0.2          | mg/L        |
| GN-AP-MW-4     | 4/2/2019 14:34      | Oxidation Reduction Potention | 24.3         | mv          |
| GN-AP-MW-4     | 4/2/2019 14:34      | pH                            | 7.4          | pH          |
| GN-AP-MW-4     | 4/2/2019 14:34      | Temperature                   | 18.87        | C           |
| GN-AP-MW-4     | 4/2/2019 14:34      | Turbidity                     | 10.79        | NTU         |
| GN-AP-MW-4     | 4/2/2019 14:39      | Conductivity                  | 529.4        | uS/cm       |
| GN-AP-MW-4     | 4/2/2019 14:39      | Depth to Water Detail         | 12.83        | ft          |
| GN-AP-MW-4     | 4/2/2019 14:39      | DO                            | 0.26         | mg/L        |
| GN-AP-MW-4     | 4/2/2019 14:39      | Oxidation Reduction Potention | 21.7         | mv          |
| GN-AP-MW-4     | 4/2/2019 14:39      | pH                            | 7.37         | pH          |
| GN-AP-MW-4     | 4/2/2019 14:39      | Temperature                   | 18.88        | C           |
| GN-AP-MW-4     | 4/2/2019 14:39      | Turbidity                     | 3.8          | NTU         |
| GN-AP-MW-4     | 4/2/2019 14:44      | Conductivity                  | 519.3        | uS/cm       |
| GN-AP-MW-4     | 4/2/2019 14:44      | Depth to Water Detail         | 12.83        | ft          |
| GN-AP-MW-4     | 4/2/2019 14:44      | DO                            | 0.53         | mg/L        |
| GN-AP-MW-4     | 4/2/2019 14:44      | Oxidation Reduction Potention | 24.3         | mv          |
| GN-AP-MW-4     | 4/2/2019 14:44      | pH                            | 7.35         | pH          |
| GN-AP-MW-4     | 4/2/2019 14:44      | Temperature                   | 18.9         | C           |
| GN-AP-MW-4     | 4/2/2019 14:44      | Turbidity                     | 2.51         | NTU         |
| GN-AP-MW-4     | 4/2/2019 14:49      | Conductivity                  | 514.9        | uS/cm       |
| GN-AP-MW-4     | 4/2/2019 14:49      | Depth to Water Detail         | 12.83        | ft          |
| GN-AP-MW-4     | 4/2/2019 14:49      | DO                            | 0.66         | mg/L        |
| GN-AP-MW-4     | 4/2/2019 14:49      | Oxidation Reduction Potention | 27.6         | mv          |
| GN-AP-MW-4     | 4/2/2019 14:49      | pH                            | 7.35         | pH          |
| GN-AP-MW-4     | 4/2/2019 14:49      | Temperature                   | 18.88        | C           |
| GN-AP-MW-4     | 4/2/2019 14:49      | Turbidity                     | 1.49         | NTU         |
| GN-AP-MW-4     | 4/2/2019 14:54      | Conductivity                  | 513.2        | uS/cm       |
| GN-AP-MW-4     | 4/2/2019 14:54      | Depth to Water Detail         | 12.84        | ft          |
| GN-AP-MW-4     | 4/2/2019 14:54      | DO                            | 0.7          | mg/L        |
| GN-AP-MW-4     | 4/2/2019 14:54      | Oxidation Reduction Potention | 28.5         | mv          |
| GN-AP-MW-4     | 4/2/2019 14:54      | pH                            | 7.34         | pH          |
| GN-AP-MW-4     | 4/2/2019 14:54      | Temperature                   | 18.88        | C           |
| GN-AP-MW-4     | 4/2/2019 14:54      | Turbidity                     | 1.08         | NTU         |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-5     | 4/2/2019 13:28      | Conductivity                  | 613.8        | uS/cm       |
| GN-AP-MW-5     | 4/2/2019 13:28      | Depth to Water Detail         | 12.52        | ft          |
| GN-AP-MW-5     | 4/2/2019 13:28      | DO                            | 0.67         | mg/L        |
| GN-AP-MW-5     | 4/2/2019 13:28      | Oxidation Reduction Potention | 39.1         | mv          |
| GN-AP-MW-5     | 4/2/2019 13:28      | pH                            | 7.48         | pH          |
| GN-AP-MW-5     | 4/2/2019 13:28      | Temperature                   | 20.27        | C           |
| GN-AP-MW-5     | 4/2/2019 13:28      | Turbidity                     | 2.38         | NTU         |
| GN-AP-MW-5     | 4/2/2019 13:33      | Conductivity                  | 602.7        | uS/cm       |
| GN-AP-MW-5     | 4/2/2019 13:33      | Depth to Water Detail         | 12.52        | ft          |
| GN-AP-MW-5     | 4/2/2019 13:33      | DO                            | 0.9          | mg/L        |
| GN-AP-MW-5     | 4/2/2019 13:33      | Oxidation Reduction Potention | 39           | mv          |
| GN-AP-MW-5     | 4/2/2019 13:33      | pH                            | 7.48         | pH          |
| GN-AP-MW-5     | 4/2/2019 13:33      | Temperature                   | 20.22        | C           |
| GN-AP-MW-5     | 4/2/2019 13:33      | Turbidity                     | 1.94         | NTU         |
| GN-AP-MW-5     | 4/2/2019 13:38      | Conductivity                  | 607.2        | uS/cm       |
| GN-AP-MW-5     | 4/2/2019 13:38      | Depth to Water Detail         | 12.52        | ft          |
| GN-AP-MW-5     | 4/2/2019 13:38      | DO                            | 1.01         | mg/L        |
| GN-AP-MW-5     | 4/2/2019 13:38      | Oxidation Reduction Potention | 40.7         | mv          |
| GN-AP-MW-5     | 4/2/2019 13:38      | pH                            | 7.48         | pH          |
| GN-AP-MW-5     | 4/2/2019 13:38      | Temperature                   | 20.26        | C           |
| GN-AP-MW-5     | 4/2/2019 13:38      | Turbidity                     | 1.44         | NTU         |
| GN-AP-MW-5     | 4/2/2019 13:43      | Conductivity                  | 611.1        | uS/cm       |
| GN-AP-MW-5     | 4/2/2019 13:43      | Depth to Water Detail         | 12.52        | ft          |
| GN-AP-MW-5     | 4/2/2019 13:43      | DO                            | 1.07         | mg/L        |
| GN-AP-MW-5     | 4/2/2019 13:43      | Oxidation Reduction Potention | 41.5         | mv          |
| GN-AP-MW-5     | 4/2/2019 13:43      | pH                            | 7.47         | pH          |
| GN-AP-MW-5     | 4/2/2019 13:43      | Temperature                   | 20.22        | C           |
| GN-AP-MW-5     | 4/2/2019 13:43      | Turbidity                     | 1.27         | NTU         |



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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-6     | 4/2/2019 10:30      | Conductivity                  | 568.7        | uS/cm       |
| GN-AP-MW-6     | 4/2/2019 10:30      | Depth to Water Detail         | 10.62        | ft          |
| GN-AP-MW-6     | 4/2/2019 10:30      | DO                            | 1.67         | mg/L        |
| GN-AP-MW-6     | 4/2/2019 10:30      | Oxidation Reduction Potention | 55.7         | mv          |
| GN-AP-MW-6     | 4/2/2019 10:30      | pH                            | 7.65         | pH          |
| GN-AP-MW-6     | 4/2/2019 10:30      | Temperature                   | 19.37        | C           |
| GN-AP-MW-6     | 4/2/2019 10:30      | Turbidity                     | 0.96         | NTU         |
| GN-AP-MW-6     | 4/2/2019 10:35      | Conductivity                  | 604.4        | uS/cm       |
| GN-AP-MW-6     | 4/2/2019 10:35      | Depth to Water Detail         | 10.64        | ft          |
| GN-AP-MW-6     | 4/2/2019 10:35      | DO                            | 0.7          | mg/L        |
| GN-AP-MW-6     | 4/2/2019 10:35      | Oxidation Reduction Potention | 40           | mv          |
| GN-AP-MW-6     | 4/2/2019 10:35      | pH                            | 7.69         | pH          |
| GN-AP-MW-6     | 4/2/2019 10:35      | Temperature                   | 19.41        | C           |
| GN-AP-MW-6     | 4/2/2019 10:35      | Turbidity                     | 0.72         | NTU         |
| GN-AP-MW-6     | 4/2/2019 10:40      | Conductivity                  | 617.1        | uS/cm       |
| GN-AP-MW-6     | 4/2/2019 10:40      | Depth to Water Detail         | 10.64        | ft          |
| GN-AP-MW-6     | 4/2/2019 10:40      | DO                            | 0.43         | mg/L        |
| GN-AP-MW-6     | 4/2/2019 10:40      | Oxidation Reduction Potention | 32.6         | mv          |
| GN-AP-MW-6     | 4/2/2019 10:40      | pH                            | 7.72         | pH          |
| GN-AP-MW-6     | 4/2/2019 10:40      | Temperature                   | 19.42        | C           |
| GN-AP-MW-6     | 4/2/2019 10:40      | Turbidity                     | 0.83         | NTU         |
| GN-AP-MW-6     | 4/2/2019 10:45      | Conductivity                  | 635.6        | uS/cm       |
| GN-AP-MW-6     | 4/2/2019 10:45      | Depth to Water Detail         | 10.64        | ft          |
| GN-AP-MW-6     | 4/2/2019 10:45      | DO                            | 0.34         | mg/L        |
| GN-AP-MW-6     | 4/2/2019 10:45      | Oxidation Reduction Potention | 28.3         | mv          |
| GN-AP-MW-6     | 4/2/2019 10:45      | pH                            | 7.74         | pH          |
| GN-AP-MW-6     | 4/2/2019 10:45      | Temperature                   | 19.45        | C           |
| GN-AP-MW-6     | 4/2/2019 10:45      | Turbidity                     | 0.79         | NTU         |
| GN-AP-MW-6     | 4/2/2019 10:50      | Conductivity                  | 658.8        | uS/cm       |
| GN-AP-MW-6     | 4/2/2019 10:50      | Depth to Water Detail         | 10.64        | ft          |
| GN-AP-MW-6     | 4/2/2019 10:50      | DO                            | 0.29         | mg/L        |
| GN-AP-MW-6     | 4/2/2019 10:50      | Oxidation Reduction Potention | 25.6         | mv          |
| GN-AP-MW-6     | 4/2/2019 10:50      | pH                            | 7.74         | pH          |
| GN-AP-MW-6     | 4/2/2019 10:50      | Temperature                   | 19.46        | C           |
| GN-AP-MW-6     | 4/2/2019 10:50      | Turbidity                     | 0.76         | NTU         |
| GN-AP-MW-6     | 4/2/2019 10:55      | Conductivity                  | 677.8        | uS/cm       |
| GN-AP-MW-6     | 4/2/2019 10:55      | Depth to Water Detail         | 10.64        | ft          |
| GN-AP-MW-6     | 4/2/2019 10:55      | DO                            | 0.28         | mg/L        |
| GN-AP-MW-6     | 4/2/2019 10:55      | Oxidation Reduction Potention | 22.6         | mv          |
| GN-AP-MW-6     | 4/2/2019 10:55      | pH                            | 7.74         | pH          |
| GN-AP-MW-6     | 4/2/2019 10:55      | Temperature                   | 19.45        | C           |
| GN-AP-MW-6     | 4/2/2019 10:55      | Turbidity                     | 0.68         | NTU         |
| GN-AP-MW-6     | 4/2/2019 11:00      | Conductivity                  | 689.1        | uS/cm       |
| GN-AP-MW-6     | 4/2/2019 11:00      | Depth to Water Detail         | 10.64        | ft          |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-6     | 4/2/2019 11:00      | DO                            | 0.27         | mg/L        |
| GN-AP-MW-6     | 4/2/2019 11:00      | Oxidation Reduction Potention | 20.1         | mv          |
| GN-AP-MW-6     | 4/2/2019 11:00      | pH                            | 7.73         | pH          |
| GN-AP-MW-6     | 4/2/2019 11:00      | Temperature                   | 19.37        | C           |
| GN-AP-MW-6     | 4/2/2019 11:00      | Turbidity                     | 0.74         | NTU         |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-7     | 4/2/2019 9:31       | Conductivity                  |              | uS/cm       |
| GN-AP-MW-7     | 4/2/2019 9:31       | Depth to Water Detail         | 5.13         | ft          |
| GN-AP-MW-7     | 4/2/2019 9:31       | DO                            |              | mg/L        |
| GN-AP-MW-7     | 4/2/2019 9:31       | Oxidation Reduction Potention |              | mv          |
| GN-AP-MW-7     | 4/2/2019 9:31       | pH                            |              | pH          |
| GN-AP-MW-7     | 4/2/2019 9:31       | Temperature                   |              | C           |
| GN-AP-MW-7     | 4/2/2019 9:31       | Turbidity                     | 11.55        | NTU         |
| GN-AP-MW-7     | 4/2/2019 9:36       | Conductivity                  | 622.3        | uS/cm       |
| GN-AP-MW-7     | 4/2/2019 9:36       | Depth to Water Detail         | 5.11         | ft          |
| GN-AP-MW-7     | 4/2/2019 9:36       | DO                            | 0.43         | mg/L        |
| GN-AP-MW-7     | 4/2/2019 9:36       | Oxidation Reduction Potention | 52.8         | mv          |
| GN-AP-MW-7     | 4/2/2019 9:36       | pH                            | 7.06         | pH          |
| GN-AP-MW-7     | 4/2/2019 9:36       | Temperature                   | 17.11        | C           |
| GN-AP-MW-7     | 4/2/2019 9:36       | Turbidity                     | 5.44         | NTU         |
| GN-AP-MW-7     | 4/2/2019 9:41       | Conductivity                  | 628.2        | uS/cm       |
| GN-AP-MW-7     | 4/2/2019 9:41       | Depth to Water Detail         | 5.25         | ft          |
| GN-AP-MW-7     | 4/2/2019 9:41       | DO                            | 0.32         | mg/L        |
| GN-AP-MW-7     | 4/2/2019 9:41       | Oxidation Reduction Potention | 46.4         | mv          |
| GN-AP-MW-7     | 4/2/2019 9:41       | pH                            | 7.13         | pH          |
| GN-AP-MW-7     | 4/2/2019 9:41       | Temperature                   | 17.38        | C           |
| GN-AP-MW-7     | 4/2/2019 9:41       | Turbidity                     | 2.78         | NTU         |
| GN-AP-MW-7     | 4/2/2019 9:46       | Conductivity                  | 635.2        | uS/cm       |
| GN-AP-MW-7     | 4/2/2019 9:46       | Depth to Water Detail         | 5.32         | ft          |
| GN-AP-MW-7     | 4/2/2019 9:46       | DO                            | 0.27         | mg/L        |
| GN-AP-MW-7     | 4/2/2019 9:46       | Oxidation Reduction Potention | 43.1         | mv          |
| GN-AP-MW-7     | 4/2/2019 9:46       | pH                            | 7.2          | pH          |
| GN-AP-MW-7     | 4/2/2019 9:46       | Temperature                   | 17.54        | C           |
| GN-AP-MW-7     | 4/2/2019 9:46       | Turbidity                     | 1.88         | NTU         |
| GN-AP-MW-7     | 4/2/2019 9:51       | Conductivity                  | 641.2        | uS/cm       |
| GN-AP-MW-7     | 4/2/2019 9:51       | Depth to Water Detail         | 5.34         | ft          |
| GN-AP-MW-7     | 4/2/2019 9:51       | DO                            | 0.25         | mg/L        |
| GN-AP-MW-7     | 4/2/2019 9:51       | Oxidation Reduction Potention | 41.2         | mv          |
| GN-AP-MW-7     | 4/2/2019 9:51       | pH                            | 7.24         | pH          |
| GN-AP-MW-7     | 4/2/2019 9:51       | Temperature                   | 17.59        | C           |
| GN-AP-MW-7     | 4/2/2019 9:51       | Turbidity                     | 1.42         | NTU         |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-8     | 4/1/2019 12:57      | Conductivity                  | 481.2        | uS/cm       |
| GN-AP-MW-8     | 4/1/2019 12:57      | Depth to Water Detail         | 14.93        | ft          |
| GN-AP-MW-8     | 4/1/2019 12:57      | DO                            | 3.46         | mg/L        |
| GN-AP-MW-8     | 4/1/2019 12:57      | Oxidation Reduction Potention | -127.2       | mv          |
| GN-AP-MW-8     | 4/1/2019 12:57      | pH                            | 7.4          | pH          |
| GN-AP-MW-8     | 4/1/2019 12:57      | Temperature                   | 18.62        | C           |
| GN-AP-MW-8     | 4/1/2019 12:57      | Turbidity                     | 0.3          | NTU         |
| GN-AP-MW-8     | 4/1/2019 13:08      | Conductivity                  | 479.2        | uS/cm       |
| GN-AP-MW-8     | 4/1/2019 13:08      | Depth to Water Detail         | 16.47        | ft          |
| GN-AP-MW-8     | 4/1/2019 13:08      | DO                            | 2.95         | mg/L        |
| GN-AP-MW-8     | 4/1/2019 13:08      | Oxidation Reduction Potention | -130         | mv          |
| GN-AP-MW-8     | 4/1/2019 13:08      | pH                            | 7.4          | pH          |
| GN-AP-MW-8     | 4/1/2019 13:08      | Temperature                   | 18.78        | C           |
| GN-AP-MW-8     | 4/1/2019 13:08      | Turbidity                     | 0.45         | NTU         |

**Alabama Power Company  
Plant Gaston Ash Pond**

| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-9     | 4/1/2019 11:06      | Conductivity                  | 377.4        | uS/cm       |
| GN-AP-MW-9     | 4/1/2019 11:06      | Depth to Water Detail         | 9.05         | ft          |
| GN-AP-MW-9     | 4/1/2019 11:06      | DO                            | 0.19         | mg/L        |
| GN-AP-MW-9     | 4/1/2019 11:06      | Oxidation Reduction Potention | -104.3       | mv          |
| GN-AP-MW-9     | 4/1/2019 11:06      | pH                            | 7.64         | pH          |
| GN-AP-MW-9     | 4/1/2019 11:06      | Temperature                   | 16.87        | C           |
| GN-AP-MW-9     | 4/1/2019 11:06      | Turbidity                     | 0.84         | NTU         |
| GN-AP-MW-9     | 4/1/2019 11:22      | Conductivity                  | 374.9        | uS/cm       |
| GN-AP-MW-9     | 4/1/2019 11:22      | Depth to Water Detail         | 11.83        | ft          |
| GN-AP-MW-9     | 4/1/2019 11:22      | DO                            | 0.12         | mg/L        |
| GN-AP-MW-9     | 4/1/2019 11:22      | Oxidation Reduction Potention | -133.8       | mv          |
| GN-AP-MW-9     | 4/1/2019 11:22      | pH                            | 7.64         | pH          |
| GN-AP-MW-9     | 4/1/2019 11:22      | Temperature                   | 17.36        | C           |
| GN-AP-MW-9     | 4/1/2019 11:22      | Turbidity                     | 0.88         | NTU         |

**Alabama Power Company  
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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-10    | 4/3/2019 15:46      | Conductivity                  | 332.6        | uS/cm       |
| GN-AP-MW-10    | 4/3/2019 15:46      | Depth to Water Detail         | 7.35         | ft          |
| GN-AP-MW-10    | 4/3/2019 15:46      | DO                            | 0.22         | mg/L        |
| GN-AP-MW-10    | 4/3/2019 15:46      | Oxidation Reduction Potention | 2.1          | mv          |
| GN-AP-MW-10    | 4/3/2019 15:46      | pH                            | 7.56         | pH          |
| GN-AP-MW-10    | 4/3/2019 15:46      | Temperature                   | 20.16        | C           |
| GN-AP-MW-10    | 4/3/2019 15:46      | Turbidity                     | 0.25         | NTU         |
| GN-AP-MW-10    | 4/3/2019 15:51      | Conductivity                  | 330.2        | uS/cm       |
| GN-AP-MW-10    | 4/3/2019 15:51      | Depth to Water Detail         | 7.35         | ft          |
| GN-AP-MW-10    | 4/3/2019 15:51      | DO                            | 0.21         | mg/L        |
| GN-AP-MW-10    | 4/3/2019 15:51      | Oxidation Reduction Potention | -20.7        | mv          |
| GN-AP-MW-10    | 4/3/2019 15:51      | pH                            | 7.56         | pH          |
| GN-AP-MW-10    | 4/3/2019 15:51      | Temperature                   | 20.16        | C           |
| GN-AP-MW-10    | 4/3/2019 15:51      | Turbidity                     | 0.28         | NTU         |
| GN-AP-MW-10    | 4/3/2019 15:56      | Conductivity                  | 327.3        | uS/cm       |
| GN-AP-MW-10    | 4/3/2019 15:56      | Depth to Water Detail         | 7.37         | ft          |
| GN-AP-MW-10    | 4/3/2019 15:56      | DO                            | 0.43         | mg/L        |
| GN-AP-MW-10    | 4/3/2019 15:56      | Oxidation Reduction Potention | -6           | mv          |
| GN-AP-MW-10    | 4/3/2019 15:56      | pH                            | 7.59         | pH          |
| GN-AP-MW-10    | 4/3/2019 15:56      | Temperature                   | 20.15        | C           |
| GN-AP-MW-10    | 4/3/2019 15:56      | Turbidity                     | 0.4          | NTU         |
| GN-AP-MW-10    | 4/3/2019 16:01      | Conductivity                  | 325.9        | uS/cm       |
| GN-AP-MW-10    | 4/3/2019 16:01      | Depth to Water Detail         | 7.45         | ft          |
| GN-AP-MW-10    | 4/3/2019 16:01      | DO                            | 0.53         | mg/L        |
| GN-AP-MW-10    | 4/3/2019 16:01      | Oxidation Reduction Potention | 6.9          | mv          |
| GN-AP-MW-10    | 4/3/2019 16:01      | pH                            | 7.6          | pH          |
| GN-AP-MW-10    | 4/3/2019 16:01      | Temperature                   | 20.15        | C           |
| GN-AP-MW-10    | 4/3/2019 16:01      | Turbidity                     | 0.22         | NTU         |
| GN-AP-MW-10    | 4/3/2019 16:06      | Conductivity                  | 326.4        | uS/cm       |
| GN-AP-MW-10    | 4/3/2019 16:06      | Depth to Water Detail         | 7.45         | ft          |
| GN-AP-MW-10    | 4/3/2019 16:06      | DO                            | 0.55         | mg/L        |
| GN-AP-MW-10    | 4/3/2019 16:06      | Oxidation Reduction Potention | 13.3         | mv          |
| GN-AP-MW-10    | 4/3/2019 16:06      | pH                            | 7.6          | pH          |
| GN-AP-MW-10    | 4/3/2019 16:06      | Temperature                   | 20.14        | C           |
| GN-AP-MW-10    | 4/3/2019 16:06      | Turbidity                     | 0.51         | NTU         |

**Alabama Power Company  
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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-11    | 4/3/2019 14:34      | Conductivity                  | 310.5        | uS/cm       |
| GN-AP-MW-11    | 4/3/2019 14:34      | Depth to Water Detail         | 8.81         | ft          |
| GN-AP-MW-11    | 4/3/2019 14:34      | DO                            | 1.5          | mg/L        |
| GN-AP-MW-11    | 4/3/2019 14:34      | Oxidation Reduction Potention | 46.7         | mv          |
| GN-AP-MW-11    | 4/3/2019 14:34      | pH                            | 7.61         | pH          |
| GN-AP-MW-11    | 4/3/2019 14:34      | Temperature                   | 20.13        | C           |
| GN-AP-MW-11    | 4/3/2019 14:34      | Turbidity                     | 0.26         | NTU         |
| GN-AP-MW-11    | 4/3/2019 14:39      | Conductivity                  | 316          | uS/cm       |
| GN-AP-MW-11    | 4/3/2019 14:39      | Depth to Water Detail         | 8.58         | ft          |
| GN-AP-MW-11    | 4/3/2019 14:39      | DO                            | 1.46         | mg/L        |
| GN-AP-MW-11    | 4/3/2019 14:39      | Oxidation Reduction Potention | 46.2         | mv          |
| GN-AP-MW-11    | 4/3/2019 14:39      | pH                            | 7.63         | pH          |
| GN-AP-MW-11    | 4/3/2019 14:39      | Temperature                   | 20.22        | C           |
| GN-AP-MW-11    | 4/3/2019 14:39      | Turbidity                     | 0.47         | NTU         |
| GN-AP-MW-11    | 4/3/2019 14:44      | Conductivity                  | 318.7        | uS/cm       |
| GN-AP-MW-11    | 4/3/2019 14:44      | Depth to Water Detail         | 8.37         | ft          |
| GN-AP-MW-11    | 4/3/2019 14:44      | DO                            | 1.62         | mg/L        |
| GN-AP-MW-11    | 4/3/2019 14:44      | Oxidation Reduction Potention | 46.6         | mv          |
| GN-AP-MW-11    | 4/3/2019 14:44      | pH                            | 7.67         | pH          |
| GN-AP-MW-11    | 4/3/2019 14:44      | Temperature                   | 20.13        | C           |
| GN-AP-MW-11    | 4/3/2019 14:44      | Turbidity                     | 0.46         | NTU         |
| GN-AP-MW-11    | 4/3/2019 14:49      | Conductivity                  | 324.7        | uS/cm       |
| GN-AP-MW-11    | 4/3/2019 14:49      | Depth to Water Detail         | 8.24         | ft          |
| GN-AP-MW-11    | 4/3/2019 14:49      | DO                            | 1.83         | mg/L        |
| GN-AP-MW-11    | 4/3/2019 14:49      | Oxidation Reduction Potention | 47.9         | mv          |
| GN-AP-MW-11    | 4/3/2019 14:49      | pH                            | 7.69         | pH          |
| GN-AP-MW-11    | 4/3/2019 14:49      | Temperature                   | 20.07        | C           |
| GN-AP-MW-11    | 4/3/2019 14:49      | Turbidity                     | 0.28         | NTU         |
| GN-AP-MW-11    | 4/3/2019 14:54      | Conductivity                  | 328.5        | uS/cm       |
| GN-AP-MW-11    | 4/3/2019 14:54      | Depth to Water Detail         | 8.52         | ft          |
| GN-AP-MW-11    | 4/3/2019 14:54      | DO                            | 2.02         | mg/L        |
| GN-AP-MW-11    | 4/3/2019 14:54      | Oxidation Reduction Potention | 49.9         | mv          |
| GN-AP-MW-11    | 4/3/2019 14:54      | pH                            | 7.71         | pH          |
| GN-AP-MW-11    | 4/3/2019 14:54      | Temperature                   | 19.99        | C           |
| GN-AP-MW-11    | 4/3/2019 14:54      | Turbidity                     | 0.54         | NTU         |
| GN-AP-MW-11    | 4/3/2019 14:59      | Conductivity                  | 335.6        | uS/cm       |
| GN-AP-MW-11    | 4/3/2019 14:59      | Depth to Water Detail         | 8.82         | ft          |
| GN-AP-MW-11    | 4/3/2019 14:59      | DO                            | 2.29         | mg/L        |
| GN-AP-MW-11    | 4/3/2019 14:59      | Oxidation Reduction Potention | 51.9         | mv          |
| GN-AP-MW-11    | 4/3/2019 14:59      | pH                            | 7.73         | pH          |
| GN-AP-MW-11    | 4/3/2019 14:59      | Temperature                   | 20.02        | C           |
| GN-AP-MW-11    | 4/3/2019 14:59      | Turbidity                     | 0.56         | NTU         |
| GN-AP-MW-11    | 4/3/2019 15:04      | Conductivity                  | 336.6        | uS/cm       |
| GN-AP-MW-11    | 4/3/2019 15:04      | Depth to Water Detail         | 8.91         | ft          |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-11    | 4/3/2019 15:04      | DO                            | 2.42         | mg/L        |
| GN-AP-MW-11    | 4/3/2019 15:04      | Oxidation Reduction Potention | 53.2         | mv          |
| GN-AP-MW-11    | 4/3/2019 15:04      | pH                            | 7.74         | pH          |
| GN-AP-MW-11    | 4/3/2019 15:04      | Temperature                   | 20.04        | C           |
| GN-AP-MW-11    | 4/3/2019 15:04      | Turbidity                     | 0.4          | NTU         |
| GN-AP-MW-11    | 4/3/2019 15:09      | Conductivity                  | 337          | uS/cm       |
| GN-AP-MW-11    | 4/3/2019 15:09      | Depth to Water Detail         | 9            | ft          |
| GN-AP-MW-11    | 4/3/2019 15:09      | DO                            | 2.49         | mg/L        |
| GN-AP-MW-11    | 4/3/2019 15:09      | Oxidation Reduction Potention | 53.8         | mv          |
| GN-AP-MW-11    | 4/3/2019 15:09      | pH                            | 7.75         | pH          |
| GN-AP-MW-11    | 4/3/2019 15:09      | Temperature                   | 20           | C           |
| GN-AP-MW-11    | 4/3/2019 15:09      | Turbidity                     | 0.31         | NTU         |



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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-12    | 4/3/2019 12:28      | Conductivity                  | 573.5        | uS/cm       |
| GN-AP-MW-12    | 4/3/2019 12:28      | Depth to Water Detail         | 14.67        | ft          |
| GN-AP-MW-12    | 4/3/2019 12:28      | DO                            | 0.04         | mg/L        |
| GN-AP-MW-12    | 4/3/2019 12:28      | Oxidation Reduction Potention | -74.9        | mv          |
| GN-AP-MW-12    | 4/3/2019 12:28      | pH                            | 7.37         | pH          |
| GN-AP-MW-12    | 4/3/2019 12:28      | Temperature                   | 20.82        | C           |
| GN-AP-MW-12    | 4/3/2019 12:28      | Turbidity                     | 0.17         | NTU         |
| GN-AP-MW-12    | 4/3/2019 12:33      | Conductivity                  | 575          | uS/cm       |
| GN-AP-MW-12    | 4/3/2019 12:33      | Depth to Water Detail         | 14.82        | ft          |
| GN-AP-MW-12    | 4/3/2019 12:33      | DO                            | 0.04         | mg/L        |
| GN-AP-MW-12    | 4/3/2019 12:33      | Oxidation Reduction Potention | -74.4        | mv          |
| GN-AP-MW-12    | 4/3/2019 12:33      | pH                            | 7.37         | pH          |
| GN-AP-MW-12    | 4/3/2019 12:33      | Temperature                   | 20.97        | C           |
| GN-AP-MW-12    | 4/3/2019 12:33      | Turbidity                     | 0.19         | NTU         |
| GN-AP-MW-12    | 4/3/2019 12:38      | Conductivity                  | 578          | uS/cm       |
| GN-AP-MW-12    | 4/3/2019 12:38      | Depth to Water Detail         | 15           | ft          |
| GN-AP-MW-12    | 4/3/2019 12:38      | DO                            | 0.04         | mg/L        |
| GN-AP-MW-12    | 4/3/2019 12:38      | Oxidation Reduction Potention | -74.7        | mv          |
| GN-AP-MW-12    | 4/3/2019 12:38      | pH                            | 7.37         | pH          |
| GN-AP-MW-12    | 4/3/2019 12:38      | Temperature                   | 20.93        | C           |
| GN-AP-MW-12    | 4/3/2019 12:38      | Turbidity                     | 5.15         | NTU         |
| GN-AP-MW-12    | 4/3/2019 12:43      | Conductivity                  | 576.7        | uS/cm       |
| GN-AP-MW-12    | 4/3/2019 12:43      | Depth to Water Detail         | 15.11        | ft          |
| GN-AP-MW-12    | 4/3/2019 12:43      | DO                            | 0.05         | mg/L        |
| GN-AP-MW-12    | 4/3/2019 12:43      | Oxidation Reduction Potention | -74.4        | mv          |
| GN-AP-MW-12    | 4/3/2019 12:43      | pH                            | 7.37         | pH          |
| GN-AP-MW-12    | 4/3/2019 12:43      | Temperature                   | 21.06        | C           |
| GN-AP-MW-12    | 4/3/2019 12:43      | Turbidity                     | 22.8         | NTU         |
| GN-AP-MW-12    | 4/3/2019 12:48      | Conductivity                  | 576.9        | uS/cm       |
| GN-AP-MW-12    | 4/3/2019 12:48      | Depth to Water Detail         | 15.29        | ft          |
| GN-AP-MW-12    | 4/3/2019 12:48      | DO                            | 0.05         | mg/L        |
| GN-AP-MW-12    | 4/3/2019 12:48      | Oxidation Reduction Potention | -73.4        | mv          |
| GN-AP-MW-12    | 4/3/2019 12:48      | pH                            | 7.37         | pH          |
| GN-AP-MW-12    | 4/3/2019 12:48      | Temperature                   | 20.7         | C           |
| GN-AP-MW-12    | 4/3/2019 12:48      | Turbidity                     | 54.4         | NTU         |
| GN-AP-MW-12    | 4/3/2019 12:53      | Conductivity                  | 575.8        | uS/cm       |
| GN-AP-MW-12    | 4/3/2019 12:53      | Depth to Water Detail         | 15.5         | ft          |
| GN-AP-MW-12    | 4/3/2019 12:53      | DO                            | 0.05         | mg/L        |
| GN-AP-MW-12    | 4/3/2019 12:53      | Oxidation Reduction Potention | -71.9        | mv          |
| GN-AP-MW-12    | 4/3/2019 12:53      | pH                            | 7.37         | pH          |
| GN-AP-MW-12    | 4/3/2019 12:53      | Temperature                   | 20.53        | C           |
| GN-AP-MW-12    | 4/3/2019 12:53      | Turbidity                     | 69.7         | NTU         |
| GN-AP-MW-12    | 4/3/2019 12:58      | Conductivity                  | 574.2        | uS/cm       |
| GN-AP-MW-12    | 4/3/2019 12:58      | Depth to Water Detail         | 15.64        | ft          |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-12    | 4/3/2019 12:58      | DO                            | 0.05         | mg/L        |
| GN-AP-MW-12    | 4/3/2019 12:58      | Oxidation Reduction Potention | -73          | mv          |
| GN-AP-MW-12    | 4/3/2019 12:58      | pH                            | 7.37         | pH          |
| GN-AP-MW-12    | 4/3/2019 12:58      | Temperature                   | 20.72        | C           |
| GN-AP-MW-12    | 4/3/2019 12:58      | Turbidity                     | 78.9         | NTU         |
| GN-AP-MW-12    | 4/3/2019 13:03      | Conductivity                  | 571.9        | uS/cm       |
| GN-AP-MW-12    | 4/3/2019 13:03      | Depth to Water Detail         | 15.72        | ft          |
| GN-AP-MW-12    | 4/3/2019 13:03      | DO                            | 0.05         | mg/L        |
| GN-AP-MW-12    | 4/3/2019 13:03      | Oxidation Reduction Potention | -77          | mv          |
| GN-AP-MW-12    | 4/3/2019 13:03      | pH                            | 7.37         | pH          |
| GN-AP-MW-12    | 4/3/2019 13:03      | Temperature                   | 20.71        | C           |
| GN-AP-MW-12    | 4/3/2019 13:03      | Turbidity                     | 84.3         | NTU         |
| GN-AP-MW-12    | 4/3/2019 13:08      | Conductivity                  | 569.5        | uS/cm       |
| GN-AP-MW-12    | 4/3/2019 13:08      | Depth to Water Detail         | 15.89        | ft          |
| GN-AP-MW-12    | 4/3/2019 13:08      | DO                            | 0.05         | mg/L        |
| GN-AP-MW-12    | 4/3/2019 13:08      | Oxidation Reduction Potention | -79.2        | mv          |
| GN-AP-MW-12    | 4/3/2019 13:08      | pH                            | 7.37         | pH          |
| GN-AP-MW-12    | 4/3/2019 13:08      | Temperature                   | 20.76        | C           |
| GN-AP-MW-12    | 4/3/2019 13:08      | Turbidity                     | 83.6         | NTU         |
| GN-AP-MW-12    | 4/3/2019 13:13      | Conductivity                  | 568.2        | uS/cm       |
| GN-AP-MW-12    | 4/3/2019 13:13      | Depth to Water Detail         | 16.03        | ft          |
| GN-AP-MW-12    | 4/3/2019 13:13      | DO                            | 0.05         | mg/L        |
| GN-AP-MW-12    | 4/3/2019 13:13      | Oxidation Reduction Potention | -79.4        | mv          |
| GN-AP-MW-12    | 4/3/2019 13:13      | pH                            | 7.37         | pH          |
| GN-AP-MW-12    | 4/3/2019 13:13      | Temperature                   | 20.78        | C           |
| GN-AP-MW-12    | 4/3/2019 13:13      | Turbidity                     | 80.6         | NTU         |
| GN-AP-MW-12    | 4/3/2019 13:18      | Conductivity                  | 564.1        | uS/cm       |
| GN-AP-MW-12    | 4/3/2019 13:18      | Depth to Water Detail         | 16.11        | ft          |
| GN-AP-MW-12    | 4/3/2019 13:18      | DO                            | 0.05         | mg/L        |
| GN-AP-MW-12    | 4/3/2019 13:18      | Oxidation Reduction Potention | -78.8        | mv          |
| GN-AP-MW-12    | 4/3/2019 13:18      | pH                            | 7.37         | pH          |
| GN-AP-MW-12    | 4/3/2019 13:18      | Temperature                   | 20.8         | C           |
| GN-AP-MW-12    | 4/3/2019 13:18      | Turbidity                     | 56           | NTU         |
| GN-AP-MW-12    | 4/3/2019 13:23      | Conductivity                  | 0            | uS/cm       |
| GN-AP-MW-12    | 4/3/2019 13:23      | Depth to Water Detail         | 16.27        | ft          |
| GN-AP-MW-12    | 4/3/2019 13:23      | DO                            | 6.8          | mg/L        |
| GN-AP-MW-12    | 4/3/2019 13:23      | Oxidation Reduction Potention | -59.7        | mv          |
| GN-AP-MW-12    | 4/3/2019 13:23      | pH                            | 7.42         | pH          |
| GN-AP-MW-12    | 4/3/2019 13:23      | Temperature                   | 20.75        | C           |
| GN-AP-MW-12    | 4/3/2019 13:23      | Turbidity                     | 74.9         | NTU         |
| GN-AP-MW-12    | 4/3/2019 13:28      | Conductivity                  | 586.4        | uS/cm       |
| GN-AP-MW-12    | 4/3/2019 13:28      | Depth to Water Detail         | 16.36        | ft          |
| GN-AP-MW-12    | 4/3/2019 13:28      | DO                            | 0.08         | mg/L        |
| GN-AP-MW-12    | 4/3/2019 13:28      | Oxidation Reduction Potention | -76.8        | mv          |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-12    | 4/3/2019 13:28      | pH                            | 7.37         | pH          |
| GN-AP-MW-12    | 4/3/2019 13:28      | Temperature                   | 20.51        | C           |
| GN-AP-MW-12    | 4/3/2019 13:28      | Turbidity                     | 72.1         | NTU         |
| GN-AP-MW-12    | 4/3/2019 13:33      | Conductivity                  | 586.3        | uS/cm       |
| GN-AP-MW-12    | 4/3/2019 13:33      | Depth to Water Detail         | 16.45        | ft          |
| GN-AP-MW-12    | 4/3/2019 13:33      | DO                            | 0.07         | mg/L        |
| GN-AP-MW-12    | 4/3/2019 13:33      | Oxidation Reduction Potention | -77.6        | mv          |
| GN-AP-MW-12    | 4/3/2019 13:33      | pH                            | 7.37         | pH          |
| GN-AP-MW-12    | 4/3/2019 13:33      | Temperature                   | 20.5         | C           |
| GN-AP-MW-12    | 4/3/2019 13:33      | Turbidity                     | 59.4         | NTU         |
| GN-AP-MW-12    | 4/3/2019 13:38      | Conductivity                  | 585.5        | uS/cm       |
| GN-AP-MW-12    | 4/3/2019 13:38      | Depth to Water Detail         | 16.53        | ft          |
| GN-AP-MW-12    | 4/3/2019 13:38      | DO                            | 0.07         | mg/L        |
| GN-AP-MW-12    | 4/3/2019 13:38      | Oxidation Reduction Potention | -78.7        | mv          |
| GN-AP-MW-12    | 4/3/2019 13:38      | pH                            | 7.37         | pH          |
| GN-AP-MW-12    | 4/3/2019 13:38      | Temperature                   | 20.54        | C           |
| GN-AP-MW-12    | 4/3/2019 13:38      | Turbidity                     | 33.2         | NTU         |
| GN-AP-MW-12    | 4/3/2019 13:43      | Conductivity                  | 584.8        | uS/cm       |
| GN-AP-MW-12    | 4/3/2019 13:43      | Depth to Water Detail         | 16.65        | ft          |
| GN-AP-MW-12    | 4/3/2019 13:43      | DO                            | 0.07         | mg/L        |
| GN-AP-MW-12    | 4/3/2019 13:43      | Oxidation Reduction Potention | -78.4        | mv          |
| GN-AP-MW-12    | 4/3/2019 13:43      | pH                            | 7.37         | pH          |
| GN-AP-MW-12    | 4/3/2019 13:43      | Temperature                   | 20.51        | C           |
| GN-AP-MW-12    | 4/3/2019 13:43      | Turbidity                     | 24.2         | NTU         |
| GN-AP-MW-12    | 4/3/2019 13:48      | Conductivity                  | 585.4        | uS/cm       |
| GN-AP-MW-12    | 4/3/2019 13:48      | Depth to Water Detail         | 16.75        | ft          |
| GN-AP-MW-12    | 4/3/2019 13:48      | DO                            | 0.07         | mg/L        |
| GN-AP-MW-12    | 4/3/2019 13:48      | Oxidation Reduction Potention | -78.5        | mv          |
| GN-AP-MW-12    | 4/3/2019 13:48      | pH                            | 7.37         | pH          |
| GN-AP-MW-12    | 4/3/2019 13:48      | Temperature                   | 20.5         | C           |
| GN-AP-MW-12    | 4/3/2019 13:48      | Turbidity                     | 16.9         | NTU         |
| GN-AP-MW-12    | 4/3/2019 13:53      | Conductivity                  | 587.2        | uS/cm       |
| GN-AP-MW-12    | 4/3/2019 13:53      | Depth to Water Detail         | 16.82        | ft          |
| GN-AP-MW-12    | 4/3/2019 13:53      | DO                            | 0.07         | mg/L        |
| GN-AP-MW-12    | 4/3/2019 13:53      | Oxidation Reduction Potention | -78.8        | mv          |
| GN-AP-MW-12    | 4/3/2019 13:53      | pH                            | 7.37         | pH          |
| GN-AP-MW-12    | 4/3/2019 13:53      | Temperature                   | 20.6         | C           |
| GN-AP-MW-12    | 4/3/2019 13:53      | Turbidity                     | 9.27         | NTU         |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-13    | 4/3/2019 10:41      | Conductivity                  | 393.7        | uS/cm       |
| GN-AP-MW-13    | 4/3/2019 10:41      | Depth to Water Detail         | 1.28         | ft          |
| GN-AP-MW-13    | 4/3/2019 10:41      | DO                            | 0.83         | mg/L        |
| GN-AP-MW-13    | 4/3/2019 10:41      | Oxidation Reduction Potention | -80.8        | mv          |
| GN-AP-MW-13    | 4/3/2019 10:41      | pH                            | 7.39         | pH          |
| GN-AP-MW-13    | 4/3/2019 10:41      | Temperature                   | 18.92        | C           |
| GN-AP-MW-13    | 4/3/2019 10:41      | Turbidity                     | 2.87         | NTU         |
| GN-AP-MW-13    | 4/3/2019 10:46      | Conductivity                  | 392.8        | uS/cm       |
| GN-AP-MW-13    | 4/3/2019 10:46      | Depth to Water Detail         | 1.44         | ft          |
| GN-AP-MW-13    | 4/3/2019 10:46      | DO                            | 0.93         | mg/L        |
| GN-AP-MW-13    | 4/3/2019 10:46      | Oxidation Reduction Potention | -75.8        | mv          |
| GN-AP-MW-13    | 4/3/2019 10:46      | pH                            | 7.38         | pH          |
| GN-AP-MW-13    | 4/3/2019 10:46      | Temperature                   | 19.01        | C           |
| GN-AP-MW-13    | 4/3/2019 10:46      | Turbidity                     | 2.05         | NTU         |
| GN-AP-MW-13    | 4/3/2019 10:51      | Conductivity                  | 395.7        | uS/cm       |
| GN-AP-MW-13    | 4/3/2019 10:51      | Depth to Water Detail         | 2.02         | ft          |
| GN-AP-MW-13    | 4/3/2019 10:51      | DO                            | 0.53         | mg/L        |
| GN-AP-MW-13    | 4/3/2019 10:51      | Oxidation Reduction Potention | -75.4        | mv          |
| GN-AP-MW-13    | 4/3/2019 10:51      | pH                            | 7.38         | pH          |
| GN-AP-MW-13    | 4/3/2019 10:51      | Temperature                   | 18.93        | C           |
| GN-AP-MW-13    | 4/3/2019 10:51      | Turbidity                     | 1.18         | NTU         |
| GN-AP-MW-13    | 4/3/2019 10:56      | Conductivity                  | 394          | uS/cm       |
| GN-AP-MW-13    | 4/3/2019 10:56      | Depth to Water Detail         | 2.57         | ft          |
| GN-AP-MW-13    | 4/3/2019 10:56      | DO                            | 0.51         | mg/L        |
| GN-AP-MW-13    | 4/3/2019 10:56      | Oxidation Reduction Potention | -74.7        | mv          |
| GN-AP-MW-13    | 4/3/2019 10:56      | pH                            | 7.39         | pH          |
| GN-AP-MW-13    | 4/3/2019 10:56      | Temperature                   | 19.01        | C           |
| GN-AP-MW-13    | 4/3/2019 10:56      | Turbidity                     | 0.56         | NTU         |
| GN-AP-MW-13    | 4/3/2019 11:01      | Conductivity                  | 392.2        | uS/cm       |
| GN-AP-MW-13    | 4/3/2019 11:01      | Depth to Water Detail         | 2.94         | ft          |
| GN-AP-MW-13    | 4/3/2019 11:01      | DO                            | 0.5          | mg/L        |
| GN-AP-MW-13    | 4/3/2019 11:01      | Oxidation Reduction Potention | -74.5        | mv          |
| GN-AP-MW-13    | 4/3/2019 11:01      | pH                            | 7.39         | pH          |
| GN-AP-MW-13    | 4/3/2019 11:01      | Temperature                   | 19.19        | C           |
| GN-AP-MW-13    | 4/3/2019 11:01      | Turbidity                     | 0.44         | NTU         |
| GN-AP-MW-13    | 4/3/2019 11:06      | Conductivity                  | 389.9        | uS/cm       |
| GN-AP-MW-13    | 4/3/2019 11:06      | Depth to Water Detail         | 3.22         | ft          |
| GN-AP-MW-13    | 4/3/2019 11:06      | DO                            | 0.51         | mg/L        |
| GN-AP-MW-13    | 4/3/2019 11:06      | Oxidation Reduction Potention | -74.3        | mv          |
| GN-AP-MW-13    | 4/3/2019 11:06      | pH                            | 7.4          | pH          |
| GN-AP-MW-13    | 4/3/2019 11:06      | Temperature                   | 19.16        | C           |
| GN-AP-MW-13    | 4/3/2019 11:06      | Turbidity                     | 0.41         | NTU         |
| GN-AP-MW-13    | 4/3/2019 11:11      | Conductivity                  | 387.6        | uS/cm       |
| GN-AP-MW-13    | 4/3/2019 11:11      | Depth to Water Detail         | 3.34         | ft          |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-13    | 4/3/2019 11:11      | DO                            | 0.53         | mg/L        |
| GN-AP-MW-13    | 4/3/2019 11:11      | Oxidation Reduction Potention | -74.5        | mv          |
| GN-AP-MW-13    | 4/3/2019 11:11      | pH                            | 7.4          | pH          |
| GN-AP-MW-13    | 4/3/2019 11:11      | Temperature                   | 19.35        | C           |
| GN-AP-MW-13    | 4/3/2019 11:11      | Turbidity                     | 1.92         | NTU         |
| GN-AP-MW-13    | 4/3/2019 11:16      | Conductivity                  | 386.7        | uS/cm       |
| GN-AP-MW-13    | 4/3/2019 11:16      | Depth to Water Detail         | 3.42         | ft          |
| GN-AP-MW-13    | 4/3/2019 11:16      | DO                            | 0.54         | mg/L        |
| GN-AP-MW-13    | 4/3/2019 11:16      | Oxidation Reduction Potention | -74.3        | mv          |
| GN-AP-MW-13    | 4/3/2019 11:16      | pH                            | 7.4          | pH          |
| GN-AP-MW-13    | 4/3/2019 11:16      | Temperature                   | 19.35        | C           |
| GN-AP-MW-13    | 4/3/2019 11:16      | Turbidity                     | 1.48         | NTU         |
| GN-AP-MW-13    | 4/3/2019 11:21      | Conductivity                  | 386.1        | uS/cm       |
| GN-AP-MW-13    | 4/3/2019 11:21      | Depth to Water Detail         | 3.45         | ft          |
| GN-AP-MW-13    | 4/3/2019 11:21      | DO                            | 0.55         | mg/L        |
| GN-AP-MW-13    | 4/3/2019 11:21      | Oxidation Reduction Potention | -74.5        | mv          |
| GN-AP-MW-13    | 4/3/2019 11:21      | pH                            | 7.41         | pH          |
| GN-AP-MW-13    | 4/3/2019 11:21      | Temperature                   | 19.42        | C           |
| GN-AP-MW-13    | 4/3/2019 11:21      | Turbidity                     | 0.58         | NTU         |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-14    | 4/3/2019 9:32       | Conductivity                  | 570.4        | uS/cm       |
| GN-AP-MW-14    | 4/3/2019 9:32       | Depth to Water Detail         | 28.68        | ft          |
| GN-AP-MW-14    | 4/3/2019 9:32       | DO                            | 0.33         | mg/L        |
| GN-AP-MW-14    | 4/3/2019 9:32       | Oxidation Reduction Potention | -142.1       | mv          |
| GN-AP-MW-14    | 4/3/2019 9:32       | pH                            | 7.39         | pH          |
| GN-AP-MW-14    | 4/3/2019 9:32       | Temperature                   | 18.48        | C           |
| GN-AP-MW-14    | 4/3/2019 9:32       | Turbidity                     | 0.32         | NTU         |
| GN-AP-MW-14    | 4/3/2019 9:37       | Conductivity                  | 504.1        | uS/cm       |
| GN-AP-MW-14    | 4/3/2019 9:37       | Depth to Water Detail         | 28.9         | ft          |
| GN-AP-MW-14    | 4/3/2019 9:37       | DO                            | 0.22         | mg/L        |
| GN-AP-MW-14    | 4/3/2019 9:37       | Oxidation Reduction Potention | -133         | mv          |
| GN-AP-MW-14    | 4/3/2019 9:37       | pH                            | 7.43         | pH          |
| GN-AP-MW-14    | 4/3/2019 9:37       | Temperature                   | 18.63        | C           |
| GN-AP-MW-14    | 4/3/2019 9:37       | Turbidity                     | 0.24         | NTU         |
| GN-AP-MW-14    | 4/3/2019 9:42       | Conductivity                  | 500.8        | uS/cm       |
| GN-AP-MW-14    | 4/3/2019 9:42       | Depth to Water Detail         | 29           | ft          |
| GN-AP-MW-14    | 4/3/2019 9:42       | DO                            | 0.19         | mg/L        |
| GN-AP-MW-14    | 4/3/2019 9:42       | Oxidation Reduction Potention | -130.5       | mv          |
| GN-AP-MW-14    | 4/3/2019 9:42       | pH                            | 7.43         | pH          |
| GN-AP-MW-14    | 4/3/2019 9:42       | Temperature                   | 18.74        | C           |
| GN-AP-MW-14    | 4/3/2019 9:42       | Turbidity                     | 0.18         | NTU         |
| GN-AP-MW-14    | 4/3/2019 9:47       | Conductivity                  | 501.1        | uS/cm       |
| GN-AP-MW-14    | 4/3/2019 9:47       | Depth to Water Detail         | 29.09        | ft          |
| GN-AP-MW-14    | 4/3/2019 9:47       | DO                            | 0.17         | mg/L        |
| GN-AP-MW-14    | 4/3/2019 9:47       | Oxidation Reduction Potention | -129.3       | mv          |
| GN-AP-MW-14    | 4/3/2019 9:47       | pH                            | 7.43         | pH          |
| GN-AP-MW-14    | 4/3/2019 9:47       | Temperature                   | 18.87        | C           |
| GN-AP-MW-14    | 4/3/2019 9:47       | Turbidity                     | 0.1          | NTU         |
| GN-AP-MW-14    | 4/3/2019 9:52       | Conductivity                  | 505.5        | uS/cm       |
| GN-AP-MW-14    | 4/3/2019 9:52       | Depth to Water Detail         | 29.14        | ft          |
| GN-AP-MW-14    | 4/3/2019 9:52       | DO                            | 0.14         | mg/L        |
| GN-AP-MW-14    | 4/3/2019 9:52       | Oxidation Reduction Potention | -125         | mv          |
| GN-AP-MW-14    | 4/3/2019 9:52       | pH                            | 7.43         | pH          |
| GN-AP-MW-14    | 4/3/2019 9:52       | Temperature                   | 19           | C           |
| GN-AP-MW-14    | 4/3/2019 9:52       | Turbidity                     | 0.22         | NTU         |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-15R   | 4/3/2019 14:25      | Conductivity                  | 1205.8       | uS/cm       |
| GN-AP-MW-15R   | 4/3/2019 14:25      | Depth to Water Detail         | 40.82        | ft          |
| GN-AP-MW-15R   | 4/3/2019 14:25      | DO                            | 1.17         | mg/L        |
| GN-AP-MW-15R   | 4/3/2019 14:25      | Oxidation Reduction Potention | -40.4        | mv          |
| GN-AP-MW-15R   | 4/3/2019 14:25      | pH                            | 7.76         | pH          |
| GN-AP-MW-15R   | 4/3/2019 14:25      | Temperature                   | 20.44        | C           |
| GN-AP-MW-15R   | 4/3/2019 14:25      | Turbidity                     | 4.42         | NTU         |
| GN-AP-MW-15R   | 4/3/2019 14:30      | Conductivity                  | 1209.6       | uS/cm       |
| GN-AP-MW-15R   | 4/3/2019 14:30      | Depth to Water Detail         | 41.08        | ft          |
| GN-AP-MW-15R   | 4/3/2019 14:30      | DO                            | 0.98         | mg/L        |
| GN-AP-MW-15R   | 4/3/2019 14:30      | Oxidation Reduction Potention | -42.9        | mv          |
| GN-AP-MW-15R   | 4/3/2019 14:30      | pH                            | 7.74         | pH          |
| GN-AP-MW-15R   | 4/3/2019 14:30      | Temperature                   | 20.34        | C           |
| GN-AP-MW-15R   | 4/3/2019 14:30      | Turbidity                     | 3.82         | NTU         |
| GN-AP-MW-15R   | 4/3/2019 14:35      | Conductivity                  | 1213.4       | uS/cm       |
| GN-AP-MW-15R   | 4/3/2019 14:35      | Depth to Water Detail         | 41.24        | ft          |
| GN-AP-MW-15R   | 4/3/2019 14:35      | DO                            | 0.89         | mg/L        |
| GN-AP-MW-15R   | 4/3/2019 14:35      | Oxidation Reduction Potention | -46.5        | mv          |
| GN-AP-MW-15R   | 4/3/2019 14:35      | pH                            | 7.72         | pH          |
| GN-AP-MW-15R   | 4/3/2019 14:35      | Temperature                   | 20.35        | C           |
| GN-AP-MW-15R   | 4/3/2019 14:35      | Turbidity                     | 2.6          | NTU         |
| GN-AP-MW-15R   | 4/3/2019 14:40      | Conductivity                  | 1214.4       | uS/cm       |
| GN-AP-MW-15R   | 4/3/2019 14:40      | Depth to Water Detail         | 41.29        | ft          |
| GN-AP-MW-15R   | 4/3/2019 14:40      | DO                            | 0.8          | mg/L        |
| GN-AP-MW-15R   | 4/3/2019 14:40      | Oxidation Reduction Potention | -50.1        | mv          |
| GN-AP-MW-15R   | 4/3/2019 14:40      | pH                            | 7.71         | pH          |
| GN-AP-MW-15R   | 4/3/2019 14:40      | Temperature                   | 20.39        | C           |
| GN-AP-MW-15R   | 4/3/2019 14:40      | Turbidity                     | 1.47         | NTU         |
| GN-AP-MW-15R   | 4/3/2019 14:45      | Conductivity                  | 1215         | uS/cm       |
| GN-AP-MW-15R   | 4/3/2019 14:45      | Depth to Water Detail         | 41.32        | ft          |
| GN-AP-MW-15R   | 4/3/2019 14:45      | DO                            | 0.87         | mg/L        |
| GN-AP-MW-15R   | 4/3/2019 14:45      | Oxidation Reduction Potention | -48.2        | mv          |
| GN-AP-MW-15R   | 4/3/2019 14:45      | pH                            | 7.7          | pH          |
| GN-AP-MW-15R   | 4/3/2019 14:45      | Temperature                   | 20.62        | C           |
| GN-AP-MW-15R   | 4/3/2019 14:45      | Turbidity                     | 0.89         | NTU         |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-16    | 4/3/2019 12:43      | Conductivity                  | 426.2        | uS/cm       |
| GN-AP-MW-16    | 4/3/2019 12:43      | Depth to Water Detail         | 19.95        | ft          |
| GN-AP-MW-16    | 4/3/2019 12:43      | DO                            | 0.1          | mg/L        |
| GN-AP-MW-16    | 4/3/2019 12:43      | Oxidation Reduction Potention | -77.3        | mv          |
| GN-AP-MW-16    | 4/3/2019 12:43      | pH                            | 8.66         | pH          |
| GN-AP-MW-16    | 4/3/2019 12:43      | Temperature                   | 21.1         | C           |
| GN-AP-MW-16    | 4/3/2019 12:43      | Turbidity                     | 199          | NTU         |
| GN-AP-MW-16    | 4/3/2019 12:48      | Conductivity                  | 426.3        | uS/cm       |
| GN-AP-MW-16    | 4/3/2019 12:48      | Depth to Water Detail         | 20.03        | ft          |
| GN-AP-MW-16    | 4/3/2019 12:48      | DO                            | 0.09         | mg/L        |
| GN-AP-MW-16    | 4/3/2019 12:48      | Oxidation Reduction Potention | -107.4       | mv          |
| GN-AP-MW-16    | 4/3/2019 12:48      | pH                            | 8.58         | pH          |
| GN-AP-MW-16    | 4/3/2019 12:48      | Temperature                   | 21.06        | C           |
| GN-AP-MW-16    | 4/3/2019 12:48      | Turbidity                     | 104.5        | NTU         |
| GN-AP-MW-16    | 4/3/2019 12:53      | Conductivity                  | 426.4        | uS/cm       |
| GN-AP-MW-16    | 4/3/2019 12:53      | Depth to Water Detail         | 20.03        | ft          |
| GN-AP-MW-16    | 4/3/2019 12:53      | DO                            | 0.09         | mg/L        |
| GN-AP-MW-16    | 4/3/2019 12:53      | Oxidation Reduction Potention | -127.5       | mv          |
| GN-AP-MW-16    | 4/3/2019 12:53      | pH                            | 8.52         | pH          |
| GN-AP-MW-16    | 4/3/2019 12:53      | Temperature                   | 21.06        | C           |
| GN-AP-MW-16    | 4/3/2019 12:53      | Turbidity                     | 51.2         | NTU         |
| GN-AP-MW-16    | 4/3/2019 12:58      | Conductivity                  | 426.5        | uS/cm       |
| GN-AP-MW-16    | 4/3/2019 12:58      | Depth to Water Detail         | 20.03        | ft          |
| GN-AP-MW-16    | 4/3/2019 12:58      | DO                            | 0.09         | mg/L        |
| GN-AP-MW-16    | 4/3/2019 12:58      | Oxidation Reduction Potention | -139         | mv          |
| GN-AP-MW-16    | 4/3/2019 12:58      | pH                            | 8.48         | pH          |
| GN-AP-MW-16    | 4/3/2019 12:58      | Temperature                   | 21.08        | C           |
| GN-AP-MW-16    | 4/3/2019 12:58      | Turbidity                     | 27.7         | NTU         |
| GN-AP-MW-16    | 4/3/2019 13:03      | Conductivity                  | 426.8        | uS/cm       |
| GN-AP-MW-16    | 4/3/2019 13:03      | Depth to Water Detail         | 20.03        | ft          |
| GN-AP-MW-16    | 4/3/2019 13:03      | DO                            | 0.09         | mg/L        |
| GN-AP-MW-16    | 4/3/2019 13:03      | Oxidation Reduction Potention | -145.9       | mv          |
| GN-AP-MW-16    | 4/3/2019 13:03      | pH                            | 8.45         | pH          |
| GN-AP-MW-16    | 4/3/2019 13:03      | Temperature                   | 21.06        | C           |
| GN-AP-MW-16    | 4/3/2019 13:03      | Turbidity                     | 16.4         | NTU         |
| GN-AP-MW-16    | 4/3/2019 13:08      | Conductivity                  | 426.8        | uS/cm       |
| GN-AP-MW-16    | 4/3/2019 13:08      | Depth to Water Detail         | 20.03        | ft          |
| GN-AP-MW-16    | 4/3/2019 13:08      | DO                            | 0.09         | mg/L        |
| GN-AP-MW-16    | 4/3/2019 13:08      | Oxidation Reduction Potention | -151.4       | mv          |
| GN-AP-MW-16    | 4/3/2019 13:08      | pH                            | 8.42         | pH          |
| GN-AP-MW-16    | 4/3/2019 13:08      | Temperature                   | 21.06        | C           |
| GN-AP-MW-16    | 4/3/2019 13:08      | Turbidity                     | 12.1         | NTU         |
| GN-AP-MW-16    | 4/3/2019 13:13      | Conductivity                  | 427.4        | uS/cm       |
| GN-AP-MW-16    | 4/3/2019 13:13      | Depth to Water Detail         | 20.03        | ft          |



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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-16    | 4/3/2019 13:13      | DO                            | 0.09         | mg/L        |
| GN-AP-MW-16    | 4/3/2019 13:13      | Oxidation Reduction Potention | -154.5       | mv          |
| GN-AP-MW-16    | 4/3/2019 13:13      | pH                            | 8.38         | pH          |
| GN-AP-MW-16    | 4/3/2019 13:13      | Temperature                   | 21.07        | C           |
| GN-AP-MW-16    | 4/3/2019 13:13      | Turbidity                     | 12.45        | NTU         |
| GN-AP-MW-16    | 4/3/2019 13:18      | Conductivity                  | 426.9        | uS/cm       |
| GN-AP-MW-16    | 4/3/2019 13:18      | Depth to Water Detail         | 20.03        | ft          |
| GN-AP-MW-16    | 4/3/2019 13:18      | DO                            | 0.09         | mg/L        |
| GN-AP-MW-16    | 4/3/2019 13:18      | Oxidation Reduction Potention | -159.5       | mv          |
| GN-AP-MW-16    | 4/3/2019 13:18      | pH                            | 8.36         | pH          |
| GN-AP-MW-16    | 4/3/2019 13:18      | Temperature                   | 21.06        | C           |
| GN-AP-MW-16    | 4/3/2019 13:18      | Turbidity                     | 11.47        | NTU         |
| GN-AP-MW-16    | 4/3/2019 13:23      | Conductivity                  | 427.3        | uS/cm       |
| GN-AP-MW-16    | 4/3/2019 13:23      | Depth to Water Detail         | 20.03        | ft          |
| GN-AP-MW-16    | 4/3/2019 13:23      | DO                            | 0.09         | mg/L        |
| GN-AP-MW-16    | 4/3/2019 13:23      | Oxidation Reduction Potention | -159         | mv          |
| GN-AP-MW-16    | 4/3/2019 13:23      | pH                            | 8.34         | pH          |
| GN-AP-MW-16    | 4/3/2019 13:23      | Temperature                   | 21.09        | C           |
| GN-AP-MW-16    | 4/3/2019 13:23      | Turbidity                     | 8.04         | NTU         |
| GN-AP-MW-16    | 4/3/2019 13:28      | Conductivity                  | 427.1        | uS/cm       |
| GN-AP-MW-16    | 4/3/2019 13:28      | Depth to Water Detail         | 20.03        | ft          |
| GN-AP-MW-16    | 4/3/2019 13:28      | DO                            | 0.09         | mg/L        |
| GN-AP-MW-16    | 4/3/2019 13:28      | Oxidation Reduction Potention | -162.6       | mv          |
| GN-AP-MW-16    | 4/3/2019 13:28      | pH                            | 8.33         | pH          |
| GN-AP-MW-16    | 4/3/2019 13:28      | Temperature                   | 21.11        | C           |
| GN-AP-MW-16    | 4/3/2019 13:28      | Turbidity                     | 6.46         | NTU         |
| GN-AP-MW-16    | 4/3/2019 13:33      | Conductivity                  | 427.2        | uS/cm       |
| GN-AP-MW-16    | 4/3/2019 13:33      | Depth to Water Detail         | 20.03        | ft          |
| GN-AP-MW-16    | 4/3/2019 13:33      | DO                            | 0.09         | mg/L        |
| GN-AP-MW-16    | 4/3/2019 13:33      | Oxidation Reduction Potention | -164.1       | mv          |
| GN-AP-MW-16    | 4/3/2019 13:33      | pH                            | 8.31         | pH          |
| GN-AP-MW-16    | 4/3/2019 13:33      | Temperature                   | 21.07        | C           |
| GN-AP-MW-16    | 4/3/2019 13:33      | Turbidity                     | 6.23         | NTU         |
| GN-AP-MW-16    | 4/3/2019 13:38      | Conductivity                  | 427.2        | uS/cm       |
| GN-AP-MW-16    | 4/3/2019 13:38      | Depth to Water Detail         | 20.03        | ft          |
| GN-AP-MW-16    | 4/3/2019 13:38      | DO                            | 0.08         | mg/L        |
| GN-AP-MW-16    | 4/3/2019 13:38      | Oxidation Reduction Potention | -165.3       | mv          |
| GN-AP-MW-16    | 4/3/2019 13:38      | pH                            | 8.3          | pH          |
| GN-AP-MW-16    | 4/3/2019 13:38      | Temperature                   | 21.06        | C           |
| GN-AP-MW-16    | 4/3/2019 13:38      | Turbidity                     | 4.59         | NTU         |

**Alabama Power Company  
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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-17    | 4/3/2019 11:50      | Conductivity                  | 784.2        | uS/cm       |
| GN-AP-MW-17    | 4/3/2019 11:50      | Depth to Water Detail         | 0            | ft          |
| GN-AP-MW-17    | 4/3/2019 11:50      | DO                            | 0.23         | mg/L        |
| GN-AP-MW-17    | 4/3/2019 11:50      | Oxidation Reduction Potention | -37.3        | mv          |
| GN-AP-MW-17    | 4/3/2019 11:50      | pH                            | 9.28         | pH          |
| GN-AP-MW-17    | 4/3/2019 11:50      | Temperature                   | 20.22        | C           |
| GN-AP-MW-17    | 4/3/2019 11:50      | Turbidity                     | 0.01         | NTU         |
| GN-AP-MW-17    | 4/3/2019 11:55      | Conductivity                  | 786.4        | uS/cm       |
| GN-AP-MW-17    | 4/3/2019 11:55      | Depth to Water Detail         | 0            | ft          |
| GN-AP-MW-17    | 4/3/2019 11:55      | DO                            | 0.19         | mg/L        |
| GN-AP-MW-17    | 4/3/2019 11:55      | Oxidation Reduction Potention | -36.1        | mv          |
| GN-AP-MW-17    | 4/3/2019 11:55      | pH                            | 9.45         | pH          |
| GN-AP-MW-17    | 4/3/2019 11:55      | Temperature                   | 19.96        | C           |
| GN-AP-MW-17    | 4/3/2019 11:55      | Turbidity                     | 0.02         | NTU         |
| GN-AP-MW-17    | 4/3/2019 12:00      | Conductivity                  | 786.8        | uS/cm       |
| GN-AP-MW-17    | 4/3/2019 12:00      | Depth to Water Detail         | 0            | ft          |
| GN-AP-MW-17    | 4/3/2019 12:00      | DO                            | 0.16         | mg/L        |
| GN-AP-MW-17    | 4/3/2019 12:00      | Oxidation Reduction Potention | -35.5        | mv          |
| GN-AP-MW-17    | 4/3/2019 12:00      | pH                            | 9.52         | pH          |
| GN-AP-MW-17    | 4/3/2019 12:00      | Temperature                   | 20.04        | C           |
| GN-AP-MW-17    | 4/3/2019 12:00      | Turbidity                     | 0.03         | NTU         |
| GN-AP-MW-17    | 4/3/2019 12:05      | Conductivity                  | 787.3        | uS/cm       |
| GN-AP-MW-17    | 4/3/2019 12:05      | Depth to Water Detail         | 0            | ft          |
| GN-AP-MW-17    | 4/3/2019 12:05      | DO                            | 0.15         | mg/L        |
| GN-AP-MW-17    | 4/3/2019 12:05      | Oxidation Reduction Potention | -35.1        | mv          |
| GN-AP-MW-17    | 4/3/2019 12:05      | pH                            | 9.56         | pH          |
| GN-AP-MW-17    | 4/3/2019 12:05      | Temperature                   | 20.17        | C           |
| GN-AP-MW-17    | 4/3/2019 12:05      | Turbidity                     | 0.03         | NTU         |

**Alabama Power Company  
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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-18    | 4/3/2019 10:48      | Conductivity                  | 691.4        | uS/cm       |
| GN-AP-MW-18    | 4/3/2019 10:48      | Depth to Water Detail         | 20.35        | ft          |
| GN-AP-MW-18    | 4/3/2019 10:48      | DO                            | 0.19         | mg/L        |
| GN-AP-MW-18    | 4/3/2019 10:48      | Oxidation Reduction Potention | -6.8         | mv          |
| GN-AP-MW-18    | 4/3/2019 10:48      | pH                            | 7.08         | pH          |
| GN-AP-MW-18    | 4/3/2019 10:48      | Temperature                   | 19.59        | C           |
| GN-AP-MW-18    | 4/3/2019 10:48      | Turbidity                     | 11.2         | NTU         |
| GN-AP-MW-18    | 4/3/2019 10:53      | Conductivity                  | 753.8        | uS/cm       |
| GN-AP-MW-18    | 4/3/2019 10:53      | Depth to Water Detail         | 20.35        | ft          |
| GN-AP-MW-18    | 4/3/2019 10:53      | DO                            | 0.17         | mg/L        |
| GN-AP-MW-18    | 4/3/2019 10:53      | Oxidation Reduction Potention | -2.4         | mv          |
| GN-AP-MW-18    | 4/3/2019 10:53      | pH                            | 6.98         | pH          |
| GN-AP-MW-18    | 4/3/2019 10:53      | Temperature                   | 19.55        | C           |
| GN-AP-MW-18    | 4/3/2019 10:53      | Turbidity                     | 5.06         | NTU         |
| GN-AP-MW-18    | 4/3/2019 10:58      | Conductivity                  | 783.9        | uS/cm       |
| GN-AP-MW-18    | 4/3/2019 10:58      | Depth to Water Detail         | 20.35        | ft          |
| GN-AP-MW-18    | 4/3/2019 10:58      | DO                            | 0.16         | mg/L        |
| GN-AP-MW-18    | 4/3/2019 10:58      | Oxidation Reduction Potention | -1           | mv          |
| GN-AP-MW-18    | 4/3/2019 10:58      | pH                            | 6.93         | pH          |
| GN-AP-MW-18    | 4/3/2019 10:58      | Temperature                   | 19.59        | C           |
| GN-AP-MW-18    | 4/3/2019 10:58      | Turbidity                     | 8.95         | NTU         |
| GN-AP-MW-18    | 4/3/2019 11:03      | Conductivity                  | 798.5        | uS/cm       |
| GN-AP-MW-18    | 4/3/2019 11:03      | Depth to Water Detail         | 20.35        | ft          |
| GN-AP-MW-18    | 4/3/2019 11:03      | DO                            | 0.16         | mg/L        |
| GN-AP-MW-18    | 4/3/2019 11:03      | Oxidation Reduction Potention | 0.3          | mv          |
| GN-AP-MW-18    | 4/3/2019 11:03      | pH                            | 6.91         | pH          |
| GN-AP-MW-18    | 4/3/2019 11:03      | Temperature                   | 19.59        | C           |
| GN-AP-MW-18    | 4/3/2019 11:03      | Turbidity                     | 2.13         | NTU         |
| GN-AP-MW-18    | 4/3/2019 11:08      | Conductivity                  | 800.8        | uS/cm       |
| GN-AP-MW-18    | 4/3/2019 11:08      | Depth to Water Detail         | 20.35        | ft          |
| GN-AP-MW-18    | 4/3/2019 11:08      | DO                            | 0.16         | mg/L        |
| GN-AP-MW-18    | 4/3/2019 11:08      | Oxidation Reduction Potention | 0.8          | mv          |
| GN-AP-MW-18    | 4/3/2019 11:08      | pH                            | 6.9          | pH          |
| GN-AP-MW-18    | 4/3/2019 11:08      | Temperature                   | 19.59        | C           |
| GN-AP-MW-18    | 4/3/2019 11:08      | Turbidity                     | 1.04         | NTU         |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-19    | 4/1/2019 13:49      | Conductivity                  | 414.6        | uS/cm       |
| GN-AP-MW-19    | 4/1/2019 13:49      | Depth to Water Detail         | 51.02        | ft          |
| GN-AP-MW-19    | 4/1/2019 13:49      | DO                            | 3.41         | mg/L        |
| GN-AP-MW-19    | 4/1/2019 13:49      | Oxidation Reduction Potention | -74.8        | mv          |
| GN-AP-MW-19    | 4/1/2019 13:49      | pH                            | 7.65         | pH          |
| GN-AP-MW-19    | 4/1/2019 13:49      | Temperature                   | 19.17        | C           |
| GN-AP-MW-19    | 4/1/2019 13:49      | Turbidity                     | 1.99         | NTU         |
| GN-AP-MW-19    | 4/1/2019 13:54      | Conductivity                  | 413.4        | uS/cm       |
| GN-AP-MW-19    | 4/1/2019 13:54      | Depth to Water Detail         | 50.95        | ft          |
| GN-AP-MW-19    | 4/1/2019 13:54      | DO                            | 0.82         | mg/L        |
| GN-AP-MW-19    | 4/1/2019 13:54      | Oxidation Reduction Potention | -117.2       | mv          |
| GN-AP-MW-19    | 4/1/2019 13:54      | pH                            | 7.6          | pH          |
| GN-AP-MW-19    | 4/1/2019 13:54      | Temperature                   | 19.24        | C           |
| GN-AP-MW-19    | 4/1/2019 13:54      | Turbidity                     | 0.53         | NTU         |
| GN-AP-MW-19    | 4/1/2019 13:59      | Conductivity                  | 413.9        | uS/cm       |
| GN-AP-MW-19    | 4/1/2019 13:59      | Depth to Water Detail         | 50.9         | ft          |
| GN-AP-MW-19    | 4/1/2019 13:59      | DO                            | 0.49         | mg/L        |
| GN-AP-MW-19    | 4/1/2019 13:59      | Oxidation Reduction Potention | -129.1       | mv          |
| GN-AP-MW-19    | 4/1/2019 13:59      | pH                            | 7.58         | pH          |
| GN-AP-MW-19    | 4/1/2019 13:59      | Temperature                   | 19.21        | C           |
| GN-AP-MW-19    | 4/1/2019 13:59      | Turbidity                     | 0.55         | NTU         |
| GN-AP-MW-19    | 4/1/2019 14:04      | Conductivity                  | 414.3        | uS/cm       |
| GN-AP-MW-19    | 4/1/2019 14:04      | Depth to Water Detail         | 50.85        | ft          |
| GN-AP-MW-19    | 4/1/2019 14:04      | DO                            | 0.39         | mg/L        |
| GN-AP-MW-19    | 4/1/2019 14:04      | Oxidation Reduction Potention | -132.1       | mv          |
| GN-AP-MW-19    | 4/1/2019 14:04      | pH                            | 7.58         | pH          |
| GN-AP-MW-19    | 4/1/2019 14:04      | Temperature                   | 19.19        | C           |
| GN-AP-MW-19    | 4/1/2019 14:04      | Turbidity                     | 0.53         | NTU         |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-20    | 4/3/2019 9:47       | Conductivity                  | 1145.8       | uS/cm       |
| GN-AP-MW-20    | 4/3/2019 9:47       | Depth to Water Detail         | 9.69         | ft          |
| GN-AP-MW-20    | 4/3/2019 9:47       | DO                            | 0.25         | mg/L        |
| GN-AP-MW-20    | 4/3/2019 9:47       | Oxidation Reduction Potention | -24          | mv          |
| GN-AP-MW-20    | 4/3/2019 9:47       | pH                            | 6.7          | pH          |
| GN-AP-MW-20    | 4/3/2019 9:47       | Temperature                   | 18.65        | C           |
| GN-AP-MW-20    | 4/3/2019 9:47       | Turbidity                     | 0.23         | NTU         |
| GN-AP-MW-20    | 4/3/2019 9:52       | Conductivity                  | 1136.4       | uS/cm       |
| GN-AP-MW-20    | 4/3/2019 9:52       | Depth to Water Detail         | 9.84         | ft          |
| GN-AP-MW-20    | 4/3/2019 9:52       | DO                            | 0.19         | mg/L        |
| GN-AP-MW-20    | 4/3/2019 9:52       | Oxidation Reduction Potention | -28.1        | mv          |
| GN-AP-MW-20    | 4/3/2019 9:52       | pH                            | 6.94         | pH          |
| GN-AP-MW-20    | 4/3/2019 9:52       | Temperature                   | 18.7         | C           |
| GN-AP-MW-20    | 4/3/2019 9:52       | Turbidity                     | 0.35         | NTU         |
| GN-AP-MW-20    | 4/3/2019 9:57       | Conductivity                  | 1131.5       | uS/cm       |
| GN-AP-MW-20    | 4/3/2019 9:57       | Depth to Water Detail         | 9.87         | ft          |
| GN-AP-MW-20    | 4/3/2019 9:57       | DO                            | 0.16         | mg/L        |
| GN-AP-MW-20    | 4/3/2019 9:57       | Oxidation Reduction Potention | -32.9        | mv          |
| GN-AP-MW-20    | 4/3/2019 9:57       | pH                            | 7.12         | pH          |
| GN-AP-MW-20    | 4/3/2019 9:57       | Temperature                   | 18.71        | C           |
| GN-AP-MW-20    | 4/3/2019 9:57       | Turbidity                     | 0.15         | NTU         |
| GN-AP-MW-20    | 4/3/2019 10:02      | Conductivity                  | 1127.5       | uS/cm       |
| GN-AP-MW-20    | 4/3/2019 10:02      | Depth to Water Detail         | 9.96         | ft          |
| GN-AP-MW-20    | 4/3/2019 10:02      | DO                            | 0.14         | mg/L        |
| GN-AP-MW-20    | 4/3/2019 10:02      | Oxidation Reduction Potention | -33.6        | mv          |
| GN-AP-MW-20    | 4/3/2019 10:02      | pH                            | 7.26         | pH          |
| GN-AP-MW-20    | 4/3/2019 10:02      | Temperature                   | 18.79        | C           |
| GN-AP-MW-20    | 4/3/2019 10:02      | Turbidity                     | 0.09         | NTU         |
| GN-AP-MW-20    | 4/3/2019 10:07      | Conductivity                  | 1122.9       | uS/cm       |
| GN-AP-MW-20    | 4/3/2019 10:07      | Depth to Water Detail         | 9.99         | ft          |
| GN-AP-MW-20    | 4/3/2019 10:07      | DO                            | 0.13         | mg/L        |
| GN-AP-MW-20    | 4/3/2019 10:07      | Oxidation Reduction Potention | -33          | mv          |
| GN-AP-MW-20    | 4/3/2019 10:07      | pH                            | 7.36         | pH          |
| GN-AP-MW-20    | 4/3/2019 10:07      | Temperature                   | 18.83        | C           |
| GN-AP-MW-20    | 4/3/2019 10:07      | Turbidity                     | 0.08         | NTU         |
| GN-AP-MW-20    | 4/3/2019 10:12      | Conductivity                  | 1120.2       | uS/cm       |
| GN-AP-MW-20    | 4/3/2019 10:12      | Depth to Water Detail         | 10           | ft          |
| GN-AP-MW-20    | 4/3/2019 10:12      | DO                            | 0.12         | mg/L        |
| GN-AP-MW-20    | 4/3/2019 10:12      | Oxidation Reduction Potention | -33.4        | mv          |
| GN-AP-MW-20    | 4/3/2019 10:12      | pH                            | 7.45         | pH          |
| GN-AP-MW-20    | 4/3/2019 10:12      | Temperature                   | 18.88        | C           |
| GN-AP-MW-20    | 4/3/2019 10:12      | Turbidity                     | 0.03         | NTU         |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-21    | 4/2/2019 11:39      | Conductivity                  | 600.6        | uS/cm       |
| GN-AP-MW-21    | 4/2/2019 11:39      | Depth to Water Detail         | 12.03        | ft          |
| GN-AP-MW-21    | 4/2/2019 11:39      | DO                            | 1.51         | mg/L        |
| GN-AP-MW-21    | 4/2/2019 11:39      | Oxidation Reduction Potention | 46           | mv          |
| GN-AP-MW-21    | 4/2/2019 11:39      | pH                            | 7.72         | pH          |
| GN-AP-MW-21    | 4/2/2019 11:39      | Temperature                   | 19.24        | C           |
| GN-AP-MW-21    | 4/2/2019 11:39      | Turbidity                     | 1.56         | NTU         |
| GN-AP-MW-21    | 4/2/2019 11:44      | Conductivity                  | 600.7        | uS/cm       |
| GN-AP-MW-21    | 4/2/2019 11:44      | Depth to Water Detail         | 12.1         | ft          |
| GN-AP-MW-21    | 4/2/2019 11:44      | DO                            | 1.46         | mg/L        |
| GN-AP-MW-21    | 4/2/2019 11:44      | Oxidation Reduction Potention | 36.3         | mv          |
| GN-AP-MW-21    | 4/2/2019 11:44      | pH                            | 7.72         | pH          |
| GN-AP-MW-21    | 4/2/2019 11:44      | Temperature                   | 19.31        | C           |
| GN-AP-MW-21    | 4/2/2019 11:44      | Turbidity                     | 0.87         | NTU         |
| GN-AP-MW-21    | 4/2/2019 11:49      | Conductivity                  | 603.9        | uS/cm       |
| GN-AP-MW-21    | 4/2/2019 11:49      | Depth to Water Detail         | 12.15        | ft          |
| GN-AP-MW-21    | 4/2/2019 11:49      | DO                            | 1.05         | mg/L        |
| GN-AP-MW-21    | 4/2/2019 11:49      | Oxidation Reduction Potention | 18.8         | mv          |
| GN-AP-MW-21    | 4/2/2019 11:49      | pH                            | 7.71         | pH          |
| GN-AP-MW-21    | 4/2/2019 11:49      | Temperature                   | 19.32        | C           |
| GN-AP-MW-21    | 4/2/2019 11:49      | Turbidity                     | 0.94         | NTU         |
| GN-AP-MW-21    | 4/2/2019 11:54      | Conductivity                  | 603.3        | uS/cm       |
| GN-AP-MW-21    | 4/2/2019 11:54      | Depth to Water Detail         | 12.15        | ft          |
| GN-AP-MW-21    | 4/2/2019 11:54      | DO                            | 0.68         | mg/L        |
| GN-AP-MW-21    | 4/2/2019 11:54      | Oxidation Reduction Potention | -20.4        | mv          |
| GN-AP-MW-21    | 4/2/2019 11:54      | pH                            | 7.69         | pH          |
| GN-AP-MW-21    | 4/2/2019 11:54      | Temperature                   | 19.77        | C           |
| GN-AP-MW-21    | 4/2/2019 11:54      | Turbidity                     | 0.71         | NTU         |
| GN-AP-MW-21    | 4/2/2019 11:59      | Conductivity                  | 604.1        | uS/cm       |
| GN-AP-MW-21    | 4/2/2019 11:59      | Depth to Water Detail         | 12.15        | ft          |
| GN-AP-MW-21    | 4/2/2019 11:59      | DO                            | 0.51         | mg/L        |
| GN-AP-MW-21    | 4/2/2019 11:59      | Oxidation Reduction Potention | -35.5        | mv          |
| GN-AP-MW-21    | 4/2/2019 11:59      | pH                            | 7.68         | pH          |
| GN-AP-MW-21    | 4/2/2019 11:59      | Temperature                   | 19.81        | C           |
| GN-AP-MW-21    | 4/2/2019 11:59      | Turbidity                     | 0.66         | NTU         |
| GN-AP-MW-21    | 4/2/2019 12:04      | Conductivity                  | 604.8        | uS/cm       |
| GN-AP-MW-21    | 4/2/2019 12:04      | Depth to Water Detail         | 12.15        | ft          |
| GN-AP-MW-21    | 4/2/2019 12:04      | DO                            | 0.46         | mg/L        |
| GN-AP-MW-21    | 4/2/2019 12:04      | Oxidation Reduction Potention | -38.3        | mv          |
| GN-AP-MW-21    | 4/2/2019 12:04      | pH                            | 7.67         | pH          |
| GN-AP-MW-21    | 4/2/2019 12:04      | Temperature                   | 19.88        | C           |
| GN-AP-MW-21    | 4/2/2019 12:04      | Turbidity                     | 0.98         | NTU         |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-22    | 4/2/2019 12:40      | Conductivity                  | 787.4        | uS/cm       |
| GN-AP-MW-22    | 4/2/2019 12:40      | Depth to Water Detail         | 8.47         | ft          |
| GN-AP-MW-22    | 4/2/2019 12:40      | DO                            | 0.15         | mg/L        |
| GN-AP-MW-22    | 4/2/2019 12:40      | Oxidation Reduction Potention | 9.3          | mv          |
| GN-AP-MW-22    | 4/2/2019 12:40      | pH                            | 7.37         | pH          |
| GN-AP-MW-22    | 4/2/2019 12:40      | Temperature                   | 19.64        | C           |
| GN-AP-MW-22    | 4/2/2019 12:40      | Turbidity                     | 0.53         | NTU         |
| GN-AP-MW-22    | 4/2/2019 12:45      | Conductivity                  | 789.9        | uS/cm       |
| GN-AP-MW-22    | 4/2/2019 12:45      | Depth to Water Detail         | 8.47         | ft          |
| GN-AP-MW-22    | 4/2/2019 12:45      | DO                            | 0.14         | mg/L        |
| GN-AP-MW-22    | 4/2/2019 12:45      | Oxidation Reduction Potention | 6.7          | mv          |
| GN-AP-MW-22    | 4/2/2019 12:45      | pH                            | 7.35         | pH          |
| GN-AP-MW-22    | 4/2/2019 12:45      | Temperature                   | 19.5         | C           |
| GN-AP-MW-22    | 4/2/2019 12:45      | Turbidity                     | 0.43         | NTU         |
| GN-AP-MW-22    | 4/2/2019 12:50      | Conductivity                  | 793.9        | uS/cm       |
| GN-AP-MW-22    | 4/2/2019 12:50      | Depth to Water Detail         | 8.47         | ft          |
| GN-AP-MW-22    | 4/2/2019 12:50      | DO                            | 0.13         | mg/L        |
| GN-AP-MW-22    | 4/2/2019 12:50      | Oxidation Reduction Potention | 3.4          | mv          |
| GN-AP-MW-22    | 4/2/2019 12:50      | pH                            | 7.34         | pH          |
| GN-AP-MW-22    | 4/2/2019 12:50      | Temperature                   | 19.46        | C           |
| GN-AP-MW-22    | 4/2/2019 12:50      | Turbidity                     | 0.44         | NTU         |
| GN-AP-MW-22    | 4/2/2019 12:55      | Conductivity                  | 798.8        | uS/cm       |
| GN-AP-MW-22    | 4/2/2019 12:55      | Depth to Water Detail         | 8.47         | ft          |
| GN-AP-MW-22    | 4/2/2019 12:55      | DO                            | 0.13         | mg/L        |
| GN-AP-MW-22    | 4/2/2019 12:55      | Oxidation Reduction Potention | 1.5          | mv          |
| GN-AP-MW-22    | 4/2/2019 12:55      | pH                            | 7.33         | pH          |
| GN-AP-MW-22    | 4/2/2019 12:55      | Temperature                   | 19.55        | C           |
| GN-AP-MW-22    | 4/2/2019 12:55      | Turbidity                     | 0.39         | NTU         |

**Alabama Power Company  
Plant Gaston Ash Pond**

| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-1     | 5/9/2019 10:01      | Conductivity                  | 466.5        | uS/cm       |
| GN-AP-MW-1     | 5/9/2019 10:01      | DO                            | 3.73         | mg/L        |
| GN-AP-MW-1     | 5/9/2019 10:01      | Depth to Water Detail         | 31.82        | ft          |
| GN-AP-MW-1     | 5/9/2019 10:01      | Oxidation Reduction Potention | -27.8        | mv          |
| GN-AP-MW-1     | 5/9/2019 10:01      | pH                            | 7.54         | pH          |
| GN-AP-MW-1     | 5/9/2019 10:01      | Temperature                   | 22.24        | C           |
| GN-AP-MW-1     | 5/9/2019 10:01      | Turbidity                     | 4.84         | NTU         |
| GN-AP-MW-1     | 5/9/2019 10:24      | Conductivity                  | 494.2        | uS/cm       |
| GN-AP-MW-1     | 5/9/2019 10:24      | DO                            | 1.21         | mg/L        |
| GN-AP-MW-1     | 5/9/2019 10:24      | Depth to Water Detail         | 34.05        | ft          |
| GN-AP-MW-1     | 5/9/2019 10:24      | Oxidation Reduction Potention | -96.5        | mv          |
| GN-AP-MW-1     | 5/9/2019 10:24      | pH                            | 7.33         | pH          |
| GN-AP-MW-1     | 5/9/2019 10:24      | Temperature                   | 22.94        | C           |
| GN-AP-MW-1     | 5/9/2019 10:24      | Turbidity                     | 3.39         | NTU         |



**Alabama Power Company  
Plant Gaston Ash Pond**

| WELL ID      | READING TIME   | DESCRIPTION                   | VALUE  | UNIT  |
|--------------|----------------|-------------------------------|--------|-------|
| GN-AP-MW-15R | 5/7/2019 10:53 | Conductivity                  | 1225.5 | uS/cm |
| GN-AP-MW-15R | 5/7/2019 10:53 | DO                            | 0.85   | mg/L  |
| GN-AP-MW-15R | 5/7/2019 10:53 | Depth to Water Detail         | 41     | ft    |
| GN-AP-MW-15R | 5/7/2019 10:53 | Oxidation Reduction Potention | -31.2  | mv    |
| GN-AP-MW-15R | 5/7/2019 10:53 | pH                            | 7.47   | pH    |
| GN-AP-MW-15R | 5/7/2019 10:53 | Temperature                   | 21.53  | C     |
| GN-AP-MW-15R | 5/7/2019 10:53 | Turbidity                     | 0.63   | NTU   |
| GN-AP-MW-15R | 5/7/2019 10:58 | Conductivity                  | 1225.3 | uS/cm |
| GN-AP-MW-15R | 5/7/2019 10:58 | DO                            | 0.63   | mg/L  |
| GN-AP-MW-15R | 5/7/2019 10:58 | Depth to Water Detail         | 41.2   | ft    |
| GN-AP-MW-15R | 5/7/2019 10:58 | Oxidation Reduction Potention | -32.7  | mv    |
| GN-AP-MW-15R | 5/7/2019 10:58 | pH                            | 7.51   | pH    |
| GN-AP-MW-15R | 5/7/2019 10:58 | Temperature                   | 21.48  | C     |
| GN-AP-MW-15R | 5/7/2019 10:58 | Turbidity                     | 0.53   | NTU   |
| GN-AP-MW-15R | 5/7/2019 11:03 | Conductivity                  | 1225.3 | uS/cm |
| GN-AP-MW-15R | 5/7/2019 11:03 | DO                            | 0.53   | mg/L  |
| GN-AP-MW-15R | 5/7/2019 11:03 | Depth to Water Detail         | 41.33  | ft    |
| GN-AP-MW-15R | 5/7/2019 11:03 | Oxidation Reduction Potention | -34    | mv    |
| GN-AP-MW-15R | 5/7/2019 11:03 | pH                            | 7.54   | pH    |
| GN-AP-MW-15R | 5/7/2019 11:03 | Temperature                   | 21.49  | C     |
| GN-AP-MW-15R | 5/7/2019 11:03 | Turbidity                     | 0.66   | NTU   |
| GN-AP-MW-15R | 5/7/2019 11:08 | Conductivity                  | 1224.2 | uS/cm |
| GN-AP-MW-15R | 5/7/2019 11:08 | DO                            | 0.48   | mg/L  |
| GN-AP-MW-15R | 5/7/2019 11:08 | Depth to Water Detail         | 41.55  | ft    |
| GN-AP-MW-15R | 5/7/2019 11:08 | Oxidation Reduction Potention | -33.8  | mv    |
| GN-AP-MW-15R | 5/7/2019 11:08 | pH                            | 7.55   | pH    |
| GN-AP-MW-15R | 5/7/2019 11:08 | Temperature                   | 21.42  | C     |
| GN-AP-MW-15R | 5/7/2019 11:08 | Turbidity                     | 0.57   | NTU   |
| GN-AP-MW-15R | 5/7/2019 11:13 | Conductivity                  | 1225.5 | uS/cm |
| GN-AP-MW-15R | 5/7/2019 11:13 | DO                            | 0.46   | mg/L  |
| GN-AP-MW-15R | 5/7/2019 11:13 | Depth to Water Detail         | 41.64  | ft    |
| GN-AP-MW-15R | 5/7/2019 11:13 | Oxidation Reduction Potention | -33.3  | mv    |
| GN-AP-MW-15R | 5/7/2019 11:13 | pH                            | 7.56   | pH    |
| GN-AP-MW-15R | 5/7/2019 11:13 | Temperature                   | 21.39  | C     |
| GN-AP-MW-15R | 5/7/2019 11:13 | Turbidity                     | 0.52   | NTU   |
| GN-AP-MW-15R | 5/7/2019 11:18 | Conductivity                  | 1224.5 | uS/cm |
| GN-AP-MW-15R | 5/7/2019 11:18 | DO                            | 0.44   | mg/L  |
| GN-AP-MW-15R | 5/7/2019 11:18 | Depth to Water Detail         | 41.69  | ft    |
| GN-AP-MW-15R | 5/7/2019 11:18 | Oxidation Reduction Potention | -33.2  | mv    |
| GN-AP-MW-15R | 5/7/2019 11:18 | pH                            | 7.57   | pH    |
| GN-AP-MW-15R | 5/7/2019 11:18 | Temperature                   | 21.39  | C     |
| GN-AP-MW-15R | 5/7/2019 11:18 | Turbidity                     | 0.54   | 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**



## **E.C. Gaston 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).

Due to low yield, wells MW-1, MW-8 and MW-9 were sampled using the Minimal Purge Method, defined in the Plant Gaston Ash Pond SAP.

An additional dissolved set was collected on well MW-17V due to persistent, elevated turbidity levels.

MW-29H was sampled on 9/17/2019 and samples were submitted for analysis. Upon peer review, it was discovered that the DO stabilization criteria was not met, as defined in the Plant Gaston Ash Pond SAP. MW-29H was resampled on 9/26/2019 and samples were submitted for 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  
205-664-6001

# *Analytical Report*



**Sample Group :** WMWGASAP\_1240

**Project/Site :** Gaston Ash Pond  
Wilsonville, AL 35186

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

**Attention :** Dustin Brooks, Greg Dyer, & Lauren Parker

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

October 24, 2019

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on September 19, 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=lbrmidkif@southernco.com, c=US  
Date: 2019.10.24 10:54:13 -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: 2019.10.24 14:14:36 -05'00'



### REPORT OF LABORATORY ANALYSIS

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



Total Metals ICP

Gaston Ash Pond

WMWGASAP\_1240

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> |
|------------------|-----------------|-------------------|
| AZ21163          | 656256          | WMWGASAP_1240     |
| AZ21164          | 656256          | WMWGASAP_1240     |
| AZ21165          | 656256          | WMWGASAP_1240     |
| AZ21166          | 656256          | WMWGASAP_1240     |
| AZ21167          | 656256          | WMWGASAP_1240     |
| AZ21168          | 656256          | WMWGASAP_1240     |
| AZ21169          | 656256          | WMWGASAP_1240     |
| AZ21170          | 656256          | WMWGASAP_1240     |
| AZ21171          | 656256          | WMWGASAP_1240     |
| AZ21172          | 656256          | WMWGASAP_1240     |
| AZ21183          | 656257          | WMWGASAP_1240     |
| AZ21184          | 656257          | WMWGASAP_1240     |
| AZ21185          | 656257          | WMWGASAP_1240     |
| AZ21186          | 656257          | WMWGASAP_1240     |
| AZ21187          | 656257          | WMWGASAP_1240     |
| AZ21188          | 656257          | WMWGASAP_1240     |
| AZ21190          | 656257          | WMWGASAP_1240     |
| AZ21191          | 656257          | WMWGASAP_1240     |
| AZ21192          | 656257          | WMWGASAP_1240     |
| AZ21193          | 656258          | WMWGASAP_1240     |
| AZ21194          | 656258          | WMWGASAP_1240     |
| AZ21195          | 656258          | WMWGASAP_1240     |
| AZ21196          | 656258          | WMWGASAP_1240     |
| AZ21197          | 656258          | WMWGASAP_1240     |
| AZ21198          | 656258          | WMWGASAP_1240     |
| AZ21199          | 656258          | WMWGASAP_1240     |
| AZ21200          | 656258          | WMWGASAP_1240     |
| AZ21201          | 656258          | WMWGASAP_1240     |
| AZ21221          | 656258          | WMWGASAP_1240     |
| AZ21222          | 656259          | WMWGASAP_1240     |
| AZ21223          | 656259          | WMWGASAP_1240     |

|         |        |               |
|---------|--------|---------------|
| AZ21224 | 656259 | WMWGASAP_1240 |
| AZ21225 | 656259 | WMWGASAP_1240 |
| AZ21226 | 656259 | WMWGASAP_1240 |
| AZ21227 | 656259 | WMWGASAP_1240 |
| AZ21228 | 656259 | WMWGASAP_1240 |
| AZ21229 | 656259 | WMWGASAP_1240 |
| AZ21230 | 656259 | WMWGASAP_1240 |
| AZ21231 | 656259 | WMWGASAP_1240 |
| AZ21232 | 656260 | WMWGASAP_1240 |
| AZ21233 | 656260 | WMWGASAP_1240 |
| AZ21234 | 656260 | WMWGASAP_1240 |
| AZ21235 | 656260 | WMWGASAP_1240 |

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:
    - AZ21172, AZ21192, and AZ21235 MS/MSD spike levels for Calcium were less than 30% of the sample nominal concentrations.
  - A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

| <u>Sample ID</u> | <u>Analyte</u> | <u>Dilution Factor</u> |
|------------------|----------------|------------------------|
| AZ21163          | Calcium        | 10.15                  |
| AZ21164          | Calcium        | 10.15                  |
| AZ21165          | Calcium        | 10.15                  |
| AZ21167          | Calcium        | 10.15                  |
| AZ21168          | Calcium        | 10.15                  |
| AZ21169          | Calcium        | 10.15                  |
| AZ21170          | Calcium        | 10.15                  |
| AZ21171          | Calcium        | 10.15                  |
| AZ21172          | Calcium        | 10.15                  |
| AZ21184          | Calcium        | 10.15                  |
| AZ21185          | Calcium        | 10.15                  |
| AZ21186          | Calcium        | 10.15                  |
| AZ21187          | Calcium        | 10.15                  |
| AZ21188          | Calcium        | 10.15                  |
| AZ21190          | Calcium        | 10.15                  |
| AZ21192          | Calcium        | 10.15                  |
| AZ21193          | Calcium        | 10.15                  |
| AZ21194          | Calcium        | 10.15                  |
| AZ21195          | Calcium        | 10.15                  |
| AZ21196          | Calcium        | 10.15                  |
| AZ21198          | Calcium        | 10.15                  |
| AZ21199          | Calcium        | 10.15                  |
| AZ21201          | Calcium        | 10.15                  |



## Case Narrative

|         |         |       |
|---------|---------|-------|
| AZ21224 | Calcium | 10.15 |
| AZ21226 | Calcium | 10.15 |
| AZ21228 | Calcium | 10.15 |
| AZ21229 | Calcium | 10.15 |
| AZ21232 | Calcium | 10.15 |
| AZ21234 | Calcium | 10.15 |
| AZ21235 | Calcium | 10.15 |

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

## Case Narrative

Dissolved Metals ICP

Gaston Ash Pond

WMWGASAP\_1240

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> |
|------------------|-----------------|-------------------|
| AZ21189          | 656288          | WMWGASAP_1240     |

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 digested and analyzed with each ICP batch. All acceptance criteria for accuracy were met except for the following:
    - AZ21189 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 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> |
|------------------|----------------|------------------------|
| AZ21189          | Calcium        | 10.15                  |

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

Total Metals ICPMS

Gaston Ash Pond

WMWGASAP\_1240

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> |
|------------------|-----------------|-------------------|
| AZ21163          | 656533          | WMWGASAP_1240     |
| AZ21164          | 656533          | WMWGASAP_1240     |
| AZ21165          | 656533          | WMWGASAP_1240     |
| AZ21166          | 656533          | WMWGASAP_1240     |
| AZ21167          | 656533          | WMWGASAP_1240     |
| AZ21168          | 656533          | WMWGASAP_1240     |
| AZ21169          | 656533          | WMWGASAP_1240     |
| AZ21170          | 656533          | WMWGASAP_1240     |
| AZ21171          | 656533          | WMWGASAP_1240     |
| AZ21172          | 656533          | WMWGASAP_1240     |
| AZ21183          | 656534          | WMWGASAP_1240     |
| AZ21184          | 656534          | WMWGASAP_1240     |
| AZ21185          | 656534          | WMWGASAP_1240     |
| AZ21186          | 656534          | WMWGASAP_1240     |
| AZ21187          | 656534          | WMWGASAP_1240     |
| AZ21188          | 656534          | WMWGASAP_1240     |
| AZ21190          | 656534          | WMWGASAP_1240     |
| AZ21191          | 656534          | WMWGASAP_1240     |
| AZ21192          | 656534          | WMWGASAP_1240     |
| AZ21193          | 656534          | WMWGASAP_1240     |
| AZ21194          | 656535          | WMWGASAP_1240     |
| AZ21195          | 656535          | WMWGASAP_1240     |
| AZ21196          | 656535          | WMWGASAP_1240     |
| AZ21197          | 656535          | WMWGASAP_1240     |
| AZ21198          | 656535          | WMWGASAP_1240     |
| AZ21199          | 656535          | WMWGASAP_1240     |
| AZ21200          | 656535          | WMWGASAP_1240     |
| AZ21201          | 656535          | WMWGASAP_1240     |
| AZ21221          | 656535          | WMWGASAP_1240     |
| AZ21222          | 656535          | WMWGASAP_1240     |
| AZ21223          | 656536          | WMWGASAP_1240     |

|         |        |               |
|---------|--------|---------------|
| AZ21224 | 656536 | WMWGASAP_1240 |
| AZ21225 | 656536 | WMWGASAP_1240 |
| AZ21226 | 656536 | WMWGASAP_1240 |
| AZ21227 | 656536 | WMWGASAP_1240 |
| AZ21228 | 656536 | WMWGASAP_1240 |
| AZ21229 | 656536 | WMWGASAP_1240 |
| AZ21230 | 656536 | WMWGASAP_1240 |
| AZ21231 | 656536 | WMWGASAP_1240 |
| AZ21232 | 656536 | WMWGASAP_1240 |
| AZ21233 | 656537 | WMWGASAP_1240 |
| AZ21234 | 656537 | WMWGASAP_1240 |
| AZ21235 | 656537 | WMWGASAP_1240 |

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

#### General Quality Control Procedures:

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

## Matrix Specific Quality Control Procedures:

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

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

| <u>Sample ID</u> | <u>Analyte</u> | <u>Dilution Factor</u> |
|------------------|----------------|------------------------|
| AZ21188          | Molybdenum     | 5.075                  |
| AZ21190          | Molybdenum     | 5.075                  |

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

Dissolved Metals ICPMS

Gaston Ash Pond

WMWGASAP\_1240

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> |
|------------------|-----------------|-------------------|
| AZ21189          | 656462          | WMWGASAP_1240     |

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.
- A preparation method blank and laboratory control sample were analyzed with the samples in each preparation batch.
- All laboratory control sample criteria were met.
- The method blank associated with each preparation batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.

## Matrix Specific Quality Control Procedures:

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

- A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for accuracy were met, except for the following:
    - AZ21189 MS/MSD spike level for Molybdenum was less than 30% of the sample nominal concentration.
  - A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. The following 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> |
|------------------|----------------|------------------------|
| AZ21189          | Molybdenum     | 5.075                  |

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



Mercury

Gaston Ash Pond

WMWGASAP\_1240

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> |
|------------------|-----------------|-------------------|
| AZ21163          | 656356          | WMWGASAP_1240     |
| AZ21164          | 656356          | WMWGASAP_1240     |
| AZ21165          | 656356          | WMWGASAP_1240     |
| AZ21166          | 656356          | WMWGASAP_1240     |
| AZ21167          | 656356          | WMWGASAP_1240     |
| AZ21168          | 656356          | WMWGASAP_1240     |
| AZ21169          | 656356          | WMWGASAP_1240     |
| AZ21170          | 656356          | WMWGASAP_1240     |
| AZ21171          | 656356          | WMWGASAP_1240     |
| AZ21172          | 656356          | WMWGASAP_1240     |
| AZ21183          | 656357          | WMWGASAP_1240     |
| AZ21184          | 656357          | WMWGASAP_1240     |
| AZ21185          | 656357          | WMWGASAP_1240     |
| AZ21186          | 656357          | WMWGASAP_1240     |
| AZ21187          | 656357          | WMWGASAP_1240     |
| AZ21188          | 656357          | WMWGASAP_1240     |
| AZ21190          | 656357          | WMWGASAP_1240     |
| AZ21191          | 656357          | WMWGASAP_1240     |
| AZ21192          | 656357          | WMWGASAP_1240     |
| AZ21193          | 656357          | WMWGASAP_1240     |
| AZ21194          | 656358          | WMWGASAP_1240     |
| AZ21195          | 656358          | WMWGASAP_1240     |
| AZ21196          | 656358          | WMWGASAP_1240     |
| AZ21197          | 656358          | WMWGASAP_1240     |
| AZ21198          | 656358          | WMWGASAP_1240     |
| AZ21199          | 656358          | WMWGASAP_1240     |
| AZ21200          | 656358          | WMWGASAP_1240     |
| AZ21201          | 656358          | WMWGASAP_1240     |
| AZ21221          | 656358          | WMWGASAP_1240     |
| AZ21222          | 656358          | WMWGASAP_1240     |
| AZ21223          | 656359          | WMWGASAP_1240     |

|         |        |               |
|---------|--------|---------------|
| AZ21224 | 656359 | WMWGASAP_1240 |
| AZ21225 | 656359 | WMWGASAP_1240 |
| AZ21226 | 656359 | WMWGASAP_1240 |
| AZ21227 | 656359 | WMWGASAP_1240 |
| AZ21228 | 656359 | WMWGASAP_1240 |
| AZ21229 | 656359 | WMWGASAP_1240 |
| AZ21230 | 656359 | WMWGASAP_1240 |
| AZ21231 | 656359 | WMWGASAP_1240 |
| AZ21232 | 656359 | WMWGASAP_1240 |
| AZ21233 | 656360 | WMWGASAP_1240 |
| AZ21234 | 656360 | WMWGASAP_1240 |
| AZ21235 | 656360 | WMWGASAP_1240 |

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, except for the following:
  - AZ21232 CCV failed initially because the volume of standard was low in vial. Analyst re-poured CCV in a fresh vial and reanalyzed with passing results.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch was below the limit of quantitation for the requested analyte.
- All calibration met criteria for the requested analyte.
- All response signals were satisfactory.

### Matrix Specific Quality Control Procedures:

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

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

## Case Narrative

Dissolved Mercury

Gaston Ash Pond

WMWGASAP\_1240

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> |
|------------------|-----------------|-------------------|
| AZ21189          | 656447          | WMWGASAP_1240     |

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.
- 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

Gaston Ash Pond

WMWGASAP\_1240

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> |
|------------------|-----------------|-------------------|
| AZ21163          | 656234          | WMWGASAP_1240     |
| AZ21164          | 656234          | WMWGASAP_1240     |
| AZ21165          | 656234          | WMWGASAP_1240     |
| AZ21166          | 656234          | WMWGASAP_1240     |
| AZ21167          | 656234          | WMWGASAP_1240     |
| AZ21168          | 656234          | WMWGASAP_1240     |
| AZ21169          | 656234          | WMWGASAP_1240     |
| AZ21170          | 656234          | WMWGASAP_1240     |
| AZ21171          | 656234          | WMWGASAP_1240     |
| AZ21172          | 656234          | WMWGASAP_1240     |
| AZ21183          | 656235          | WMWGASAP_1240     |
| AZ21184          | 656235          | WMWGASAP_1240     |
| AZ21185          | 656235          | WMWGASAP_1240     |
| AZ21186          | 656235          | WMWGASAP_1240     |
| AZ21187          | 656235          | WMWGASAP_1240     |
| AZ21188          | 656235          | WMWGASAP_1240     |
| AZ21189          | 656235          | WMWGASAP_1240     |
| AZ21190          | 656235          | WMWGASAP_1240     |
| AZ21191          | 656235          | WMWGASAP_1240     |
| AZ21192          | 656235          | WMWGASAP_1240     |
| AZ21193          | 656293          | WMWGASAP_1240     |
| AZ21194          | 656293          | WMWGASAP_1240     |
| AZ21195          | 656293          | WMWGASAP_1240     |
| AZ21196          | 656349          | WMWGASAP_1240     |
| AZ21197          | 656349          | WMWGASAP_1240     |
| AZ21198          | 656349          | WMWGASAP_1240     |
| AZ21199          | 656349          | WMWGASAP_1240     |
| AZ21200          | 656349          | WMWGASAP_1240     |
| AZ21201          | 656292          | WMWGASAP_1240     |
| AZ21221          | 656292          | WMWGASAP_1240     |
| AZ21222          | 656292          | WMWGASAP_1240     |

|         |        |               |
|---------|--------|---------------|
| AZ21223 | 656293 | WMWGASAP_1240 |
| AZ21224 | 656293 | WMWGASAP_1240 |
| AZ21225 | 656293 | WMWGASAP_1240 |
| AZ21226 | 656293 | WMWGASAP_1240 |
| AZ21227 | 656293 | WMWGASAP_1240 |
| AZ21228 | 656293 | WMWGASAP_1240 |
| AZ21229 | 656292 | WMWGASAP_1240 |
| AZ21230 | 656292 | WMWGASAP_1240 |
| AZ21231 | 656292 | WMWGASAP_1240 |
| AZ21232 | 656292 | WMWGASAP_1240 |
| AZ21233 | 656292 | WMWGASAP_1240 |
| AZ21234 | 656292 | WMWGASAP_1240 |
| AZ21235 | 656292 | WMWGASAP_1240 |

4. All of the above samples were analyzed by Standard Method 2540C.
5. All samples were analyzed within the established hold times, except for the following: AZ21221, AZ21222, and AZ21223.
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:
  - AZ21166
  - AZ21191
  - AZ21197
  - AZ21200
  - AZ21225
  - AZ21233

## Anions

Gaston Ash Pond

WMWGASAP\_1240

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> |
|------------------|--------------------------|-------------------|
| AZ21163          | 656369, 656451, & 656695 | WMWGASAP_1240     |
| AZ21164          | 656369, 656451, & 656695 | WMWGASAP_1240     |
| AZ21165          | 656369, 656451, & 656695 | WMWGASAP_1240     |
| AZ21166          | 656369, 656451, & 656695 | WMWGASAP_1240     |
| AZ21167          | 656369, 656451, & 656695 | WMWGASAP_1240     |
| AZ21168          | 656369, 656451, & 656695 | WMWGASAP_1240     |
| AZ21169          | 656369, 656451, & 656695 | WMWGASAP_1240     |
| AZ21170          | 656369, 656451, & 656695 | WMWGASAP_1240     |
| AZ21171          | 656369, 656451, & 656695 | WMWGASAP_1240     |
| AZ21172          | 656369, 656451, & 656695 | WMWGASAP_1240     |
| AZ21183          | 656370, 656452, & 656696 | WMWGASAP_1240     |
| AZ21184          | 656370, 656452, & 656696 | WMWGASAP_1240     |
| AZ21185          | 656370, 656452, & 656696 | WMWGASAP_1240     |
| AZ21186          | 656370, 656452, & 656696 | WMWGASAP_1240     |
| AZ21187          | 656370, 656452, & 656696 | WMWGASAP_1240     |
| AZ21188          | 656370, 656452, & 656696 | WMWGASAP_1240     |
| AZ21189          | 656370, 656452, & 656696 | WMWGASAP_1240     |
| AZ21190          | 656370, 656452, & 656696 | WMWGASAP_1240     |
| AZ21191          | 656370, 656452, & 656696 | WMWGASAP_1240     |
| AZ21192          | 656370, 656452, & 656696 | WMWGASAP_1240     |
| AZ21193          | 656371, 656453, & 656697 | WMWGASAP_1240     |
| AZ21194          | 656371, 656453, & 656697 | WMWGASAP_1240     |
| AZ21195          | 656371, 656453, & 656697 | WMWGASAP_1240     |
| AZ21196          | 656371, 656453, & 656697 | WMWGASAP_1240     |
| AZ21197          | 656371, 656453, & 656697 | WMWGASAP_1240     |
| AZ21198          | 656371, 656453, & 656697 | WMWGASAP_1240     |
| AZ21199          | 656371, 656453, & 656697 | WMWGASAP_1240     |
| AZ21200          | 656371, 656453, & 656697 | WMWGASAP_1240     |
| AZ21201          | 656371, 656453, & 656697 | WMWGASAP_1240     |
| AZ21221          | 656372, 656454, & 656698 | WMWGASAP_1240     |
| AZ21222          | 656372, 656454, & 656698 | WMWGASAP_1240     |



|         |                          |               |
|---------|--------------------------|---------------|
| AZ21223 | 656372, 656454, & 656698 | WMWGASAP_1240 |
| AZ21224 | 656372, 656454, & 656698 | WMWGASAP_1240 |
| AZ21225 | 656372, 656454, & 656698 | WMWGASAP_1240 |
| AZ21226 | 656372, 656454, & 656698 | WMWGASAP_1240 |
| AZ21227 | 656372, 656454, & 656698 | WMWGASAP_1240 |
| AZ21228 | 656372, 656454, & 656698 | WMWGASAP_1240 |
| AZ21229 | 656372, 656454, & 656698 | WMWGASAP_1240 |
| AZ21230 | 656372, 656454, & 656698 | WMWGASAP_1240 |
| AZ21231 | 656373, 656455, & 656699 | WMWGASAP_1240 |
| AZ21232 | 656373, 656455, & 656699 | WMWGASAP_1240 |
| AZ21233 | 656373, 656455, & 656699 | WMWGASAP_1240 |
| AZ21234 | 656373, 656455, & 656699 | WMWGASAP_1240 |
| AZ21235 | 656373, 656455, & 656699 | WMWGASAP_1240 |

4. All of the above samples 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> |
|------------------|--------------------|------------------------|
| AZ21164          | Sulfate            | 10                     |
| AZ21165          | Sulfate & Chloride | 10 & 4                 |
| AZ21167          | Sulfate & Chloride | 10 & 4                 |
| AZ21168          | Sulfate & Chloride | 10 & 4                 |
| AZ21169          | Sulfate & Chloride | 10 & 4                 |
| AZ21170          | Sulfate & Chloride | 10 & 4                 |
| AZ21171          | Sulfate & Chloride | 10 & 4                 |
| AZ21172          | Sulfate & Chloride | 10 & 8                 |
| AZ21183          | Sulfate & Chloride | 10 & 3                 |
| AZ21184          | Sulfate & Chloride | 10 & 3                 |
| AZ21185          | Sulfate & Chloride | 10 & 3                 |
| AZ21186          | Sulfate            | 10                     |
| AZ21187          | Sulfate & Chloride | 10 & 3                 |
| AZ21188          | Sulfate & Chloride | 10 & 3                 |
| AZ21189          | Sulfate & Chloride | 10 & 3                 |
| AZ21190          | Sulfate & Chloride | 10 & 3                 |
| AZ21192          | Sulfate & Chloride | 10 & 4                 |
| AZ21193          | Sulfate            | 10                     |
| AZ21194          | Sulfate            | 40                     |
| AZ21195          | Sulfate            | 10                     |
| AZ21196          | Sulfate            | 25                     |
| AZ21198          | Sulfate & Chloride | 10 & 4                 |
| AZ21199          | Sulfate & Chloride | 10 & 4                 |
| AZ21201          | Sulfate & Chloride | 10 & 10                |
| AZ21223          | Sulfate            | 10                     |
| AZ21224          | Sulfate            | 10                     |
| AZ21226          | Sulfate & Chloride | 10 & 4                 |
| AZ21234          | Sulfate & Chloride | 10 & 10                |
| AZ21235          | Sulfate & Chloride | 10 & 10                |

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

# Certificate Of Analysis

**Description:** Gaston Ash Pond - MW-13

**Location Code:** WMWGASAP  
**Collected:** 9/17/19 10:50  
**Customer ID:**  
**Submittal Date:** 9/19/19 09:12

**Laboratory ID Number:** AZ21163

| Name                                     | Prepared      | Analyzed            | Vio Spec | DF                                  | Results      | Units | MDL    | RL     | Q |
|------------------------------------------|---------------|---------------------|----------|-------------------------------------|--------------|-------|--------|--------|---|
| <b>Analytical Method: EPA 200.7</b>      |               | <b>Analyst: RDA</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |   |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 10:23       |          | 1.015                               | Not Detected | mg/L  | 0.03   | 0.1    | U |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 12:07       |          | 10.15                               | 48.3         | mg/L  | 1.015  | 5.075  |   |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 10:23       |          | 1.015                               | Not Detected | mg/L  | 0.01   | 0.02   | U |
| <b>Analytical Method: EPA 200.8</b>      |               | <b>Analyst: DLJ</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |   |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 11:09       |          | 1.015                               | Not Detected | mg/L  | 0.0008 | 0.003  | U |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 11:09       |          | 1.015                               | Not Detected | mg/L  | 0.001  | 0.005  | U |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 11:09       |          | 1.015                               | 0.0396       | mg/L  | 0.002  | 0.01   |   |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 11:09       |          | 1.015                               | Not Detected | mg/L  | 0.0006 | 0.003  | U |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 11:09       |          | 1.015                               | Not Detected | mg/L  | 0.0003 | 0.001  | U |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 11:09       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 11:09       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.005  | U |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 11:09       |          | 1.015                               | Not Detected | mg/L  | 0.001  | 0.005  | U |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 11:09       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 11:09       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 11:09       |          | 1.015                               | Not Detected | mg/L  | 0.0002 | 0.001  | U |
| <b>Analytical Method: EPA 245.1</b>      |               | <b>Analyst: GAS</b> |          |                                     |              |       |        |        |   |
| * Mercury, Total by CVAA                 | 9/25/19 08:09 | 9/25/19 11:53       |          | 1                                   | Not Detected | mg/L  | 0.0003 | 0.0005 | U |
| <b>Analytical Method: SM 2540C</b>       |               | <b>Analyst: TJW</b> |          |                                     |              |       |        |        |   |
| * Solids, Dissolved                      | 9/20/19 14:30 | 9/23/19 16:00       |          | 1                                   | 204          | mg/L  |        | 25     |   |
| <b>Analytical Method: SM4500Cl E</b>     |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Chloride                               | 9/24/19 09:21 | 9/24/19 09:21       |          | 1                                   | 4.83         | mg/L  | 0.50   | 1      |   |
| <b>Analytical Method: SM4500F G 2017</b> |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Fluoride                               | 9/25/19 10:03 | 9/25/19 10:03       |          | 1                                   | 0.0753       | mg/L  | 0.05   | 0.1    | J |
| <b>Analytical Method: SM4500SO4 E</b>    |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Sulfate                                | 9/26/19 10:27 | 9/26/19 10:27       |          | 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:** WMWGASAP  
**Sample Date:** 9/17/19 10:50  
**Customer ID:**  
**Delivery Date:** 9/19/19 09:12

**Description:** Gaston Ash Pond - MW-13

**Laboratory ID Number:** AZ21163

| Sample  | Analysis               | Units | MB          |           | Spike | MS      | MSD     | LCS     | LCS              | Rec  |           | Prec   | Limit |
|---------|------------------------|-------|-------------|-----------|-------|---------|---------|---------|------------------|------|-----------|--------|-------|
|         |                        |       | MB          | Limit     |       |         |         |         | Limit            | Rec  | Limit     |        |       |
| AZ21172 | Arsenic, Total         | mg/L  | -0.00000011 | 0.0001474 | 0.10  | 0.104   | 0.103   | 0.105   | 0.085 to 0.115   | 104  | 70 to 130 | 0.419  | 20    |
| AZ21172 | Barium, Total          | mg/L  | 0.0000211   | 0.0002    | 0.10  | 0.138   | 0.140   | 0.105   | 0.085 to 0.115   | 104  | 70 to 130 | 1.30   | 20    |
| AZ21172 | Beryllium, Total       | mg/L  | 0.0000204   | 0.00088   | 0.10  | 0.101   | 0.103   | 0.0999  | 0.085 to 0.115   | 101  | 70 to 130 | 2.42   | 20    |
| AZ21172 | Boron, Total           | mg/L  | 0.00110     | 0.0650254 | 1.00  | 3.32    | 3.28    | 1.01    | 0.85 to 1.15     | 102  | 70 to 130 | 1.40   | 20    |
| AZ21172 | Calcium, Total         | mg/L  | -0.00677    | 0.1518    | 5.00  | 82.8    | 98.5    | 5.11    | 4.25 to 5.75     | 58.3 | 70 to 130 | 17.3   | 20    |
| AZ21172 | Cadmium, Total         | mg/L  | 0.00000000  | 0.0001474 | 0.10  | 0.102   | 0.103   | 0.106   | 0.085 to 0.115   | 102  | 70 to 130 | 0.974  | 20    |
| AZ21172 | Cobalt, Total          | mg/L  | 0.00000033  | 0.0001474 | 0.10  | 0.104   | 0.103   | 0.107   | 0.085 to 0.115   | 104  | 70 to 130 | 0.840  | 20    |
| AZ21172 | Chromium, Total        | mg/L  | -0.00000666 | 0.00044   | 0.10  | 0.0998  | 0.0999  | 0.102   | 0.085 to 0.115   | 99.8 | 70 to 130 | 0.0619 | 20    |
| AZ21172 | Mercury, Total by CVAA | mg/L  | 0.0000307   | 0.0005    | 0.004 | 0.00427 | 0.00431 | 0.00414 | 0.0034 to 0.0046 | 107  | 70 to 130 | 0.939  | 20    |
| AZ21172 | Lithium, Total         | mg/L  | -0.000112   | 0.0154    | 0.20  | 0.260   | 0.257   | 0.201   | 0.17 to 0.23     | 109  | 70 to 130 | 1.27   | 20    |
| AZ21172 | Molybdenum, Total      | mg/L  | 0.0000140   | 0.0001474 | 0.10  | 0.355   | 0.362   | 0.0999  | 0.085 to 0.115   | 93.4 | 70 to 130 | 2.06   | 20    |
| AZ21172 | Lead, Total            | mg/L  | 0.00000405  | 0.0001474 | 0.10  | 0.107   | 0.106   | 0.107   | 0.085 to 0.115   | 107  | 70 to 130 | 1.71   | 20    |
| AZ21172 | Antimony, Total        | mg/L  | 0.000189    | 0.00066   | 0.10  | 0.105   | 0.105   | 0.101   | 0.085 to 0.115   | 105  | 70 to 130 | 0.316  | 20    |
| AZ21172 | Selenium, Total        | mg/L  | 0.0000923   | 0.00066   | 0.10  | 0.106   | 0.106   | 0.108   | 0.085 to 0.115   | 106  | 70 to 130 | 0.159  | 20    |
| AZ21172 | Thallium, Total        | mg/L  | 0.00000141  | 0.0001474 | 0.10  | 0.114   | 0.112   | 0.113   | 0.085 to 0.115   | 114  | 70 to 130 | 2.05   | 20    |

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

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

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

Laboratory certification ID: E571114  
 Issued By: State of Florida, Department of Health  
 Expiration: June 30, 2018

**Comments:**

## Batch QC Summary

**Customer Account:** WMWGASAP

**Sample Date:** 9/17/19 10:50

**Customer ID:**

**Delivery Date:** 9/19/19 09:12

**Description:** Gaston Ash Pond - MW-13

**Laboratory ID Number:** AZ21163

| Sample  | Analysis          | Units | MB      | MB    |       | MS   | MSD    | LCS  | LCS          |      | Rec       |       | Prec | Limit |
|---------|-------------------|-------|---------|-------|-------|------|--------|------|--------------|------|-----------|-------|------|-------|
|         |                   |       |         | Limit | Spike |      |        |      | Limit        | Rec  | Limit     | Prec  |      |       |
| AZ21172 | Chloride          | mg/L  | -0.0178 | 0.50  | 80.0  | 126  | 43.0   | 10.0 | 9 to 11      | 104  | 80 to 120 | 0.466 | 20   |       |
| AZ21172 | Fluoride          | mg/L  | 0.027   | 0.05  | 2.50  | 2.54 | 0.0572 | 2.61 | 2.25 to 2.75 | 99.3 | 80 to 120 | 0.702 | 20   |       |
| AZ21172 | Sulfate           | mg/L  | -0.437  | 0.50  | 200   | 361  | 163    | 19.2 | 18 to 22     | 97.0 | 80 to 120 | 2.42  | 20   |       |
| AZ21172 | Solids, Dissolved | mg/L  | 2.00    | 25    | 50.0  |      | 435    | 52.0 | 40 to 60     | 104  | 80 to 120 | 0.115 | 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:** Gaston Ash Pond - MW-14

**Location Code:** WMWGASAP  
**Collected:** 9/17/19 12:35  
**Customer ID:**  
**Submittal Date:** 9/19/19 09:12

**Laboratory ID Number:** AZ21164

| Name                                     | Prepared      | Analyzed            | Vio Spec | DF                                  | Results      | Units | MDL    | RL     | Q |
|------------------------------------------|---------------|---------------------|----------|-------------------------------------|--------------|-------|--------|--------|---|
| <b>Analytical Method: EPA 200.7</b>      |               | <b>Analyst: RDA</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |   |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 10:26       |          | 1.015                               | Not Detected | mg/L  | 0.03   | 0.1    | U |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 12:10       |          | 10.15                               | 74.9         | mg/L  | 1.015  | 5.075  |   |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 10:26       |          | 1.015                               | Not Detected | mg/L  | 0.01   | 0.02   | U |
| <b>Analytical Method: EPA 200.8</b>      |               | <b>Analyst: DLJ</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |   |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 11:12       |          | 1.015                               | Not Detected | mg/L  | 0.0008 | 0.003  | U |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 11:12       |          | 1.015                               | 0.00108      | mg/L  | 0.001  | 0.005  | J |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 11:12       |          | 1.015                               | 0.0745       | mg/L  | 0.002  | 0.01   |   |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 11:12       |          | 1.015                               | Not Detected | mg/L  | 0.0006 | 0.003  | U |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 11:12       |          | 1.015                               | Not Detected | mg/L  | 0.0003 | 0.001  | U |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 11:12       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 11:12       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.005  | U |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 11:12       |          | 1.015                               | Not Detected | mg/L  | 0.001  | 0.005  | U |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 11:12       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 11:12       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 11:12       |          | 1.015                               | Not Detected | mg/L  | 0.0002 | 0.001  | U |
| <b>Analytical Method: EPA 245.1</b>      |               | <b>Analyst: GAS</b> |          |                                     |              |       |        |        |   |
| * Mercury, Total by CVAA                 | 9/25/19 08:09 | 9/25/19 11:55       |          | 1                                   | Not Detected | mg/L  | 0.0003 | 0.0005 | U |
| <b>Analytical Method: SM 2540C</b>       |               | <b>Analyst: TJW</b> |          |                                     |              |       |        |        |   |
| * Solids, Dissolved                      | 9/20/19 14:30 | 9/23/19 16:00       |          | 1                                   | 439          | mg/L  |        | 25     |   |
| <b>Analytical Method: SM4500Cl E</b>     |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Chloride                               | 9/24/19 09:23 | 9/24/19 09:23       |          | 1                                   | 4.16         | mg/L  | 0.50   | 1      |   |
| <b>Analytical Method: SM4500F G 2017</b> |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Fluoride                               | 9/25/19 10:04 | 9/25/19 10:04       |          | 1                                   | 0.116        | mg/L  | 0.05   | 0.1    |   |
| <b>Analytical Method: SM4500SO4 E</b>    |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Sulfate                                | 9/26/19 10:28 | 9/26/19 10:28       |          | 10                                  | 131          | mg/L  | 5.00   | 10     |   |

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

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/17/19 12:35  
**Customer ID:**  
**Delivery Date:** 9/19/19 09:12

**Description:** Gaston Ash Pond - MW-14

**Laboratory ID Number:** AZ21164

| Sample  | Analysis               | Units | MB          |           | Spike | MS      | MSD     | LCS     | LCS              | Rec  |           | Prec   | Limit |
|---------|------------------------|-------|-------------|-----------|-------|---------|---------|---------|------------------|------|-----------|--------|-------|
|         |                        |       | MB          | Limit     |       |         |         |         | Limit            | Rec  | Limit     |        |       |
| AZ21172 | Arsenic, Total         | mg/L  | -0.00000011 | 0.0001474 | 0.10  | 0.104   | 0.103   | 0.105   | 0.085 to 0.115   | 104  | 70 to 130 | 0.419  | 20    |
| AZ21172 | Barium, Total          | mg/L  | 0.0000211   | 0.0002    | 0.10  | 0.138   | 0.140   | 0.105   | 0.085 to 0.115   | 104  | 70 to 130 | 1.30   | 20    |
| AZ21172 | Beryllium, Total       | mg/L  | 0.0000204   | 0.00088   | 0.10  | 0.101   | 0.103   | 0.0999  | 0.085 to 0.115   | 101  | 70 to 130 | 2.42   | 20    |
| AZ21172 | Boron, Total           | mg/L  | 0.00110     | 0.0650254 | 1.00  | 3.32    | 3.28    | 1.01    | 0.85 to 1.15     | 102  | 70 to 130 | 1.40   | 20    |
| AZ21172 | Calcium, Total         | mg/L  | -0.00677    | 0.1518    | 5.00  | 82.8    | 98.5    | 5.11    | 4.25 to 5.75     | 58.3 | 70 to 130 | 17.3   | 20    |
| AZ21172 | Cadmium, Total         | mg/L  | 0.00000000  | 0.0001474 | 0.10  | 0.102   | 0.103   | 0.106   | 0.085 to 0.115   | 102  | 70 to 130 | 0.974  | 20    |
| AZ21172 | Cobalt, Total          | mg/L  | 0.00000033  | 0.0001474 | 0.10  | 0.104   | 0.103   | 0.107   | 0.085 to 0.115   | 104  | 70 to 130 | 0.840  | 20    |
| AZ21172 | Chromium, Total        | mg/L  | -0.00000666 | 0.00044   | 0.10  | 0.0998  | 0.0999  | 0.102   | 0.085 to 0.115   | 99.8 | 70 to 130 | 0.0619 | 20    |
| AZ21172 | Mercury, Total by CVAA | mg/L  | 0.0000307   | 0.0005    | 0.004 | 0.00427 | 0.00431 | 0.00414 | 0.0034 to 0.0046 | 107  | 70 to 130 | 0.939  | 20    |
| AZ21172 | Lithium, Total         | mg/L  | -0.000112   | 0.0154    | 0.20  | 0.260   | 0.257   | 0.201   | 0.17 to 0.23     | 109  | 70 to 130 | 1.27   | 20    |
| AZ21172 | Molybdenum, Total      | mg/L  | 0.0000140   | 0.0001474 | 0.10  | 0.355   | 0.362   | 0.0999  | 0.085 to 0.115   | 93.4 | 70 to 130 | 2.06   | 20    |
| AZ21172 | Lead, Total            | mg/L  | 0.00000405  | 0.0001474 | 0.10  | 0.107   | 0.106   | 0.107   | 0.085 to 0.115   | 107  | 70 to 130 | 1.71   | 20    |
| AZ21172 | Antimony, Total        | mg/L  | 0.000189    | 0.00066   | 0.10  | 0.105   | 0.105   | 0.101   | 0.085 to 0.115   | 105  | 70 to 130 | 0.316  | 20    |
| AZ21172 | Selenium, Total        | mg/L  | 0.0000923   | 0.00066   | 0.10  | 0.106   | 0.106   | 0.108   | 0.085 to 0.115   | 106  | 70 to 130 | 0.159  | 20    |
| AZ21172 | Thallium, Total        | mg/L  | 0.00000141  | 0.0001474 | 0.10  | 0.114   | 0.112   | 0.113   | 0.085 to 0.115   | 114  | 70 to 130 | 2.05   | 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:** WMWGASAP  
**Sample Date:** 9/17/19 12:35  
**Customer ID:**  
**Delivery Date:** 9/19/19 09:12

**Description:** Gaston Ash Pond - MW-14

**Laboratory ID Number:** AZ21164

| Sample  | Analysis          | Units | MB      | MB    |       | MS   | MSD    | LCS  | LCS          |      | Rec       |       | Prec |
|---------|-------------------|-------|---------|-------|-------|------|--------|------|--------------|------|-----------|-------|------|
|         |                   |       |         | Limit | Spike |      |        |      | Limit        | Rec  | Limit     | Prec  |      |
| AZ21172 | Chloride          | mg/L  | -0.0178 | 0.50  | 80.0  | 126  | 43.0   | 10.0 | 9 to 11      | 104  | 80 to 120 | 0.466 | 20   |
| AZ21172 | Fluoride          | mg/L  | 0.027   | 0.05  | 2.50  | 2.54 | 0.0572 | 2.61 | 2.25 to 2.75 | 99.3 | 80 to 120 | 0.702 | 20   |
| AZ21172 | Sulfate           | mg/L  | -0.437  | 0.50  | 200   | 361  | 163    | 19.2 | 18 to 22     | 97.0 | 80 to 120 | 2.42  | 20   |
| AZ21172 | Solids, Dissolved | mg/L  | 2.00    | 25    | 50.0  |      | 435    | 52.0 | 40 to 60     | 104  | 80 to 120 | 0.115 | 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:** Gaston Ash Pond - MW-23S

**Location Code:** WMWGASAP  
**Collected:** 9/17/19 15:22  
**Customer ID:**  
**Submittal Date:** 9/19/19 09:12

**Laboratory ID Number:** AZ21165

| Name                                     | Prepared      | Analyzed      | Vio Spec            | DF    | Results                             | Units | MDL    | RL     | Q |
|------------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-------|--------|--------|---|
| <b>Analytical Method: EPA 200.7</b>      |               |               | <b>Analyst: RDA</b> |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 10:29 |                     | 1.015 | 0.735                               | mg/L  | 0.03   | 0.1    |   |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 12:13 |                     | 10.15 | 66.8                                | mg/L  | 1.015  | 5.075  |   |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 10:29 |                     | 1.015 | Not Detected                        | mg/L  | 0.01   | 0.02   | U |
| <b>Analytical Method: EPA 200.8</b>      |               |               | <b>Analyst: DLJ</b> |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 11:14 |                     | 1.015 | Not Detected                        | mg/L  | 0.0008 | 0.003  | U |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 11:14 |                     | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 11:14 |                     | 1.015 | 0.0316                              | mg/L  | 0.002  | 0.01   |   |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 11:14 |                     | 1.015 | Not Detected                        | mg/L  | 0.0006 | 0.003  | U |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 11:14 |                     | 1.015 | Not Detected                        | mg/L  | 0.0003 | 0.001  | U |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 11:14 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 11:14 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.005  | U |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 11:14 |                     | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 11:14 |                     | 1.015 | 0.0142                              | mg/L  | 0.002  | 0.01   |   |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 11:14 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 11:14 |                     | 1.015 | Not Detected                        | mg/L  | 0.0002 | 0.001  | U |
| <b>Analytical Method: EPA 245.1</b>      |               |               | <b>Analyst: GAS</b> |       |                                     |       |        |        |   |
| * Mercury, Total by CVAA                 | 9/25/19 08:09 | 9/25/19 11:58 |                     | 1     | Not Detected                        | mg/L  | 0.0003 | 0.0005 | U |
| <b>Analytical Method: SM 2540C</b>       |               |               | <b>Analyst: TJW</b> |       |                                     |       |        |        |   |
| * Solids, Dissolved                      | 9/20/19 14:30 | 9/23/19 16:00 |                     | 1     | 342                                 | mg/L  |        | 25     |   |
| <b>Analytical Method: SM4500CI E</b>     |               |               | <b>Analyst: JCC</b> |       |                                     |       |        |        |   |
| * Chloride                               | 9/24/19 09:24 | 9/24/19 09:24 |                     | 4     | 44.7                                | mg/L  | 2.00   | 4      |   |
| <b>Analytical Method: SM4500F G 2017</b> |               |               | <b>Analyst: JCC</b> |       |                                     |       |        |        |   |
| * Fluoride                               | 9/25/19 10:05 | 9/25/19 10:05 |                     | 1     | 0.0892                              | mg/L  | 0.05   | 0.1    | J |
| <b>Analytical Method: SM4500SO4 E</b>    |               |               | <b>Analyst: JCC</b> |       |                                     |       |        |        |   |
| * Sulfate                                | 9/26/19 10:29 | 9/26/19 10:29 |                     | 10    | 67.1                                | mg/L  | 5.00   | 10     |   |

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

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/17/19 15:22  
**Customer ID:**  
**Delivery Date:** 9/19/19 09:12

**Description:** Gaston Ash Pond - MW-23S

**Laboratory ID Number:** AZ21165

| Sample  | Analysis               | Units | MB          |           | MS    | MSD     | LCS     | LCS     | Rec              |       | Prec      | Limit  |    |
|---------|------------------------|-------|-------------|-----------|-------|---------|---------|---------|------------------|-------|-----------|--------|----|
|         |                        |       | MB          | Limit     |       |         |         |         | Rec              | Limit |           |        |    |
| AZ21172 | Arsenic, Total         | mg/L  | -0.00000011 | 0.0001474 | 0.10  | 0.104   | 0.103   | 0.105   | 0.085 to 0.115   | 104   | 70 to 130 | 0.419  | 20 |
| AZ21172 | Barium, Total          | mg/L  | 0.0000211   | 0.0002    | 0.10  | 0.138   | 0.140   | 0.105   | 0.085 to 0.115   | 104   | 70 to 130 | 1.30   | 20 |
| AZ21172 | Beryllium, Total       | mg/L  | 0.0000204   | 0.00088   | 0.10  | 0.101   | 0.103   | 0.0999  | 0.085 to 0.115   | 101   | 70 to 130 | 2.42   | 20 |
| AZ21172 | Boron, Total           | mg/L  | 0.00110     | 0.0650254 | 1.00  | 3.32    | 3.28    | 1.01    | 0.85 to 1.15     | 102   | 70 to 130 | 1.40   | 20 |
| AZ21172 | Calcium, Total         | mg/L  | -0.00677    | 0.1518    | 5.00  | 82.8    | 98.5    | 5.11    | 4.25 to 5.75     | 58.3  | 70 to 130 | 17.3   | 20 |
| AZ21172 | Cadmium, Total         | mg/L  | 0.00000000  | 0.0001474 | 0.10  | 0.102   | 0.103   | 0.106   | 0.085 to 0.115   | 102   | 70 to 130 | 0.974  | 20 |
| AZ21172 | Cobalt, Total          | mg/L  | 0.00000033  | 0.0001474 | 0.10  | 0.104   | 0.103   | 0.107   | 0.085 to 0.115   | 104   | 70 to 130 | 0.840  | 20 |
| AZ21172 | Chromium, Total        | mg/L  | -0.00000666 | 0.00044   | 0.10  | 0.0998  | 0.0999  | 0.102   | 0.085 to 0.115   | 99.8  | 70 to 130 | 0.0619 | 20 |
| AZ21172 | Mercury, Total by CVAA | mg/L  | 0.0000307   | 0.0005    | 0.004 | 0.00427 | 0.00431 | 0.00414 | 0.0034 to 0.0046 | 107   | 70 to 130 | 0.939  | 20 |
| AZ21172 | Lithium, Total         | mg/L  | -0.000112   | 0.0154    | 0.20  | 0.260   | 0.257   | 0.201   | 0.17 to 0.23     | 109   | 70 to 130 | 1.27   | 20 |
| AZ21172 | Molybdenum, Total      | mg/L  | 0.0000140   | 0.0001474 | 0.10  | 0.355   | 0.362   | 0.0999  | 0.085 to 0.115   | 93.4  | 70 to 130 | 2.06   | 20 |
| AZ21172 | Lead, Total            | mg/L  | 0.00000405  | 0.0001474 | 0.10  | 0.107   | 0.106   | 0.107   | 0.085 to 0.115   | 107   | 70 to 130 | 1.71   | 20 |
| AZ21172 | Antimony, Total        | mg/L  | 0.000189    | 0.00066   | 0.10  | 0.105   | 0.105   | 0.101   | 0.085 to 0.115   | 105   | 70 to 130 | 0.316  | 20 |
| AZ21172 | Selenium, Total        | mg/L  | 0.0000923   | 0.00066   | 0.10  | 0.106   | 0.106   | 0.108   | 0.085 to 0.115   | 106   | 70 to 130 | 0.159  | 20 |
| AZ21172 | Thallium, Total        | mg/L  | 0.00000141  | 0.0001474 | 0.10  | 0.114   | 0.112   | 0.113   | 0.085 to 0.115   | 114   | 70 to 130 | 2.05   | 20 |

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

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

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

Laboratory certification ID: E571114  
 Issued By: State of Florida, Department of Health  
 Expiration: June 30, 2018

**Comments:**

## Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/17/19 15:22  
**Customer ID:**  
**Delivery Date:** 9/19/19 09:12

**Description:** Gaston Ash Pond - MW-23S

**Laboratory ID Number:** AZ21165

| Sample  | Analysis          | Units | MB      | MB    |       | MS   | MSD    | LCS  | LCS          |      | Rec       |       | Prec |
|---------|-------------------|-------|---------|-------|-------|------|--------|------|--------------|------|-----------|-------|------|
|         |                   |       |         | Limit | Spike |      |        |      | Limit        | Rec  | Limit     | Prec  |      |
| AZ21172 | Chloride          | mg/L  | -0.0178 | 0.50  | 80.0  | 126  | 43.0   | 10.0 | 9 to 11      | 104  | 80 to 120 | 0.466 | 20   |
| AZ21172 | Fluoride          | mg/L  | 0.027   | 0.05  | 2.50  | 2.54 | 0.0572 | 2.61 | 2.25 to 2.75 | 99.3 | 80 to 120 | 0.702 | 20   |
| AZ21172 | Sulfate           | mg/L  | -0.437  | 0.50  | 200   | 361  | 163    | 19.2 | 18 to 22     | 97.0 | 80 to 120 | 2.42  | 20   |
| AZ21172 | Solids, Dissolved | mg/L  | 2.00    | 25    | 50.0  |      | 435    | 52.0 | 40 to 60     | 104  | 80 to 120 | 0.115 | 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:** Gaston Ash Pond Field Blank

**Location Code:** WMWGASAPFB  
**Collected:** 9/17/19 16:10  
**Customer ID:**  
**Submittal Date:** 9/19/19 09:12

**Laboratory ID Number:** AZ21166

| Name                                     | Prepared      | Analyzed      | Vio Spec            | DF    | Results                             | Units | MDL    | RL     | Q |
|------------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-------|--------|--------|---|
| <b>Analytical Method: EPA 200.7</b>      |               |               | <b>Analyst: RDA</b> |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 10:32 |                     | 1.015 | Not Detected                        | mg/L  | 0.03   | 0.1    | U |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 10:32 |                     | 1.015 | Not Detected                        | mg/L  | 0.1    | 0.5    | U |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 10:32 |                     | 1.015 | Not Detected                        | mg/L  | 0.01   | 0.02   | U |
| <b>Analytical Method: EPA 200.8</b>      |               |               | <b>Analyst: DLJ</b> |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 11:17 |                     | 1.015 | Not Detected                        | mg/L  | 0.0008 | 0.003  | U |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 11:17 |                     | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 11:17 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 11:17 |                     | 1.015 | Not Detected                        | mg/L  | 0.0006 | 0.003  | U |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 11:17 |                     | 1.015 | Not Detected                        | mg/L  | 0.0003 | 0.001  | U |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 11:17 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 11:17 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.005  | U |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 11:17 |                     | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 11:17 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 11:17 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 11:17 |                     | 1.015 | Not Detected                        | mg/L  | 0.0002 | 0.001  | U |
| <b>Analytical Method: EPA 245.1</b>      |               |               | <b>Analyst: GAS</b> |       |                                     |       |        |        |   |
| * Mercury, Total by CVAA                 | 9/25/19 08:09 | 9/25/19 12:00 |                     | 1     | Not Detected                        | mg/L  | 0.0003 | 0.0005 | U |
| <b>Analytical Method: SM 2540C</b>       |               |               | <b>Analyst: TJW</b> |       |                                     |       |        |        |   |
| * Solids, Dissolved                      | 9/20/19 14:30 | 9/23/19 16:00 |                     | 1     | Not Detected                        | mg/L  |        | 25     | U |
| <b>Analytical Method: SM4500CI E</b>     |               |               | <b>Analyst: JCC</b> |       |                                     |       |        |        |   |
| * Chloride                               | 9/24/19 09:25 | 9/24/19 09:25 |                     | 1     | Not Detected                        | mg/L  | 0.50   | 1      | U |
| <b>Analytical Method: SM4500F G 2017</b> |               |               | <b>Analyst: JCC</b> |       |                                     |       |        |        |   |
| * Fluoride                               | 9/25/19 10:07 | 9/25/19 10:07 |                     | 1     | Not Detected                        | mg/L  | 0.05   | 0.1    | U |
| <b>Analytical Method: SM4500SO4 E</b>    |               |               | <b>Analyst: JCC</b> |       |                                     |       |        |        |   |
| * Sulfate                                | 9/26/19 10:30 | 9/26/19 10:30 |                     | 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:** WMWGASAPFB

**Sample Date:** 9/17/19 16:10

**Customer ID:**

**Delivery Date:** 9/19/19 09:12

**Description:** Gaston Ash Pond Field Blank

**Laboratory ID Number:** AZ21166

| Sample  | Analysis               | Units | MB          |           | Spike | MS      | MSD     | LCS     | LCS              | Rec  |           | Prec   | Limit |
|---------|------------------------|-------|-------------|-----------|-------|---------|---------|---------|------------------|------|-----------|--------|-------|
|         |                        |       | MB          | Limit     |       |         |         |         | Limit            | Rec  | Limit     |        |       |
| AZ21172 | Arsenic, Total         | mg/L  | -0.00000011 | 0.0001474 | 0.10  | 0.104   | 0.103   | 0.105   | 0.085 to 0.115   | 104  | 70 to 130 | 0.419  | 20    |
| AZ21172 | Barium, Total          | mg/L  | 0.0000211   | 0.0002    | 0.10  | 0.138   | 0.140   | 0.105   | 0.085 to 0.115   | 104  | 70 to 130 | 1.30   | 20    |
| AZ21172 | Beryllium, Total       | mg/L  | 0.0000204   | 0.00088   | 0.10  | 0.101   | 0.103   | 0.0999  | 0.085 to 0.115   | 101  | 70 to 130 | 2.42   | 20    |
| AZ21172 | Boron, Total           | mg/L  | 0.00110     | 0.0650254 | 1.00  | 3.32    | 3.28    | 1.01    | 0.85 to 1.15     | 102  | 70 to 130 | 1.40   | 20    |
| AZ21172 | Calcium, Total         | mg/L  | -0.00677    | 0.1518    | 5.00  | 82.8    | 98.5    | 5.11    | 4.25 to 5.75     | 58.3 | 70 to 130 | 17.3   | 20    |
| AZ21172 | Cadmium, Total         | mg/L  | 0.00000000  | 0.0001474 | 0.10  | 0.102   | 0.103   | 0.106   | 0.085 to 0.115   | 102  | 70 to 130 | 0.974  | 20    |
| AZ21172 | Cobalt, Total          | mg/L  | 0.00000033  | 0.0001474 | 0.10  | 0.104   | 0.103   | 0.107   | 0.085 to 0.115   | 104  | 70 to 130 | 0.840  | 20    |
| AZ21172 | Chromium, Total        | mg/L  | -0.00000666 | 0.00044   | 0.10  | 0.0998  | 0.0999  | 0.102   | 0.085 to 0.115   | 99.8 | 70 to 130 | 0.0619 | 20    |
| AZ21172 | Mercury, Total by CVAA | mg/L  | 0.0000307   | 0.0005    | 0.004 | 0.00427 | 0.00431 | 0.00414 | 0.0034 to 0.0046 | 107  | 70 to 130 | 0.939  | 20    |
| AZ21172 | Lithium, Total         | mg/L  | -0.000112   | 0.0154    | 0.20  | 0.260   | 0.257   | 0.201   | 0.17 to 0.23     | 109  | 70 to 130 | 1.27   | 20    |
| AZ21172 | Molybdenum, Total      | mg/L  | 0.0000140   | 0.0001474 | 0.10  | 0.355   | 0.362   | 0.0999  | 0.085 to 0.115   | 93.4 | 70 to 130 | 2.06   | 20    |
| AZ21172 | Lead, Total            | mg/L  | 0.00000405  | 0.0001474 | 0.10  | 0.107   | 0.106   | 0.107   | 0.085 to 0.115   | 107  | 70 to 130 | 1.71   | 20    |
| AZ21172 | Antimony, Total        | mg/L  | 0.000189    | 0.00066   | 0.10  | 0.105   | 0.105   | 0.101   | 0.085 to 0.115   | 105  | 70 to 130 | 0.316  | 20    |
| AZ21172 | Selenium, Total        | mg/L  | 0.0000923   | 0.00066   | 0.10  | 0.106   | 0.106   | 0.108   | 0.085 to 0.115   | 106  | 70 to 130 | 0.159  | 20    |
| AZ21172 | Thallium, Total        | mg/L  | 0.00000141  | 0.0001474 | 0.10  | 0.114   | 0.112   | 0.113   | 0.085 to 0.115   | 114  | 70 to 130 | 2.05   | 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:** WMWGASAPFB

**Sample Date:** 9/17/19 16:10

**Customer ID:**

**Delivery Date:** 9/19/19 09:12

**Description:** Gaston Ash Pond Field Blank

**Laboratory ID Number:** AZ21166

| Sample  | Analysis          | Units | MB      | MB    |       | MS   | MSD    | LCS  | LCS          |      | Rec       |       | Prec | Limit |
|---------|-------------------|-------|---------|-------|-------|------|--------|------|--------------|------|-----------|-------|------|-------|
|         |                   |       |         | Limit | Spike |      |        |      | Limit        | Rec  | Limit     | Prec  |      |       |
| AZ21172 | Chloride          | mg/L  | -0.0178 | 0.50  | 80.0  | 126  | 43.0   | 10.0 | 9 to 11      | 104  | 80 to 120 | 0.466 | 20   |       |
| AZ21172 | Fluoride          | mg/L  | 0.027   | 0.05  | 2.50  | 2.54 | 0.0572 | 2.61 | 2.25 to 2.75 | 99.3 | 80 to 120 | 0.702 | 20   |       |
| AZ21172 | Sulfate           | mg/L  | -0.437  | 0.50  | 200   | 361  | 163    | 19.2 | 18 to 22     | 97.0 | 80 to 120 | 2.42  | 20   |       |
| AZ21172 | Solids, Dissolved | mg/L  | 2.00    | 25    | 50.0  |      | 435    | 52.0 | 40 to 60     | 104  | 80 to 120 | 0.115 | 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:** Gaston Ash Pond - MW-7

**Location Code:** WMWGASAP  
**Collected:** 9/18/19 11:00  
**Customer ID:**  
**Submittal Date:** 9/19/19 09:12

**Laboratory ID Number:** AZ21167

| Name                                     | Prepared      | Analyzed            | Vio Spec | DF                                  | Results      | Units | MDL    | RL     | Q |
|------------------------------------------|---------------|---------------------|----------|-------------------------------------|--------------|-------|--------|--------|---|
| <b>Analytical Method: EPA 200.7</b>      |               | <b>Analyst: RDA</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |   |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 10:35       |          | 1.015                               | 2.16         | mg/L  | 0.03   | 0.1    |   |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 12:16       |          | 10.15                               | 99.1         | mg/L  | 1.015  | 5.075  |   |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 10:35       |          | 1.015                               | Not Detected | mg/L  | 0.01   | 0.02   | U |
| <b>Analytical Method: EPA 200.8</b>      |               | <b>Analyst: DLJ</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |   |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 11:20       |          | 1.015                               | Not Detected | mg/L  | 0.0008 | 0.003  | U |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 11:20       |          | 1.015                               | Not Detected | mg/L  | 0.001  | 0.005  | U |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 11:20       |          | 1.015                               | 0.0290       | mg/L  | 0.002  | 0.01   |   |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 11:20       |          | 1.015                               | Not Detected | mg/L  | 0.0006 | 0.003  | U |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 11:20       |          | 1.015                               | Not Detected | mg/L  | 0.0003 | 0.001  | U |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 11:20       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 11:20       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.005  | U |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 11:20       |          | 1.015                               | Not Detected | mg/L  | 0.001  | 0.005  | U |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 11:20       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 11:20       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 11:20       |          | 1.015                               | Not Detected | mg/L  | 0.0002 | 0.001  | U |
| <b>Analytical Method: EPA 245.1</b>      |               | <b>Analyst: GAS</b> |          |                                     |              |       |        |        |   |
| * Mercury, Total by CVAA                 | 9/25/19 08:09 | 9/25/19 12:02       |          | 1                                   | Not Detected | mg/L  | 0.0003 | 0.0005 | U |
| <b>Analytical Method: SM 2540C</b>       |               | <b>Analyst: TJW</b> |          |                                     |              |       |        |        |   |
| * Solids, Dissolved                      | 9/20/19 14:30 | 9/23/19 16:00       |          | 1                                   | 489          | mg/L  |        | 25     |   |
| <b>Analytical Method: SM4500Cl E</b>     |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Chloride                               | 9/24/19 09:26 | 9/24/19 09:26       |          | 4                                   | 29.5         | mg/L  | 2.00   | 4      |   |
| <b>Analytical Method: SM4500F G 2017</b> |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Fluoride                               | 9/25/19 10:08 | 9/25/19 10:08       |          | 1                                   | 0.0578       | mg/L  | 0.05   | 0.1    | J |
| <b>Analytical Method: SM4500SO4 E</b>    |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Sulfate                                | 9/26/19 10:32 | 9/26/19 10:32       |          | 10                                  | 199          | mg/L  | 5.00   | 10     |   |

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

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/18/19 11:00  
**Customer ID:**  
**Delivery Date:** 9/19/19 09:12

**Description:** Gaston Ash Pond - MW-7

**Laboratory ID Number:** AZ21167

| Sample  | Analysis               | Units | MB          |           | Spike | MS      | MSD     | LCS     | LCS              | Rec  |           | Prec   | Limit |
|---------|------------------------|-------|-------------|-----------|-------|---------|---------|---------|------------------|------|-----------|--------|-------|
|         |                        |       | MB          | Limit     |       |         |         |         | Limit            | Rec  | Limit     |        |       |
| AZ21172 | Arsenic, Total         | mg/L  | -0.00000011 | 0.0001474 | 0.10  | 0.104   | 0.103   | 0.105   | 0.085 to 0.115   | 104  | 70 to 130 | 0.419  | 20    |
| AZ21172 | Barium, Total          | mg/L  | 0.0000211   | 0.0002    | 0.10  | 0.138   | 0.140   | 0.105   | 0.085 to 0.115   | 104  | 70 to 130 | 1.30   | 20    |
| AZ21172 | Beryllium, Total       | mg/L  | 0.0000204   | 0.00088   | 0.10  | 0.101   | 0.103   | 0.0999  | 0.085 to 0.115   | 101  | 70 to 130 | 2.42   | 20    |
| AZ21172 | Boron, Total           | mg/L  | 0.00110     | 0.0650254 | 1.00  | 3.32    | 3.28    | 1.01    | 0.85 to 1.15     | 102  | 70 to 130 | 1.40   | 20    |
| AZ21172 | Calcium, Total         | mg/L  | -0.00677    | 0.1518    | 5.00  | 82.8    | 98.5    | 5.11    | 4.25 to 5.75     | 58.3 | 70 to 130 | 17.3   | 20    |
| AZ21172 | Cadmium, Total         | mg/L  | 0.00000000  | 0.0001474 | 0.10  | 0.102   | 0.103   | 0.106   | 0.085 to 0.115   | 102  | 70 to 130 | 0.974  | 20    |
| AZ21172 | Cobalt, Total          | mg/L  | 0.00000033  | 0.0001474 | 0.10  | 0.104   | 0.103   | 0.107   | 0.085 to 0.115   | 104  | 70 to 130 | 0.840  | 20    |
| AZ21172 | Chromium, Total        | mg/L  | -0.00000666 | 0.00044   | 0.10  | 0.0998  | 0.0999  | 0.102   | 0.085 to 0.115   | 99.8 | 70 to 130 | 0.0619 | 20    |
| AZ21172 | Mercury, Total by CVAA | mg/L  | 0.0000307   | 0.0005    | 0.004 | 0.00427 | 0.00431 | 0.00414 | 0.0034 to 0.0046 | 107  | 70 to 130 | 0.939  | 20    |
| AZ21172 | Lithium, Total         | mg/L  | -0.000112   | 0.0154    | 0.20  | 0.260   | 0.257   | 0.201   | 0.17 to 0.23     | 109  | 70 to 130 | 1.27   | 20    |
| AZ21172 | Molybdenum, Total      | mg/L  | 0.0000140   | 0.0001474 | 0.10  | 0.355   | 0.362   | 0.0999  | 0.085 to 0.115   | 93.4 | 70 to 130 | 2.06   | 20    |
| AZ21172 | Lead, Total            | mg/L  | 0.00000405  | 0.0001474 | 0.10  | 0.107   | 0.106   | 0.107   | 0.085 to 0.115   | 107  | 70 to 130 | 1.71   | 20    |
| AZ21172 | Antimony, Total        | mg/L  | 0.000189    | 0.00066   | 0.10  | 0.105   | 0.105   | 0.101   | 0.085 to 0.115   | 105  | 70 to 130 | 0.316  | 20    |
| AZ21172 | Selenium, Total        | mg/L  | 0.0000923   | 0.00066   | 0.10  | 0.106   | 0.106   | 0.108   | 0.085 to 0.115   | 106  | 70 to 130 | 0.159  | 20    |
| AZ21172 | Thallium, Total        | mg/L  | 0.00000141  | 0.0001474 | 0.10  | 0.114   | 0.112   | 0.113   | 0.085 to 0.115   | 114  | 70 to 130 | 2.05   | 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:** WMWGASAP

**Sample Date:** 9/18/19 11:00

**Customer ID:**

**Delivery Date:** 9/19/19 09:12

**Description:** Gaston Ash Pond - MW-7

**Laboratory ID Number:** AZ21167

| Sample  | Analysis          | Units | MB      | MB    |       | MS   | MSD    | LCS  | LCS          |      | Rec       |       | Prec | Limit |
|---------|-------------------|-------|---------|-------|-------|------|--------|------|--------------|------|-----------|-------|------|-------|
|         |                   |       |         | Limit | Spike |      |        |      | Limit        | Rec  | Limit     | Prec  |      |       |
| AZ21172 | Chloride          | mg/L  | -0.0178 | 0.50  | 80.0  | 126  | 43.0   | 10.0 | 9 to 11      | 104  | 80 to 120 | 0.466 | 20   |       |
| AZ21172 | Fluoride          | mg/L  | 0.027   | 0.05  | 2.50  | 2.54 | 0.0572 | 2.61 | 2.25 to 2.75 | 99.3 | 80 to 120 | 0.702 | 20   |       |
| AZ21172 | Sulfate           | mg/L  | -0.437  | 0.50  | 200   | 361  | 163    | 19.2 | 18 to 22     | 97.0 | 80 to 120 | 2.42  | 20   |       |
| AZ21172 | Solids, Dissolved | mg/L  | 2.00    | 25    | 50.0  |      | 435    | 52.0 | 40 to 60     | 104  | 80 to 120 | 0.115 | 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:** Gaston Ash Pond - MW-6

**Location Code:** WMWGASAP  
**Collected:** 9/18/19 12:10  
**Customer ID:**  
**Submittal Date:** 9/19/19 09:12

**Laboratory ID Number:** AZ21168

| Name                                     | Prepared      | Analyzed            | Vio Spec | DF                                  | Results      | Units | MDL    | RL     | Q |
|------------------------------------------|---------------|---------------------|----------|-------------------------------------|--------------|-------|--------|--------|---|
| <b>Analytical Method: EPA 200.7</b>      |               | <b>Analyst: RDA</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |   |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 10:38       |          | 1.015                               | 2.68         | mg/L  | 0.03   | 0.1    |   |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 12:19       |          | 10.15                               | 83.9         | mg/L  | 1.015  | 5.075  |   |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 10:38       |          | 1.015                               | Not Detected | mg/L  | 0.01   | 0.02   | U |
| <b>Analytical Method: EPA 200.8</b>      |               | <b>Analyst: DLJ</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |   |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 11:22       |          | 1.015                               | Not Detected | mg/L  | 0.0008 | 0.003  | U |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 11:22       |          | 1.015                               | Not Detected | mg/L  | 0.001  | 0.005  | U |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 11:22       |          | 1.015                               | 0.0230       | mg/L  | 0.002  | 0.01   |   |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 11:22       |          | 1.015                               | Not Detected | mg/L  | 0.0006 | 0.003  | U |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 11:22       |          | 1.015                               | Not Detected | mg/L  | 0.0003 | 0.001  | U |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 11:22       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 11:22       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.005  | U |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 11:22       |          | 1.015                               | Not Detected | mg/L  | 0.001  | 0.005  | U |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 11:22       |          | 1.015                               | 0.0138       | mg/L  | 0.002  | 0.01   |   |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 11:22       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 11:22       |          | 1.015                               | Not Detected | mg/L  | 0.0002 | 0.001  | U |
| <b>Analytical Method: EPA 245.1</b>      |               | <b>Analyst: GAS</b> |          |                                     |              |       |        |        |   |
| * Mercury, Total by CVAA                 | 9/25/19 08:09 | 9/25/19 12:05       |          | 1                                   | Not Detected | mg/L  | 0.0003 | 0.0005 | U |
| <b>Analytical Method: SM 2540C</b>       |               | <b>Analyst: TJW</b> |          |                                     |              |       |        |        |   |
| * Solids, Dissolved                      | 9/20/19 14:30 | 9/23/19 16:00       |          | 1                                   | 445          | mg/L  |        | 25     |   |
| <b>Analytical Method: SM4500CI E</b>     |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Chloride                               | 9/24/19 09:27 | 9/24/19 09:27       |          | 4                                   | 65.3         | mg/L  | 2.00   | 4      |   |
| <b>Analytical Method: SM4500F G 2017</b> |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Fluoride                               | 9/25/19 10:09 | 9/25/19 10:09       |          | 1                                   | 0.0634       | mg/L  | 0.05   | 0.1    | J |
| <b>Analytical Method: SM4500SO4 E</b>    |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Sulfate                                | 9/26/19 10:33 | 9/26/19 10:33       |          | 10                                  | 177          | mg/L  | 5.00   | 10     |   |

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

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/18/19 12:10  
**Customer ID:**  
**Delivery Date:** 9/19/19 09:12

**Description:** Gaston Ash Pond - MW-6

**Laboratory ID Number:** AZ21168

| Sample  | Analysis               | Units | MB          |           | MS    | MSD     | LCS     | LCS     | Rec              |       | Prec      | Limit  |    |
|---------|------------------------|-------|-------------|-----------|-------|---------|---------|---------|------------------|-------|-----------|--------|----|
|         |                        |       | MB          | Limit     |       |         |         |         | Rec              | Limit |           |        |    |
| AZ21172 | Arsenic, Total         | mg/L  | -0.00000011 | 0.0001474 | 0.10  | 0.104   | 0.103   | 0.105   | 0.085 to 0.115   | 104   | 70 to 130 | 0.419  | 20 |
| AZ21172 | Barium, Total          | mg/L  | 0.0000211   | 0.0002    | 0.10  | 0.138   | 0.140   | 0.105   | 0.085 to 0.115   | 104   | 70 to 130 | 1.30   | 20 |
| AZ21172 | Beryllium, Total       | mg/L  | 0.0000204   | 0.00088   | 0.10  | 0.101   | 0.103   | 0.0999  | 0.085 to 0.115   | 101   | 70 to 130 | 2.42   | 20 |
| AZ21172 | Boron, Total           | mg/L  | 0.00110     | 0.0650254 | 1.00  | 3.32    | 3.28    | 1.01    | 0.85 to 1.15     | 102   | 70 to 130 | 1.40   | 20 |
| AZ21172 | Calcium, Total         | mg/L  | -0.00677    | 0.1518    | 5.00  | 82.8    | 98.5    | 5.11    | 4.25 to 5.75     | 58.3  | 70 to 130 | 17.3   | 20 |
| AZ21172 | Cadmium, Total         | mg/L  | 0.00000000  | 0.0001474 | 0.10  | 0.102   | 0.103   | 0.106   | 0.085 to 0.115   | 102   | 70 to 130 | 0.974  | 20 |
| AZ21172 | Cobalt, Total          | mg/L  | 0.00000033  | 0.0001474 | 0.10  | 0.104   | 0.103   | 0.107   | 0.085 to 0.115   | 104   | 70 to 130 | 0.840  | 20 |
| AZ21172 | Chromium, Total        | mg/L  | -0.00000666 | 0.00044   | 0.10  | 0.0998  | 0.0999  | 0.102   | 0.085 to 0.115   | 99.8  | 70 to 130 | 0.0619 | 20 |
| AZ21172 | Mercury, Total by CVAA | mg/L  | 0.0000307   | 0.0005    | 0.004 | 0.00427 | 0.00431 | 0.00414 | 0.0034 to 0.0046 | 107   | 70 to 130 | 0.939  | 20 |
| AZ21172 | Lithium, Total         | mg/L  | -0.000112   | 0.0154    | 0.20  | 0.260   | 0.257   | 0.201   | 0.17 to 0.23     | 109   | 70 to 130 | 1.27   | 20 |
| AZ21172 | Molybdenum, Total      | mg/L  | 0.0000140   | 0.0001474 | 0.10  | 0.355   | 0.362   | 0.0999  | 0.085 to 0.115   | 93.4  | 70 to 130 | 2.06   | 20 |
| AZ21172 | Lead, Total            | mg/L  | 0.00000405  | 0.0001474 | 0.10  | 0.107   | 0.106   | 0.107   | 0.085 to 0.115   | 107   | 70 to 130 | 1.71   | 20 |
| AZ21172 | Antimony, Total        | mg/L  | 0.000189    | 0.00066   | 0.10  | 0.105   | 0.105   | 0.101   | 0.085 to 0.115   | 105   | 70 to 130 | 0.316  | 20 |
| AZ21172 | Selenium, Total        | mg/L  | 0.0000923   | 0.00066   | 0.10  | 0.106   | 0.106   | 0.108   | 0.085 to 0.115   | 106   | 70 to 130 | 0.159  | 20 |
| AZ21172 | Thallium, Total        | mg/L  | 0.00000141  | 0.0001474 | 0.10  | 0.114   | 0.112   | 0.113   | 0.085 to 0.115   | 114   | 70 to 130 | 2.05   | 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:** WMWGASAP

**Sample Date:** 9/18/19 12:10

**Customer ID:**

**Delivery Date:** 9/19/19 09:12

**Description:** Gaston Ash Pond - MW-6

**Laboratory ID Number:** AZ21168

| Sample  | Analysis          | Units | MB      | MB    |       | MS   | MSD    | LCS  | LCS          |      | Rec       |       | Prec | Limit |
|---------|-------------------|-------|---------|-------|-------|------|--------|------|--------------|------|-----------|-------|------|-------|
|         |                   |       |         | Limit | Spike |      |        |      | Limit        | Rec  | Limit     | Prec  |      |       |
| AZ21172 | Chloride          | mg/L  | -0.0178 | 0.50  | 80.0  | 126  | 43.0   | 10.0 | 9 to 11      | 104  | 80 to 120 | 0.466 | 20   |       |
| AZ21172 | Fluoride          | mg/L  | 0.027   | 0.05  | 2.50  | 2.54 | 0.0572 | 2.61 | 2.25 to 2.75 | 99.3 | 80 to 120 | 0.702 | 20   |       |
| AZ21172 | Sulfate           | mg/L  | -0.437  | 0.50  | 200   | 361  | 163    | 19.2 | 18 to 22     | 97.0 | 80 to 120 | 2.42  | 20   |       |
| AZ21172 | Solids, Dissolved | mg/L  | 2.00    | 25    | 50.0  |      | 435    | 52.0 | 40 to 60     | 104  | 80 to 120 | 0.115 | 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:** Gaston Ash Pond - MW-6 Dup

**Location Code:** WMWGASAP  
**Collected:** 9/18/19 12:10  
**Customer ID:**  
**Submittal Date:** 9/19/19 09:12

**Laboratory ID Number:** AZ21169

| Name                                     | Prepared      | Analyzed            | Vio Spec | DF                                  | Results      | Units | MDL    | RL     | Q |
|------------------------------------------|---------------|---------------------|----------|-------------------------------------|--------------|-------|--------|--------|---|
| <b>Analytical Method: EPA 200.7</b>      |               | <b>Analyst: RDA</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |   |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 10:41       |          | 1.015                               | 2.74         | mg/L  | 0.03   | 0.1    |   |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 12:22       |          | 10.15                               | 82.9         | mg/L  | 1.015  | 5.075  |   |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 10:41       |          | 1.015                               | Not Detected | mg/L  | 0.01   | 0.02   | U |
| <b>Analytical Method: EPA 200.8</b>      |               | <b>Analyst: DLJ</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |   |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 11:25       |          | 1.015                               | Not Detected | mg/L  | 0.0008 | 0.003  | U |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 11:25       |          | 1.015                               | Not Detected | mg/L  | 0.001  | 0.005  | U |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 11:25       |          | 1.015                               | 0.0224       | mg/L  | 0.002  | 0.01   |   |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 11:25       |          | 1.015                               | Not Detected | mg/L  | 0.0006 | 0.003  | U |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 11:25       |          | 1.015                               | Not Detected | mg/L  | 0.0003 | 0.001  | U |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 11:25       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 11:25       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.005  | U |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 11:25       |          | 1.015                               | Not Detected | mg/L  | 0.001  | 0.005  | U |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 11:25       |          | 1.015                               | 0.0146       | mg/L  | 0.002  | 0.01   |   |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 11:25       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 11:25       |          | 1.015                               | Not Detected | mg/L  | 0.0002 | 0.001  | U |
| <b>Analytical Method: EPA 245.1</b>      |               | <b>Analyst: GAS</b> |          |                                     |              |       |        |        |   |
| * Mercury, Total by CVAA                 | 9/25/19 08:09 | 9/25/19 12:07       |          | 1                                   | Not Detected | mg/L  | 0.0003 | 0.0005 | U |
| <b>Analytical Method: SM 2540C</b>       |               | <b>Analyst: TJW</b> |          |                                     |              |       |        |        |   |
| * Solids, Dissolved                      | 9/20/19 14:30 | 9/23/19 16:00       |          | 1                                   | 444          | mg/L  |        | 25     |   |
| <b>Analytical Method: SM4500CI E</b>     |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Chloride                               | 9/24/19 09:29 | 9/24/19 09:29       |          | 4                                   | 65.8         | mg/L  | 2.00   | 4      |   |
| <b>Analytical Method: SM4500F G 2017</b> |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Fluoride                               | 9/25/19 10:10 | 9/25/19 10:10       |          | 1                                   | 0.061        | mg/L  | 0.05   | 0.1    | J |
| <b>Analytical Method: SM4500SO4 E</b>    |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Sulfate                                | 9/26/19 10:34 | 9/26/19 10:34       |          | 10                                  | 178          | mg/L  | 5.00   | 10     |   |

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

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/18/19 12:10  
**Customer ID:**  
**Delivery Date:** 9/19/19 09:12

**Description:** Gaston Ash Pond - MW-6 Dup

**Laboratory ID Number:** AZ21169

| Sample  | Analysis               | Units | MB          |           | MS    | MSD     | LCS     | LCS     | Rec              |      | Prec      | Limit  |    |
|---------|------------------------|-------|-------------|-----------|-------|---------|---------|---------|------------------|------|-----------|--------|----|
|         |                        |       | MB          | Limit     |       |         |         |         | Limit            | Prec |           |        |    |
| AZ21172 | Arsenic, Total         | mg/L  | -0.00000011 | 0.0001474 | 0.10  | 0.104   | 0.103   | 0.105   | 0.085 to 0.115   | 104  | 70 to 130 | 0.419  | 20 |
| AZ21172 | Barium, Total          | mg/L  | 0.0000211   | 0.0002    | 0.10  | 0.138   | 0.140   | 0.105   | 0.085 to 0.115   | 104  | 70 to 130 | 1.30   | 20 |
| AZ21172 | Beryllium, Total       | mg/L  | 0.0000204   | 0.00088   | 0.10  | 0.101   | 0.103   | 0.0999  | 0.085 to 0.115   | 101  | 70 to 130 | 2.42   | 20 |
| AZ21172 | Boron, Total           | mg/L  | 0.00110     | 0.0650254 | 1.00  | 3.32    | 3.28    | 1.01    | 0.85 to 1.15     | 102  | 70 to 130 | 1.40   | 20 |
| AZ21172 | Calcium, Total         | mg/L  | -0.00677    | 0.1518    | 5.00  | 82.8    | 98.5    | 5.11    | 4.25 to 5.75     | 58.3 | 70 to 130 | 17.3   | 20 |
| AZ21172 | Cadmium, Total         | mg/L  | 0.00000000  | 0.0001474 | 0.10  | 0.102   | 0.103   | 0.106   | 0.085 to 0.115   | 102  | 70 to 130 | 0.974  | 20 |
| AZ21172 | Cobalt, Total          | mg/L  | 0.00000033  | 0.0001474 | 0.10  | 0.104   | 0.103   | 0.107   | 0.085 to 0.115   | 104  | 70 to 130 | 0.840  | 20 |
| AZ21172 | Chromium, Total        | mg/L  | -0.00000666 | 0.00044   | 0.10  | 0.0998  | 0.0999  | 0.102   | 0.085 to 0.115   | 99.8 | 70 to 130 | 0.0619 | 20 |
| AZ21172 | Mercury, Total by CVAA | mg/L  | 0.0000307   | 0.0005    | 0.004 | 0.00427 | 0.00431 | 0.00414 | 0.0034 to 0.0046 | 107  | 70 to 130 | 0.939  | 20 |
| AZ21172 | Lithium, Total         | mg/L  | -0.000112   | 0.0154    | 0.20  | 0.260   | 0.257   | 0.201   | 0.17 to 0.23     | 109  | 70 to 130 | 1.27   | 20 |
| AZ21172 | Molybdenum, Total      | mg/L  | 0.0000140   | 0.0001474 | 0.10  | 0.355   | 0.362   | 0.0999  | 0.085 to 0.115   | 93.4 | 70 to 130 | 2.06   | 20 |
| AZ21172 | Lead, Total            | mg/L  | 0.00000405  | 0.0001474 | 0.10  | 0.107   | 0.106   | 0.107   | 0.085 to 0.115   | 107  | 70 to 130 | 1.71   | 20 |
| AZ21172 | Antimony, Total        | mg/L  | 0.000189    | 0.00066   | 0.10  | 0.105   | 0.105   | 0.101   | 0.085 to 0.115   | 105  | 70 to 130 | 0.316  | 20 |
| AZ21172 | Selenium, Total        | mg/L  | 0.0000923   | 0.00066   | 0.10  | 0.106   | 0.106   | 0.108   | 0.085 to 0.115   | 106  | 70 to 130 | 0.159  | 20 |
| AZ21172 | Thallium, Total        | mg/L  | 0.00000141  | 0.0001474 | 0.10  | 0.114   | 0.112   | 0.113   | 0.085 to 0.115   | 114  | 70 to 130 | 2.05   | 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:** WMWGASAP

**Sample Date:** 9/18/19 12:10

**Customer ID:**

**Delivery Date:** 9/19/19 09:12

**Description:** Gaston Ash Pond - MW-6 Dup

**Laboratory ID Number:** AZ21169

| Sample  | Analysis          | Units | MB      | MB    |       | MS   | MSD    | LCS  | LCS          |      | Rec       |       | Prec | Limit |
|---------|-------------------|-------|---------|-------|-------|------|--------|------|--------------|------|-----------|-------|------|-------|
|         |                   |       |         | Limit | Spike |      |        |      | Limit        | Rec  | Limit     | Prec  |      |       |
| AZ21172 | Chloride          | mg/L  | -0.0178 | 0.50  | 80.0  | 126  | 43.0   | 10.0 | 9 to 11      | 104  | 80 to 120 | 0.466 | 20   |       |
| AZ21172 | Fluoride          | mg/L  | 0.027   | 0.05  | 2.50  | 2.54 | 0.0572 | 2.61 | 2.25 to 2.75 | 99.3 | 80 to 120 | 0.702 | 20   |       |
| AZ21172 | Sulfate           | mg/L  | -0.437  | 0.50  | 200   | 361  | 163    | 19.2 | 18 to 22     | 97.0 | 80 to 120 | 2.42  | 20   |       |
| AZ21172 | Solids, Dissolved | mg/L  | 2.00    | 25    | 50.0  |      | 435    | 52.0 | 40 to 60     | 104  | 80 to 120 | 0.115 | 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:** Gaston Ash Pond - MW-21

**Location Code:** WMWGASAP  
**Collected:** 9/18/19 13:23  
**Customer ID:**  
**Submittal Date:** 9/19/19 09:12

**Laboratory ID Number:** AZ21170

| Name                                     | Prepared      | Analyzed            | Vio Spec | DF                                  | Results      | Units | MDL    | RL     | Q |
|------------------------------------------|---------------|---------------------|----------|-------------------------------------|--------------|-------|--------|--------|---|
| <b>Analytical Method: EPA 200.7</b>      |               | <b>Analyst: RDA</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |   |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 10:44       |          | 1.015                               | 2.51         | mg/L  | 0.03   | 0.1    |   |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 12:25       |          | 10.15                               | 98.3         | mg/L  | 1.015  | 5.075  |   |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 10:44       |          | 1.015                               | Not Detected | mg/L  | 0.01   | 0.02   | U |
| <b>Analytical Method: EPA 200.8</b>      |               | <b>Analyst: DLJ</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |   |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 11:28       |          | 1.015                               | Not Detected | mg/L  | 0.0008 | 0.003  | U |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 11:28       |          | 1.015                               | 0.00239      | mg/L  | 0.001  | 0.005  | J |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 11:28       |          | 1.015                               | 0.0362       | mg/L  | 0.002  | 0.01   |   |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 11:28       |          | 1.015                               | Not Detected | mg/L  | 0.0006 | 0.003  | U |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 11:28       |          | 1.015                               | Not Detected | mg/L  | 0.0003 | 0.001  | U |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 11:28       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 11:28       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.005  | U |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 11:28       |          | 1.015                               | Not Detected | mg/L  | 0.001  | 0.005  | U |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 11:28       |          | 1.015                               | 0.0172       | mg/L  | 0.002  | 0.01   |   |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 11:28       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 11:28       |          | 1.015                               | Not Detected | mg/L  | 0.0002 | 0.001  | U |
| <b>Analytical Method: EPA 245.1</b>      |               | <b>Analyst: GAS</b> |          |                                     |              |       |        |        |   |
| * Mercury, Total by CVAA                 | 9/25/19 08:09 | 9/25/19 12:09       |          | 1                                   | Not Detected | mg/L  | 0.0003 | 0.0005 | U |
| <b>Analytical Method: SM 2540C</b>       |               | <b>Analyst: TJW</b> |          |                                     |              |       |        |        |   |
| * Solids, Dissolved                      | 9/20/19 14:30 | 9/23/19 16:00       |          | 1                                   | 504          | mg/L  |        | 50     |   |
| <b>Analytical Method: SM4500Cl E</b>     |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Chloride                               | 9/24/19 09:30 | 9/24/19 09:30       |          | 4                                   | 64.0         | mg/L  | 2.00   | 4      |   |
| <b>Analytical Method: SM4500F G 2017</b> |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Fluoride                               | 9/25/19 10:11 | 9/25/19 10:11       |          | 1                                   | 0.0749       | mg/L  | 0.05   | 0.1    | J |
| <b>Analytical Method: SM4500SO4 E</b>    |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Sulfate                                | 9/26/19 10:35 | 9/26/19 10:35       |          | 10                                  | 197          | mg/L  | 5.00   | 10     |   |

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

**Comments:**



# Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/18/19 13:23  
**Customer ID:**  
**Delivery Date:** 9/19/19 09:12

**Description:** Gaston Ash Pond - MW-21

**Laboratory ID Number:** AZ21170

| Sample  | Analysis               | Units | MB          |           | Spike | MS      | MSD     | LCS     | LCS              | Rec  |           | Prec   | Limit |
|---------|------------------------|-------|-------------|-----------|-------|---------|---------|---------|------------------|------|-----------|--------|-------|
|         |                        |       | MB          | Limit     |       |         |         |         | Limit            | Rec  | Limit     |        |       |
| AZ21172 | Arsenic, Total         | mg/L  | -0.00000011 | 0.0001474 | 0.10  | 0.104   | 0.103   | 0.105   | 0.085 to 0.115   | 104  | 70 to 130 | 0.419  | 20    |
| AZ21172 | Barium, Total          | mg/L  | 0.0000211   | 0.0002    | 0.10  | 0.138   | 0.140   | 0.105   | 0.085 to 0.115   | 104  | 70 to 130 | 1.30   | 20    |
| AZ21172 | Beryllium, Total       | mg/L  | 0.0000204   | 0.00088   | 0.10  | 0.101   | 0.103   | 0.0999  | 0.085 to 0.115   | 101  | 70 to 130 | 2.42   | 20    |
| AZ21172 | Boron, Total           | mg/L  | 0.00110     | 0.0650254 | 1.00  | 3.32    | 3.28    | 1.01    | 0.85 to 1.15     | 102  | 70 to 130 | 1.40   | 20    |
| AZ21172 | Calcium, Total         | mg/L  | -0.00677    | 0.1518    | 5.00  | 82.8    | 98.5    | 5.11    | 4.25 to 5.75     | 58.3 | 70 to 130 | 17.3   | 20    |
| AZ21172 | Cadmium, Total         | mg/L  | 0.00000000  | 0.0001474 | 0.10  | 0.102   | 0.103   | 0.106   | 0.085 to 0.115   | 102  | 70 to 130 | 0.974  | 20    |
| AZ21172 | Cobalt, Total          | mg/L  | 0.00000033  | 0.0001474 | 0.10  | 0.104   | 0.103   | 0.107   | 0.085 to 0.115   | 104  | 70 to 130 | 0.840  | 20    |
| AZ21172 | Chromium, Total        | mg/L  | -0.00000666 | 0.00044   | 0.10  | 0.0998  | 0.0999  | 0.102   | 0.085 to 0.115   | 99.8 | 70 to 130 | 0.0619 | 20    |
| AZ21172 | Mercury, Total by CVAA | mg/L  | 0.0000307   | 0.0005    | 0.004 | 0.00427 | 0.00431 | 0.00414 | 0.0034 to 0.0046 | 107  | 70 to 130 | 0.939  | 20    |
| AZ21172 | Lithium, Total         | mg/L  | -0.000112   | 0.0154    | 0.20  | 0.260   | 0.257   | 0.201   | 0.17 to 0.23     | 109  | 70 to 130 | 1.27   | 20    |
| AZ21172 | Molybdenum, Total      | mg/L  | 0.0000140   | 0.0001474 | 0.10  | 0.355   | 0.362   | 0.0999  | 0.085 to 0.115   | 93.4 | 70 to 130 | 2.06   | 20    |
| AZ21172 | Lead, Total            | mg/L  | 0.00000405  | 0.0001474 | 0.10  | 0.107   | 0.106   | 0.107   | 0.085 to 0.115   | 107  | 70 to 130 | 1.71   | 20    |
| AZ21172 | Antimony, Total        | mg/L  | 0.000189    | 0.00066   | 0.10  | 0.105   | 0.105   | 0.101   | 0.085 to 0.115   | 105  | 70 to 130 | 0.316  | 20    |
| AZ21172 | Selenium, Total        | mg/L  | 0.0000923   | 0.00066   | 0.10  | 0.106   | 0.106   | 0.108   | 0.085 to 0.115   | 106  | 70 to 130 | 0.159  | 20    |
| AZ21172 | Thallium, Total        | mg/L  | 0.00000141  | 0.0001474 | 0.10  | 0.114   | 0.112   | 0.113   | 0.085 to 0.115   | 114  | 70 to 130 | 2.05   | 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:** WMWGASAP

**Sample Date:** 9/18/19 13:23

**Customer ID:**

**Delivery Date:** 9/19/19 09:12

**Description:** Gaston Ash Pond - MW-21

**Laboratory ID Number:** AZ21170

| Sample  | Analysis          | Units | MB      | MB    |       | MS   | MSD    | LCS  | LCS          |      | Rec       |       | Prec | Limit |
|---------|-------------------|-------|---------|-------|-------|------|--------|------|--------------|------|-----------|-------|------|-------|
|         |                   |       |         | Limit | Spike |      |        |      | Limit        | Rec  | Limit     | Prec  |      |       |
| AZ21172 | Chloride          | mg/L  | -0.0178 | 0.50  | 80.0  | 126  | 43.0   | 10.0 | 9 to 11      | 104  | 80 to 120 | 0.466 | 20   |       |
| AZ21172 | Fluoride          | mg/L  | 0.027   | 0.05  | 2.50  | 2.54 | 0.0572 | 2.61 | 2.25 to 2.75 | 99.3 | 80 to 120 | 0.702 | 20   |       |
| AZ21172 | Sulfate           | mg/L  | -0.437  | 0.50  | 200   | 361  | 163    | 19.2 | 18 to 22     | 97.0 | 80 to 120 | 2.42  | 20   |       |
| AZ21172 | Solids, Dissolved | mg/L  | 2.00    | 25    | 50.0  |      | 435    | 52.0 | 40 to 60     | 104  | 80 to 120 | 0.115 | 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:** Gaston Ash Pond - MW-22

**Location Code:** WMWGASAP  
**Collected:** 9/18/19 14:55  
**Customer ID:**  
**Submittal Date:** 9/19/19 09:12

**Laboratory ID Number:** AZ21171

| Name                                     | Prepared      | Analyzed            | Vio Spec | DF    | Results                             | Units | MDL    | RL     | Q |
|------------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|--------|--------|---|
| <b>Analytical Method: EPA 200.7</b>      |               | <b>Analyst: RDA</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 10:47       |          | 1.015 | 2.10                                | mg/L  | 0.03   | 0.1    |   |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 12:28       |          | 10.15 | 102                                 | mg/L  | 1.015  | 5.075  |   |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 10:47       |          | 1.015 | Not Detected                        | mg/L  | 0.01   | 0.02   | U |
| <b>Analytical Method: EPA 200.8</b>      |               | <b>Analyst: DLJ</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 11:30       |          | 1.015 | Not Detected                        | mg/L  | 0.0008 | 0.003  | U |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 11:30       |          | 1.015 | 0.00129                             | mg/L  | 0.001  | 0.005  | J |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 11:30       |          | 1.015 | 0.0458                              | mg/L  | 0.002  | 0.01   |   |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 11:30       |          | 1.015 | Not Detected                        | mg/L  | 0.0006 | 0.003  | U |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 11:30       |          | 1.015 | Not Detected                        | mg/L  | 0.0003 | 0.001  | U |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 11:30       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 11:30       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.005  | U |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 11:30       |          | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 11:30       |          | 1.015 | 0.0895                              | mg/L  | 0.002  | 0.01   |   |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 11:30       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 11:30       |          | 1.015 | Not Detected                        | mg/L  | 0.0002 | 0.001  | U |
| <b>Analytical Method: EPA 245.1</b>      |               | <b>Analyst: GAS</b> |          |       |                                     |       |        |        |   |
| * Mercury, Total by CVAA                 | 9/25/19 08:09 | 9/25/19 12:12       |          | 1     | Not Detected                        | mg/L  | 0.0003 | 0.0005 | U |
| <b>Analytical Method: SM 2540C</b>       |               | <b>Analyst: TJW</b> |          |       |                                     |       |        |        |   |
| * Solids, Dissolved                      | 9/20/19 14:30 | 9/23/19 16:00       |          | 1     | 460                                 | mg/L  |        | 25     |   |
| <b>Analytical Method: SM4500CI E</b>     |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |   |
| * Chloride                               | 9/24/19 09:31 | 9/24/19 09:31       |          | 4     | 46.3                                | mg/L  | 2.00   | 4      |   |
| <b>Analytical Method: SM4500F G 2017</b> |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |   |
| * Fluoride                               | 9/25/19 10:13 | 9/25/19 10:13       |          | 1     | 0.065                               | mg/L  | 0.05   | 0.1    | J |
| <b>Analytical Method: SM4500SO4 E</b>    |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |   |
| * Sulfate                                | 9/26/19 10:36 | 9/26/19 10:36       |          | 10    | 180                                 | mg/L  | 5.00   | 10     |   |

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

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/18/19 14:55  
**Customer ID:**  
**Delivery Date:** 9/19/19 09:12

**Description:** Gaston Ash Pond - MW-22

**Laboratory ID Number:** AZ21171

| Sample  | Analysis               | Units | MB          |           | Spike | MS      | MSD     | LCS     | LCS              | Rec  |           | Prec   | Limit |
|---------|------------------------|-------|-------------|-----------|-------|---------|---------|---------|------------------|------|-----------|--------|-------|
|         |                        |       | MB          | Limit     |       |         |         |         | Limit            | Rec  | Limit     |        |       |
| AZ21172 | Arsenic, Total         | mg/L  | -0.00000011 | 0.0001474 | 0.10  | 0.104   | 0.103   | 0.105   | 0.085 to 0.115   | 104  | 70 to 130 | 0.419  | 20    |
| AZ21172 | Barium, Total          | mg/L  | 0.0000211   | 0.0002    | 0.10  | 0.138   | 0.140   | 0.105   | 0.085 to 0.115   | 104  | 70 to 130 | 1.30   | 20    |
| AZ21172 | Beryllium, Total       | mg/L  | 0.0000204   | 0.00088   | 0.10  | 0.101   | 0.103   | 0.0999  | 0.085 to 0.115   | 101  | 70 to 130 | 2.42   | 20    |
| AZ21172 | Boron, Total           | mg/L  | 0.00110     | 0.0650254 | 1.00  | 3.32    | 3.28    | 1.01    | 0.85 to 1.15     | 102  | 70 to 130 | 1.40   | 20    |
| AZ21172 | Calcium, Total         | mg/L  | -0.00677    | 0.1518    | 5.00  | 82.8    | 98.5    | 5.11    | 4.25 to 5.75     | 58.3 | 70 to 130 | 17.3   | 20    |
| AZ21172 | Cadmium, Total         | mg/L  | 0.00000000  | 0.0001474 | 0.10  | 0.102   | 0.103   | 0.106   | 0.085 to 0.115   | 102  | 70 to 130 | 0.974  | 20    |
| AZ21172 | Cobalt, Total          | mg/L  | 0.00000033  | 0.0001474 | 0.10  | 0.104   | 0.103   | 0.107   | 0.085 to 0.115   | 104  | 70 to 130 | 0.840  | 20    |
| AZ21172 | Chromium, Total        | mg/L  | -0.00000666 | 0.00044   | 0.10  | 0.0998  | 0.0999  | 0.102   | 0.085 to 0.115   | 99.8 | 70 to 130 | 0.0619 | 20    |
| AZ21172 | Mercury, Total by CVAA | mg/L  | 0.0000307   | 0.0005    | 0.004 | 0.00427 | 0.00431 | 0.00414 | 0.0034 to 0.0046 | 107  | 70 to 130 | 0.939  | 20    |
| AZ21172 | Lithium, Total         | mg/L  | -0.000112   | 0.0154    | 0.20  | 0.260   | 0.257   | 0.201   | 0.17 to 0.23     | 109  | 70 to 130 | 1.27   | 20    |
| AZ21172 | Molybdenum, Total      | mg/L  | 0.0000140   | 0.0001474 | 0.10  | 0.355   | 0.362   | 0.0999  | 0.085 to 0.115   | 93.4 | 70 to 130 | 2.06   | 20    |
| AZ21172 | Lead, Total            | mg/L  | 0.00000405  | 0.0001474 | 0.10  | 0.107   | 0.106   | 0.107   | 0.085 to 0.115   | 107  | 70 to 130 | 1.71   | 20    |
| AZ21172 | Antimony, Total        | mg/L  | 0.000189    | 0.00066   | 0.10  | 0.105   | 0.105   | 0.101   | 0.085 to 0.115   | 105  | 70 to 130 | 0.316  | 20    |
| AZ21172 | Selenium, Total        | mg/L  | 0.0000923   | 0.00066   | 0.10  | 0.106   | 0.106   | 0.108   | 0.085 to 0.115   | 106  | 70 to 130 | 0.159  | 20    |
| AZ21172 | Thallium, Total        | mg/L  | 0.00000141  | 0.0001474 | 0.10  | 0.114   | 0.112   | 0.113   | 0.085 to 0.115   | 114  | 70 to 130 | 2.05   | 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:** WMWGASAP

**Sample Date:** 9/18/19 14:55

**Customer ID:**

**Delivery Date:** 9/19/19 09:12

**Description:** Gaston Ash Pond - MW-22

**Laboratory ID Number:** AZ21171

| Sample  | Analysis          | Units | MB      | MB    |       | MS   | MSD    | LCS  | LCS          |      | Rec       |       | Prec |
|---------|-------------------|-------|---------|-------|-------|------|--------|------|--------------|------|-----------|-------|------|
|         |                   |       |         | Limit | Spike |      |        |      | Limit        | Rec  | Limit     | Prec  |      |
| AZ21172 | Chloride          | mg/L  | -0.0178 | 0.50  | 80.0  | 126  | 43.0   | 10.0 | 9 to 11      | 104  | 80 to 120 | 0.466 | 20   |
| AZ21172 | Fluoride          | mg/L  | 0.027   | 0.05  | 2.50  | 2.54 | 0.0572 | 2.61 | 2.25 to 2.75 | 99.3 | 80 to 120 | 0.702 | 20   |
| AZ21172 | Sulfate           | mg/L  | -0.437  | 0.50  | 200   | 361  | 163    | 19.2 | 18 to 22     | 97.0 | 80 to 120 | 2.42  | 20   |
| AZ21172 | Solids, Dissolved | mg/L  | 2.00    | 25    | 50.0  |      | 435    | 52.0 | 40 to 60     | 104  | 80 to 120 | 0.115 | 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:** Gaston Ash Pond - MW-5

**Location Code:** WMWGASAP  
**Collected:** 9/18/19 15:42  
**Customer ID:**  
**Submittal Date:** 9/19/19 09:12

**Laboratory ID Number:** AZ21172

| Name                                     | Prepared      | Analyzed            | Vio Spec | DF                                  | Results      | Units | MDL    | RL     | Q  |
|------------------------------------------|---------------|---------------------|----------|-------------------------------------|--------------|-------|--------|--------|----|
| <b>Analytical Method: EPA 200.7</b>      |               | <b>Analyst: RDA</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |    |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 10:49       |          | 1.015                               | 2.31         | mg/L  | 0.03   | 0.1    |    |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 12:31       |          | 10.15                               | 79.9         | mg/L  | 1.015  | 5.075  | RA |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 10:49       |          | 1.015                               | 0.0430       | mg/L  | 0.01   | 0.02   |    |
| <b>Analytical Method: EPA 200.8</b>      |               | <b>Analyst: DLJ</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |    |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 11:33       |          | 1.015                               | Not Detected | mg/L  | 0.0008 | 0.003  | U  |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 11:33       |          | 1.015                               | Not Detected | mg/L  | 0.001  | 0.005  | U  |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 11:33       |          | 1.015                               | 0.0335       | mg/L  | 0.002  | 0.01   |    |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 11:33       |          | 1.015                               | Not Detected | mg/L  | 0.0006 | 0.003  | U  |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 11:33       |          | 1.015                               | Not Detected | mg/L  | 0.0003 | 0.001  | U  |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 11:33       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U  |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 11:33       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.005  | U  |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 11:33       |          | 1.015                               | Not Detected | mg/L  | 0.001  | 0.005  | U  |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 11:33       |          | 1.015                               | 0.261        | mg/L  | 0.002  | 0.01   |    |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 11:33       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U  |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 11:33       |          | 1.015                               | Not Detected | mg/L  | 0.0002 | 0.001  | U  |
| <b>Analytical Method: EPA 245.1</b>      |               | <b>Analyst: GAS</b> |          |                                     |              |       |        |        |    |
| * Mercury, Total by CVAA                 | 9/25/19 08:09 | 9/25/19 12:14       |          | 1                                   | Not Detected | mg/L  | 0.0003 | 0.0005 | U  |
| <b>Analytical Method: SM 2540C</b>       |               | <b>Analyst: TJW</b> |          |                                     |              |       |        |        |    |
| * Solids, Dissolved                      | 9/20/19 14:30 | 9/23/19 16:00       |          | 1                                   | 434          | mg/L  |        | 25     |    |
| <b>Analytical Method: SM4500CI E</b>     |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |    |
| * Chloride                               | 9/24/19 09:32 | 9/24/19 09:32       |          | 8                                   | 42.8         | mg/L  | 4.00   | 8      |    |
| <b>Analytical Method: SM4500F G 2017</b> |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |    |
| * Fluoride                               | 9/25/19 10:14 | 9/25/19 10:14       |          | 1                                   | 0.0568       | mg/L  | 0.05   | 0.1    | J  |
| <b>Analytical Method: SM4500SO4 E</b>    |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |    |
| * Sulfate                                | 9/26/19 10:38 | 9/26/19 10:38       |          | 10                                  | 167          | mg/L  | 5.00   | 10     |    |

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 10/22/2019

# Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/18/19 15:42  
**Customer ID:**  
**Delivery Date:** 9/19/19 09:12

**Description:** Gaston Ash Pond - MW-5

**Laboratory ID Number:** AZ21172

| Sample  | Analysis               | Units | MB          |           | MS    | MSD     | LCS     | LCS     | Rec              |       | Prec      | Limit  |    |
|---------|------------------------|-------|-------------|-----------|-------|---------|---------|---------|------------------|-------|-----------|--------|----|
|         |                        |       | MB          | Limit     |       |         |         |         | Rec              | Limit |           |        |    |
| AZ21172 | Arsenic, Total         | mg/L  | -0.00000011 | 0.0001474 | 0.10  | 0.104   | 0.103   | 0.105   | 0.085 to 0.115   | 104   | 70 to 130 | 0.419  | 20 |
| AZ21172 | Barium, Total          | mg/L  | 0.0000211   | 0.0002    | 0.10  | 0.138   | 0.140   | 0.105   | 0.085 to 0.115   | 104   | 70 to 130 | 1.30   | 20 |
| AZ21172 | Beryllium, Total       | mg/L  | 0.0000204   | 0.00088   | 0.10  | 0.101   | 0.103   | 0.0999  | 0.085 to 0.115   | 101   | 70 to 130 | 2.42   | 20 |
| AZ21172 | Boron, Total           | mg/L  | 0.00110     | 0.0650254 | 1.00  | 3.32    | 3.28    | 1.01    | 0.85 to 1.15     | 102   | 70 to 130 | 1.40   | 20 |
| AZ21172 | Calcium, Total         | mg/L  | -0.00677    | 0.1518    | 5.00  | 82.8    | 98.5    | 5.11    | 4.25 to 5.75     | 58.3  | 70 to 130 | 17.3   | 20 |
| AZ21172 | Cadmium, Total         | mg/L  | 0.00000000  | 0.0001474 | 0.10  | 0.102   | 0.103   | 0.106   | 0.085 to 0.115   | 102   | 70 to 130 | 0.974  | 20 |
| AZ21172 | Cobalt, Total          | mg/L  | 0.00000033  | 0.0001474 | 0.10  | 0.104   | 0.103   | 0.107   | 0.085 to 0.115   | 104   | 70 to 130 | 0.840  | 20 |
| AZ21172 | Chromium, Total        | mg/L  | -0.00000666 | 0.00044   | 0.10  | 0.0998  | 0.0999  | 0.102   | 0.085 to 0.115   | 99.8  | 70 to 130 | 0.0619 | 20 |
| AZ21172 | Mercury, Total by CVAA | mg/L  | 0.0000307   | 0.0005    | 0.004 | 0.00427 | 0.00431 | 0.00414 | 0.0034 to 0.0046 | 107   | 70 to 130 | 0.939  | 20 |
| AZ21172 | Lithium, Total         | mg/L  | -0.000112   | 0.0154    | 0.20  | 0.260   | 0.257   | 0.201   | 0.17 to 0.23     | 109   | 70 to 130 | 1.27   | 20 |
| AZ21172 | Molybdenum, Total      | mg/L  | 0.0000140   | 0.0001474 | 0.10  | 0.355   | 0.362   | 0.0999  | 0.085 to 0.115   | 93.4  | 70 to 130 | 2.06   | 20 |
| AZ21172 | Lead, Total            | mg/L  | 0.00000405  | 0.0001474 | 0.10  | 0.107   | 0.106   | 0.107   | 0.085 to 0.115   | 107   | 70 to 130 | 1.71   | 20 |
| AZ21172 | Antimony, Total        | mg/L  | 0.000189    | 0.00066   | 0.10  | 0.105   | 0.105   | 0.101   | 0.085 to 0.115   | 105   | 70 to 130 | 0.316  | 20 |
| AZ21172 | Selenium, Total        | mg/L  | 0.0000923   | 0.00066   | 0.10  | 0.106   | 0.106   | 0.108   | 0.085 to 0.115   | 106   | 70 to 130 | 0.159  | 20 |
| AZ21172 | Thallium, Total        | mg/L  | 0.00000141  | 0.0001474 | 0.10  | 0.114   | 0.112   | 0.113   | 0.085 to 0.115   | 114   | 70 to 130 | 2.05   | 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 10/22/2019

## Batch QC Summary

**Customer Account:** WMWGASAP

**Sample Date:** 9/18/19 15:42

**Customer ID:**

**Delivery Date:** 9/19/19 09:12

**Description:** Gaston Ash Pond - MW-5

**Laboratory ID Number:** AZ21172

| Sample  | Analysis          | Units | MB      | MB    |       | MS   | MSD    | LCS  | LCS          |      | Rec       |       | Prec | Limit |
|---------|-------------------|-------|---------|-------|-------|------|--------|------|--------------|------|-----------|-------|------|-------|
|         |                   |       |         | Limit | Spike |      |        |      | Limit        | Rec  | Limit     | Prec  |      |       |
| AZ21172 | Chloride          | mg/L  | -0.0178 | 0.50  | 80.0  | 126  | 43.0   | 10.0 | 9 to 11      | 104  | 80 to 120 | 0.466 | 20   |       |
| AZ21172 | Fluoride          | mg/L  | 0.027   | 0.05  | 2.50  | 2.54 | 0.0572 | 2.61 | 2.25 to 2.75 | 99.3 | 80 to 120 | 0.702 | 20   |       |
| AZ21172 | Sulfate           | mg/L  | -0.437  | 0.50  | 200   | 361  | 163    | 19.2 | 18 to 22     | 97.0 | 80 to 120 | 2.42  | 20   |       |
| AZ21172 | Solids, Dissolved | mg/L  | 2.00    | 25    | 50.0  |      | 435    | 52.0 | 40 to 60     | 104  | 80 to 120 | 0.115 | 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 10/22/2019



# Certificate Of Analysis

**Description:** Gaston Ash Pond - MW-16V

**Location Code:** WMWGASAP  
**Collected:** 9/16/19 15:00  
**Customer ID:**  
**Submittal Date:** 9/19/19 09:55

**Laboratory ID Number:** AZ21183

| Name                                     | Prepared      | Analyzed            | Vio Spec | DF                                  | Results      | Units | MDL    | RL     | Q |
|------------------------------------------|---------------|---------------------|----------|-------------------------------------|--------------|-------|--------|--------|---|
| <b>Analytical Method: EPA 200.7</b>      |               | <b>Analyst: RDA</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |   |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 11:04       |          | 1.015                               | 1.38         | mg/L  | 0.03   | 0.1    |   |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 11:04       |          | 1.015                               | 38.7         | mg/L  | 0.1    | 0.5    |   |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 11:04       |          | 1.015                               | 0.312        | mg/L  | 0.01   | 0.02   |   |
| <b>Analytical Method: EPA 200.8</b>      |               | <b>Analyst: DLJ</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |   |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 11:49       |          | 1.015                               | Not Detected | mg/L  | 0.0008 | 0.003  | U |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 11:49       |          | 1.015                               | 0.00111      | mg/L  | 0.001  | 0.005  | J |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 11:49       |          | 1.015                               | 0.0503       | mg/L  | 0.002  | 0.01   |   |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 11:49       |          | 1.015                               | Not Detected | mg/L  | 0.0006 | 0.003  | U |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 11:49       |          | 1.015                               | Not Detected | mg/L  | 0.0003 | 0.001  | U |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 11:49       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 11:49       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.005  | U |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 11:49       |          | 1.015                               | Not Detected | mg/L  | 0.001  | 0.005  | U |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 11:49       |          | 1.015                               | 0.625        | mg/L  | 0.002  | 0.01   |   |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 11:49       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 11:49       |          | 1.015                               | 0.000604     | mg/L  | 0.0002 | 0.001  | J |
| <b>Analytical Method: EPA 245.1</b>      |               | <b>Analyst: GAS</b> |          |                                     |              |       |        |        |   |
| * Mercury, Total by CVAA                 | 9/25/19 08:09 | 9/25/19 13:08       |          | 1                                   | Not Detected | mg/L  | 0.0003 | 0.0005 | U |
| <b>Analytical Method: SM 2540C</b>       |               | <b>Analyst: TJW</b> |          |                                     |              |       |        |        |   |
| * Solids, Dissolved                      | 9/20/19 14:30 | 9/23/19 16:00       |          | 1                                   | 275          | mg/L  |        | 25     |   |
| <b>Analytical Method: SM4500CI E</b>     |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Chloride                               | 9/24/19 10:12 | 9/24/19 10:12       |          | 3                                   | 23.5         | mg/L  | 1.50   | 3      |   |
| <b>Analytical Method: SM4500F G 2017</b> |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Fluoride                               | 9/25/19 10:25 | 9/25/19 10:25       |          | 1                                   | 0.0935       | mg/L  | 0.05   | 0.1    | J |
| <b>Analytical Method: SM4500SO4 E</b>    |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Sulfate                                | 9/26/19 10:56 | 9/26/19 10:56       |          | 10                                  | 137          | mg/L  | 5.00   | 10     |   |

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

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/16/19 15:00  
**Customer ID:**  
**Delivery Date:** 9/19/19 09:55

**Description:** Gaston Ash Pond - MW-16V

**Laboratory ID Number:** AZ21183

| Sample  | Analysis               | Units | MB          |           | Spike | MS      | MSD     | LCS     | LCS              |      | Rec       |       | Prec | Limit |
|---------|------------------------|-------|-------------|-----------|-------|---------|---------|---------|------------------|------|-----------|-------|------|-------|
|         |                        |       | MB          | Limit     |       |         |         |         | Limit            | Rec  | Limit     | Prec  |      |       |
| AZ21192 | Boron, Total           | mg/L  | 0.00110     | 0.0650254 | 1.00  | 3.47    | 3.50    | 1.01    | 0.85 to 1.15     | 96.3 | 70 to 130 | 0.856 | 20   |       |
| AZ21192 | Calcium, Total         | mg/L  | -0.00677    | 0.1518    | 5.00  | 94.9    | 102     | 5.11    | 4.25 to 5.75     | -119 | 70 to 130 | 6.83  | 20   |       |
| AZ21192 | Lithium, Total         | mg/L  | -0.000112   | 0.0154    | 0.20  | 0.342   | 0.344   | 0.201   | 0.17 to 0.23     | 106  | 70 to 130 | 0.706 | 20   |       |
| AZ21193 | Arsenic, Total         | mg/L  | -0.00000011 | 0.0001474 | 0.10  | 0.107   | 0.107   | 0.105   | 0.085 to 0.115   | 103  | 70 to 130 | 0.569 | 20   |       |
| AZ21193 | Barium, Total          | mg/L  | 0.0000211   | 0.0002    | 0.10  | 0.154   | 0.152   | 0.105   | 0.085 to 0.115   | 101  | 70 to 130 | 0.895 | 20   |       |
| AZ21193 | Beryllium, Total       | mg/L  | 0.0000204   | 0.00088   | 0.10  | 0.0978  | 0.101   | 0.0999  | 0.085 to 0.115   | 97.8 | 70 to 130 | 2.77  | 20   |       |
| AZ21193 | Cadmium, Total         | mg/L  | 0.00000000  | 0.0001474 | 0.10  | 0.103   | 0.102   | 0.106   | 0.085 to 0.115   | 103  | 70 to 130 | 0.942 | 20   |       |
| AZ21193 | Cobalt, Total          | mg/L  | 0.00000033  | 0.0001474 | 0.10  | 0.102   | 0.101   | 0.107   | 0.085 to 0.115   | 102  | 70 to 130 | 1.04  | 20   |       |
| AZ21193 | Chromium, Total        | mg/L  | -0.00000666 | 0.00044   | 0.10  | 0.0993  | 0.0988  | 0.102   | 0.085 to 0.115   | 99.3 | 70 to 130 | 0.565 | 20   |       |
| AZ21193 | Mercury, Total by CVAA | mg/L  | 0.0000273   | 0.0005    | 0.004 | 0.00396 | 0.00368 | 0.00411 | 0.0034 to 0.0046 | 99.1 | 70 to 130 | 7.45  | 20   |       |
| AZ21193 | Molybdenum, Total      | mg/L  | 0.0000140   | 0.0001474 | 0.10  | 0.121   | 0.123   | 0.0999  | 0.085 to 0.115   | 96.3 | 70 to 130 | 1.79  | 20   |       |
| AZ21193 | Lead, Total            | mg/L  | 0.00000405  | 0.0001474 | 0.10  | 0.102   | 0.105   | 0.107   | 0.085 to 0.115   | 102  | 70 to 130 | 2.97  | 20   |       |
| AZ21193 | Antimony, Total        | mg/L  | 0.000189    | 0.00066   | 0.10  | 0.103   | 0.103   | 0.101   | 0.085 to 0.115   | 103  | 70 to 130 | 0.471 | 20   |       |
| AZ21193 | Selenium, Total        | mg/L  | 0.0000923   | 0.00066   | 0.10  | 0.106   | 0.107   | 0.108   | 0.085 to 0.115   | 106  | 70 to 130 | 1.15  | 20   |       |
| AZ21193 | Thallium, Total        | mg/L  | 0.00000141  | 0.0001474 | 0.10  | 0.110   | 0.113   | 0.113   | 0.085 to 0.115   | 109  | 70 to 130 | 3.23  | 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:** WMWGASAP

**Sample Date:** 9/16/19 15:00

**Customer ID:**

**Delivery Date:** 9/19/19 09:55

**Description:** Gaston Ash Pond - MW-16V

**Laboratory ID Number:** AZ21183

| Sample  | Analysis          | Units | MB      | MB    |       | MS   | MSD   | LCS  | LCS          |     | Rec       |       | Prec | Limit |
|---------|-------------------|-------|---------|-------|-------|------|-------|------|--------------|-----|-----------|-------|------|-------|
|         |                   |       |         | Limit | Spike |      |       |      | Limit        | Rec | Limit     | Prec  |      |       |
| AZ21192 | Chloride          | mg/L  | -0.0436 | 0.50  | 40.0  | 70.3 | 29.8  | 9.93 | 9 to 11      | 102 | 80 to 120 | 0.673 | 20   |       |
| AZ21192 | Fluoride          | mg/L  | 0.0245  | 0.05  | 2.50  | 2.62 | 0.119 | 2.62 | 2.25 to 2.75 | 100 | 80 to 120 | 0.837 | 20   |       |
| AZ21192 | Sulfate           | mg/L  | -0.399  | 0.50  | 200   | 470  | 255   | 19.2 | 18 to 22     | 105 | 80 to 120 | 1.94  | 20   |       |
| AZ21192 | Solids, Dissolved | mg/L  | 2.00    | 25    | 50.0  |      | 497   | 52.0 | 40 to 60     | 104 | 80 to 120 | 0.201 | 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:** Gaston Ash Pond - MW-16

**Location Code:** WMWGASAP  
**Collected:** 9/16/19 16:11  
**Customer ID:**  
**Submittal Date:** 9/19/19 09:55

**Laboratory ID Number:** AZ21184

| Name                                     | Prepared      | Analyzed            | Vio Spec | DF                                  | Results      | Units | MDL    | RL     | Q |
|------------------------------------------|---------------|---------------------|----------|-------------------------------------|--------------|-------|--------|--------|---|
| <b>Analytical Method: EPA 200.7</b>      |               | <b>Analyst: RDA</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |   |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 11:07       |          | 1.015                               | 1.40         | mg/L  | 0.03   | 0.1    |   |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 12:45       |          | 10.15                               | 61.3         | mg/L  | 1.015  | 5.075  |   |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 11:07       |          | 1.015                               | 0.0926       | mg/L  | 0.01   | 0.02   |   |
| <b>Analytical Method: EPA 200.8</b>      |               | <b>Analyst: DLJ</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |   |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 11:51       |          | 1.015                               | Not Detected | mg/L  | 0.0008 | 0.003  | U |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 11:51       |          | 1.015                               | 0.00492      | mg/L  | 0.001  | 0.005  | J |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 11:51       |          | 1.015                               | 0.0393       | mg/L  | 0.002  | 0.01   |   |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 11:51       |          | 1.015                               | Not Detected | mg/L  | 0.0006 | 0.003  | U |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 11:51       |          | 1.015                               | Not Detected | mg/L  | 0.0003 | 0.001  | U |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 11:51       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 11:51       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.005  | U |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 11:51       |          | 1.015                               | Not Detected | mg/L  | 0.001  | 0.005  | U |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 11:51       |          | 1.015                               | 0.320        | mg/L  | 0.002  | 0.01   |   |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 11:51       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 11:51       |          | 1.015                               | Not Detected | mg/L  | 0.0002 | 0.001  | U |
| <b>Analytical Method: EPA 245.1</b>      |               | <b>Analyst: GAS</b> |          |                                     |              |       |        |        |   |
| * Mercury, Total by CVAA                 | 9/25/19 08:09 | 9/25/19 13:11       |          | 1                                   | Not Detected | mg/L  | 0.0003 | 0.0005 | U |
| <b>Analytical Method: SM 2540C</b>       |               | <b>Analyst: TJW</b> |          |                                     |              |       |        |        |   |
| * Solids, Dissolved                      | 9/20/19 14:30 | 9/23/19 16:00       |          | 1                                   | 293          | mg/L  |        | 25     |   |
| <b>Analytical Method: SM4500Cl E</b>     |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Chloride                               | 9/24/19 10:13 | 9/24/19 10:13       |          | 3                                   | 20.4         | mg/L  | 1.50   | 3      |   |
| <b>Analytical Method: SM4500F G 2017</b> |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Fluoride                               | 9/25/19 10:26 | 9/25/19 10:26       |          | 1                                   | 0.126        | mg/L  | 0.05   | 0.1    |   |
| <b>Analytical Method: SM4500SO4 E</b>    |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Sulfate                                | 9/26/19 10:57 | 9/26/19 10:57       |          | 10                                  | 147          | mg/L  | 5.00   | 10     |   |

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

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/16/19 16:11  
**Customer ID:**  
**Delivery Date:** 9/19/19 09:55

**Description:** Gaston Ash Pond - MW-16

**Laboratory ID Number:** AZ21184

| Sample  | Analysis               | Units | MB          |           | MS    | MSD     | LCS     | LCS     |                  | Rec   |           | Prec  | Limit |
|---------|------------------------|-------|-------------|-----------|-------|---------|---------|---------|------------------|-------|-----------|-------|-------|
|         |                        |       | MB          | Limit     |       |         |         | Limit   | Rec              | Limit | Prec      |       |       |
| AZ21192 | Boron, Total           | mg/L  | 0.00110     | 0.0650254 | 1.00  | 3.47    | 3.50    | 1.01    | 0.85 to 1.15     | 96.3  | 70 to 130 | 0.856 | 20    |
| AZ21192 | Calcium, Total         | mg/L  | -0.00677    | 0.1518    | 5.00  | 94.9    | 102     | 5.11    | 4.25 to 5.75     | -119  | 70 to 130 | 6.83  | 20    |
| AZ21192 | Lithium, Total         | mg/L  | -0.000112   | 0.0154    | 0.20  | 0.342   | 0.344   | 0.201   | 0.17 to 0.23     | 106   | 70 to 130 | 0.706 | 20    |
| AZ21193 | Arsenic, Total         | mg/L  | -0.00000011 | 0.0001474 | 0.10  | 0.107   | 0.107   | 0.105   | 0.085 to 0.115   | 103   | 70 to 130 | 0.569 | 20    |
| AZ21193 | Barium, Total          | mg/L  | 0.0000211   | 0.0002    | 0.10  | 0.154   | 0.152   | 0.105   | 0.085 to 0.115   | 101   | 70 to 130 | 0.895 | 20    |
| AZ21193 | Beryllium, Total       | mg/L  | 0.0000204   | 0.00088   | 0.10  | 0.0978  | 0.101   | 0.0999  | 0.085 to 0.115   | 97.8  | 70 to 130 | 2.77  | 20    |
| AZ21193 | Cadmium, Total         | mg/L  | 0.00000000  | 0.0001474 | 0.10  | 0.103   | 0.102   | 0.106   | 0.085 to 0.115   | 103   | 70 to 130 | 0.942 | 20    |
| AZ21193 | Cobalt, Total          | mg/L  | 0.00000033  | 0.0001474 | 0.10  | 0.102   | 0.101   | 0.107   | 0.085 to 0.115   | 102   | 70 to 130 | 1.04  | 20    |
| AZ21193 | Chromium, Total        | mg/L  | -0.00000666 | 0.00044   | 0.10  | 0.0993  | 0.0988  | 0.102   | 0.085 to 0.115   | 99.3  | 70 to 130 | 0.565 | 20    |
| AZ21193 | Mercury, Total by CVAA | mg/L  | 0.0000273   | 0.0005    | 0.004 | 0.00396 | 0.00368 | 0.00411 | 0.0034 to 0.0046 | 99.1  | 70 to 130 | 7.45  | 20    |
| AZ21193 | Molybdenum, Total      | mg/L  | 0.0000140   | 0.0001474 | 0.10  | 0.121   | 0.123   | 0.0999  | 0.085 to 0.115   | 96.3  | 70 to 130 | 1.79  | 20    |
| AZ21193 | Lead, Total            | mg/L  | 0.00000405  | 0.0001474 | 0.10  | 0.102   | 0.105   | 0.107   | 0.085 to 0.115   | 102   | 70 to 130 | 2.97  | 20    |
| AZ21193 | Antimony, Total        | mg/L  | 0.000189    | 0.00066   | 0.10  | 0.103   | 0.103   | 0.101   | 0.085 to 0.115   | 103   | 70 to 130 | 0.471 | 20    |
| AZ21193 | Selenium, Total        | mg/L  | 0.0000923   | 0.00066   | 0.10  | 0.106   | 0.107   | 0.108   | 0.085 to 0.115   | 106   | 70 to 130 | 1.15  | 20    |
| AZ21193 | Thallium, Total        | mg/L  | 0.00000141  | 0.0001474 | 0.10  | 0.110   | 0.113   | 0.113   | 0.085 to 0.115   | 109   | 70 to 130 | 3.23  | 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:** WMWGASAP

**Sample Date:** 9/16/19 16:11

**Customer ID:**

**Delivery Date:** 9/19/19 09:55

**Description:** Gaston Ash Pond - MW-16

**Laboratory ID Number:** AZ21184

| Sample  | Analysis          | Units | MB      | MB    |       | MS   | MSD   | LCS  | LCS          |     | Rec       |       | Prec | Limit |
|---------|-------------------|-------|---------|-------|-------|------|-------|------|--------------|-----|-----------|-------|------|-------|
|         |                   |       |         | Limit | Spike |      |       |      | Limit        | Rec | Limit     | Prec  |      |       |
| AZ21192 | Chloride          | mg/L  | -0.0436 | 0.50  | 40.0  | 70.3 | 29.8  | 9.93 | 9 to 11      | 102 | 80 to 120 | 0.673 | 20   |       |
| AZ21192 | Fluoride          | mg/L  | 0.0245  | 0.05  | 2.50  | 2.62 | 0.119 | 2.62 | 2.25 to 2.75 | 100 | 80 to 120 | 0.837 | 20   |       |
| AZ21192 | Sulfate           | mg/L  | -0.399  | 0.50  | 200   | 470  | 255   | 19.2 | 18 to 22     | 105 | 80 to 120 | 1.94  | 20   |       |
| AZ21192 | Solids, Dissolved | mg/L  | 2.00    | 25    | 50.0  |      | 497   | 52.0 | 40 to 60     | 104 | 80 to 120 | 0.201 | 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:** Gaston Ash Pond - MW-16DUP

**Location Code:** WMWGASAP  
**Collected:** 9/16/19 16:11  
**Customer ID:**  
**Submittal Date:** 9/19/19 09:55

**Laboratory ID Number:** AZ21185

| Name                                     | Prepared      | Analyzed      | Vio Spec            | DF    | Results                             | Units | MDL    | RL     | Q |
|------------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-------|--------|--------|---|
| <b>Analytical Method: EPA 200.7</b>      |               |               | <b>Analyst: RDA</b> |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 11:10 |                     | 1.015 | 1.39                                | mg/L  | 0.03   | 0.1    |   |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 12:48 |                     | 10.15 | 59.3                                | mg/L  | 1.015  | 5.075  |   |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 11:10 |                     | 1.015 | 0.0919                              | mg/L  | 0.01   | 0.02   |   |
| <b>Analytical Method: EPA 200.8</b>      |               |               | <b>Analyst: DLJ</b> |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 11:54 |                     | 1.015 | Not Detected                        | mg/L  | 0.0008 | 0.003  | U |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 11:54 |                     | 1.015 | 0.00516                             | mg/L  | 0.001  | 0.005  |   |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 11:54 |                     | 1.015 | 0.0390                              | mg/L  | 0.002  | 0.01   |   |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 11:54 |                     | 1.015 | Not Detected                        | mg/L  | 0.0006 | 0.003  | U |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 11:54 |                     | 1.015 | Not Detected                        | mg/L  | 0.0003 | 0.001  | U |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 11:54 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 11:54 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.005  | U |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 11:54 |                     | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 11:54 |                     | 1.015 | 0.324                               | mg/L  | 0.002  | 0.01   |   |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 11:54 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 11:54 |                     | 1.015 | Not Detected                        | mg/L  | 0.0002 | 0.001  | U |
| <b>Analytical Method: EPA 245.1</b>      |               |               | <b>Analyst: GAS</b> |       |                                     |       |        |        |   |
| * Mercury, Total by CVAA                 | 9/25/19 08:09 | 9/25/19 13:13 |                     | 1     | Not Detected                        | mg/L  | 0.0003 | 0.0005 | U |
| <b>Analytical Method: SM 2540C</b>       |               |               | <b>Analyst: TJW</b> |       |                                     |       |        |        |   |
| * Solids, Dissolved                      | 9/20/19 14:30 | 9/23/19 16:00 |                     | 1     | 301                                 | mg/L  |        | 25     |   |
| <b>Analytical Method: SM4500Cl E</b>     |               |               | <b>Analyst: JCC</b> |       |                                     |       |        |        |   |
| * Chloride                               | 9/24/19 10:15 | 9/24/19 10:15 |                     | 3     | 20.6                                | mg/L  | 1.50   | 3      |   |
| <b>Analytical Method: SM4500F G 2017</b> |               |               | <b>Analyst: JCC</b> |       |                                     |       |        |        |   |
| * Fluoride                               | 9/25/19 10:28 | 9/25/19 10:28 |                     | 1     | 0.124                               | mg/L  | 0.05   | 0.1    |   |
| <b>Analytical Method: SM4500SO4 E</b>    |               |               | <b>Analyst: JCC</b> |       |                                     |       |        |        |   |
| * Sulfate                                | 9/26/19 10:59 | 9/26/19 10:59 |                     | 10    | 147                                 | mg/L  | 5.00   | 10     |   |

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

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/16/19 16:11  
**Customer ID:**  
**Delivery Date:** 9/19/19 09:55

**Description:** Gaston Ash Pond - MW-16DUP

**Laboratory ID Number:** AZ21185

| Sample  | Analysis               | Units | MB          |           | MS    | MSD     | LCS     | LCS     |                  | Rec   |           | Prec  | Limit |
|---------|------------------------|-------|-------------|-----------|-------|---------|---------|---------|------------------|-------|-----------|-------|-------|
|         |                        |       | MB          | Limit     |       |         |         | Limit   | Rec              | Limit | Prec      |       |       |
| AZ21192 | Boron, Total           | mg/L  | 0.00110     | 0.0650254 | 1.00  | 3.47    | 3.50    | 1.01    | 0.85 to 1.15     | 96.3  | 70 to 130 | 0.856 | 20    |
| AZ21192 | Calcium, Total         | mg/L  | -0.00677    | 0.1518    | 5.00  | 94.9    | 102     | 5.11    | 4.25 to 5.75     | -119  | 70 to 130 | 6.83  | 20    |
| AZ21192 | Lithium, Total         | mg/L  | -0.000112   | 0.0154    | 0.20  | 0.342   | 0.344   | 0.201   | 0.17 to 0.23     | 106   | 70 to 130 | 0.706 | 20    |
| AZ21193 | Arsenic, Total         | mg/L  | -0.00000011 | 0.0001474 | 0.10  | 0.107   | 0.107   | 0.105   | 0.085 to 0.115   | 103   | 70 to 130 | 0.569 | 20    |
| AZ21193 | Barium, Total          | mg/L  | 0.0000211   | 0.0002    | 0.10  | 0.154   | 0.152   | 0.105   | 0.085 to 0.115   | 101   | 70 to 130 | 0.895 | 20    |
| AZ21193 | Beryllium, Total       | mg/L  | 0.0000204   | 0.00088   | 0.10  | 0.0978  | 0.101   | 0.0999  | 0.085 to 0.115   | 97.8  | 70 to 130 | 2.77  | 20    |
| AZ21193 | Cadmium, Total         | mg/L  | 0.00000000  | 0.0001474 | 0.10  | 0.103   | 0.102   | 0.106   | 0.085 to 0.115   | 103   | 70 to 130 | 0.942 | 20    |
| AZ21193 | Cobalt, Total          | mg/L  | 0.00000033  | 0.0001474 | 0.10  | 0.102   | 0.101   | 0.107   | 0.085 to 0.115   | 102   | 70 to 130 | 1.04  | 20    |
| AZ21193 | Chromium, Total        | mg/L  | -0.00000666 | 0.00044   | 0.10  | 0.0993  | 0.0988  | 0.102   | 0.085 to 0.115   | 99.3  | 70 to 130 | 0.565 | 20    |
| AZ21193 | Mercury, Total by CVAA | mg/L  | 0.0000273   | 0.0005    | 0.004 | 0.00396 | 0.00368 | 0.00411 | 0.0034 to 0.0046 | 99.1  | 70 to 130 | 7.45  | 20    |
| AZ21193 | Molybdenum, Total      | mg/L  | 0.0000140   | 0.0001474 | 0.10  | 0.121   | 0.123   | 0.0999  | 0.085 to 0.115   | 96.3  | 70 to 130 | 1.79  | 20    |
| AZ21193 | Lead, Total            | mg/L  | 0.00000405  | 0.0001474 | 0.10  | 0.102   | 0.105   | 0.107   | 0.085 to 0.115   | 102   | 70 to 130 | 2.97  | 20    |
| AZ21193 | Antimony, Total        | mg/L  | 0.000189    | 0.00066   | 0.10  | 0.103   | 0.103   | 0.101   | 0.085 to 0.115   | 103   | 70 to 130 | 0.471 | 20    |
| AZ21193 | Selenium, Total        | mg/L  | 0.0000923   | 0.00066   | 0.10  | 0.106   | 0.107   | 0.108   | 0.085 to 0.115   | 106   | 70 to 130 | 1.15  | 20    |
| AZ21193 | Thallium, Total        | mg/L  | 0.00000141  | 0.0001474 | 0.10  | 0.110   | 0.113   | 0.113   | 0.085 to 0.115   | 109   | 70 to 130 | 3.23  | 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:** WMWGASAP

**Sample Date:** 9/16/19 16:11

**Customer ID:**

**Delivery Date:** 9/19/19 09:55

**Description:** Gaston Ash Pond - MW-16DUP

**Laboratory ID Number:** AZ21185

| Sample  | Analysis          | Units | MB      | MB    |       | MS   | MSD   | LCS  | LCS          |     | Rec       |       | Prec | Limit |
|---------|-------------------|-------|---------|-------|-------|------|-------|------|--------------|-----|-----------|-------|------|-------|
|         |                   |       |         | Limit | Spike |      |       |      | Limit        | Rec | Limit     | Prec  |      |       |
| AZ21192 | Chloride          | mg/L  | -0.0436 | 0.50  | 40.0  | 70.3 | 29.8  | 9.93 | 9 to 11      | 102 | 80 to 120 | 0.673 | 20   |       |
| AZ21192 | Fluoride          | mg/L  | 0.0245  | 0.05  | 2.50  | 2.62 | 0.119 | 2.62 | 2.25 to 2.75 | 100 | 80 to 120 | 0.837 | 20   |       |
| AZ21192 | Sulfate           | mg/L  | -0.399  | 0.50  | 200   | 470  | 255   | 19.2 | 18 to 22     | 105 | 80 to 120 | 1.94  | 20   |       |
| AZ21192 | Solids, Dissolved | mg/L  | 2.00    | 25    | 50.0  |      | 497   | 52.0 | 40 to 60     | 104 | 80 to 120 | 0.201 | 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:** Gaston Ash Pond - MW-28H

**Location Code:** WMWGASAP  
**Collected:** 9/16/19 17:07  
**Customer ID:**  
**Submittal Date:** 9/19/19 09:55

**Laboratory ID Number:** AZ21186

| Name                                     | Prepared      | Analyzed            | Vio Spec | DF    | Results                             | Units | MDL    | RL     | Q |
|------------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|--------|--------|---|
| <b>Analytical Method: EPA 200.7</b>      |               | <b>Analyst: RDA</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 11:13       |          | 1.015 | 0.805                               | mg/L  | 0.03   | 0.1    |   |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 12:51       |          | 10.15 | 46.7                                | mg/L  | 1.015  | 5.075  |   |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 11:13       |          | 1.015 | 0.141                               | mg/L  | 0.01   | 0.02   |   |
| <b>Analytical Method: EPA 200.8</b>      |               | <b>Analyst: DLJ</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 11:57       |          | 1.015 | Not Detected                        | mg/L  | 0.0008 | 0.003  | U |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 11:57       |          | 1.015 | 0.00360                             | mg/L  | 0.001  | 0.005  | J |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 11:57       |          | 1.015 | 0.0321                              | mg/L  | 0.002  | 0.01   |   |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 11:57       |          | 1.015 | Not Detected                        | mg/L  | 0.0006 | 0.003  | U |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 11:57       |          | 1.015 | Not Detected                        | mg/L  | 0.0003 | 0.001  | U |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 11:57       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 11:57       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.005  | U |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 11:57       |          | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 11:57       |          | 1.015 | 0.469                               | mg/L  | 0.002  | 0.01   |   |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 11:57       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 11:57       |          | 1.015 | Not Detected                        | mg/L  | 0.0002 | 0.001  | U |
| <b>Analytical Method: EPA 245.1</b>      |               | <b>Analyst: GAS</b> |          |       |                                     |       |        |        |   |
| * Mercury, Total by CVAA                 | 9/25/19 08:09 | 9/25/19 13:16       |          | 1     | Not Detected                        | mg/L  | 0.0003 | 0.0005 | U |
| <b>Analytical Method: SM 2540C</b>       |               | <b>Analyst: TJW</b> |          |       |                                     |       |        |        |   |
| * Solids, Dissolved                      | 9/20/19 14:30 | 9/23/19 16:00       |          | 1     | 276                                 | mg/L  |        | 25     |   |
| <b>Analytical Method: SM4500Cl E</b>     |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |   |
| * Chloride                               | 9/24/19 10:16 | 9/24/19 10:16       |          | 1     | 15.6                                | mg/L  | 0.50   | 1      |   |
| <b>Analytical Method: SM4500F G 2017</b> |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |   |
| * Fluoride                               | 9/25/19 10:29 | 9/25/19 10:29       |          | 1     | 0.0768                              | mg/L  | 0.05   | 0.1    | J |
| <b>Analytical Method: SM4500SO4 E</b>    |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |   |
| * Sulfate                                | 9/26/19 11:00 | 9/26/19 11:00       |          | 10    | 126                                 | mg/L  | 5.00   | 10     |   |

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

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/16/19 17:07  
**Customer ID:**  
**Delivery Date:** 9/19/19 09:55

**Description:** Gaston Ash Pond - MW-28H

**Laboratory ID Number:** AZ21186

| Sample  | Analysis               | Units | MB          |           | MS    | MSD     | LCS     | LCS     |                  | Rec   |           | Prec  | Limit |
|---------|------------------------|-------|-------------|-----------|-------|---------|---------|---------|------------------|-------|-----------|-------|-------|
|         |                        |       | MB          | Limit     |       |         |         | Limit   | Rec              | Limit | Prec      |       |       |
| AZ21192 | Boron, Total           | mg/L  | 0.00110     | 0.0650254 | 1.00  | 3.47    | 3.50    | 1.01    | 0.85 to 1.15     | 96.3  | 70 to 130 | 0.856 | 20    |
| AZ21192 | Calcium, Total         | mg/L  | -0.00677    | 0.1518    | 5.00  | 94.9    | 102     | 5.11    | 4.25 to 5.75     | -119  | 70 to 130 | 6.83  | 20    |
| AZ21192 | Lithium, Total         | mg/L  | -0.000112   | 0.0154    | 0.20  | 0.342   | 0.344   | 0.201   | 0.17 to 0.23     | 106   | 70 to 130 | 0.706 | 20    |
| AZ21193 | Arsenic, Total         | mg/L  | -0.00000011 | 0.0001474 | 0.10  | 0.107   | 0.107   | 0.105   | 0.085 to 0.115   | 103   | 70 to 130 | 0.569 | 20    |
| AZ21193 | Barium, Total          | mg/L  | 0.0000211   | 0.0002    | 0.10  | 0.154   | 0.152   | 0.105   | 0.085 to 0.115   | 101   | 70 to 130 | 0.895 | 20    |
| AZ21193 | Beryllium, Total       | mg/L  | 0.0000204   | 0.00088   | 0.10  | 0.0978  | 0.101   | 0.0999  | 0.085 to 0.115   | 97.8  | 70 to 130 | 2.77  | 20    |
| AZ21193 | Cadmium, Total         | mg/L  | 0.00000000  | 0.0001474 | 0.10  | 0.103   | 0.102   | 0.106   | 0.085 to 0.115   | 103   | 70 to 130 | 0.942 | 20    |
| AZ21193 | Cobalt, Total          | mg/L  | 0.00000033  | 0.0001474 | 0.10  | 0.102   | 0.101   | 0.107   | 0.085 to 0.115   | 102   | 70 to 130 | 1.04  | 20    |
| AZ21193 | Chromium, Total        | mg/L  | -0.00000666 | 0.00044   | 0.10  | 0.0993  | 0.0988  | 0.102   | 0.085 to 0.115   | 99.3  | 70 to 130 | 0.565 | 20    |
| AZ21193 | Mercury, Total by CVAA | mg/L  | 0.0000273   | 0.0005    | 0.004 | 0.00396 | 0.00368 | 0.00411 | 0.0034 to 0.0046 | 99.1  | 70 to 130 | 7.45  | 20    |
| AZ21193 | Molybdenum, Total      | mg/L  | 0.0000140   | 0.0001474 | 0.10  | 0.121   | 0.123   | 0.0999  | 0.085 to 0.115   | 96.3  | 70 to 130 | 1.79  | 20    |
| AZ21193 | Lead, Total            | mg/L  | 0.00000405  | 0.0001474 | 0.10  | 0.102   | 0.105   | 0.107   | 0.085 to 0.115   | 102   | 70 to 130 | 2.97  | 20    |
| AZ21193 | Antimony, Total        | mg/L  | 0.000189    | 0.00066   | 0.10  | 0.103   | 0.103   | 0.101   | 0.085 to 0.115   | 103   | 70 to 130 | 0.471 | 20    |
| AZ21193 | Selenium, Total        | mg/L  | 0.0000923   | 0.00066   | 0.10  | 0.106   | 0.107   | 0.108   | 0.085 to 0.115   | 106   | 70 to 130 | 1.15  | 20    |
| AZ21193 | Thallium, Total        | mg/L  | 0.00000141  | 0.0001474 | 0.10  | 0.110   | 0.113   | 0.113   | 0.085 to 0.115   | 109   | 70 to 130 | 3.23  | 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:** WMWGASAP  
**Sample Date:** 9/16/19 17:07  
**Customer ID:**  
**Delivery Date:** 9/19/19 09:55

**Description:** Gaston Ash Pond - MW-28H

**Laboratory ID Number:** AZ21186

| Sample  | Analysis          | Units | MB      | MB    |       | MS   | MSD   | LCS  | LCS          |     | Rec       |       | Prec | Limit |
|---------|-------------------|-------|---------|-------|-------|------|-------|------|--------------|-----|-----------|-------|------|-------|
|         |                   |       |         | Limit | Spike |      |       |      | Limit        | Rec | Limit     | Prec  |      |       |
| AZ21192 | Chloride          | mg/L  | -0.0436 | 0.50  | 40.0  | 70.3 | 29.8  | 9.93 | 9 to 11      | 102 | 80 to 120 | 0.673 | 20   |       |
| AZ21192 | Fluoride          | mg/L  | 0.0245  | 0.05  | 2.50  | 2.62 | 0.119 | 2.62 | 2.25 to 2.75 | 100 | 80 to 120 | 0.837 | 20   |       |
| AZ21192 | Sulfate           | mg/L  | -0.399  | 0.50  | 200   | 470  | 255   | 19.2 | 18 to 22     | 105 | 80 to 120 | 1.94  | 20   |       |
| AZ21192 | Solids, Dissolved | mg/L  | 2.00    | 25    | 50.0  |      | 497   | 52.0 | 40 to 60     | 104 | 80 to 120 | 0.201 | 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:** Gaston Ash Pond - MW-29H

**Location Code:** WMWGASAP  
**Collected:** 9/17/19 12:00  
**Customer ID:**  
**Submittal Date:** 9/19/19 09:55

**Laboratory ID Number:** AZ21187

| Name                                     | Prepared      | Analyzed            | Vio Spec | DF                                  | Results      | Units | MDL    | RL     | Q |
|------------------------------------------|---------------|---------------------|----------|-------------------------------------|--------------|-------|--------|--------|---|
| <b>Analytical Method: EPA 200.7</b>      |               | <b>Analyst: RDA</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |   |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 11:16       |          | 1.015                               | 1.18         | mg/L  | 0.03   | 0.1    |   |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 12:54       |          | 10.15                               | 48.5         | mg/L  | 1.015  | 5.075  |   |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 11:16       |          | 1.015                               | 0.289        | mg/L  | 0.01   | 0.02   |   |
| <b>Analytical Method: EPA 200.8</b>      |               | <b>Analyst: DLJ</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |   |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 11:59       |          | 1.015                               | Not Detected | mg/L  | 0.0008 | 0.003  | U |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 11:59       |          | 1.015                               | 0.00222      | mg/L  | 0.001  | 0.005  | J |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 11:59       |          | 1.015                               | 0.0567       | mg/L  | 0.002  | 0.01   |   |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 11:59       |          | 1.015                               | Not Detected | mg/L  | 0.0006 | 0.003  | U |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 11:59       |          | 1.015                               | Not Detected | mg/L  | 0.0003 | 0.001  | U |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 11:59       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 11:59       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.005  | U |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 11:59       |          | 1.015                               | Not Detected | mg/L  | 0.001  | 0.005  | U |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 11:59       |          | 1.015                               | 1.04         | mg/L  | 0.002  | 0.01   |   |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 11:59       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 11:59       |          | 1.015                               | Not Detected | mg/L  | 0.0002 | 0.001  | U |
| <b>Analytical Method: EPA 245.1</b>      |               | <b>Analyst: GAS</b> |          |                                     |              |       |        |        |   |
| * Mercury, Total by CVAA                 | 9/25/19 08:09 | 9/25/19 13:18       |          | 1                                   | Not Detected | mg/L  | 0.0003 | 0.0005 | U |
| <b>Analytical Method: SM 2540C</b>       |               | <b>Analyst: TJW</b> |          |                                     |              |       |        |        |   |
| * Solids, Dissolved                      | 9/20/19 14:30 | 9/23/19 16:00       |          | 1                                   | 331          | mg/L  |        | 25     |   |
| <b>Analytical Method: SM4500Cl E</b>     |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Chloride                               | 9/24/19 10:17 | 9/24/19 10:17       |          | 3                                   | 20.5         | mg/L  | 1.50   | 3      |   |
| <b>Analytical Method: SM4500F G 2017</b> |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Fluoride                               | 9/25/19 10:30 | 9/25/19 10:30       |          | 1                                   | 0.0669       | mg/L  | 0.05   | 0.1    | J |
| <b>Analytical Method: SM4500SO4 E</b>    |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Sulfate                                | 9/26/19 11:01 | 9/26/19 11:01       |          | 10                                  | 161          | mg/L  | 5.00   | 10     |   |

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

**Comments:** Sample results are qualified due to field DO reading was outside of field parameters at collection.  
 See APC Field Report. LBM 10/10/2019

# Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/17/19 12:00  
**Customer ID:**  
**Delivery Date:** 9/19/19 09:55

**Description:** Gaston Ash Pond - MW-29H

**Laboratory ID Number:** AZ21187

| Sample  | Analysis               | Units | MB          |           | MS    | MSD     | LCS     | LCS     |                  | Rec   |           | Prec  | Limit |
|---------|------------------------|-------|-------------|-----------|-------|---------|---------|---------|------------------|-------|-----------|-------|-------|
|         |                        |       | MB          | Limit     |       |         |         | Limit   | Rec              | Limit | Prec      |       |       |
| AZ21192 | Boron, Total           | mg/L  | 0.00110     | 0.0650254 | 1.00  | 3.47    | 3.50    | 1.01    | 0.85 to 1.15     | 96.3  | 70 to 130 | 0.856 | 20    |
| AZ21192 | Calcium, Total         | mg/L  | -0.00677    | 0.1518    | 5.00  | 94.9    | 102     | 5.11    | 4.25 to 5.75     | -119  | 70 to 130 | 6.83  | 20    |
| AZ21192 | Lithium, Total         | mg/L  | -0.000112   | 0.0154    | 0.20  | 0.342   | 0.344   | 0.201   | 0.17 to 0.23     | 106   | 70 to 130 | 0.706 | 20    |
| AZ21193 | Arsenic, Total         | mg/L  | -0.00000011 | 0.0001474 | 0.10  | 0.107   | 0.107   | 0.105   | 0.085 to 0.115   | 103   | 70 to 130 | 0.569 | 20    |
| AZ21193 | Barium, Total          | mg/L  | 0.0000211   | 0.0002    | 0.10  | 0.154   | 0.152   | 0.105   | 0.085 to 0.115   | 101   | 70 to 130 | 0.895 | 20    |
| AZ21193 | Beryllium, Total       | mg/L  | 0.0000204   | 0.00088   | 0.10  | 0.0978  | 0.101   | 0.0999  | 0.085 to 0.115   | 97.8  | 70 to 130 | 2.77  | 20    |
| AZ21193 | Cadmium, Total         | mg/L  | 0.00000000  | 0.0001474 | 0.10  | 0.103   | 0.102   | 0.106   | 0.085 to 0.115   | 103   | 70 to 130 | 0.942 | 20    |
| AZ21193 | Cobalt, Total          | mg/L  | 0.00000033  | 0.0001474 | 0.10  | 0.102   | 0.101   | 0.107   | 0.085 to 0.115   | 102   | 70 to 130 | 1.04  | 20    |
| AZ21193 | Chromium, Total        | mg/L  | -0.00000666 | 0.00044   | 0.10  | 0.0993  | 0.0988  | 0.102   | 0.085 to 0.115   | 99.3  | 70 to 130 | 0.565 | 20    |
| AZ21193 | Mercury, Total by CVAA | mg/L  | 0.0000273   | 0.0005    | 0.004 | 0.00396 | 0.00368 | 0.00411 | 0.0034 to 0.0046 | 99.1  | 70 to 130 | 7.45  | 20    |
| AZ21193 | Molybdenum, Total      | mg/L  | 0.0000140   | 0.0001474 | 0.10  | 0.121   | 0.123   | 0.0999  | 0.085 to 0.115   | 96.3  | 70 to 130 | 1.79  | 20    |
| AZ21193 | Lead, Total            | mg/L  | 0.00000405  | 0.0001474 | 0.10  | 0.102   | 0.105   | 0.107   | 0.085 to 0.115   | 102   | 70 to 130 | 2.97  | 20    |
| AZ21193 | Antimony, Total        | mg/L  | 0.000189    | 0.00066   | 0.10  | 0.103   | 0.103   | 0.101   | 0.085 to 0.115   | 103   | 70 to 130 | 0.471 | 20    |
| AZ21193 | Selenium, Total        | mg/L  | 0.0000923   | 0.00066   | 0.10  | 0.106   | 0.107   | 0.108   | 0.085 to 0.115   | 106   | 70 to 130 | 1.15  | 20    |
| AZ21193 | Thallium, Total        | mg/L  | 0.00000141  | 0.0001474 | 0.10  | 0.110   | 0.113   | 0.113   | 0.085 to 0.115   | 109   | 70 to 130 | 3.23  | 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:** Sample results are qualified due to field DO reading was outside of field parameters at collection.  
 See APC Field Report. LBM 10/10/2019

## Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/17/19 12:00  
**Customer ID:**  
**Delivery Date:** 9/19/19 09:55

**Description:** Gaston Ash Pond - MW-29H

**Laboratory ID Number:** AZ21187

| Sample  | Analysis          | Units | MB      | MB    |       | MS   | MSD   | LCS  | LCS          |     | Rec       |       | Prec |
|---------|-------------------|-------|---------|-------|-------|------|-------|------|--------------|-----|-----------|-------|------|
|         |                   |       |         | Limit | Spike |      |       |      | Limit        | Rec | Limit     | Prec  |      |
| AZ21192 | Chloride          | mg/L  | -0.0436 | 0.50  | 40.0  | 70.3 | 29.8  | 9.93 | 9 to 11      | 102 | 80 to 120 | 0.673 | 20   |
| AZ21192 | Fluoride          | mg/L  | 0.0245  | 0.05  | 2.50  | 2.62 | 0.119 | 2.62 | 2.25 to 2.75 | 100 | 80 to 120 | 0.837 | 20   |
| AZ21192 | Sulfate           | mg/L  | -0.399  | 0.50  | 200   | 470  | 255   | 19.2 | 18 to 22     | 105 | 80 to 120 | 1.94  | 20   |
| AZ21192 | Solids, Dissolved | mg/L  | 2.00    | 25    | 50.0  |      | 497   | 52.0 | 40 to 60     | 104 | 80 to 120 | 0.201 | 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:** Sample results are qualified due to field DO reading was outside of field parameters at collection.  
 See APC Field Report. LBM 10/10/2019

# Certificate Of Analysis

**Description:** Gaston Ash Pond - MW-17V

**Location Code:** WMWGASAP  
**Collected:** 9/17/19 15:22  
**Customer ID:**  
**Submittal Date:** 9/19/19 09:56

**Laboratory ID Number:** AZ21188

| Name                                     | Prepared      | Analyzed            | Vio Spec | DF                                  | Results      | Units | MDL     | RL      | Q |
|------------------------------------------|---------------|---------------------|----------|-------------------------------------|--------------|-------|---------|---------|---|
| <b>Analytical Method: EPA 200.7</b>      |               | <b>Analyst: RDA</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |         |         |   |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 11:19       |          | 1.015                               | 2.07         | mg/L  | 0.03    | 0.1     |   |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 12:57       |          | 10.15                               | 94.0         | mg/L  | 1.015   | 5.075   |   |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 11:19       |          | 1.015                               | 0.432        | mg/L  | 0.01    | 0.02    |   |
| <b>Analytical Method: EPA 200.8</b>      |               | <b>Analyst: DLJ</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |         |         |   |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 12:02       |          | 1.015                               | Not Detected | mg/L  | 0.0008  | 0.003   | U |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 12:02       |          | 1.015                               | 0.00136      | mg/L  | 0.001   | 0.005   | J |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 12:02       |          | 1.015                               | 0.0475       | mg/L  | 0.002   | 0.01    |   |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 12:02       |          | 1.015                               | Not Detected | mg/L  | 0.0006  | 0.003   | U |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 12:02       |          | 1.015                               | Not Detected | mg/L  | 0.0003  | 0.001   | U |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 12:02       |          | 1.015                               | Not Detected | mg/L  | 0.002   | 0.01    | U |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 12:02       |          | 1.015                               | Not Detected | mg/L  | 0.002   | 0.005   | U |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 12:02       |          | 1.015                               | Not Detected | mg/L  | 0.001   | 0.005   | U |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 14:31       |          | 5.075                               | 1.73         | mg/L  | 0.01015 | 0.05075 |   |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 12:02       |          | 1.015                               | Not Detected | mg/L  | 0.002   | 0.01    | U |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 12:02       |          | 1.015                               | Not Detected | mg/L  | 0.0002  | 0.001   | U |
| <b>Analytical Method: EPA 245.1</b>      |               | <b>Analyst: GAS</b> |          |                                     |              |       |         |         |   |
| * Mercury, Total by CVAA                 | 9/25/19 08:09 | 9/25/19 13:20       |          | 1                                   | Not Detected | mg/L  | 0.0003  | 0.0005  | U |
| <b>Analytical Method: SM 2540C</b>       |               | <b>Analyst: TJW</b> |          |                                     |              |       |         |         |   |
| * Solids, Dissolved                      | 9/20/19 14:30 | 9/23/19 16:00       |          | 1                                   | 458          | mg/L  |         | 25      |   |
| <b>Analytical Method: SM4500CI E</b>     |               | <b>Analyst: JCC</b> |          |                                     |              |       |         |         |   |
| * Chloride                               | 9/24/19 10:18 | 9/24/19 10:18       |          | 3                                   | 30.8         | mg/L  | 1.50    | 3       |   |
| <b>Analytical Method: SM4500F G 2017</b> |               | <b>Analyst: JCC</b> |          |                                     |              |       |         |         |   |
| * Fluoride                               | 9/25/19 10:31 | 9/25/19 10:31       |          | 1                                   | 0.0925       | mg/L  | 0.05    | 0.1     | J |
| <b>Analytical Method: SM4500SO4 E</b>    |               | <b>Analyst: JCC</b> |          |                                     |              |       |         |         |   |
| * Sulfate                                | 9/26/19 11:02 | 9/26/19 11:02       |          | 10                                  | 243          | mg/L  | 5.00    | 10      |   |

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

**Comments:**



# Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/17/19 15:22  
**Customer ID:**  
**Delivery Date:** 9/19/19 09:56

**Description:** Gaston Ash Pond - MW-17V

**Laboratory ID Number:** AZ21188

| Sample  | Analysis               | Units | MB          |           | Spike | MS      | MSD     | LCS     | LCS              |      | Rec       |       | Prec | Limit |
|---------|------------------------|-------|-------------|-----------|-------|---------|---------|---------|------------------|------|-----------|-------|------|-------|
|         |                        |       | MB          | Limit     |       |         |         |         | Limit            | Rec  | Limit     | Prec  |      |       |
| AZ21192 | Boron, Total           | mg/L  | 0.00110     | 0.0650254 | 1.00  | 3.47    | 3.50    | 1.01    | 0.85 to 1.15     | 96.3 | 70 to 130 | 0.856 | 20   |       |
| AZ21192 | Calcium, Total         | mg/L  | -0.00677    | 0.1518    | 5.00  | 94.9    | 102     | 5.11    | 4.25 to 5.75     | -119 | 70 to 130 | 6.83  | 20   |       |
| AZ21192 | Lithium, Total         | mg/L  | -0.000112   | 0.0154    | 0.20  | 0.342   | 0.344   | 0.201   | 0.17 to 0.23     | 106  | 70 to 130 | 0.706 | 20   |       |
| AZ21193 | Arsenic, Total         | mg/L  | -0.00000011 | 0.0001474 | 0.10  | 0.107   | 0.107   | 0.105   | 0.085 to 0.115   | 103  | 70 to 130 | 0.569 | 20   |       |
| AZ21193 | Barium, Total          | mg/L  | 0.0000211   | 0.0002    | 0.10  | 0.154   | 0.152   | 0.105   | 0.085 to 0.115   | 101  | 70 to 130 | 0.895 | 20   |       |
| AZ21193 | Beryllium, Total       | mg/L  | 0.0000204   | 0.00088   | 0.10  | 0.0978  | 0.101   | 0.0999  | 0.085 to 0.115   | 97.8 | 70 to 130 | 2.77  | 20   |       |
| AZ21193 | Cadmium, Total         | mg/L  | 0.00000000  | 0.0001474 | 0.10  | 0.103   | 0.102   | 0.106   | 0.085 to 0.115   | 103  | 70 to 130 | 0.942 | 20   |       |
| AZ21193 | Cobalt, Total          | mg/L  | 0.00000033  | 0.0001474 | 0.10  | 0.102   | 0.101   | 0.107   | 0.085 to 0.115   | 102  | 70 to 130 | 1.04  | 20   |       |
| AZ21193 | Chromium, Total        | mg/L  | -0.00000666 | 0.00044   | 0.10  | 0.0993  | 0.0988  | 0.102   | 0.085 to 0.115   | 99.3 | 70 to 130 | 0.565 | 20   |       |
| AZ21193 | Mercury, Total by CVAA | mg/L  | 0.0000273   | 0.0005    | 0.004 | 0.00396 | 0.00368 | 0.00411 | 0.0034 to 0.0046 | 99.1 | 70 to 130 | 7.45  | 20   |       |
| AZ21193 | Molybdenum, Total      | mg/L  | 0.0000140   | 0.0001474 | 0.10  | 0.121   | 0.123   | 0.0999  | 0.085 to 0.115   | 96.3 | 70 to 130 | 1.79  | 20   |       |
| AZ21193 | Lead, Total            | mg/L  | 0.00000405  | 0.0001474 | 0.10  | 0.102   | 0.105   | 0.107   | 0.085 to 0.115   | 102  | 70 to 130 | 2.97  | 20   |       |
| AZ21193 | Antimony, Total        | mg/L  | 0.000189    | 0.00066   | 0.10  | 0.103   | 0.103   | 0.101   | 0.085 to 0.115   | 103  | 70 to 130 | 0.471 | 20   |       |
| AZ21193 | Selenium, Total        | mg/L  | 0.0000923   | 0.00066   | 0.10  | 0.106   | 0.107   | 0.108   | 0.085 to 0.115   | 106  | 70 to 130 | 1.15  | 20   |       |
| AZ21193 | Thallium, Total        | mg/L  | 0.00000141  | 0.0001474 | 0.10  | 0.110   | 0.113   | 0.113   | 0.085 to 0.115   | 109  | 70 to 130 | 3.23  | 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:** WMWGASAP

**Sample Date:** 9/17/19 15:22

**Customer ID:**

**Delivery Date:** 9/19/19 09:56

**Description:** Gaston Ash Pond - MW-17V

**Laboratory ID Number:** AZ21188

| Sample  | Analysis          | Units | MB      | MB    |       | MS   | MSD   | LCS  | LCS          |     | Rec       |       | Prec | Limit |
|---------|-------------------|-------|---------|-------|-------|------|-------|------|--------------|-----|-----------|-------|------|-------|
|         |                   |       |         | Limit | Spike |      |       |      | Limit        | Rec | Limit     | Prec  |      |       |
| AZ21192 | Chloride          | mg/L  | -0.0436 | 0.50  | 40.0  | 70.3 | 29.8  | 9.93 | 9 to 11      | 102 | 80 to 120 | 0.673 | 20   |       |
| AZ21192 | Fluoride          | mg/L  | 0.0245  | 0.05  | 2.50  | 2.62 | 0.119 | 2.62 | 2.25 to 2.75 | 100 | 80 to 120 | 0.837 | 20   |       |
| AZ21192 | Sulfate           | mg/L  | -0.399  | 0.50  | 200   | 470  | 255   | 19.2 | 18 to 22     | 105 | 80 to 120 | 1.94  | 20   |       |
| AZ21192 | Solids, Dissolved | mg/L  | 2.00    | 25    | 50.0  |      | 497   | 52.0 | 40 to 60     | 104 | 80 to 120 | 0.201 | 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:** Gaston Ash Pond - MW-17V DISS

**Location Code:** WMWGASAP  
**Collected:** 9/17/19 15:22  
**Customer ID:**  
**Submittal Date:** 9/19/19 09:56

**Laboratory ID Number:** AZ21189

| Name                                     | Prepared      | Analyzed            | Vio Spec | DF    | Results      | Units | MDL     | RL      | Q  |
|------------------------------------------|---------------|---------------------|----------|-------|--------------|-------|---------|---------|----|
| <b>Analytical Method: EPA 200.7</b>      |               | <b>Analyst: RDA</b> |          |       |              |       |         |         |    |
| * Boron, Dissolved                       | 9/24/19 09:03 | 9/24/19 11:48       |          | 1.015 | 2.11         | mg/L  | 0.03    | 0.1     |    |
| * Calcium, Dissolved                     | 9/24/19 09:03 | 9/24/19 13:17       |          | 10.15 | 72.5         | mg/L  | 1.015   | 5.075   | RA |
| * Lithium, Dissolved                     | 9/24/19 09:03 | 9/24/19 11:48       |          | 1.015 | 0.436        | mg/L  | 0.01    | 0.02    |    |
| <b>Analytical Method: EPA 200.8</b>      |               | <b>Analyst: DLJ</b> |          |       |              |       |         |         |    |
| * Antimony, Dissolved                    | 9/23/19 12:44 | 9/24/19 10:37       |          | 1.015 | Not Detected | mg/L  | 0.0008  | 0.003   | U  |
| * Arsenic, Dissolved                     | 9/23/19 12:44 | 9/24/19 10:37       |          | 1.015 | 0.00104      | mg/L  | 0.001   | 0.005   | J  |
| * Barium, Dissolved                      | 9/23/19 12:44 | 9/24/19 10:37       |          | 1.015 | 0.0492       | mg/L  | 0.002   | 0.01    |    |
| * Beryllium, Dissolved                   | 9/23/19 12:44 | 9/24/19 10:37       |          | 1.015 | Not Detected | mg/L  | 0.0006  | 0.003   | U  |
| * Cadmium, Dissolved                     | 9/23/19 12:44 | 9/24/19 10:37       |          | 1.015 | Not Detected | mg/L  | 0.0003  | 0.001   | U  |
| * Chromium, Dissolved                    | 9/23/19 12:44 | 9/24/19 10:37       |          | 1.015 | Not Detected | mg/L  | 0.002   | 0.01    | U  |
| * Cobalt, Dissolved                      | 9/23/19 12:44 | 9/24/19 10:37       |          | 1.015 | Not Detected | mg/L  | 0.002   | 0.005   | U  |
| * Lead, Dissolved                        | 9/23/19 12:44 | 9/24/19 10:37       |          | 1.015 | Not Detected | mg/L  | 0.001   | 0.005   | U  |
| * Molybdenum, Dissolved                  | 9/23/19 12:44 | 9/24/19 10:48       |          | 5.075 | 1.69         | mg/L  | 0.01015 | 0.05075 | RA |
| * Selenium, Dissolved                    | 9/23/19 12:44 | 9/24/19 10:37       |          | 1.015 | Not Detected | mg/L  | 0.002   | 0.01    | U  |
| * Thallium, Dissolved                    | 9/23/19 12:44 | 9/24/19 10:37       |          | 1.015 | Not Detected | mg/L  | 0.0002  | 0.001   | U  |
| <b>Analytical Method: EPA 245.1</b>      |               | <b>Analyst: GAS</b> |          |       |              |       |         |         |    |
| * Mercury, Dissolved by CVAA             | 9/25/19 12:24 | 9/26/19 11:23       |          | 1     | Not Detected | mg/L  | 0.0003  | 0.0005  | U  |
| <b>Analytical Method: SM 2540C</b>       |               | <b>Analyst: TJW</b> |          |       |              |       |         |         |    |
| * Solids, Dissolved                      | 9/20/19 14:30 | 9/23/19 16:00       |          | 1     | 461          | mg/L  |         | 25      |    |
| <b>Analytical Method: SM4500Cl E</b>     |               | <b>Analyst: JCC</b> |          |       |              |       |         |         |    |
| * Chloride                               | 9/24/19 10:19 | 9/24/19 10:19       |          | 3     | 31.2         | mg/L  | 1.50    | 3       |    |
| <b>Analytical Method: SM4500F G 2017</b> |               | <b>Analyst: JCC</b> |          |       |              |       |         |         |    |
| * Fluoride                               | 9/25/19 10:33 | 9/25/19 10:33       |          | 1     | 0.0913       | mg/L  | 0.05    | 0.1     | J  |
| <b>Analytical Method: SM4500SO4 E</b>    |               | <b>Analyst: JCC</b> |          |       |              |       |         |         |    |
| * Sulfate                                | 9/26/19 11:03 | 9/26/19 11:03       |          | 10    | 246          | mg/L  | 5.00    | 10      |    |

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

**Comments:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Recovery for Dissolved Calcium and Dissolved Molybdenum were out of spec. Spike amounts were less than 30% of the sample amounts. LBM 10/18/19

# Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/17/19 15:22  
**Customer ID:**  
**Delivery Date:** 9/19/19 09:56

**Description:** Gaston Ash Pond - MW-17V DISS

**Laboratory ID Number:** AZ21189

| Sample  | Analysis              | Units | MB         |           | MS    | MSD     | LCS     | LCS     | Rec              |       | Prec | Limit     |       |    |
|---------|-----------------------|-------|------------|-----------|-------|---------|---------|---------|------------------|-------|------|-----------|-------|----|
|         |                       |       | MB         | Limit     |       |         |         |         | Rec              | Limit |      |           |       |    |
| AZ21189 | Arsenic, Dissolved    | mg/L  | -0.0000162 | 0.0001474 | 0.10  | 0.106   | 0.105   | 0.104   | 0.085 to 0.115   |       | 105  | 70 to 130 | 1.59  | 20 |
| AZ21189 | Barium, Dissolved     | mg/L  | 0.00000023 | 0.0002    | 0.10  | 0.156   | 0.148   | 0.103   | 0.085 to 0.115   |       | 107  | 70 to 130 | 5.43  | 20 |
| AZ21189 | Beryllium, Dissolved  | mg/L  | 0.0000208  | 0.00088   | 0.10  | 0.103   | 0.102   | 0.101   | 0.085 to 0.115   |       | 103  | 70 to 130 | 0.979 | 20 |
| AZ21189 | Boron, Dissolved      | mg/L  | 0.00288    | 0.0650254 | 1.00  | 3.12    | 3.16    | 1.02    | 0.85 to 1.15     |       | 101  | 70 to 130 | 1.27  | 20 |
| AZ21189 | Calcium, Dissolved    | mg/L  | -0.00354   | 0.1518    | 5.00  | 89.1    | 81.0    | 5.21    | 4.25 to 5.75     |       | 332  | 70 to 130 | 9.46  | 20 |
| AZ21189 | Cadmium, Dissolved    | mg/L  | 0.00000000 | 0.0001474 | 0.10  | 0.104   | 0.103   | 0.103   | 0.085 to 0.115   |       | 104  | 70 to 130 | 1.41  | 20 |
| AZ21189 | Cobalt, Dissolved     | mg/L  | 0.00000238 | 0.0001474 | 0.10  | 0.108   | 0.106   | 0.107   | 0.085 to 0.115   |       | 108  | 70 to 130 | 1.94  | 20 |
| AZ21189 | Chromium, Dissolved   | mg/L  | 0.0000413  | 0.00044   | 0.10  | 0.103   | 0.100   | 0.102   | 0.085 to 0.115   |       | 103  | 70 to 130 | 2.81  | 20 |
| AZ21189 | Mercury, Dissolved by | mg/L  | 0.0000219  | 0.0005    | 0.004 | 0.00413 | 0.00424 | 0.00440 | 0.0034 to 0.0046 |       | 103  | 70 to 130 | 2.63  | 20 |
| AZ21189 | Lithium, Dissolved    | mg/L  | -0.000114  | 0.0154    | 0.200 | 0.653   | 0.665   | 0.198   | 0.17 to 0.23     |       | 108  | 70 to 130 | 1.82  | 20 |
| AZ21189 | Molybdenum, Dissolved | mg/L  | 0.0000232  | 0.0001474 | 0.10  | 1.79    | 1.82    | 0.0987  | 0.085 to 0.115   |       | 98.8 | 70 to 130 | 1.77  | 20 |
| AZ21189 | Lead, Dissolved       | mg/L  | 0.00000831 | 0.0001474 | 0.10  | 0.113   | 0.110   | 0.111   | 0.085 to 0.115   |       | 113  | 70 to 130 | 2.40  | 20 |
| AZ21189 | Antimony, Dissolved   | mg/L  | 0.000205   | 0.00066   | 0.10  | 0.103   | 0.0987  | 0.0981  | 0.085 to 0.115   |       | 103  | 70 to 130 | 3.83  | 20 |
| AZ21189 | Selenium, Dissolved   | mg/L  | 0.0000887  | 0.00066   | 0.10  | 0.108   | 0.106   | 0.106   | 0.085 to 0.115   |       | 108  | 70 to 130 | 2.54  | 20 |
| AZ21189 | Thallium, Dissolved   | mg/L  | 0.00000263 | 0.0001474 | 0.10  | 0.110   | 0.108   | 0.111   | 0.085 to 0.115   |       | 110  | 70 to 130 | 1.17  | 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:** The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Recovery for Dissolved Calcium and Dissolved Molybdenum were out of spec. Spike amounts were less than 30% of the sample amounts. LBM 10/18/19

## Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/17/19 15:22  
**Customer ID:**  
**Delivery Date:** 9/19/19 09:56

**Description:** Gaston Ash Pond - MW-17V DISS

**Laboratory ID Number:** AZ21189

| Sample  | Analysis          | Units | MB      | MB    |       | MS   | MSD   | LCS  | LCS          |     | Rec       |       | Prec | Limit |
|---------|-------------------|-------|---------|-------|-------|------|-------|------|--------------|-----|-----------|-------|------|-------|
|         |                   |       |         | Limit | Spike |      |       |      | Limit        | Rec | Limit     | Prec  |      |       |
| AZ21192 | Chloride          | mg/L  | -0.0436 | 0.50  | 40.0  | 70.3 | 29.8  | 9.93 | 9 to 11      | 102 | 80 to 120 | 0.673 | 20   |       |
| AZ21192 | Fluoride          | mg/L  | 0.0245  | 0.05  | 2.50  | 2.62 | 0.119 | 2.62 | 2.25 to 2.75 | 100 | 80 to 120 | 0.837 | 20   |       |
| AZ21192 | Sulfate           | mg/L  | -0.399  | 0.50  | 200   | 470  | 255   | 19.2 | 18 to 22     | 105 | 80 to 120 | 1.94  | 20   |       |
| AZ21192 | Solids, Dissolved | mg/L  | 2.00    | 25    | 50.0  |      | 497   | 52.0 | 40 to 60     | 104 | 80 to 120 | 0.201 | 5    |       |

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Laboratory certification ID: E571114

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# Certificate Of Analysis

**Description:** Gaston Ash Pond - MW-17

**Location Code:** WMWGASAP  
**Collected:** 9/17/19 17:10  
**Customer ID:**  
**Submittal Date:** 9/19/19 09:56

**Laboratory ID Number:** AZ21190

| Name                                     | Prepared      | Analyzed            | Vio Spec | DF                                  | Results      | Units | MDL     | RL      | Q |
|------------------------------------------|---------------|---------------------|----------|-------------------------------------|--------------|-------|---------|---------|---|
| <b>Analytical Method: EPA 200.7</b>      |               | <b>Analyst: RDA</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |         |         |   |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 11:22       |          | 1.015                               | 3.25         | mg/L  | 0.03    | 0.1     |   |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 13:00       |          | 10.15                               | 131          | mg/L  | 1.015   | 5.075   |   |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 11:22       |          | 1.015                               | 0.785        | mg/L  | 0.01    | 0.02    |   |
| <b>Analytical Method: EPA 200.8</b>      |               | <b>Analyst: DLJ</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |         |         |   |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 12:05       |          | 1.015                               | Not Detected | mg/L  | 0.0008  | 0.003   | U |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 12:05       |          | 1.015                               | 0.0109       | mg/L  | 0.001   | 0.005   |   |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 12:05       |          | 1.015                               | 0.120        | mg/L  | 0.002   | 0.01    |   |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 12:05       |          | 1.015                               | Not Detected | mg/L  | 0.0006  | 0.003   | U |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 12:05       |          | 1.015                               | Not Detected | mg/L  | 0.0003  | 0.001   | U |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 12:05       |          | 1.015                               | Not Detected | mg/L  | 0.002   | 0.01    | U |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 12:05       |          | 1.015                               | Not Detected | mg/L  | 0.002   | 0.005   | U |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 12:05       |          | 1.015                               | Not Detected | mg/L  | 0.001   | 0.005   | U |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 14:34       |          | 5.075                               | 2.33         | mg/L  | 0.01015 | 0.05075 |   |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 12:05       |          | 1.015                               | Not Detected | mg/L  | 0.002   | 0.01    | U |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 12:05       |          | 1.015                               | Not Detected | mg/L  | 0.0002  | 0.001   | U |
| <b>Analytical Method: EPA 245.1</b>      |               | <b>Analyst: GAS</b> |          |                                     |              |       |         |         |   |
| * Mercury, Total by CVAA                 | 9/25/19 08:09 | 9/25/19 13:23       |          | 1                                   | Not Detected | mg/L  | 0.0003  | 0.0005  | U |
| <b>Analytical Method: SM 2540C</b>       |               | <b>Analyst: TJW</b> |          |                                     |              |       |         |         |   |
| * Solids, Dissolved                      | 9/20/19 14:30 | 9/23/19 16:00       |          | 1                                   | 592          | mg/L  |         | 50      |   |
| <b>Analytical Method: SM4500Cl E</b>     |               | <b>Analyst: JCC</b> |          |                                     |              |       |         |         |   |
| * Chloride                               | 9/24/19 10:21 | 9/24/19 10:21       |          | 3                                   | 43.2         | mg/L  | 1.50    | 3       |   |
| <b>Analytical Method: SM4500F G 2017</b> |               | <b>Analyst: JCC</b> |          |                                     |              |       |         |         |   |
| * Fluoride                               | 9/25/19 10:34 | 9/25/19 10:34       |          | 1                                   | 0.187        | mg/L  | 0.05    | 0.1     |   |
| <b>Analytical Method: SM4500SO4 E</b>    |               | <b>Analyst: JCC</b> |          |                                     |              |       |         |         |   |
| * Sulfate                                | 9/26/19 11:05 | 9/26/19 11:05       |          | 10                                  | 322          | mg/L  | 5.00    | 10      |   |

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

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/17/19 17:10  
**Customer ID:**  
**Delivery Date:** 9/19/19 09:56

**Description:** Gaston Ash Pond - MW-17

**Laboratory ID Number:** AZ21190

| Sample  | Analysis               | Units | MB          |           | Spike | MS      | MSD     | LCS     | LCS              |      | Rec       |       | Prec | Limit |
|---------|------------------------|-------|-------------|-----------|-------|---------|---------|---------|------------------|------|-----------|-------|------|-------|
|         |                        |       | MB          | Limit     |       |         |         |         | Limit            | Rec  | Limit     | Prec  |      |       |
| AZ21192 | Boron, Total           | mg/L  | 0.00110     | 0.0650254 | 1.00  | 3.47    | 3.50    | 1.01    | 0.85 to 1.15     | 96.3 | 70 to 130 | 0.856 | 20   |       |
| AZ21192 | Calcium, Total         | mg/L  | -0.00677    | 0.1518    | 5.00  | 94.9    | 102     | 5.11    | 4.25 to 5.75     | -119 | 70 to 130 | 6.83  | 20   |       |
| AZ21192 | Lithium, Total         | mg/L  | -0.000112   | 0.0154    | 0.20  | 0.342   | 0.344   | 0.201   | 0.17 to 0.23     | 106  | 70 to 130 | 0.706 | 20   |       |
| AZ21193 | Arsenic, Total         | mg/L  | -0.00000011 | 0.0001474 | 0.10  | 0.107   | 0.107   | 0.105   | 0.085 to 0.115   | 103  | 70 to 130 | 0.569 | 20   |       |
| AZ21193 | Barium, Total          | mg/L  | 0.0000211   | 0.0002    | 0.10  | 0.154   | 0.152   | 0.105   | 0.085 to 0.115   | 101  | 70 to 130 | 0.895 | 20   |       |
| AZ21193 | Beryllium, Total       | mg/L  | 0.0000204   | 0.00088   | 0.10  | 0.0978  | 0.101   | 0.0999  | 0.085 to 0.115   | 97.8 | 70 to 130 | 2.77  | 20   |       |
| AZ21193 | Cadmium, Total         | mg/L  | 0.00000000  | 0.0001474 | 0.10  | 0.103   | 0.102   | 0.106   | 0.085 to 0.115   | 103  | 70 to 130 | 0.942 | 20   |       |
| AZ21193 | Cobalt, Total          | mg/L  | 0.00000033  | 0.0001474 | 0.10  | 0.102   | 0.101   | 0.107   | 0.085 to 0.115   | 102  | 70 to 130 | 1.04  | 20   |       |
| AZ21193 | Chromium, Total        | mg/L  | -0.00000666 | 0.00044   | 0.10  | 0.0993  | 0.0988  | 0.102   | 0.085 to 0.115   | 99.3 | 70 to 130 | 0.565 | 20   |       |
| AZ21193 | Mercury, Total by CVAA | mg/L  | 0.0000273   | 0.0005    | 0.004 | 0.00396 | 0.00368 | 0.00411 | 0.0034 to 0.0046 | 99.1 | 70 to 130 | 7.45  | 20   |       |
| AZ21193 | Molybdenum, Total      | mg/L  | 0.0000140   | 0.0001474 | 0.10  | 0.121   | 0.123   | 0.0999  | 0.085 to 0.115   | 96.3 | 70 to 130 | 1.79  | 20   |       |
| AZ21193 | Lead, Total            | mg/L  | 0.00000405  | 0.0001474 | 0.10  | 0.102   | 0.105   | 0.107   | 0.085 to 0.115   | 102  | 70 to 130 | 2.97  | 20   |       |
| AZ21193 | Antimony, Total        | mg/L  | 0.000189    | 0.00066   | 0.10  | 0.103   | 0.103   | 0.101   | 0.085 to 0.115   | 103  | 70 to 130 | 0.471 | 20   |       |
| AZ21193 | Selenium, Total        | mg/L  | 0.0000923   | 0.00066   | 0.10  | 0.106   | 0.107   | 0.108   | 0.085 to 0.115   | 106  | 70 to 130 | 1.15  | 20   |       |
| AZ21193 | Thallium, Total        | mg/L  | 0.00000141  | 0.0001474 | 0.10  | 0.110   | 0.113   | 0.113   | 0.085 to 0.115   | 109  | 70 to 130 | 3.23  | 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:** WMWGASAP  
**Sample Date:** 9/17/19 17:10  
**Customer ID:**  
**Delivery Date:** 9/19/19 09:56

**Description:** Gaston Ash Pond - MW-17

**Laboratory ID Number:** AZ21190

| Sample  | Analysis          | Units | MB      | MB    |       | MS   | MSD   | LCS  | LCS          |     | Rec       |       | Prec | Limit |
|---------|-------------------|-------|---------|-------|-------|------|-------|------|--------------|-----|-----------|-------|------|-------|
|         |                   |       |         | Limit | Spike |      |       |      | Limit        | Rec | Limit     | Prec  |      |       |
| AZ21192 | Chloride          | mg/L  | -0.0436 | 0.50  | 40.0  | 70.3 | 29.8  | 9.93 | 9 to 11      | 102 | 80 to 120 | 0.673 | 20   |       |
| AZ21192 | Fluoride          | mg/L  | 0.0245  | 0.05  | 2.50  | 2.62 | 0.119 | 2.62 | 2.25 to 2.75 | 100 | 80 to 120 | 0.837 | 20   |       |
| AZ21192 | Sulfate           | mg/L  | -0.399  | 0.50  | 200   | 470  | 255   | 19.2 | 18 to 22     | 105 | 80 to 120 | 1.94  | 20   |       |
| AZ21192 | Solids, Dissolved | mg/L  | 2.00    | 25    | 50.0  |      | 497   | 52.0 | 40 to 60     | 104 | 80 to 120 | 0.201 | 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:** Gaston Ash Pond Field Blank

**Location Code:** WMWGASAPFB  
**Collected:** 9/18/19 09:20  
**Customer ID:**  
**Submittal Date:** 9/19/19 09:56

**Laboratory ID Number:** AZ21191

| Name                                     | Prepared      | Analyzed            | Vio Spec | DF    | Results                             | Units | MDL    | RL     | Q |
|------------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|--------|--------|---|
| <b>Analytical Method: EPA 200.7</b>      |               | <b>Analyst: RDA</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 11:25       |          | 1.015 | Not Detected                        | mg/L  | 0.03   | 0.1    | U |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 11:25       |          | 1.015 | Not Detected                        | mg/L  | 0.1    | 0.5    | U |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 11:25       |          | 1.015 | Not Detected                        | mg/L  | 0.01   | 0.02   | U |
| <b>Analytical Method: EPA 200.8</b>      |               | <b>Analyst: DLJ</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 12:07       |          | 1.015 | Not Detected                        | mg/L  | 0.0008 | 0.003  | U |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 12:07       |          | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 12:07       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 12:07       |          | 1.015 | Not Detected                        | mg/L  | 0.0006 | 0.003  | U |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 12:07       |          | 1.015 | Not Detected                        | mg/L  | 0.0003 | 0.001  | U |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 12:07       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 12:07       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.005  | U |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 12:07       |          | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 12:07       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 12:07       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 12:07       |          | 1.015 | Not Detected                        | mg/L  | 0.0002 | 0.001  | U |
| <b>Analytical Method: EPA 245.1</b>      |               | <b>Analyst: GAS</b> |          |       |                                     |       |        |        |   |
| * Mercury, Total by CVAA                 | 9/25/19 08:09 | 9/25/19 13:25       |          | 1     | Not Detected                        | mg/L  | 0.0003 | 0.0005 | U |
| <b>Analytical Method: SM 2540C</b>       |               | <b>Analyst: TJW</b> |          |       |                                     |       |        |        |   |
| * Solids, Dissolved                      | 9/20/19 14:30 | 9/23/19 16:00       |          | 1     | Not Detected                        | mg/L  |        | 25     | U |
| <b>Analytical Method: SM4500CI E</b>     |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |   |
| * Chloride                               | 9/24/19 10:22 | 9/24/19 10:22       |          | 1     | Not Detected                        | mg/L  | 0.50   | 1      | U |
| <b>Analytical Method: SM4500F G 2017</b> |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |   |
| * Fluoride                               | 9/25/19 10:35 | 9/25/19 10:35       |          | 1     | Not Detected                        | mg/L  | 0.05   | 0.1    | U |
| <b>Analytical Method: SM4500SO4 E</b>    |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |   |
| * Sulfate                                | 9/26/19 11:06 | 9/26/19 11:06       |          | 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:** WMWGASAPFB

**Sample Date:** 9/18/19 09:20

**Customer ID:**

**Delivery Date:** 9/19/19 09:56

**Description:** Gaston Ash Pond Field Blank

**Laboratory ID Number:** AZ21191

| Sample  | Analysis               | Units | MB          |           | Spike | MS      | MSD     | LCS     | LCS              |      | Rec       |       | Prec | Limit |
|---------|------------------------|-------|-------------|-----------|-------|---------|---------|---------|------------------|------|-----------|-------|------|-------|
|         |                        |       | MB          | Limit     |       |         |         |         | Limit            | Rec  | Limit     | Prec  |      |       |
| AZ21192 | Boron, Total           | mg/L  | 0.00110     | 0.0650254 | 1.00  | 3.47    | 3.50    | 1.01    | 0.85 to 1.15     | 96.3 | 70 to 130 | 0.856 | 20   |       |
| AZ21192 | Calcium, Total         | mg/L  | -0.00677    | 0.1518    | 5.00  | 94.9    | 102     | 5.11    | 4.25 to 5.75     | -119 | 70 to 130 | 6.83  | 20   |       |
| AZ21192 | Lithium, Total         | mg/L  | -0.000112   | 0.0154    | 0.20  | 0.342   | 0.344   | 0.201   | 0.17 to 0.23     | 106  | 70 to 130 | 0.706 | 20   |       |
| AZ21193 | Arsenic, Total         | mg/L  | -0.00000011 | 0.0001474 | 0.10  | 0.107   | 0.107   | 0.105   | 0.085 to 0.115   | 103  | 70 to 130 | 0.569 | 20   |       |
| AZ21193 | Barium, Total          | mg/L  | 0.0000211   | 0.0002    | 0.10  | 0.154   | 0.152   | 0.105   | 0.085 to 0.115   | 101  | 70 to 130 | 0.895 | 20   |       |
| AZ21193 | Beryllium, Total       | mg/L  | 0.0000204   | 0.00088   | 0.10  | 0.0978  | 0.101   | 0.0999  | 0.085 to 0.115   | 97.8 | 70 to 130 | 2.77  | 20   |       |
| AZ21193 | Cadmium, Total         | mg/L  | 0.00000000  | 0.0001474 | 0.10  | 0.103   | 0.102   | 0.106   | 0.085 to 0.115   | 103  | 70 to 130 | 0.942 | 20   |       |
| AZ21193 | Cobalt, Total          | mg/L  | 0.00000033  | 0.0001474 | 0.10  | 0.102   | 0.101   | 0.107   | 0.085 to 0.115   | 102  | 70 to 130 | 1.04  | 20   |       |
| AZ21193 | Chromium, Total        | mg/L  | -0.00000666 | 0.00044   | 0.10  | 0.0993  | 0.0988  | 0.102   | 0.085 to 0.115   | 99.3 | 70 to 130 | 0.565 | 20   |       |
| AZ21193 | Mercury, Total by CVAA | mg/L  | 0.0000273   | 0.0005    | 0.004 | 0.00396 | 0.00368 | 0.00411 | 0.0034 to 0.0046 | 99.1 | 70 to 130 | 7.45  | 20   |       |
| AZ21193 | Molybdenum, Total      | mg/L  | 0.0000140   | 0.0001474 | 0.10  | 0.121   | 0.123   | 0.0999  | 0.085 to 0.115   | 96.3 | 70 to 130 | 1.79  | 20   |       |
| AZ21193 | Lead, Total            | mg/L  | 0.00000405  | 0.0001474 | 0.10  | 0.102   | 0.105   | 0.107   | 0.085 to 0.115   | 102  | 70 to 130 | 2.97  | 20   |       |
| AZ21193 | Antimony, Total        | mg/L  | 0.000189    | 0.00066   | 0.10  | 0.103   | 0.103   | 0.101   | 0.085 to 0.115   | 103  | 70 to 130 | 0.471 | 20   |       |
| AZ21193 | Selenium, Total        | mg/L  | 0.0000923   | 0.00066   | 0.10  | 0.106   | 0.107   | 0.108   | 0.085 to 0.115   | 106  | 70 to 130 | 1.15  | 20   |       |
| AZ21193 | Thallium, Total        | mg/L  | 0.00000141  | 0.0001474 | 0.10  | 0.110   | 0.113   | 0.113   | 0.085 to 0.115   | 109  | 70 to 130 | 3.23  | 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:** WMWGASAPFB

**Sample Date:** 9/18/19 09:20

**Customer ID:**

**Delivery Date:** 9/19/19 09:56

**Description:** Gaston Ash Pond Field Blank

**Laboratory ID Number:** AZ21191

| Sample  | Analysis          | Units | MB      | MB    |       | MS   | MSD   | LCS  | LCS          |     | Rec       |       | Prec | Limit |
|---------|-------------------|-------|---------|-------|-------|------|-------|------|--------------|-----|-----------|-------|------|-------|
|         |                   |       |         | Limit | Spike |      |       |      | Limit        | Rec | Limit     | Prec  |      |       |
| AZ21192 | Chloride          | mg/L  | -0.0436 | 0.50  | 40.0  | 70.3 | 29.8  | 9.93 | 9 to 11      | 102 | 80 to 120 | 0.673 | 20   |       |
| AZ21192 | Fluoride          | mg/L  | 0.0245  | 0.05  | 2.50  | 2.62 | 0.119 | 2.62 | 2.25 to 2.75 | 100 | 80 to 120 | 0.837 | 20   |       |
| AZ21192 | Sulfate           | mg/L  | -0.399  | 0.50  | 200   | 470  | 255   | 19.2 | 18 to 22     | 105 | 80 to 120 | 1.94  | 20   |       |
| AZ21192 | Solids, Dissolved | mg/L  | 2.00    | 25    | 50.0  |      | 497   | 52.0 | 40 to 60     | 104 | 80 to 120 | 0.201 | 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:** Gaston Ash Pond - MW-17SV

**Location Code:** WMWGASAP  
**Collected:** 9/18/19 09:45  
**Customer ID:**  
**Submittal Date:** 9/19/19 09:56

**Laboratory ID Number:** AZ21192

| Name                                     | Prepared      | Analyzed            | Vio Spec | DF                                  | Results      | Units | MDL    | RL     | Q  |
|------------------------------------------|---------------|---------------------|----------|-------------------------------------|--------------|-------|--------|--------|----|
| <b>Analytical Method: EPA 200.7</b>      |               | <b>Analyst: RDA</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |    |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 11:27       |          | 1.015                               | 2.51         | mg/L  | 0.03   | 0.1    |    |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 13:03       |          | 10.15                               | 101          | mg/L  | 1.015  | 5.075  | RA |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 11:27       |          | 1.015                               | 0.129        | mg/L  | 0.01   | 0.02   |    |
| <b>Analytical Method: EPA 200.8</b>      |               | <b>Analyst: DLJ</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |    |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 12:10       |          | 1.015                               | Not Detected | mg/L  | 0.0008 | 0.003  | U  |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 12:10       |          | 1.015                               | 0.00215      | mg/L  | 0.001  | 0.005  | J  |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 12:10       |          | 1.015                               | 0.0667       | mg/L  | 0.002  | 0.01   |    |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 12:10       |          | 1.015                               | Not Detected | mg/L  | 0.0006 | 0.003  | U  |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 12:10       |          | 1.015                               | Not Detected | mg/L  | 0.0003 | 0.001  | U  |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 12:10       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U  |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 12:10       |          | 1.015                               | 0.00327      | mg/L  | 0.002  | 0.005  | J  |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 12:10       |          | 1.015                               | Not Detected | mg/L  | 0.001  | 0.005  | U  |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 12:10       |          | 1.015                               | 0.801        | mg/L  | 0.002  | 0.01   |    |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 12:10       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U  |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 12:10       |          | 1.015                               | Not Detected | mg/L  | 0.0002 | 0.001  | U  |
| <b>Analytical Method: EPA 245.1</b>      |               | <b>Analyst: GAS</b> |          |                                     |              |       |        |        |    |
| * Mercury, Total by CVAA                 | 9/25/19 08:09 | 9/25/19 13:27       |          | 1                                   | Not Detected | mg/L  | 0.0003 | 0.0005 | U  |
| <b>Analytical Method: SM 2540C</b>       |               | <b>Analyst: TJW</b> |          |                                     |              |       |        |        |    |
| * Solids, Dissolved                      | 9/20/19 14:30 | 9/23/19 16:00       |          | 1                                   | 499          | mg/L  |        | 25     |    |
| <b>Analytical Method: SM4500CI E</b>     |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |    |
| * Chloride                               | 9/24/19 10:23 | 9/24/19 10:23       |          | 4                                   | 29.6         | mg/L  | 2.00   | 4      |    |
| <b>Analytical Method: SM4500F G 2017</b> |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |    |
| * Fluoride                               | 9/25/19 10:36 | 9/25/19 10:36       |          | 1                                   | 0.120        | mg/L  | 0.05   | 0.1    |    |
| <b>Analytical Method: SM4500SO4 E</b>    |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |    |
| * Sulfate                                | 9/26/19 11:07 | 9/26/19 11:07       |          | 10                                  | 260          | mg/L  | 5.00   | 10     |    |

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 10/22/2019

# Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/18/19 09:45  
**Customer ID:**  
**Delivery Date:** 9/19/19 09:56

**Description:** Gaston Ash Pond - MW-17SV

**Laboratory ID Number:** AZ21192

| Sample  | Analysis               | Units | MB          |           | MS    | MSD     | LCS     | LCS     |                  | Rec   |           | Prec  | Limit |
|---------|------------------------|-------|-------------|-----------|-------|---------|---------|---------|------------------|-------|-----------|-------|-------|
|         |                        |       | MB          | Limit     |       |         |         | Limit   | Rec              | Limit | Prec      |       |       |
| AZ21192 | Boron, Total           | mg/L  | 0.00110     | 0.0650254 | 1.00  | 3.47    | 3.50    | 1.01    | 0.85 to 1.15     | 96.3  | 70 to 130 | 0.856 | 20    |
| AZ21192 | Calcium, Total         | mg/L  | -0.00677    | 0.1518    | 5.00  | 94.9    | 102     | 5.11    | 4.25 to 5.75     | -119  | 70 to 130 | 6.83  | 20    |
| AZ21192 | Lithium, Total         | mg/L  | -0.000112   | 0.0154    | 0.20  | 0.342   | 0.344   | 0.201   | 0.17 to 0.23     | 106   | 70 to 130 | 0.706 | 20    |
| AZ21193 | Arsenic, Total         | mg/L  | -0.00000011 | 0.0001474 | 0.10  | 0.107   | 0.107   | 0.105   | 0.085 to 0.115   | 103   | 70 to 130 | 0.569 | 20    |
| AZ21193 | Barium, Total          | mg/L  | 0.0000211   | 0.0002    | 0.10  | 0.154   | 0.152   | 0.105   | 0.085 to 0.115   | 101   | 70 to 130 | 0.895 | 20    |
| AZ21193 | Beryllium, Total       | mg/L  | 0.0000204   | 0.00088   | 0.10  | 0.0978  | 0.101   | 0.0999  | 0.085 to 0.115   | 97.8  | 70 to 130 | 2.77  | 20    |
| AZ21193 | Cadmium, Total         | mg/L  | 0.00000000  | 0.0001474 | 0.10  | 0.103   | 0.102   | 0.106   | 0.085 to 0.115   | 103   | 70 to 130 | 0.942 | 20    |
| AZ21193 | Cobalt, Total          | mg/L  | 0.00000033  | 0.0001474 | 0.10  | 0.102   | 0.101   | 0.107   | 0.085 to 0.115   | 102   | 70 to 130 | 1.04  | 20    |
| AZ21193 | Chromium, Total        | mg/L  | -0.00000666 | 0.00044   | 0.10  | 0.0993  | 0.0988  | 0.102   | 0.085 to 0.115   | 99.3  | 70 to 130 | 0.565 | 20    |
| AZ21193 | Mercury, Total by CVAA | mg/L  | 0.0000273   | 0.0005    | 0.004 | 0.00396 | 0.00368 | 0.00411 | 0.0034 to 0.0046 | 99.1  | 70 to 130 | 7.45  | 20    |
| AZ21193 | Molybdenum, Total      | mg/L  | 0.0000140   | 0.0001474 | 0.10  | 0.121   | 0.123   | 0.0999  | 0.085 to 0.115   | 96.3  | 70 to 130 | 1.79  | 20    |
| AZ21193 | Lead, Total            | mg/L  | 0.00000405  | 0.0001474 | 0.10  | 0.102   | 0.105   | 0.107   | 0.085 to 0.115   | 102   | 70 to 130 | 2.97  | 20    |
| AZ21193 | Antimony, Total        | mg/L  | 0.000189    | 0.00066   | 0.10  | 0.103   | 0.103   | 0.101   | 0.085 to 0.115   | 103   | 70 to 130 | 0.471 | 20    |
| AZ21193 | Selenium, Total        | mg/L  | 0.0000923   | 0.00066   | 0.10  | 0.106   | 0.107   | 0.108   | 0.085 to 0.115   | 106   | 70 to 130 | 1.15  | 20    |
| AZ21193 | Thallium, Total        | mg/L  | 0.00000141  | 0.0001474 | 0.10  | 0.110   | 0.113   | 0.113   | 0.085 to 0.115   | 109   | 70 to 130 | 3.23  | 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:** Recovery for Calcium is out of spec. Spike amount is less than 30% of the sample amount. LBM 10/22/2019

## Batch QC Summary

**Customer Account:** WMWGASAP

**Sample Date:** 9/18/19 09:45

**Customer ID:**

**Delivery Date:** 9/19/19 09:56

**Description:** Gaston Ash Pond - MW-17SV

**Laboratory ID Number:** AZ21192

| Sample  | Analysis          | Units | MB      | MB    |       | MS   | MSD   | LCS  | LCS          |     | Rec       |       | Prec | Limit |
|---------|-------------------|-------|---------|-------|-------|------|-------|------|--------------|-----|-----------|-------|------|-------|
|         |                   |       |         | Limit | Spike |      |       |      | Limit        | Rec | Limit     | Prec  |      |       |
| AZ21192 | Chloride          | mg/L  | -0.0436 | 0.50  | 40.0  | 70.3 | 29.8  | 9.93 | 9 to 11      | 102 | 80 to 120 | 0.673 | 20   |       |
| AZ21192 | Fluoride          | mg/L  | 0.0245  | 0.05  | 2.50  | 2.62 | 0.119 | 2.62 | 2.25 to 2.75 | 100 | 80 to 120 | 0.837 | 20   |       |
| AZ21192 | Sulfate           | mg/L  | -0.399  | 0.50  | 200   | 470  | 255   | 19.2 | 18 to 22     | 105 | 80 to 120 | 1.94  | 20   |       |
| AZ21192 | Solids, Dissolved | mg/L  | 2.00    | 25    | 50.0  |      | 497   | 52.0 | 40 to 60     | 104 | 80 to 120 | 0.201 | 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 10/22/2019

# Certificate Of Analysis

**Description:** Gaston Ash Pond - MW-18

**Location Code:** WMWGASAP  
**Collected:** 9/18/19 10:48  
**Customer ID:**  
**Submittal Date:** 9/19/19 09:56

**Laboratory ID Number:** AZ21193

| Name                                     | Prepared      | Analyzed            | Vio Spec | DF                                  | Results      | Units | MDL    | RL     | Q |
|------------------------------------------|---------------|---------------------|----------|-------------------------------------|--------------|-------|--------|--------|---|
| <b>Analytical Method: EPA 200.7</b>      |               | <b>Analyst: RDA</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |   |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 11:16       |          | 1.015                               | 1.47         | mg/L  | 0.03   | 0.1    |   |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 13:15       |          | 10.15                               | 126          | mg/L  | 1.015  | 5.075  |   |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 11:16       |          | 1.015                               | 0.0492       | mg/L  | 0.01   | 0.02   |   |
| <b>Analytical Method: EPA 200.8</b>      |               | <b>Analyst: DLJ</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |   |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 12:12       |          | 1.015                               | Not Detected | mg/L  | 0.0008 | 0.003  | U |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 12:12       |          | 1.015                               | 0.00308      | mg/L  | 0.001  | 0.005  | J |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 12:12       |          | 1.015                               | 0.0524       | mg/L  | 0.002  | 0.01   |   |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 12:12       |          | 1.015                               | Not Detected | mg/L  | 0.0006 | 0.003  | U |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 12:12       |          | 1.015                               | Not Detected | mg/L  | 0.0003 | 0.001  | U |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 12:12       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 12:12       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.005  | U |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 12:12       |          | 1.015                               | Not Detected | mg/L  | 0.001  | 0.005  | U |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 12:12       |          | 1.015                               | 0.0243       | mg/L  | 0.002  | 0.01   |   |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 12:12       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 12:12       |          | 1.015                               | 0.000479     | mg/L  | 0.0002 | 0.001  | J |
| <b>Analytical Method: EPA 245.1</b>      |               | <b>Analyst: GAS</b> |          |                                     |              |       |        |        |   |
| * Mercury, Total by CVAA                 | 9/25/19 08:09 | 9/25/19 13:30       |          | 1                                   | Not Detected | mg/L  | 0.0003 | 0.0005 | U |
| <b>Analytical Method: SM 2540C</b>       |               | <b>Analyst: TJW</b> |          |                                     |              |       |        |        |   |
| * Solids, Dissolved                      | 9/23/19 14:40 | 9/25/19 09:15       |          | 1                                   | 592          | mg/L  |        | 50     |   |
| <b>Analytical Method: SM4500Cl E</b>     |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Chloride                               | 9/24/19 10:35 | 9/24/19 10:35       |          | 1                                   | 12.2         | mg/L  | 0.50   | 1      |   |
| <b>Analytical Method: SM4500F G 2017</b> |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Fluoride                               | 9/25/19 10:48 | 9/25/19 10:48       |          | 1                                   | 0.0551       | mg/L  | 0.05   | 0.1    | J |
| <b>Analytical Method: SM4500SO4 E</b>    |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Sulfate                                | 9/26/19 11:20 | 9/26/19 11:20       |          | 10                                  | 173          | mg/L  | 5.00   | 10     |   |

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

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/18/19 10:48  
**Customer ID:**  
**Delivery Date:** 9/19/19 09:56

**Description:** Gaston Ash Pond - MW-18

**Laboratory ID Number:** AZ21193

| Sample  | Analysis               | Units | MB          |           |       |         | LCS     |         |                  | Rec  |           | Prec  | Limit |
|---------|------------------------|-------|-------------|-----------|-------|---------|---------|---------|------------------|------|-----------|-------|-------|
|         |                        |       | MB          | Limit     | Spike | MS      | MSD     | LCS     | Limit            | Rec  | Limit     |       |       |
| AZ21193 | Arsenic, Total         | mg/L  | -0.00000011 | 0.0001474 | 0.10  | 0.107   | 0.107   | 0.105   | 0.085 to 0.115   | 103  | 70 to 130 | 0.569 | 20    |
| AZ21193 | Barium, Total          | mg/L  | 0.0000211   | 0.0002    | 0.10  | 0.154   | 0.152   | 0.105   | 0.085 to 0.115   | 101  | 70 to 130 | 0.895 | 20    |
| AZ21193 | Beryllium, Total       | mg/L  | 0.0000204   | 0.00088   | 0.10  | 0.0978  | 0.101   | 0.0999  | 0.085 to 0.115   | 97.8 | 70 to 130 | 2.77  | 20    |
| AZ21193 | Cadmium, Total         | mg/L  | 0.00000000  | 0.0001474 | 0.10  | 0.103   | 0.102   | 0.106   | 0.085 to 0.115   | 103  | 70 to 130 | 0.942 | 20    |
| AZ21193 | Cobalt, Total          | mg/L  | 0.00000033  | 0.0001474 | 0.10  | 0.102   | 0.101   | 0.107   | 0.085 to 0.115   | 102  | 70 to 130 | 1.04  | 20    |
| AZ21193 | Chromium, Total        | mg/L  | -0.00000666 | 0.00044   | 0.10  | 0.0993  | 0.0988  | 0.102   | 0.085 to 0.115   | 99.3 | 70 to 130 | 0.565 | 20    |
| AZ21193 | Mercury, Total by CVAA | mg/L  | 0.0000273   | 0.0005    | 0.004 | 0.00396 | 0.00368 | 0.00411 | 0.0034 to 0.0046 | 99.1 | 70 to 130 | 7.45  | 20    |
| AZ21193 | Molybdenum, Total      | mg/L  | 0.0000140   | 0.0001474 | 0.10  | 0.121   | 0.123   | 0.0999  | 0.085 to 0.115   | 96.3 | 70 to 130 | 1.79  | 20    |
| AZ21193 | Lead, Total            | mg/L  | 0.00000405  | 0.0001474 | 0.10  | 0.102   | 0.105   | 0.107   | 0.085 to 0.115   | 102  | 70 to 130 | 2.97  | 20    |
| AZ21193 | Antimony, Total        | mg/L  | 0.000189    | 0.00066   | 0.10  | 0.103   | 0.103   | 0.101   | 0.085 to 0.115   | 103  | 70 to 130 | 0.471 | 20    |
| AZ21193 | Selenium, Total        | mg/L  | 0.0000923   | 0.00066   | 0.10  | 0.106   | 0.107   | 0.108   | 0.085 to 0.115   | 106  | 70 to 130 | 1.15  | 20    |
| AZ21193 | Thallium, Total        | mg/L  | 0.00000141  | 0.0001474 | 0.10  | 0.110   | 0.113   | 0.113   | 0.085 to 0.115   | 109  | 70 to 130 | 3.23  | 20    |
| AZ21221 | Boron, Total           | mg/L  | -0.0000813  | 0.0650254 | 1.00  | 1.01    | 1.02    | 0.981   | 0.85 to 1.15     | 101  | 70 to 130 | 1.20  | 20    |
| AZ21221 | Calcium, Total         | mg/L  | -0.000654   | 0.1518    | 5.00  | 45.3    | 45.3    | 5.01    | 4.25 to 5.75     | 124  | 70 to 130 | 0.00  | 20    |
| AZ21221 | Lithium, Total         | mg/L  | -0.0000164  | 0.0154    | 0.20  | 0.207   | 0.210   | 0.196   | 0.17 to 0.23     | 104  | 70 to 130 | 1.32  | 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:** WMWGASAP  
**Sample Date:** 9/18/19 10:48  
**Customer ID:**  
**Delivery Date:** 9/19/19 09:56

**Description:** Gaston Ash Pond - MW-18

**Laboratory ID Number:** AZ21193

| Sample  | Analysis          | Units | MB       | MB    |       | MS   | MSD   | LCS  | LCS          |      | Rec       |       | Prec | Limit |
|---------|-------------------|-------|----------|-------|-------|------|-------|------|--------------|------|-----------|-------|------|-------|
|         |                   |       |          | Limit | Spike |      |       |      | Limit        | Rec  | Limit     | Prec  |      |       |
| AZ21195 | Solids, Dissolved | mg/L  | 0.0000   | 25    | 50.0  |      | 682   | 50.0 | 40 to 60     | 100  | 80 to 120 | 0.147 | 5    |       |
| AZ21201 | Chloride          | mg/L  | -0.00289 | 0.50  | 100   | 161  | 57.5  | 9.96 | 9 to 11      | 104  | 80 to 120 | 1.40  | 20   |       |
| AZ21201 | Fluoride          | mg/L  | 0.0274   | 0.05  | 2.50  | 2.55 | 0.059 | 2.62 | 2.25 to 2.75 | 99.5 | 80 to 120 | 4.64  | 20   |       |
| AZ21201 | Sulfate           | mg/L  | -0.498   | 0.50  | 200   | 308  | 121   | 19.1 | 18 to 22     | 94.0 | 80 to 120 | 0.830 | 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:** Gaston Ash Pond - MW-20

**Location Code:** WMWGASAP  
**Collected:** 9/18/19 11:47  
**Customer ID:**  
**Submittal Date:** 9/19/19 09:56

**Laboratory ID Number:** AZ21194

| Name                                     | Prepared      | Analyzed            | Vio Spec | DF                                  | Results      | Units | MDL    | RL     | Q |
|------------------------------------------|---------------|---------------------|----------|-------------------------------------|--------------|-------|--------|--------|---|
| <b>Analytical Method: EPA 200.7</b>      |               | <b>Analyst: RDA</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |   |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 11:19       |          | 1.015                               | 4.12         | mg/L  | 0.03   | 0.1    |   |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 13:18       |          | 10.15                               | 172          | mg/L  | 1.015  | 5.075  |   |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 11:19       |          | 1.015                               | 0.131        | mg/L  | 0.01   | 0.02   |   |
| <b>Analytical Method: EPA 200.8</b>      |               | <b>Analyst: DLJ</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |   |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 12:34       |          | 1.015                               | Not Detected | mg/L  | 0.0008 | 0.003  | U |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 12:34       |          | 1.015                               | 0.00425      | mg/L  | 0.001  | 0.005  | J |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 12:34       |          | 1.015                               | 0.0651       | mg/L  | 0.002  | 0.01   |   |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 12:34       |          | 1.015                               | Not Detected | mg/L  | 0.0006 | 0.003  | U |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 12:34       |          | 1.015                               | Not Detected | mg/L  | 0.0003 | 0.001  | U |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 12:34       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 12:34       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.005  | U |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 12:34       |          | 1.015                               | Not Detected | mg/L  | 0.001  | 0.005  | U |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 12:34       |          | 1.015                               | 0.837        | mg/L  | 0.002  | 0.01   |   |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 12:34       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 12:34       |          | 1.015                               | Not Detected | mg/L  | 0.0002 | 0.001  | U |
| <b>Analytical Method: EPA 245.1</b>      |               | <b>Analyst: GAS</b> |          |                                     |              |       |        |        |   |
| * Mercury, Total by CVAA                 | 9/25/19 08:09 | 9/25/19 13:46       |          | 1                                   | Not Detected | mg/L  | 0.0003 | 0.0005 | U |
| <b>Analytical Method: SM 2540C</b>       |               | <b>Analyst: TJW</b> |          |                                     |              |       |        |        |   |
| * Solids, Dissolved                      | 9/23/19 14:40 | 9/25/19 09:15       |          | 1                                   | 908          | mg/L  |        | 50     |   |
| <b>Analytical Method: SM4500CI E</b>     |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Chloride                               | 9/24/19 10:37 | 9/24/19 10:37       |          | 1                                   | 18.7         | mg/L  | 0.50   | 1      |   |
| <b>Analytical Method: SM4500F G 2017</b> |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Fluoride                               | 9/25/19 10:49 | 9/25/19 10:49       |          | 1                                   | Not Detected | mg/L  | 0.05   | 0.1    | U |
| <b>Analytical Method: SM4500SO4 E</b>    |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Sulfate                                | 9/26/19 11:30 | 9/26/19 11:30       |          | 40                                  | 526          | mg/L  | 20.00  | 40     |   |

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

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/18/19 11:47  
**Customer ID:**  
**Delivery Date:** 9/19/19 09:56

**Description:** Gaston Ash Pond - MW-20

**Laboratory ID Number:** AZ21194

| Sample  | Analysis               | Units | MB         |           | MS    | MSD     | LCS     | LCS     |                  | Rec   |           | Prec   | Limit |
|---------|------------------------|-------|------------|-----------|-------|---------|---------|---------|------------------|-------|-----------|--------|-------|
|         |                        |       | MB         | Limit     |       |         |         | Limit   | Rec              | Limit | Prec      |        |       |
| AZ21221 | Boron, Total           | mg/L  | -0.0000813 | 0.0650254 | 1.00  | 1.01    | 1.02    | 0.981   | 0.85 to 1.15     | 101   | 70 to 130 | 1.20   | 20    |
| AZ21221 | Calcium, Total         | mg/L  | -0.000654  | 0.1518    | 5.00  | 45.3    | 45.3    | 5.01    | 4.25 to 5.75     | 124   | 70 to 130 | 0.00   | 20    |
| AZ21221 | Lithium, Total         | mg/L  | -0.0000164 | 0.0154    | 0.20  | 0.207   | 0.210   | 0.196   | 0.17 to 0.23     | 104   | 70 to 130 | 1.32   | 20    |
| AZ21222 | Arsenic, Total         | mg/L  | 0.00000551 | 0.0001474 | 0.10  | 0.102   | 0.105   | 0.107   | 0.085 to 0.115   | 102   | 70 to 130 | 2.21   | 20    |
| AZ21222 | Barium, Total          | mg/L  | 0.0000103  | 0.0002    | 0.10  | 0.119   | 0.116   | 0.106   | 0.085 to 0.115   | 105   | 70 to 130 | 2.20   | 20    |
| AZ21222 | Beryllium, Total       | mg/L  | 0.0000121  | 0.00088   | 0.10  | 0.101   | 0.100   | 0.0998  | 0.085 to 0.115   | 101   | 70 to 130 | 0.962  | 20    |
| AZ21222 | Cadmium, Total         | mg/L  | 0.00000000 | 0.0001474 | 0.10  | 0.106   | 0.106   | 0.107   | 0.085 to 0.115   | 106   | 70 to 130 | 0.0410 | 20    |
| AZ21222 | Cobalt, Total          | mg/L  | 0.00000184 | 0.0001474 | 0.10  | 0.105   | 0.107   | 0.108   | 0.085 to 0.115   | 105   | 70 to 130 | 2.07   | 20    |
| AZ21222 | Chromium, Total        | mg/L  | 0.0000142  | 0.00044   | 0.10  | 0.102   | 0.104   | 0.104   | 0.085 to 0.115   | 102   | 70 to 130 | 2.00   | 20    |
| AZ21222 | Mercury, Total by CVAA | mg/L  | 0.0000260  | 0.0005    | 0.004 | 0.00423 | 0.00415 | 0.00398 | 0.0034 to 0.0046 | 106   | 70 to 130 | 1.89   | 20    |
| AZ21222 | Molybdenum, Total      | mg/L  | 0.0000162  | 0.0001474 | 0.10  | 0.0998  | 0.101   | 0.103   | 0.085 to 0.115   | 99.8  | 70 to 130 | 1.20   | 20    |
| AZ21222 | Lead, Total            | mg/L  | 0.00000492 | 0.0001474 | 0.10  | 0.111   | 0.107   | 0.106   | 0.085 to 0.115   | 111   | 70 to 130 | 4.05   | 20    |
| AZ21222 | Antimony, Total        | mg/L  | 0.000217   | 0.00066   | 0.10  | 0.100   | 0.101   | 0.103   | 0.085 to 0.115   | 100   | 70 to 130 | 0.433  | 20    |
| AZ21222 | Selenium, Total        | mg/L  | 0.0000469  | 0.00066   | 0.10  | 0.108   | 0.108   | 0.109   | 0.085 to 0.115   | 108   | 70 to 130 | 0.244  | 20    |
| AZ21222 | Thallium, Total        | mg/L  | 0.00000043 | 0.0001474 | 0.10  | 0.117   | 0.112   | 0.112   | 0.085 to 0.115   | 117   | 70 to 130 | 4.42   | 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:** WMWGASAP

**Sample Date:** 9/18/19 11:47

**Customer ID:**

**Delivery Date:** 9/19/19 09:56

**Description:** Gaston Ash Pond - MW-20

**Laboratory ID Number:** AZ21194

| Sample  | Analysis          | Units | MB       | MB    |       | MS   | MSD   | LCS  | LCS          |      | Rec       |       | Prec |
|---------|-------------------|-------|----------|-------|-------|------|-------|------|--------------|------|-----------|-------|------|
|         |                   |       |          | Limit | Spike |      |       |      | Limit        | Rec  | Limit     | Prec  |      |
| AZ21195 | Solids, Dissolved | mg/L  | 0.0000   | 25    | 50.0  |      | 682   | 50.0 | 40 to 60     | 100  | 80 to 120 | 0.147 | 5    |
| AZ21201 | Chloride          | mg/L  | -0.00289 | 0.50  | 100   | 161  | 57.5  | 9.96 | 9 to 11      | 104  | 80 to 120 | 1.40  | 20   |
| AZ21201 | Fluoride          | mg/L  | 0.0274   | 0.05  | 2.50  | 2.55 | 0.059 | 2.62 | 2.25 to 2.75 | 99.5 | 80 to 120 | 4.64  | 20   |
| AZ21201 | Sulfate           | mg/L  | -0.498   | 0.50  | 200   | 308  | 121   | 19.1 | 18 to 22     | 94.0 | 80 to 120 | 0.830 | 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:** Gaston Ash Pond - MW-20SV

**Location Code:** WMWGASAP  
**Collected:** 9/18/19 12:46  
**Customer ID:**  
**Submittal Date:** 9/19/19 09:56

**Laboratory ID Number:** AZ21195

| Name                                     | Prepared      | Analyzed            | Vio Spec | DF    | Results                             | Units | MDL    | RL     | Q |
|------------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|--------|--------|---|
| <b>Analytical Method: EPA 200.7</b>      |               | <b>Analyst: RDA</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 11:22       |          | 1.015 | 2.28                                | mg/L  | 0.03   | 0.1    |   |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 13:21       |          | 10.15 | 128                                 | mg/L  | 1.015  | 5.075  |   |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 11:22       |          | 1.015 | 0.0108                              | mg/L  | 0.01   | 0.02   | J |
| <b>Analytical Method: EPA 200.8</b>      |               | <b>Analyst: DLJ</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 12:36       |          | 1.015 | Not Detected                        | mg/L  | 0.0008 | 0.003  | U |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 12:36       |          | 1.015 | 0.00253                             | mg/L  | 0.001  | 0.005  | J |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 12:36       |          | 1.015 | 0.0982                              | mg/L  | 0.002  | 0.01   |   |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 12:36       |          | 1.015 | Not Detected                        | mg/L  | 0.0006 | 0.003  | U |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 12:36       |          | 1.015 | Not Detected                        | mg/L  | 0.0003 | 0.001  | U |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 12:36       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 12:36       |          | 1.015 | 0.00207                             | mg/L  | 0.002  | 0.005  | J |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 12:36       |          | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 12:36       |          | 1.015 | 0.264                               | mg/L  | 0.002  | 0.01   |   |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 12:36       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 12:36       |          | 1.015 | Not Detected                        | mg/L  | 0.0002 | 0.001  | U |
| <b>Analytical Method: EPA 245.1</b>      |               | <b>Analyst: GAS</b> |          |       |                                     |       |        |        |   |
| * Mercury, Total by CVAA                 | 9/25/19 08:09 | 9/25/19 13:49       |          | 1     | Not Detected                        | mg/L  | 0.0003 | 0.0005 | U |
| <b>Analytical Method: SM 2540C</b>       |               | <b>Analyst: TJW</b> |          |       |                                     |       |        |        |   |
| * Solids, Dissolved                      | 9/23/19 14:40 | 9/25/19 09:15       |          | 1     | 680                                 | mg/L  |        | 50     |   |
| <b>Analytical Method: SM4500Cl E</b>     |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |   |
| * Chloride                               | 9/24/19 10:38 | 9/24/19 10:38       |          | 1     | 14.7                                | mg/L  | 0.50   | 1      |   |
| <b>Analytical Method: SM4500F G 2017</b> |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |   |
| * Fluoride                               | 9/25/19 10:50 | 9/25/19 10:50       |          | 1     | 0.0879                              | mg/L  | 0.05   | 0.1    | J |
| <b>Analytical Method: SM4500SO4 E</b>    |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |   |
| * Sulfate                                | 9/26/19 11:22 | 9/26/19 11:22       |          | 10    | 379                                 | mg/L  | 5.00   | 10     |   |

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

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/18/19 12:46  
**Customer ID:**  
**Delivery Date:** 9/19/19 09:56

**Description:** Gaston Ash Pond - MW-20SV

**Laboratory ID Number:** AZ21195

| Sample  | Analysis               | Units | MB         |           | Spike | MS      | MSD     | LCS     | LCS              | Rec  |           | Prec   | Limit |
|---------|------------------------|-------|------------|-----------|-------|---------|---------|---------|------------------|------|-----------|--------|-------|
|         |                        |       | MB         | Limit     |       |         |         |         | Limit            | Rec  | Limit     |        |       |
| AZ21221 | Boron, Total           | mg/L  | -0.0000813 | 0.0650254 | 1.00  | 1.01    | 1.02    | 0.981   | 0.85 to 1.15     | 101  | 70 to 130 | 1.20   | 20    |
| AZ21221 | Calcium, Total         | mg/L  | -0.000654  | 0.1518    | 5.00  | 45.3    | 45.3    | 5.01    | 4.25 to 5.75     | 124  | 70 to 130 | 0.00   | 20    |
| AZ21221 | Lithium, Total         | mg/L  | -0.0000164 | 0.0154    | 0.20  | 0.207   | 0.210   | 0.196   | 0.17 to 0.23     | 104  | 70 to 130 | 1.32   | 20    |
| AZ21222 | Arsenic, Total         | mg/L  | 0.00000551 | 0.0001474 | 0.10  | 0.102   | 0.105   | 0.107   | 0.085 to 0.115   | 102  | 70 to 130 | 2.21   | 20    |
| AZ21222 | Barium, Total          | mg/L  | 0.0000103  | 0.0002    | 0.10  | 0.119   | 0.116   | 0.106   | 0.085 to 0.115   | 105  | 70 to 130 | 2.20   | 20    |
| AZ21222 | Beryllium, Total       | mg/L  | 0.0000121  | 0.00088   | 0.10  | 0.101   | 0.100   | 0.0998  | 0.085 to 0.115   | 101  | 70 to 130 | 0.962  | 20    |
| AZ21222 | Cadmium, Total         | mg/L  | 0.00000000 | 0.0001474 | 0.10  | 0.106   | 0.106   | 0.107   | 0.085 to 0.115   | 106  | 70 to 130 | 0.0410 | 20    |
| AZ21222 | Cobalt, Total          | mg/L  | 0.00000184 | 0.0001474 | 0.10  | 0.105   | 0.107   | 0.108   | 0.085 to 0.115   | 105  | 70 to 130 | 2.07   | 20    |
| AZ21222 | Chromium, Total        | mg/L  | 0.0000142  | 0.00044   | 0.10  | 0.102   | 0.104   | 0.104   | 0.085 to 0.115   | 102  | 70 to 130 | 2.00   | 20    |
| AZ21222 | Mercury, Total by CVAA | mg/L  | 0.0000260  | 0.0005    | 0.004 | 0.00423 | 0.00415 | 0.00398 | 0.0034 to 0.0046 | 106  | 70 to 130 | 1.89   | 20    |
| AZ21222 | Molybdenum, Total      | mg/L  | 0.0000162  | 0.0001474 | 0.10  | 0.0998  | 0.101   | 0.103   | 0.085 to 0.115   | 99.8 | 70 to 130 | 1.20   | 20    |
| AZ21222 | Lead, Total            | mg/L  | 0.00000492 | 0.0001474 | 0.10  | 0.111   | 0.107   | 0.106   | 0.085 to 0.115   | 111  | 70 to 130 | 4.05   | 20    |
| AZ21222 | Antimony, Total        | mg/L  | 0.000217   | 0.00066   | 0.10  | 0.100   | 0.101   | 0.103   | 0.085 to 0.115   | 100  | 70 to 130 | 0.433  | 20    |
| AZ21222 | Selenium, Total        | mg/L  | 0.0000469  | 0.00066   | 0.10  | 0.108   | 0.108   | 0.109   | 0.085 to 0.115   | 108  | 70 to 130 | 0.244  | 20    |
| AZ21222 | Thallium, Total        | mg/L  | 0.00000043 | 0.0001474 | 0.10  | 0.117   | 0.112   | 0.112   | 0.085 to 0.115   | 117  | 70 to 130 | 4.42   | 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:** WMWGASAP

**Sample Date:** 9/18/19 12:46

**Customer ID:**

**Delivery Date:** 9/19/19 09:56

**Description:** Gaston Ash Pond - MW-20SV

**Laboratory ID Number:** AZ21195

| Sample  | Analysis          | Units | MB       | MB    |       | MS   | MSD   | LCS  | LCS          |      | Rec       |       | Prec |
|---------|-------------------|-------|----------|-------|-------|------|-------|------|--------------|------|-----------|-------|------|
|         |                   |       |          | Limit | Spike |      |       |      | Limit        | Rec  | Limit     | Prec  |      |
| AZ21195 | Solids, Dissolved | mg/L  | 0.0000   | 25    | 50.0  |      | 682   | 50.0 | 40 to 60     | 100  | 80 to 120 | 0.147 | 5    |
| AZ21201 | Chloride          | mg/L  | -0.00289 | 0.50  | 100   | 161  | 57.5  | 9.96 | 9 to 11      | 104  | 80 to 120 | 1.40  | 20   |
| AZ21201 | Fluoride          | mg/L  | 0.0274   | 0.05  | 2.50  | 2.55 | 0.059 | 2.62 | 2.25 to 2.75 | 99.5 | 80 to 120 | 4.64  | 20   |
| AZ21201 | Sulfate           | mg/L  | -0.498   | 0.50  | 200   | 308  | 121   | 19.1 | 18 to 22     | 94.0 | 80 to 120 | 0.830 | 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:** Gaston Ash Pond - MW-20V

**Location Code:** WMWGASAP  
**Collected:** 9/18/19 14:19  
**Customer ID:**  
**Submittal Date:** 9/19/19 09:56

**Laboratory ID Number:** AZ21196

| Name                                     | Prepared      | Analyzed            | Vio Spec | DF                                  | Results      | Units | MDL    | RL     | Q |
|------------------------------------------|---------------|---------------------|----------|-------------------------------------|--------------|-------|--------|--------|---|
| <b>Analytical Method: EPA 200.7</b>      |               | <b>Analyst: RDA</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |   |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 11:25       |          | 1.015                               | 2.91         | mg/L  | 0.03   | 0.1    |   |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 13:24       |          | 10.15                               | 124          | mg/L  | 1.015  | 5.075  |   |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 11:25       |          | 1.015                               | 0.0399       | mg/L  | 0.01   | 0.02   |   |
| <b>Analytical Method: EPA 200.8</b>      |               | <b>Analyst: DLJ</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |   |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 12:39       |          | 1.015                               | Not Detected | mg/L  | 0.0008 | 0.003  | U |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 12:39       |          | 1.015                               | Not Detected | mg/L  | 0.001  | 0.005  | U |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 12:39       |          | 1.015                               | 0.0241       | mg/L  | 0.002  | 0.01   |   |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 12:39       |          | 1.015                               | Not Detected | mg/L  | 0.0006 | 0.003  | U |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 12:39       |          | 1.015                               | Not Detected | mg/L  | 0.0003 | 0.001  | U |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 12:39       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 12:39       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.005  | U |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 12:39       |          | 1.015                               | Not Detected | mg/L  | 0.001  | 0.005  | U |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 12:39       |          | 1.015                               | 0.271        | mg/L  | 0.002  | 0.01   |   |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 12:39       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 12:39       |          | 1.015                               | Not Detected | mg/L  | 0.0002 | 0.001  | U |
| <b>Analytical Method: EPA 245.1</b>      |               | <b>Analyst: GAS</b> |          |                                     |              |       |        |        |   |
| * Mercury, Total by CVAA                 | 9/25/19 08:09 | 9/25/19 13:51       |          | 1                                   | Not Detected | mg/L  | 0.0003 | 0.0005 | U |
| <b>Analytical Method: SM 2540C</b>       |               | <b>Analyst: TJW</b> |          |                                     |              |       |        |        |   |
| * Solids, Dissolved                      | 9/24/19 12:40 | 9/25/19 15:25       |          | 1                                   | 784          | mg/L  |        | 50     |   |
| <b>Analytical Method: SM4500Cl E</b>     |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Chloride                               | 9/24/19 10:39 | 9/24/19 10:39       |          | 1                                   | 15.9         | mg/L  | 0.50   | 1      |   |
| <b>Analytical Method: SM4500F G 2017</b> |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Fluoride                               | 9/25/19 10:51 | 9/25/19 10:51       |          | 1                                   | 0.0523       | mg/L  | 0.05   | 0.1    | J |
| <b>Analytical Method: SM4500SO4 E</b>    |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Sulfate                                | 9/26/19 11:31 | 9/26/19 11:31       |          | 25                                  | 481          | mg/L  | 12.50  | 25     |   |

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

**Comments:**



# Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/18/19 14:19  
**Customer ID:**  
**Delivery Date:** 9/19/19 09:56

**Description:** Gaston Ash Pond - MW-20V

**Laboratory ID Number:** AZ21196

| Sample  | Analysis               | Units | MB         |           | MS    | MSD     | LCS     | LCS     |                  | Rec   |           | Prec   | Limit |
|---------|------------------------|-------|------------|-----------|-------|---------|---------|---------|------------------|-------|-----------|--------|-------|
|         |                        |       | MB         | Limit     |       |         |         | Limit   | Rec              | Limit | Prec      |        |       |
| AZ21221 | Boron, Total           | mg/L  | -0.0000813 | 0.0650254 | 1.00  | 1.01    | 1.02    | 0.981   | 0.85 to 1.15     | 101   | 70 to 130 | 1.20   | 20    |
| AZ21221 | Calcium, Total         | mg/L  | -0.000654  | 0.1518    | 5.00  | 45.3    | 45.3    | 5.01    | 4.25 to 5.75     | 124   | 70 to 130 | 0.00   | 20    |
| AZ21221 | Lithium, Total         | mg/L  | -0.0000164 | 0.0154    | 0.20  | 0.207   | 0.210   | 0.196   | 0.17 to 0.23     | 104   | 70 to 130 | 1.32   | 20    |
| AZ21222 | Arsenic, Total         | mg/L  | 0.00000551 | 0.0001474 | 0.10  | 0.102   | 0.105   | 0.107   | 0.085 to 0.115   | 102   | 70 to 130 | 2.21   | 20    |
| AZ21222 | Barium, Total          | mg/L  | 0.0000103  | 0.0002    | 0.10  | 0.119   | 0.116   | 0.106   | 0.085 to 0.115   | 105   | 70 to 130 | 2.20   | 20    |
| AZ21222 | Beryllium, Total       | mg/L  | 0.0000121  | 0.00088   | 0.10  | 0.101   | 0.100   | 0.0998  | 0.085 to 0.115   | 101   | 70 to 130 | 0.962  | 20    |
| AZ21222 | Cadmium, Total         | mg/L  | 0.00000000 | 0.0001474 | 0.10  | 0.106   | 0.106   | 0.107   | 0.085 to 0.115   | 106   | 70 to 130 | 0.0410 | 20    |
| AZ21222 | Cobalt, Total          | mg/L  | 0.00000184 | 0.0001474 | 0.10  | 0.105   | 0.107   | 0.108   | 0.085 to 0.115   | 105   | 70 to 130 | 2.07   | 20    |
| AZ21222 | Chromium, Total        | mg/L  | 0.0000142  | 0.00044   | 0.10  | 0.102   | 0.104   | 0.104   | 0.085 to 0.115   | 102   | 70 to 130 | 2.00   | 20    |
| AZ21222 | Mercury, Total by CVAA | mg/L  | 0.0000260  | 0.0005    | 0.004 | 0.00423 | 0.00415 | 0.00398 | 0.0034 to 0.0046 | 106   | 70 to 130 | 1.89   | 20    |
| AZ21222 | Molybdenum, Total      | mg/L  | 0.0000162  | 0.0001474 | 0.10  | 0.0998  | 0.101   | 0.103   | 0.085 to 0.115   | 99.8  | 70 to 130 | 1.20   | 20    |
| AZ21222 | Lead, Total            | mg/L  | 0.00000492 | 0.0001474 | 0.10  | 0.111   | 0.107   | 0.106   | 0.085 to 0.115   | 111   | 70 to 130 | 4.05   | 20    |
| AZ21222 | Antimony, Total        | mg/L  | 0.000217   | 0.00066   | 0.10  | 0.100   | 0.101   | 0.103   | 0.085 to 0.115   | 100   | 70 to 130 | 0.433  | 20    |
| AZ21222 | Selenium, Total        | mg/L  | 0.0000469  | 0.00066   | 0.10  | 0.108   | 0.108   | 0.109   | 0.085 to 0.115   | 108   | 70 to 130 | 0.244  | 20    |
| AZ21222 | Thallium, Total        | mg/L  | 0.00000043 | 0.0001474 | 0.10  | 0.117   | 0.112   | 0.112   | 0.085 to 0.115   | 117   | 70 to 130 | 4.42   | 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:** WMWGASAP

**Sample Date:** 9/18/19 14:19

**Customer ID:**

**Delivery Date:** 9/19/19 09:56

**Description:** Gaston Ash Pond - MW-20V

**Laboratory ID Number:** AZ21196

| Sample  | Analysis          | Units | MB       | MB    |       | MS   | MSD   | LCS  | LCS          |      | Rec       |       | Prec  |
|---------|-------------------|-------|----------|-------|-------|------|-------|------|--------------|------|-----------|-------|-------|
|         |                   |       |          | Limit | Spike |      |       |      | Limit        | Rec  | Limit     | Prec  | Limit |
| AZ21199 | Solids, Dissolved | mg/L  | 0.0000   | 25    | 50.0  |      | 433   | 52.0 | 40 to 60     | 104  | 80 to 120 | 0.00  | 5     |
| AZ21201 | Chloride          | mg/L  | -0.00289 | 0.50  | 100   | 161  | 57.5  | 9.96 | 9 to 11      | 104  | 80 to 120 | 1.40  | 20    |
| AZ21201 | Fluoride          | mg/L  | 0.0274   | 0.05  | 2.50  | 2.55 | 0.059 | 2.62 | 2.25 to 2.75 | 99.5 | 80 to 120 | 4.64  | 20    |
| AZ21201 | Sulfate           | mg/L  | -0.498   | 0.50  | 200   | 308  | 121   | 19.1 | 18 to 22     | 94.0 | 80 to 120 | 0.830 | 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:** Gaston Ash Pond Field Blank

**Location Code:** WMWGASAPFB  
**Collected:** 9/18/19 15:35  
**Customer ID:**  
**Submittal Date:** 9/19/19 09:56

**Laboratory ID Number:** AZ21197

| Name                                     | Prepared      | Analyzed      | Vio Spec            | DF    | Results                             | Units | MDL    | RL     | Q |
|------------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-------|--------|--------|---|
| <b>Analytical Method: EPA 200.7</b>      |               |               | <b>Analyst: RDA</b> |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 11:28 |                     | 1.015 | Not Detected                        | mg/L  | 0.03   | 0.1    | U |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 11:28 |                     | 1.015 | Not Detected                        | mg/L  | 0.1    | 0.5    | U |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 11:28 |                     | 1.015 | Not Detected                        | mg/L  | 0.01   | 0.02   | U |
| <b>Analytical Method: EPA 200.8</b>      |               |               | <b>Analyst: DLJ</b> |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 12:42 |                     | 1.015 | Not Detected                        | mg/L  | 0.0008 | 0.003  | U |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 12:42 |                     | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 12:42 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 12:42 |                     | 1.015 | Not Detected                        | mg/L  | 0.0006 | 0.003  | U |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 12:42 |                     | 1.015 | Not Detected                        | mg/L  | 0.0003 | 0.001  | U |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 12:42 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 12:42 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.005  | U |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 12:42 |                     | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 12:42 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 12:42 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 12:42 |                     | 1.015 | Not Detected                        | mg/L  | 0.0002 | 0.001  | U |
| <b>Analytical Method: EPA 245.1</b>      |               |               | <b>Analyst: GAS</b> |       |                                     |       |        |        |   |
| * Mercury, Total by CVAA                 | 9/25/19 08:09 | 9/25/19 13:53 |                     | 1     | Not Detected                        | mg/L  | 0.0003 | 0.0005 | U |
| <b>Analytical Method: SM 2540C</b>       |               |               | <b>Analyst: TJW</b> |       |                                     |       |        |        |   |
| * Solids, Dissolved                      | 9/24/19 12:40 | 9/25/19 15:25 |                     | 1     | Not Detected                        | mg/L  |        | 25     | U |
| <b>Analytical Method: SM4500CI E</b>     |               |               | <b>Analyst: JCC</b> |       |                                     |       |        |        |   |
| * Chloride                               | 9/24/19 10:40 | 9/24/19 10:40 |                     | 1     | Not Detected                        | mg/L  | 0.50   | 1      | U |
| <b>Analytical Method: SM4500F G 2017</b> |               |               | <b>Analyst: JCC</b> |       |                                     |       |        |        |   |
| * Fluoride                               | 9/25/19 10:52 | 9/25/19 10:52 |                     | 1     | Not Detected                        | mg/L  | 0.05   | 0.1    | U |
| <b>Analytical Method: SM4500SO4 E</b>    |               |               | <b>Analyst: JCC</b> |       |                                     |       |        |        |   |
| * Sulfate                                | 9/26/19 11:25 | 9/26/19 11:25 |                     | 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:** WMWGASAPFB  
**Sample Date:** 9/18/19 15:35  
**Customer ID:**  
**Delivery Date:** 9/19/19 09:56

**Description:** Gaston Ash Pond Field Blank

**Laboratory ID Number:** AZ21197

| Sample  | Analysis               | Units | MB         |           | Spike | MS      | MSD     | LCS     | LCS              | Rec  |           | Prec   | Limit |
|---------|------------------------|-------|------------|-----------|-------|---------|---------|---------|------------------|------|-----------|--------|-------|
|         |                        |       | MB         | Limit     |       |         |         |         | Limit            | Rec  | Limit     |        |       |
| AZ21221 | Boron, Total           | mg/L  | -0.0000813 | 0.0650254 | 1.00  | 1.01    | 1.02    | 0.981   | 0.85 to 1.15     | 101  | 70 to 130 | 1.20   | 20    |
| AZ21221 | Calcium, Total         | mg/L  | -0.000654  | 0.1518    | 5.00  | 45.3    | 45.3    | 5.01    | 4.25 to 5.75     | 124  | 70 to 130 | 0.00   | 20    |
| AZ21221 | Lithium, Total         | mg/L  | -0.0000164 | 0.0154    | 0.20  | 0.207   | 0.210   | 0.196   | 0.17 to 0.23     | 104  | 70 to 130 | 1.32   | 20    |
| AZ21222 | Arsenic, Total         | mg/L  | 0.00000551 | 0.0001474 | 0.10  | 0.102   | 0.105   | 0.107   | 0.085 to 0.115   | 102  | 70 to 130 | 2.21   | 20    |
| AZ21222 | Barium, Total          | mg/L  | 0.0000103  | 0.0002    | 0.10  | 0.119   | 0.116   | 0.106   | 0.085 to 0.115   | 105  | 70 to 130 | 2.20   | 20    |
| AZ21222 | Beryllium, Total       | mg/L  | 0.0000121  | 0.00088   | 0.10  | 0.101   | 0.100   | 0.0998  | 0.085 to 0.115   | 101  | 70 to 130 | 0.962  | 20    |
| AZ21222 | Cadmium, Total         | mg/L  | 0.00000000 | 0.0001474 | 0.10  | 0.106   | 0.106   | 0.107   | 0.085 to 0.115   | 106  | 70 to 130 | 0.0410 | 20    |
| AZ21222 | Cobalt, Total          | mg/L  | 0.00000184 | 0.0001474 | 0.10  | 0.105   | 0.107   | 0.108   | 0.085 to 0.115   | 105  | 70 to 130 | 2.07   | 20    |
| AZ21222 | Chromium, Total        | mg/L  | 0.0000142  | 0.00044   | 0.10  | 0.102   | 0.104   | 0.104   | 0.085 to 0.115   | 102  | 70 to 130 | 2.00   | 20    |
| AZ21222 | Mercury, Total by CVAA | mg/L  | 0.0000260  | 0.0005    | 0.004 | 0.00423 | 0.00415 | 0.00398 | 0.0034 to 0.0046 | 106  | 70 to 130 | 1.89   | 20    |
| AZ21222 | Molybdenum, Total      | mg/L  | 0.0000162  | 0.0001474 | 0.10  | 0.0998  | 0.101   | 0.103   | 0.085 to 0.115   | 99.8 | 70 to 130 | 1.20   | 20    |
| AZ21222 | Lead, Total            | mg/L  | 0.00000492 | 0.0001474 | 0.10  | 0.111   | 0.107   | 0.106   | 0.085 to 0.115   | 111  | 70 to 130 | 4.05   | 20    |
| AZ21222 | Antimony, Total        | mg/L  | 0.000217   | 0.00066   | 0.10  | 0.100   | 0.101   | 0.103   | 0.085 to 0.115   | 100  | 70 to 130 | 0.433  | 20    |
| AZ21222 | Selenium, Total        | mg/L  | 0.0000469  | 0.00066   | 0.10  | 0.108   | 0.108   | 0.109   | 0.085 to 0.115   | 108  | 70 to 130 | 0.244  | 20    |
| AZ21222 | Thallium, Total        | mg/L  | 0.00000043 | 0.0001474 | 0.10  | 0.117   | 0.112   | 0.112   | 0.085 to 0.115   | 117  | 70 to 130 | 4.42   | 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:** WMWGASAPFB

**Sample Date:** 9/18/19 15:35

**Customer ID:**

**Delivery Date:** 9/19/19 09:56

**Description:** Gaston Ash Pond Field Blank

**Laboratory ID Number:** AZ21197

| Sample  | Analysis          | Units | MB       | MB    |       | MS   | MSD   | LCS  | LCS          |      | Rec       |       | Prec  |
|---------|-------------------|-------|----------|-------|-------|------|-------|------|--------------|------|-----------|-------|-------|
|         |                   |       |          | Limit | Spike |      |       |      | Limit        | Rec  | Limit     | Prec  | Limit |
| AZ21199 | Solids, Dissolved | mg/L  | 0.0000   | 25    | 50.0  |      | 433   | 52.0 | 40 to 60     | 104  | 80 to 120 | 0.00  | 5     |
| AZ21201 | Chloride          | mg/L  | -0.00289 | 0.50  | 100   | 161  | 57.5  | 9.96 | 9 to 11      | 104  | 80 to 120 | 1.40  | 20    |
| AZ21201 | Fluoride          | mg/L  | 0.0274   | 0.05  | 2.50  | 2.55 | 0.059 | 2.62 | 2.25 to 2.75 | 99.5 | 80 to 120 | 4.64  | 20    |
| AZ21201 | Sulfate           | mg/L  | -0.498   | 0.50  | 200   | 308  | 121   | 19.1 | 18 to 22     | 94.0 | 80 to 120 | 0.830 | 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:** Gaston Ash Pond - MW-26

**Location Code:** WMWGASAP  
**Collected:** 9/18/19 15:47  
**Customer ID:**  
**Submittal Date:** 9/19/19 09:56

**Laboratory ID Number:** AZ21198

| Name                                     | Prepared      | Analyzed            | Vio Spec | DF                                  | Results      | Units | MDL    | RL     | Q |
|------------------------------------------|---------------|---------------------|----------|-------------------------------------|--------------|-------|--------|--------|---|
| <b>Analytical Method: EPA 200.7</b>      |               | <b>Analyst: RDA</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |   |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 11:31       |          | 1.015                               | 1.33         | mg/L  | 0.03   | 0.1    |   |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 13:27       |          | 10.15                               | 81.8         | mg/L  | 1.015  | 5.075  |   |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 11:31       |          | 1.015                               | Not Detected | mg/L  | 0.01   | 0.02   | U |
| <b>Analytical Method: EPA 200.8</b>      |               | <b>Analyst: DLJ</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |   |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 12:44       |          | 1.015                               | Not Detected | mg/L  | 0.0008 | 0.003  | U |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 12:44       |          | 1.015                               | Not Detected | mg/L  | 0.001  | 0.005  | U |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 12:44       |          | 1.015                               | 0.0192       | mg/L  | 0.002  | 0.01   |   |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 12:44       |          | 1.015                               | Not Detected | mg/L  | 0.0006 | 0.003  | U |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 12:44       |          | 1.015                               | Not Detected | mg/L  | 0.0003 | 0.001  | U |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 12:44       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 12:44       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.005  | U |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 12:44       |          | 1.015                               | Not Detected | mg/L  | 0.001  | 0.005  | U |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 12:44       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 12:44       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 12:44       |          | 1.015                               | Not Detected | mg/L  | 0.0002 | 0.001  | U |
| <b>Analytical Method: EPA 245.1</b>      |               | <b>Analyst: GAS</b> |          |                                     |              |       |        |        |   |
| * Mercury, Total by CVAA                 | 9/25/19 08:09 | 9/25/19 13:56       |          | 1                                   | Not Detected | mg/L  | 0.0003 | 0.0005 | U |
| <b>Analytical Method: SM 2540C</b>       |               | <b>Analyst: TJW</b> |          |                                     |              |       |        |        |   |
| * Solids, Dissolved                      | 9/24/19 12:40 | 9/25/19 15:25       |          | 1                                   | 433          | mg/L  |        | 25     |   |
| <b>Analytical Method: SM4500CI E</b>     |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Chloride                               | 9/24/19 11:02 | 9/24/19 11:02       |          | 4                                   | 41.5         | mg/L  | 2.00   | 4      |   |
| <b>Analytical Method: SM4500F G 2017</b> |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Fluoride                               | 9/25/19 10:53 | 9/25/19 10:53       |          | 1                                   | Not Detected | mg/L  | 0.05   | 0.1    | U |
| <b>Analytical Method: SM4500SO4 E</b>    |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Sulfate                                | 9/26/19 11:26 | 9/26/19 11:26       |          | 10                                  | 142          | mg/L  | 5.00   | 10     |   |

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

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/18/19 15:47  
**Customer ID:**  
**Delivery Date:** 9/19/19 09:56

**Description:** Gaston Ash Pond - MW-26

**Laboratory ID Number:** AZ21198

| Sample  | Analysis               | Units | MB         |           | MS    | MSD     | LCS     | LCS     |                  | Rec   |           | Prec   | Limit |
|---------|------------------------|-------|------------|-----------|-------|---------|---------|---------|------------------|-------|-----------|--------|-------|
|         |                        |       | MB         | Limit     |       |         |         | Limit   | Rec              | Limit | Prec      |        |       |
| AZ21221 | Boron, Total           | mg/L  | -0.0000813 | 0.0650254 | 1.00  | 1.01    | 1.02    | 0.981   | 0.85 to 1.15     | 101   | 70 to 130 | 1.20   | 20    |
| AZ21221 | Calcium, Total         | mg/L  | -0.000654  | 0.1518    | 5.00  | 45.3    | 45.3    | 5.01    | 4.25 to 5.75     | 124   | 70 to 130 | 0.00   | 20    |
| AZ21221 | Lithium, Total         | mg/L  | -0.0000164 | 0.0154    | 0.20  | 0.207   | 0.210   | 0.196   | 0.17 to 0.23     | 104   | 70 to 130 | 1.32   | 20    |
| AZ21222 | Arsenic, Total         | mg/L  | 0.00000551 | 0.0001474 | 0.10  | 0.102   | 0.105   | 0.107   | 0.085 to 0.115   | 102   | 70 to 130 | 2.21   | 20    |
| AZ21222 | Barium, Total          | mg/L  | 0.0000103  | 0.0002    | 0.10  | 0.119   | 0.116   | 0.106   | 0.085 to 0.115   | 105   | 70 to 130 | 2.20   | 20    |
| AZ21222 | Beryllium, Total       | mg/L  | 0.0000121  | 0.00088   | 0.10  | 0.101   | 0.100   | 0.0998  | 0.085 to 0.115   | 101   | 70 to 130 | 0.962  | 20    |
| AZ21222 | Cadmium, Total         | mg/L  | 0.00000000 | 0.0001474 | 0.10  | 0.106   | 0.106   | 0.107   | 0.085 to 0.115   | 106   | 70 to 130 | 0.0410 | 20    |
| AZ21222 | Cobalt, Total          | mg/L  | 0.00000184 | 0.0001474 | 0.10  | 0.105   | 0.107   | 0.108   | 0.085 to 0.115   | 105   | 70 to 130 | 2.07   | 20    |
| AZ21222 | Chromium, Total        | mg/L  | 0.0000142  | 0.00044   | 0.10  | 0.102   | 0.104   | 0.104   | 0.085 to 0.115   | 102   | 70 to 130 | 2.00   | 20    |
| AZ21222 | Mercury, Total by CVAA | mg/L  | 0.0000260  | 0.0005    | 0.004 | 0.00423 | 0.00415 | 0.00398 | 0.0034 to 0.0046 | 106   | 70 to 130 | 1.89   | 20    |
| AZ21222 | Molybdenum, Total      | mg/L  | 0.0000162  | 0.0001474 | 0.10  | 0.0998  | 0.101   | 0.103   | 0.085 to 0.115   | 99.8  | 70 to 130 | 1.20   | 20    |
| AZ21222 | Lead, Total            | mg/L  | 0.00000492 | 0.0001474 | 0.10  | 0.111   | 0.107   | 0.106   | 0.085 to 0.115   | 111   | 70 to 130 | 4.05   | 20    |
| AZ21222 | Antimony, Total        | mg/L  | 0.000217   | 0.00066   | 0.10  | 0.100   | 0.101   | 0.103   | 0.085 to 0.115   | 100   | 70 to 130 | 0.433  | 20    |
| AZ21222 | Selenium, Total        | mg/L  | 0.0000469  | 0.00066   | 0.10  | 0.108   | 0.108   | 0.109   | 0.085 to 0.115   | 108   | 70 to 130 | 0.244  | 20    |
| AZ21222 | Thallium, Total        | mg/L  | 0.00000043 | 0.0001474 | 0.10  | 0.117   | 0.112   | 0.112   | 0.085 to 0.115   | 117   | 70 to 130 | 4.42   | 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:** WMWGASAP

**Sample Date:** 9/18/19 15:47

**Customer ID:**

**Delivery Date:** 9/19/19 09:56

**Description:** Gaston Ash Pond - MW-26

**Laboratory ID Number:** AZ21198

| Sample  | Analysis          | Units | MB       | MB    |       | MS   | MSD   | LCS  | LCS          |      | Rec       |       | Prec |
|---------|-------------------|-------|----------|-------|-------|------|-------|------|--------------|------|-----------|-------|------|
|         |                   |       |          | Limit | Spike |      |       |      | Limit        | Rec  | Limit     | Prec  |      |
| AZ21199 | Solids, Dissolved | mg/L  | 0.0000   | 25    | 50.0  |      | 433   | 52.0 | 40 to 60     | 104  | 80 to 120 | 0.00  | 5    |
| AZ21201 | Chloride          | mg/L  | -0.00289 | 0.50  | 100   | 161  | 57.5  | 9.96 | 9 to 11      | 104  | 80 to 120 | 1.40  | 20   |
| AZ21201 | Fluoride          | mg/L  | 0.0274   | 0.05  | 2.50  | 2.55 | 0.059 | 2.62 | 2.25 to 2.75 | 99.5 | 80 to 120 | 4.64  | 20   |
| AZ21201 | Sulfate           | mg/L  | -0.498   | 0.50  | 200   | 308  | 121   | 19.1 | 18 to 22     | 94.0 | 80 to 120 | 0.830 | 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:** Gaston Ash Pond - MW-26DUP

**Location Code:** WMWGASAP  
**Collected:** 9/18/19 15:47  
**Customer ID:**  
**Submittal Date:** 9/19/19 09:56

**Laboratory ID Number:** AZ21199

| Name                                     | Prepared      | Analyzed            | Vio Spec | DF    | Results                             | Units | MDL    | RL     | Q |
|------------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|--------|--------|---|
| <b>Analytical Method: EPA 200.7</b>      |               | <b>Analyst: RDA</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 11:34       |          | 1.015 | 1.34                                | mg/L  | 0.03   | 0.1    |   |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 13:30       |          | 10.15 | 79.9                                | mg/L  | 1.015  | 5.075  |   |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 11:34       |          | 1.015 | Not Detected                        | mg/L  | 0.01   | 0.02   | U |
| <b>Analytical Method: EPA 200.8</b>      |               | <b>Analyst: DLJ</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 12:47       |          | 1.015 | Not Detected                        | mg/L  | 0.0008 | 0.003  | U |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 12:47       |          | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 12:47       |          | 1.015 | 0.0191                              | mg/L  | 0.002  | 0.01   |   |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 12:47       |          | 1.015 | Not Detected                        | mg/L  | 0.0006 | 0.003  | U |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 12:47       |          | 1.015 | Not Detected                        | mg/L  | 0.0003 | 0.001  | U |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 12:47       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 12:47       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.005  | U |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 12:47       |          | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 12:47       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 12:47       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 12:47       |          | 1.015 | Not Detected                        | mg/L  | 0.0002 | 0.001  | U |
| <b>Analytical Method: EPA 245.1</b>      |               | <b>Analyst: GAS</b> |          |       |                                     |       |        |        |   |
| * Mercury, Total by CVAA                 | 9/25/19 08:09 | 9/25/19 13:58       |          | 1     | Not Detected                        | mg/L  | 0.0003 | 0.0005 | U |
| <b>Analytical Method: SM 2540C</b>       |               | <b>Analyst: TJW</b> |          |       |                                     |       |        |        |   |
| * Solids, Dissolved                      | 9/24/19 12:40 | 9/25/19 15:25       |          | 1     | 433                                 | mg/L  |        | 25     |   |
| <b>Analytical Method: SM4500Cl E</b>     |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |   |
| * Chloride                               | 9/24/19 11:04 | 9/24/19 11:04       |          | 4     | 41.1                                | mg/L  | 2.00   | 4      |   |
| <b>Analytical Method: SM4500F G 2017</b> |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |   |
| * Fluoride                               | 9/25/19 10:55 | 9/25/19 10:55       |          | 1     | Not Detected                        | mg/L  | 0.05   | 0.1    | U |
| <b>Analytical Method: SM4500SO4 E</b>    |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |   |
| * Sulfate                                | 9/26/19 11:27 | 9/26/19 11:27       |          | 10    | 141                                 | mg/L  | 5.00   | 10     |   |

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

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/18/19 15:47  
**Customer ID:**  
**Delivery Date:** 9/19/19 09:56

**Description:** Gaston Ash Pond - MW-26DUP

**Laboratory ID Number:** AZ21199

| Sample  | Analysis               | Units | MB         |           | Spike | MS      | MSD     | LCS     | LCS              |     | Rec   |           | Prec   |    |
|---------|------------------------|-------|------------|-----------|-------|---------|---------|---------|------------------|-----|-------|-----------|--------|----|
|         |                        |       | MB         | Limit     |       |         |         |         | Limit            | Rec | Limit | Prec      |        |    |
| AZ21221 | Boron, Total           | mg/L  | -0.0000813 | 0.0650254 | 1.00  | 1.01    | 1.02    | 0.981   | 0.85 to 1.15     |     | 101   | 70 to 130 | 1.20   | 20 |
| AZ21221 | Calcium, Total         | mg/L  | -0.000654  | 0.1518    | 5.00  | 45.3    | 45.3    | 5.01    | 4.25 to 5.75     |     | 124   | 70 to 130 | 0.00   | 20 |
| AZ21221 | Lithium, Total         | mg/L  | -0.0000164 | 0.0154    | 0.20  | 0.207   | 0.210   | 0.196   | 0.17 to 0.23     |     | 104   | 70 to 130 | 1.32   | 20 |
| AZ21222 | Arsenic, Total         | mg/L  | 0.00000551 | 0.0001474 | 0.10  | 0.102   | 0.105   | 0.107   | 0.085 to 0.115   |     | 102   | 70 to 130 | 2.21   | 20 |
| AZ21222 | Barium, Total          | mg/L  | 0.0000103  | 0.0002    | 0.10  | 0.119   | 0.116   | 0.106   | 0.085 to 0.115   |     | 105   | 70 to 130 | 2.20   | 20 |
| AZ21222 | Beryllium, Total       | mg/L  | 0.0000121  | 0.00088   | 0.10  | 0.101   | 0.100   | 0.0998  | 0.085 to 0.115   |     | 101   | 70 to 130 | 0.962  | 20 |
| AZ21222 | Cadmium, Total         | mg/L  | 0.00000000 | 0.0001474 | 0.10  | 0.106   | 0.106   | 0.107   | 0.085 to 0.115   |     | 106   | 70 to 130 | 0.0410 | 20 |
| AZ21222 | Cobalt, Total          | mg/L  | 0.00000184 | 0.0001474 | 0.10  | 0.105   | 0.107   | 0.108   | 0.085 to 0.115   |     | 105   | 70 to 130 | 2.07   | 20 |
| AZ21222 | Chromium, Total        | mg/L  | 0.0000142  | 0.00044   | 0.10  | 0.102   | 0.104   | 0.104   | 0.085 to 0.115   |     | 102   | 70 to 130 | 2.00   | 20 |
| AZ21222 | Mercury, Total by CVAA | mg/L  | 0.0000260  | 0.0005    | 0.004 | 0.00423 | 0.00415 | 0.00398 | 0.0034 to 0.0046 |     | 106   | 70 to 130 | 1.89   | 20 |
| AZ21222 | Molybdenum, Total      | mg/L  | 0.0000162  | 0.0001474 | 0.10  | 0.0998  | 0.101   | 0.103   | 0.085 to 0.115   |     | 99.8  | 70 to 130 | 1.20   | 20 |
| AZ21222 | Lead, Total            | mg/L  | 0.00000492 | 0.0001474 | 0.10  | 0.111   | 0.107   | 0.106   | 0.085 to 0.115   |     | 111   | 70 to 130 | 4.05   | 20 |
| AZ21222 | Antimony, Total        | mg/L  | 0.000217   | 0.00066   | 0.10  | 0.100   | 0.101   | 0.103   | 0.085 to 0.115   |     | 100   | 70 to 130 | 0.433  | 20 |
| AZ21222 | Selenium, Total        | mg/L  | 0.0000469  | 0.00066   | 0.10  | 0.108   | 0.108   | 0.109   | 0.085 to 0.115   |     | 108   | 70 to 130 | 0.244  | 20 |
| AZ21222 | Thallium, Total        | mg/L  | 0.00000043 | 0.0001474 | 0.10  | 0.117   | 0.112   | 0.112   | 0.085 to 0.115   |     | 117   | 70 to 130 | 4.42   | 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:** WMWGASAP  
**Sample Date:** 9/18/19 15:47  
**Customer ID:**  
**Delivery Date:** 9/19/19 09:56

**Description:** Gaston Ash Pond - MW-26DUP

**Laboratory ID Number:** AZ21199

| Sample  | Analysis          | Units | MB       | MB    |       | MS   | MSD   | LCS  | LCS          |      | Rec       |       | Prec |
|---------|-------------------|-------|----------|-------|-------|------|-------|------|--------------|------|-----------|-------|------|
|         |                   |       |          | Limit | Spike |      |       |      | Limit        | Rec  | Limit     | Prec  |      |
| AZ21199 | Solids, Dissolved | mg/L  | 0.0000   | 25    | 50.0  |      | 433   | 52.0 | 40 to 60     | 104  | 80 to 120 | 0.00  | 5    |
| AZ21201 | Chloride          | mg/L  | -0.00289 | 0.50  | 100   | 161  | 57.5  | 9.96 | 9 to 11      | 104  | 80 to 120 | 1.40  | 20   |
| AZ21201 | Fluoride          | mg/L  | 0.0274   | 0.05  | 2.50  | 2.55 | 0.059 | 2.62 | 2.25 to 2.75 | 99.5 | 80 to 120 | 4.64  | 20   |
| AZ21201 | Sulfate           | mg/L  | -0.498   | 0.50  | 200   | 308  | 121   | 19.1 | 18 to 22     | 94.0 | 80 to 120 | 0.830 | 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:** Gaston Ash Pond Equipment Blank

**Location Code:** WMWGASAPEB  
**Collected:** 9/18/19 17:35  
**Customer ID:**  
**Submittal Date:** 9/19/19 09:56

**Laboratory ID Number:** AZ21200

| Name                                     | Prepared      | Analyzed      | Vio Spec            | DF    | Results                             | Units | MDL    | RL     | Q |
|------------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-------|--------|--------|---|
| <b>Analytical Method: EPA 200.7</b>      |               |               | <b>Analyst: RDA</b> |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 11:37 |                     | 1.015 | Not Detected                        | mg/L  | 0.03   | 0.1    | U |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 11:37 |                     | 1.015 | Not Detected                        | mg/L  | 0.1    | 0.5    | U |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 11:37 |                     | 1.015 | Not Detected                        | mg/L  | 0.01   | 0.02   | U |
| <b>Analytical Method: EPA 200.8</b>      |               |               | <b>Analyst: DLJ</b> |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 12:49 |                     | 1.015 | Not Detected                        | mg/L  | 0.0008 | 0.003  | U |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 12:49 |                     | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 12:49 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 12:49 |                     | 1.015 | Not Detected                        | mg/L  | 0.0006 | 0.003  | U |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 12:49 |                     | 1.015 | Not Detected                        | mg/L  | 0.0003 | 0.001  | U |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 12:49 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 12:49 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.005  | U |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 12:49 |                     | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 12:49 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 12:49 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 12:49 |                     | 1.015 | Not Detected                        | mg/L  | 0.0002 | 0.001  | U |
| <b>Analytical Method: EPA 245.1</b>      |               |               | <b>Analyst: GAS</b> |       |                                     |       |        |        |   |
| * Mercury, Total by CVAA                 | 9/25/19 08:09 | 9/25/19 14:01 |                     | 1     | Not Detected                        | mg/L  | 0.0003 | 0.0005 | U |
| <b>Analytical Method: SM 2540C</b>       |               |               | <b>Analyst: TJW</b> |       |                                     |       |        |        |   |
| * Solids, Dissolved                      | 9/24/19 12:40 | 9/25/19 15:25 |                     | 1     | Not Detected                        | mg/L  |        | 25     | U |
| <b>Analytical Method: SM4500CI E</b>     |               |               | <b>Analyst: JCC</b> |       |                                     |       |        |        |   |
| * Chloride                               | 9/24/19 10:44 | 9/24/19 10:44 |                     | 1     | Not Detected                        | mg/L  | 0.50   | 1      | U |
| <b>Analytical Method: SM4500F G 2017</b> |               |               | <b>Analyst: JCC</b> |       |                                     |       |        |        |   |
| * Fluoride                               | 9/25/19 10:56 | 9/25/19 10:56 |                     | 1     | Not Detected                        | mg/L  | 0.05   | 0.1    | U |
| <b>Analytical Method: SM4500SO4 E</b>    |               |               | <b>Analyst: JCC</b> |       |                                     |       |        |        |   |
| * Sulfate                                | 9/26/19 11:28 | 9/26/19 11:28 |                     | 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:** WMWGASAPEB  
**Sample Date:** 9/18/19 17:35  
**Customer ID:**  
**Delivery Date:** 9/19/19 09:56

**Description:** Gaston Ash Pond Equipment Blank

**Laboratory ID Number:** AZ21200

| Sample  | Analysis               | Units | MB         |           | MS    | MSD     | LCS     | LCS     | Rec              |       | Prec      | Limit  |    |
|---------|------------------------|-------|------------|-----------|-------|---------|---------|---------|------------------|-------|-----------|--------|----|
|         |                        |       | MB         | Limit     |       |         |         |         | Rec              | Limit |           |        |    |
| AZ21221 | Boron, Total           | mg/L  | -0.0000813 | 0.0650254 | 1.00  | 1.01    | 1.02    | 0.981   | 0.85 to 1.15     | 101   | 70 to 130 | 1.20   | 20 |
| AZ21221 | Calcium, Total         | mg/L  | -0.000654  | 0.1518    | 5.00  | 45.3    | 45.3    | 5.01    | 4.25 to 5.75     | 124   | 70 to 130 | 0.00   | 20 |
| AZ21221 | Lithium, Total         | mg/L  | -0.0000164 | 0.0154    | 0.20  | 0.207   | 0.210   | 0.196   | 0.17 to 0.23     | 104   | 70 to 130 | 1.32   | 20 |
| AZ21222 | Arsenic, Total         | mg/L  | 0.00000551 | 0.0001474 | 0.10  | 0.102   | 0.105   | 0.107   | 0.085 to 0.115   | 102   | 70 to 130 | 2.21   | 20 |
| AZ21222 | Barium, Total          | mg/L  | 0.0000103  | 0.0002    | 0.10  | 0.119   | 0.116   | 0.106   | 0.085 to 0.115   | 105   | 70 to 130 | 2.20   | 20 |
| AZ21222 | Beryllium, Total       | mg/L  | 0.0000121  | 0.00088   | 0.10  | 0.101   | 0.100   | 0.0998  | 0.085 to 0.115   | 101   | 70 to 130 | 0.962  | 20 |
| AZ21222 | Cadmium, Total         | mg/L  | 0.00000000 | 0.0001474 | 0.10  | 0.106   | 0.106   | 0.107   | 0.085 to 0.115   | 106   | 70 to 130 | 0.0410 | 20 |
| AZ21222 | Cobalt, Total          | mg/L  | 0.00000184 | 0.0001474 | 0.10  | 0.105   | 0.107   | 0.108   | 0.085 to 0.115   | 105   | 70 to 130 | 2.07   | 20 |
| AZ21222 | Chromium, Total        | mg/L  | 0.0000142  | 0.00044   | 0.10  | 0.102   | 0.104   | 0.104   | 0.085 to 0.115   | 102   | 70 to 130 | 2.00   | 20 |
| AZ21222 | Mercury, Total by CVAA | mg/L  | 0.0000260  | 0.0005    | 0.004 | 0.00423 | 0.00415 | 0.00398 | 0.0034 to 0.0046 | 106   | 70 to 130 | 1.89   | 20 |
| AZ21222 | Molybdenum, Total      | mg/L  | 0.0000162  | 0.0001474 | 0.10  | 0.0998  | 0.101   | 0.103   | 0.085 to 0.115   | 99.8  | 70 to 130 | 1.20   | 20 |
| AZ21222 | Lead, Total            | mg/L  | 0.00000492 | 0.0001474 | 0.10  | 0.111   | 0.107   | 0.106   | 0.085 to 0.115   | 111   | 70 to 130 | 4.05   | 20 |
| AZ21222 | Antimony, Total        | mg/L  | 0.000217   | 0.00066   | 0.10  | 0.100   | 0.101   | 0.103   | 0.085 to 0.115   | 100   | 70 to 130 | 0.433  | 20 |
| AZ21222 | Selenium, Total        | mg/L  | 0.0000469  | 0.00066   | 0.10  | 0.108   | 0.108   | 0.109   | 0.085 to 0.115   | 108   | 70 to 130 | 0.244  | 20 |
| AZ21222 | Thallium, Total        | mg/L  | 0.00000043 | 0.0001474 | 0.10  | 0.117   | 0.112   | 0.112   | 0.085 to 0.115   | 117   | 70 to 130 | 4.42   | 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:** WMWGASAPEB

**Sample Date:** 9/18/19 17:35

**Customer ID:**

**Delivery Date:** 9/19/19 09:56

**Description:** Gaston Ash Pond Equipment Blank

**Laboratory ID Number:** AZ21200

| Sample  | Analysis          | Units | MB       | MB    |       | MS   | MSD   | LCS  | LCS          |      | Rec       |       | Prec  |
|---------|-------------------|-------|----------|-------|-------|------|-------|------|--------------|------|-----------|-------|-------|
|         |                   |       |          | Limit | Spike |      |       |      | Limit        | Rec  | Limit     | Prec  | Limit |
| AZ21199 | Solids, Dissolved | mg/L  | 0.0000   | 25    | 50.0  |      | 433   | 52.0 | 40 to 60     | 104  | 80 to 120 | 0.00  | 5     |
| AZ21201 | Chloride          | mg/L  | -0.00289 | 0.50  | 100   | 161  | 57.5  | 9.96 | 9 to 11      | 104  | 80 to 120 | 1.40  | 20    |
| AZ21201 | Fluoride          | mg/L  | 0.0274   | 0.05  | 2.50  | 2.55 | 0.059 | 2.62 | 2.25 to 2.75 | 99.5 | 80 to 120 | 4.64  | 20    |
| AZ21201 | Sulfate           | mg/L  | -0.498   | 0.50  | 200   | 308  | 121   | 19.1 | 18 to 22     | 94.0 | 80 to 120 | 0.830 | 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:** Gaston Ash Pond - MW-27

**Location Code:** WMWGASAP  
**Collected:** 9/18/19 17:50  
**Customer ID:**  
**Submittal Date:** 9/19/19 09:56

**Laboratory ID Number:** AZ21201

| Name                                     | Prepared      | Analyzed            | Vio Spec | DF    | Results                             | Units | MDL    | RL     | Q |
|------------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|--------|--------|---|
| <b>Analytical Method: EPA 200.7</b>      |               | <b>Analyst: RDA</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 11:40       |          | 1.015 | 1.23                                | mg/L  | 0.03   | 0.1    |   |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 13:33       |          | 10.15 | 81.7                                | mg/L  | 1.015  | 5.075  |   |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 11:40       |          | 1.015 | Not Detected                        | mg/L  | 0.01   | 0.02   | U |
| <b>Analytical Method: EPA 200.8</b>      |               | <b>Analyst: DLJ</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 12:52       |          | 1.015 | Not Detected                        | mg/L  | 0.0008 | 0.003  | U |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 12:52       |          | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 12:52       |          | 1.015 | 0.0400                              | mg/L  | 0.002  | 0.01   |   |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 12:52       |          | 1.015 | Not Detected                        | mg/L  | 0.0006 | 0.003  | U |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 12:52       |          | 1.015 | Not Detected                        | mg/L  | 0.0003 | 0.001  | U |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 12:52       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 12:52       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.005  | U |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 12:52       |          | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 12:52       |          | 1.015 | 0.0187                              | mg/L  | 0.002  | 0.01   |   |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 12:52       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 12:52       |          | 1.015 | Not Detected                        | mg/L  | 0.0002 | 0.001  | U |
| <b>Analytical Method: EPA 245.1</b>      |               | <b>Analyst: GAS</b> |          |       |                                     |       |        |        |   |
| * Mercury, Total by CVAA                 | 9/25/19 08:09 | 9/25/19 14:03       |          | 1     | Not Detected                        | mg/L  | 0.0003 | 0.0005 | U |
| <b>Analytical Method: SM 2540C</b>       |               | <b>Analyst: TJW</b> |          |       |                                     |       |        |        |   |
| * Solids, Dissolved                      | 9/23/19 14:40 | 9/25/19 09:15       |          | 1     | 412                                 | mg/L  |        | 25     |   |
| <b>Analytical Method: SM4500CI E</b>     |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |   |
| * Chloride                               | 9/24/19 11:05 | 9/24/19 11:05       |          | 10    | 56.7                                | mg/L  | 5.00   | 10     |   |
| <b>Analytical Method: SM4500F G 2017</b> |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |   |
| * Fluoride                               | 9/25/19 10:57 | 9/25/19 10:57       |          | 1     | 0.0618                              | mg/L  | 0.05   | 0.1    | J |
| <b>Analytical Method: SM4500SO4 E</b>    |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |   |
| * Sulfate                                | 9/26/19 11:32 | 9/26/19 11:32       |          | 10    | 120                                 | mg/L  | 5.00   | 10     |   |

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

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/18/19 17:50  
**Customer ID:**  
**Delivery Date:** 9/19/19 09:56

**Description:** Gaston Ash Pond - MW-27

**Laboratory ID Number:** AZ21201

| Sample  | Analysis               | Units | MB         |           | Spike | MS      | MSD     | LCS     | LCS              | Rec  |           | Prec   | Limit |
|---------|------------------------|-------|------------|-----------|-------|---------|---------|---------|------------------|------|-----------|--------|-------|
|         |                        |       | MB         | Limit     |       |         |         |         | Limit            | Rec  | Limit     |        |       |
| AZ21221 | Boron, Total           | mg/L  | -0.0000813 | 0.0650254 | 1.00  | 1.01    | 1.02    | 0.981   | 0.85 to 1.15     | 101  | 70 to 130 | 1.20   | 20    |
| AZ21221 | Calcium, Total         | mg/L  | -0.000654  | 0.1518    | 5.00  | 45.3    | 45.3    | 5.01    | 4.25 to 5.75     | 124  | 70 to 130 | 0.00   | 20    |
| AZ21221 | Lithium, Total         | mg/L  | -0.0000164 | 0.0154    | 0.20  | 0.207   | 0.210   | 0.196   | 0.17 to 0.23     | 104  | 70 to 130 | 1.32   | 20    |
| AZ21222 | Arsenic, Total         | mg/L  | 0.00000551 | 0.0001474 | 0.10  | 0.102   | 0.105   | 0.107   | 0.085 to 0.115   | 102  | 70 to 130 | 2.21   | 20    |
| AZ21222 | Barium, Total          | mg/L  | 0.0000103  | 0.0002    | 0.10  | 0.119   | 0.116   | 0.106   | 0.085 to 0.115   | 105  | 70 to 130 | 2.20   | 20    |
| AZ21222 | Beryllium, Total       | mg/L  | 0.0000121  | 0.00088   | 0.10  | 0.101   | 0.100   | 0.0998  | 0.085 to 0.115   | 101  | 70 to 130 | 0.962  | 20    |
| AZ21222 | Cadmium, Total         | mg/L  | 0.00000000 | 0.0001474 | 0.10  | 0.106   | 0.106   | 0.107   | 0.085 to 0.115   | 106  | 70 to 130 | 0.0410 | 20    |
| AZ21222 | Cobalt, Total          | mg/L  | 0.00000184 | 0.0001474 | 0.10  | 0.105   | 0.107   | 0.108   | 0.085 to 0.115   | 105  | 70 to 130 | 2.07   | 20    |
| AZ21222 | Chromium, Total        | mg/L  | 0.0000142  | 0.00044   | 0.10  | 0.102   | 0.104   | 0.104   | 0.085 to 0.115   | 102  | 70 to 130 | 2.00   | 20    |
| AZ21222 | Mercury, Total by CVAA | mg/L  | 0.0000260  | 0.0005    | 0.004 | 0.00423 | 0.00415 | 0.00398 | 0.0034 to 0.0046 | 106  | 70 to 130 | 1.89   | 20    |
| AZ21222 | Molybdenum, Total      | mg/L  | 0.0000162  | 0.0001474 | 0.10  | 0.0998  | 0.101   | 0.103   | 0.085 to 0.115   | 99.8 | 70 to 130 | 1.20   | 20    |
| AZ21222 | Lead, Total            | mg/L  | 0.00000492 | 0.0001474 | 0.10  | 0.111   | 0.107   | 0.106   | 0.085 to 0.115   | 111  | 70 to 130 | 4.05   | 20    |
| AZ21222 | Antimony, Total        | mg/L  | 0.000217   | 0.00066   | 0.10  | 0.100   | 0.101   | 0.103   | 0.085 to 0.115   | 100  | 70 to 130 | 0.433  | 20    |
| AZ21222 | Selenium, Total        | mg/L  | 0.0000469  | 0.00066   | 0.10  | 0.108   | 0.108   | 0.109   | 0.085 to 0.115   | 108  | 70 to 130 | 0.244  | 20    |
| AZ21222 | Thallium, Total        | mg/L  | 0.00000043 | 0.0001474 | 0.10  | 0.117   | 0.112   | 0.112   | 0.085 to 0.115   | 117  | 70 to 130 | 4.42   | 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:** WMWGASAP

**Sample Date:** 9/18/19 17:50

**Customer ID:**

**Delivery Date:** 9/19/19 09:56

**Description:** Gaston Ash Pond - MW-27

**Laboratory ID Number:** AZ21201

| Sample  | Analysis          | Units | MB       | MB    |       | MS   | MSD   | LCS  | LCS          |      | Rec       |       | Prec |
|---------|-------------------|-------|----------|-------|-------|------|-------|------|--------------|------|-----------|-------|------|
|         |                   |       |          | Limit | Spike |      |       |      | Limit        | Rec  | Limit     | Prec  |      |
| AZ21201 | Chloride          | mg/L  | -0.00289 | 0.50  | 100   | 161  | 57.5  | 9.96 | 9 to 11      | 104  | 80 to 120 | 1.40  | 20   |
| AZ21201 | Fluoride          | mg/L  | 0.0274   | 0.05  | 2.50  | 2.55 | 0.059 | 2.62 | 2.25 to 2.75 | 99.5 | 80 to 120 | 4.64  | 20   |
| AZ21201 | Sulfate           | mg/L  | -0.498   | 0.50  | 200   | 308  | 121   | 19.1 | 18 to 22     | 94.0 | 80 to 120 | 0.830 | 20   |
| AZ21201 | Solids, Dissolved | mg/L  | 0.0000   | 25    | 50.0  |      | 412   | 50.0 | 40 to 60     | 100  | 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:** Gaston Ash Pond - MW-10

**Location Code:** WMWGASAP  
**Collected:** 9/16/19 10:53  
**Customer ID:**  
**Submittal Date:** 9/19/19 11:06

**Laboratory ID Number:** AZ21221

| Name                                     | Prepared      | Analyzed            | Vio Spec | DF    | Results                             | Units | MDL    | RL     | Q  |
|------------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|--------|--------|----|
| <b>Analytical Method: EPA 200.7</b>      |               | <b>Analyst: RDA</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |        |        |    |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 11:43       |          | 1.015 | Not Detected                        | mg/L  | 0.03   | 0.1    | U  |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 11:43       |          | 1.015 | 39.1                                | mg/L  | 0.1    | 0.5    |    |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 11:43       |          | 1.015 | Not Detected                        | mg/L  | 0.01   | 0.02   | U  |
| <b>Analytical Method: EPA 200.8</b>      |               | <b>Analyst: DLJ</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |        |        |    |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 12:55       |          | 1.015 | Not Detected                        | mg/L  | 0.0008 | 0.003  | U  |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 12:55       |          | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U  |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 12:55       |          | 1.015 | 0.0135                              | mg/L  | 0.002  | 0.01   |    |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 12:55       |          | 1.015 | Not Detected                        | mg/L  | 0.0006 | 0.003  | U  |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 12:55       |          | 1.015 | Not Detected                        | mg/L  | 0.0003 | 0.001  | U  |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 12:55       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U  |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 12:55       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.005  | U  |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 12:55       |          | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U  |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 12:55       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U  |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 12:55       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U  |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 12:55       |          | 1.015 | Not Detected                        | mg/L  | 0.0002 | 0.001  | U  |
| <b>Analytical Method: EPA 245.1</b>      |               | <b>Analyst: GAS</b> |          |       |                                     |       |        |        |    |
| * Mercury, Total by CVAA                 | 9/25/19 08:09 | 9/25/19 14:05       |          | 1     | Not Detected                        | mg/L  | 0.0003 | 0.0005 | U  |
| <b>Analytical Method: SM 2540C</b>       |               | <b>Analyst: TJW</b> |          |       |                                     |       |        |        |    |
| * Solids, Dissolved                      | 9/23/19 14:40 | 9/25/19 09:15       |          | 1     | 168                                 | mg/L  |        | 25     | HT |
| <b>Analytical Method: SM4500Cl E</b>     |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |    |
| * Chloride                               | 9/24/19 11:19 | 9/24/19 11:19       |          | 1     | 2.54                                | mg/L  | 0.50   | 1      |    |
| <b>Analytical Method: SM4500F G 2017</b> |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |    |
| * Fluoride                               | 9/25/19 11:10 | 9/25/19 11:10       |          | 1     | Not Detected                        | mg/L  | 0.05   | 0.1    | U  |
| <b>Analytical Method: SM4500SO4 E</b>    |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |    |
| * Sulfate                                | 9/26/19 11:57 | 9/26/19 11:57       |          | 1     | 3.39                                | mg/L  | 0.50   | 1      |    |

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

**Comments:** TDS result is qualified due to sample was filtered outside of hold time. LBM 10/7/19

# Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/16/19 10:53  
**Customer ID:**  
**Delivery Date:** 9/19/19 11:06

**Description:** Gaston Ash Pond - MW-10

**Laboratory ID Number:** AZ21221

| Sample  | Analysis               | Units | MB         |           | MS    | MSD     | LCS     | LCS     |                  | Rec   |           | Prec   | Limit |
|---------|------------------------|-------|------------|-----------|-------|---------|---------|---------|------------------|-------|-----------|--------|-------|
|         |                        |       | MB         | Limit     |       |         |         | Limit   | Rec              | Limit | Prec      |        |       |
| AZ21221 | Boron, Total           | mg/L  | -0.0000813 | 0.0650254 | 1.00  | 1.01    | 1.02    | 0.981   | 0.85 to 1.15     | 101   | 70 to 130 | 1.20   | 20    |
| AZ21221 | Calcium, Total         | mg/L  | -0.000654  | 0.1518    | 5.00  | 45.3    | 45.3    | 5.01    | 4.25 to 5.75     | 124   | 70 to 130 | 0.00   | 20    |
| AZ21221 | Lithium, Total         | mg/L  | -0.0000164 | 0.0154    | 0.20  | 0.207   | 0.210   | 0.196   | 0.17 to 0.23     | 104   | 70 to 130 | 1.32   | 20    |
| AZ21222 | Arsenic, Total         | mg/L  | 0.00000551 | 0.0001474 | 0.10  | 0.102   | 0.105   | 0.107   | 0.085 to 0.115   | 102   | 70 to 130 | 2.21   | 20    |
| AZ21222 | Barium, Total          | mg/L  | 0.0000103  | 0.0002    | 0.10  | 0.119   | 0.116   | 0.106   | 0.085 to 0.115   | 105   | 70 to 130 | 2.20   | 20    |
| AZ21222 | Beryllium, Total       | mg/L  | 0.0000121  | 0.00088   | 0.10  | 0.101   | 0.100   | 0.0998  | 0.085 to 0.115   | 101   | 70 to 130 | 0.962  | 20    |
| AZ21222 | Cadmium, Total         | mg/L  | 0.00000000 | 0.0001474 | 0.10  | 0.106   | 0.106   | 0.107   | 0.085 to 0.115   | 106   | 70 to 130 | 0.0410 | 20    |
| AZ21222 | Cobalt, Total          | mg/L  | 0.00000184 | 0.0001474 | 0.10  | 0.105   | 0.107   | 0.108   | 0.085 to 0.115   | 105   | 70 to 130 | 2.07   | 20    |
| AZ21222 | Chromium, Total        | mg/L  | 0.0000142  | 0.00044   | 0.10  | 0.102   | 0.104   | 0.104   | 0.085 to 0.115   | 102   | 70 to 130 | 2.00   | 20    |
| AZ21222 | Mercury, Total by CVAA | mg/L  | 0.0000260  | 0.0005    | 0.004 | 0.00423 | 0.00415 | 0.00398 | 0.0034 to 0.0046 | 106   | 70 to 130 | 1.89   | 20    |
| AZ21222 | Molybdenum, Total      | mg/L  | 0.0000162  | 0.0001474 | 0.10  | 0.0998  | 0.101   | 0.103   | 0.085 to 0.115   | 99.8  | 70 to 130 | 1.20   | 20    |
| AZ21222 | Lead, Total            | mg/L  | 0.00000492 | 0.0001474 | 0.10  | 0.111   | 0.107   | 0.106   | 0.085 to 0.115   | 111   | 70 to 130 | 4.05   | 20    |
| AZ21222 | Antimony, Total        | mg/L  | 0.000217   | 0.00066   | 0.10  | 0.100   | 0.101   | 0.103   | 0.085 to 0.115   | 100   | 70 to 130 | 0.433  | 20    |
| AZ21222 | Selenium, Total        | mg/L  | 0.0000469  | 0.00066   | 0.10  | 0.108   | 0.108   | 0.109   | 0.085 to 0.115   | 108   | 70 to 130 | 0.244  | 20    |
| AZ21222 | Thallium, Total        | mg/L  | 0.00000043 | 0.0001474 | 0.10  | 0.117   | 0.112   | 0.112   | 0.085 to 0.115   | 117   | 70 to 130 | 4.42   | 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:** TDS result is qualified due to sample was filtered outside of hold time. LBM 10/7/19

## Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/16/19 10:53  
**Customer ID:**  
**Delivery Date:** 9/19/19 11:06

**Description:** Gaston Ash Pond - MW-10

**Laboratory ID Number:** AZ21221

| Sample  | Analysis          | Units | MB      | MB    |       | MS   | MSD    | LCS  | LCS          |      | Rec       |       | Prec |
|---------|-------------------|-------|---------|-------|-------|------|--------|------|--------------|------|-----------|-------|------|
|         |                   |       |         | Limit | Spike |      |        |      | Limit        | Rec  | Limit     | Prec  |      |
| AZ21201 | Solids, Dissolved | mg/L  | 0.0000  | 25    | 50.0  |      | 412    | 50.0 | 40 to 60     | 100  | 80 to 120 | 0.00  | 5    |
| AZ21230 | Chloride          | mg/L  | -0.0199 | 0.50  | 10.0  | 12.1 | 1.99   | 9.98 | 9 to 11      | 102  | 80 to 120 | 3.06  | 20   |
| AZ21230 | Fluoride          | mg/L  | 0.0218  | 0.05  | 2.50  | 2.55 | 0.0433 | 2.62 | 2.25 to 2.75 | 102  | 80 to 120 | 0.00  | 20   |
| AZ21230 | Sulfate           | mg/L  | -0.402  | 0.50  | 20.0  | 24.0 | 4.48   | 19.1 | 18 to 22     | 97.4 | 80 to 120 | 0.667 | 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:** TDS result is qualified due to sample was filtered outside of hold time. LBM 10/7/19

# Certificate Of Analysis

**Description:** Gaston Ash Pond - MW-10 dup

**Location Code:** WMWGASAP  
**Collected:** 9/16/19 10:53  
**Customer ID:**  
**Submittal Date:** 9/19/19 11:06

**Laboratory ID Number:** AZ21222

| Name                                     | Prepared      | Analyzed            | Vio Spec | DF                                  | Results      | Units | MDL    | RL     | Q  |
|------------------------------------------|---------------|---------------------|----------|-------------------------------------|--------------|-------|--------|--------|----|
| <b>Analytical Method: EPA 200.7</b>      |               | <b>Analyst: RDA</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |    |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 11:58       |          | 1.015                               | Not Detected | mg/L  | 0.03   | 0.1    | U  |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 11:58       |          | 1.015                               | 39.4         | mg/L  | 0.1    | 0.5    |    |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 11:58       |          | 1.015                               | Not Detected | mg/L  | 0.01   | 0.02   | U  |
| <b>Analytical Method: EPA 200.8</b>      |               | <b>Analyst: DLJ</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |    |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 12:57       |          | 1.015                               | Not Detected | mg/L  | 0.0008 | 0.003  | U  |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 12:57       |          | 1.015                               | Not Detected | mg/L  | 0.001  | 0.005  | U  |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 12:57       |          | 1.015                               | 0.0134       | mg/L  | 0.002  | 0.01   |    |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 12:57       |          | 1.015                               | Not Detected | mg/L  | 0.0006 | 0.003  | U  |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 12:57       |          | 1.015                               | Not Detected | mg/L  | 0.0003 | 0.001  | U  |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 12:57       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U  |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 12:57       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.005  | U  |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 12:57       |          | 1.015                               | Not Detected | mg/L  | 0.001  | 0.005  | U  |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 12:57       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U  |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 12:57       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U  |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 12:57       |          | 1.015                               | Not Detected | mg/L  | 0.0002 | 0.001  | U  |
| <b>Analytical Method: EPA 245.1</b>      |               | <b>Analyst: GAS</b> |          |                                     |              |       |        |        |    |
| * Mercury, Total by CVAA                 | 9/25/19 08:09 | 9/25/19 14:08       |          | 1                                   | Not Detected | mg/L  | 0.0003 | 0.0005 | U  |
| <b>Analytical Method: SM 2540C</b>       |               | <b>Analyst: TJW</b> |          |                                     |              |       |        |        |    |
| * Solids, Dissolved                      | 9/23/19 14:40 | 9/25/19 09:15       |          | 1                                   | 171          | mg/L  |        | 25     | HT |
| <b>Analytical Method: SM4500CI E</b>     |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |    |
| * Chloride                               | 9/24/19 11:20 | 9/24/19 11:20       |          | 1                                   | 2.61         | mg/L  | 0.50   | 1      |    |
| <b>Analytical Method: SM4500F G 2017</b> |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |    |
| * Fluoride                               | 9/25/19 11:11 | 9/25/19 11:11       |          | 1                                   | Not Detected | mg/L  | 0.05   | 0.1    | U  |
| <b>Analytical Method: SM4500SO4 E</b>    |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |    |
| * Sulfate                                | 9/26/19 11:59 | 9/26/19 11:59       |          | 1                                   | 3.43         | mg/L  | 0.50   | 1      |    |

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

**Comments:** TDS result is qualified due to sample was filtered outside of hold time. LBM 10/7/19

# Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/16/19 10:53  
**Customer ID:**  
**Delivery Date:** 9/19/19 11:06

**Description:** Gaston Ash Pond - MW-10 dup

**Laboratory ID Number:** AZ21222

| Sample  | Analysis               | Units | MB         |           |       |         | MS      | MSD     | LCS              | LCS<br>Limit | Rec       |        | Prec<br>Limit |
|---------|------------------------|-------|------------|-----------|-------|---------|---------|---------|------------------|--------------|-----------|--------|---------------|
|         |                        |       | MB         | Limit     | Spike |         |         |         |                  |              | Rec       | Limit  |               |
| AZ21222 | Arsenic, Total         | mg/L  | 0.0000551  | 0.0001474 | 0.10  | 0.102   | 0.105   | 0.107   | 0.085 to 0.115   | 102          | 70 to 130 | 2.21   | 20            |
| AZ21222 | Barium, Total          | mg/L  | 0.0000103  | 0.0002    | 0.10  | 0.119   | 0.116   | 0.106   | 0.085 to 0.115   | 105          | 70 to 130 | 2.20   | 20            |
| AZ21222 | Beryllium, Total       | mg/L  | 0.0000121  | 0.00088   | 0.10  | 0.101   | 0.100   | 0.0998  | 0.085 to 0.115   | 101          | 70 to 130 | 0.962  | 20            |
| AZ21222 | Cadmium, Total         | mg/L  | 0.00000000 | 0.0001474 | 0.10  | 0.106   | 0.106   | 0.107   | 0.085 to 0.115   | 106          | 70 to 130 | 0.0410 | 20            |
| AZ21222 | Cobalt, Total          | mg/L  | 0.00000184 | 0.0001474 | 0.10  | 0.105   | 0.107   | 0.108   | 0.085 to 0.115   | 105          | 70 to 130 | 2.07   | 20            |
| AZ21222 | Chromium, Total        | mg/L  | 0.0000142  | 0.00044   | 0.10  | 0.102   | 0.104   | 0.104   | 0.085 to 0.115   | 102          | 70 to 130 | 2.00   | 20            |
| AZ21222 | Mercury, Total by CVAA | mg/L  | 0.0000260  | 0.0005    | 0.004 | 0.00423 | 0.00415 | 0.00398 | 0.0034 to 0.0046 | 106          | 70 to 130 | 1.89   | 20            |
| AZ21222 | Molybdenum, Total      | mg/L  | 0.0000162  | 0.0001474 | 0.10  | 0.0998  | 0.101   | 0.103   | 0.085 to 0.115   | 99.8         | 70 to 130 | 1.20   | 20            |
| AZ21222 | Lead, Total            | mg/L  | 0.00000492 | 0.0001474 | 0.10  | 0.111   | 0.107   | 0.106   | 0.085 to 0.115   | 111          | 70 to 130 | 4.05   | 20            |
| AZ21222 | Antimony, Total        | mg/L  | 0.000217   | 0.00066   | 0.10  | 0.100   | 0.101   | 0.103   | 0.085 to 0.115   | 100          | 70 to 130 | 0.433  | 20            |
| AZ21222 | Selenium, Total        | mg/L  | 0.0000469  | 0.00066   | 0.10  | 0.108   | 0.108   | 0.109   | 0.085 to 0.115   | 108          | 70 to 130 | 0.244  | 20            |
| AZ21222 | Thallium, Total        | mg/L  | 0.00000043 | 0.0001474 | 0.10  | 0.117   | 0.112   | 0.112   | 0.085 to 0.115   | 117          | 70 to 130 | 4.42   | 20            |
| AZ21231 | Boron, Total           | mg/L  | -0.0000813 | 0.0650254 | 1.00  | 1.00    | 0.994   | 0.981   | 0.85 to 1.15     | 100          | 70 to 130 | 0.823  | 20            |
| AZ21231 | Calcium, Total         | mg/L  | -0.000654  | 0.1518    | 5.00  | 40.2    | 40.2    | 5.01    | 4.25 to 5.75     | 104          | 70 to 130 | 0.00   | 20            |
| AZ21231 | Lithium, Total         | mg/L  | -0.0000164 | 0.0154    | 0.20  | 0.207   | 0.207   | 0.196   | 0.17 to 0.23     | 104          | 70 to 130 | 0.364  | 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:** TDS result is qualified due to sample was filtered outside of hold time. LBM 10/7/19

## Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/16/19 10:53  
**Customer ID:**  
**Delivery Date:** 9/19/19 11:06

**Description:** Gaston Ash Pond - MW-10 dup

**Laboratory ID Number:** AZ21222

| Sample  | Analysis          | Units | MB      | MB    |       | MS   | MSD    | LCS  | LCS          |      | Rec       |       | Prec |
|---------|-------------------|-------|---------|-------|-------|------|--------|------|--------------|------|-----------|-------|------|
|         |                   |       |         | Limit | Spike |      |        |      | Limit        | Rec  | Limit     | Prec  |      |
| AZ21201 | Solids, Dissolved | mg/L  | 0.0000  | 25    | 50.0  |      | 412    | 50.0 | 40 to 60     | 100  | 80 to 120 | 0.00  | 5    |
| AZ21230 | Chloride          | mg/L  | -0.0199 | 0.50  | 10.0  | 12.1 | 1.99   | 9.98 | 9 to 11      | 102  | 80 to 120 | 3.06  | 20   |
| AZ21230 | Fluoride          | mg/L  | 0.0218  | 0.05  | 2.50  | 2.55 | 0.0433 | 2.62 | 2.25 to 2.75 | 102  | 80 to 120 | 0.00  | 20   |
| AZ21230 | Sulfate           | mg/L  | -0.402  | 0.50  | 20.0  | 24.0 | 4.48   | 19.1 | 18 to 22     | 97.4 | 80 to 120 | 0.667 | 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:** TDS result is qualified due to sample was filtered outside of hold time. LBM 10/7/19

# Certificate Of Analysis

**Description:** Gaston Ash Pond - MW-11

**Location Code:** WMWGASAP  
**Collected:** 9/16/19 12:35  
**Customer ID:**  
**Submittal Date:** 9/19/19 11:06

**Laboratory ID Number:** AZ21223

| Name                                     | Prepared      | Analyzed            | Vio Spec | DF                                  | Results      | Units | MDL    | RL     | Q  |
|------------------------------------------|---------------|---------------------|----------|-------------------------------------|--------------|-------|--------|--------|----|
| <b>Analytical Method: EPA 200.7</b>      |               | <b>Analyst: RDA</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |    |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 12:01       |          | 1.015                               | 0.207        | mg/L  | 0.03   | 0.1    |    |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 12:01       |          | 1.015                               | 40.2         | mg/L  | 0.1    | 0.5    |    |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 12:01       |          | 1.015                               | Not Detected | mg/L  | 0.01   | 0.02   | U  |
| <b>Analytical Method: EPA 200.8</b>      |               | <b>Analyst: DLJ</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |    |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 14:44       |          | 1.015                               | Not Detected | mg/L  | 0.0008 | 0.003  | U  |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 14:44       |          | 1.015                               | Not Detected | mg/L  | 0.001  | 0.005  | U  |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 14:44       |          | 1.015                               | 0.00956      | mg/L  | 0.002  | 0.01   | J  |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 14:44       |          | 1.015                               | Not Detected | mg/L  | 0.0006 | 0.003  | U  |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 14:44       |          | 1.015                               | Not Detected | mg/L  | 0.0003 | 0.001  | U  |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 14:44       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U  |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 14:44       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.005  | U  |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 14:44       |          | 1.015                               | Not Detected | mg/L  | 0.001  | 0.005  | U  |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 14:44       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U  |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 14:44       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U  |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 14:44       |          | 1.015                               | Not Detected | mg/L  | 0.0002 | 0.001  | U  |
| <b>Analytical Method: EPA 245.1</b>      |               | <b>Analyst: GAS</b> |          |                                     |              |       |        |        |    |
| * Mercury, Total by CVAA                 | 9/25/19 10:20 | 9/26/19 10:18       |          | 1                                   | Not Detected | mg/L  | 0.0003 | 0.0005 | U  |
| <b>Analytical Method: SM 2540C</b>       |               | <b>Analyst: TJW</b> |          |                                     |              |       |        |        |    |
| * Solids, Dissolved                      | 9/23/19 14:40 | 9/25/19 09:15       |          | 1                                   | 207          | mg/L  |        | 25     | HT |
| <b>Analytical Method: SM4500Cl E</b>     |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |    |
| * Chloride                               | 9/24/19 11:21 | 9/24/19 11:21       |          | 1                                   | 6.49         | mg/L  | 0.50   | 1      |    |
| <b>Analytical Method: SM4500F G 2017</b> |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |    |
| * Fluoride                               | 9/25/19 11:12 | 9/25/19 11:12       |          | 1                                   | Not Detected | mg/L  | 0.05   | 0.1    | U  |
| <b>Analytical Method: SM4500SO4 E</b>    |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |    |
| * Sulfate                                | 9/26/19 11:49 | 9/26/19 11:49       |          | 10                                  | 49.2         | mg/L  | 5.00   | 10     |    |

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

**Comments:** TDS result is qualified due to sample was filtered outside of hold time. LBM 10/7/19



# Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/16/19 12:35  
**Customer ID:**  
**Delivery Date:** 9/19/19 11:06

**Description:** Gaston Ash Pond - MW-11

**Laboratory ID Number:** AZ21223

| Sample  | Analysis               | Units | MB         |           | Spike | MS      | MSD     | LCS     | LCS              |     | Rec   |           | Prec | Limit  |    |
|---------|------------------------|-------|------------|-----------|-------|---------|---------|---------|------------------|-----|-------|-----------|------|--------|----|
|         |                        |       | MB         | Limit     |       |         |         |         | Limit            | Rec | Limit | Prec      |      |        |    |
| AZ21231 | Boron, Total           | mg/L  | -0.0000813 | 0.0650254 | 1.00  | 1.00    | 0.994   | 0.981   | 0.85 to 1.15     |     | 100   | 70 to 130 |      | 0.823  | 20 |
| AZ21231 | Calcium, Total         | mg/L  | -0.000654  | 0.1518    | 5.00  | 40.2    | 40.2    | 5.01    | 4.25 to 5.75     |     | 104   | 70 to 130 |      | 0.00   | 20 |
| AZ21231 | Lithium, Total         | mg/L  | -0.0000164 | 0.0154    | 0.20  | 0.207   | 0.207   | 0.196   | 0.17 to 0.23     |     | 104   | 70 to 130 |      | 0.364  | 20 |
| AZ21232 | Arsenic, Total         | mg/L  | 0.00000551 | 0.0001474 | 0.10  | 0.111   | 0.107   | 0.107   | 0.085 to 0.115   |     | 108   | 70 to 130 |      | 3.89   | 20 |
| AZ21232 | Barium, Total          | mg/L  | 0.0000103  | 0.0002    | 0.10  | 0.127   | 0.127   | 0.106   | 0.085 to 0.115   |     | 106   | 70 to 130 |      | 0.101  | 20 |
| AZ21232 | Beryllium, Total       | mg/L  | 0.0000121  | 0.00088   | 0.10  | 0.101   | 0.0989  | 0.0998  | 0.085 to 0.115   |     | 101   | 70 to 130 |      | 2.00   | 20 |
| AZ21232 | Cadmium, Total         | mg/L  | 0.00000000 | 0.0001474 | 0.10  | 0.105   | 0.106   | 0.107   | 0.085 to 0.115   |     | 105   | 70 to 130 |      | 0.941  | 20 |
| AZ21232 | Cobalt, Total          | mg/L  | 0.00000184 | 0.0001474 | 0.10  | 0.104   | 0.105   | 0.108   | 0.085 to 0.115   |     | 104   | 70 to 130 |      | 0.396  | 20 |
| AZ21232 | Chromium, Total        | mg/L  | 0.0000142  | 0.00044   | 0.10  | 0.102   | 0.103   | 0.104   | 0.085 to 0.115   |     | 102   | 70 to 130 |      | 0.645  | 20 |
| AZ21232 | Mercury, Total by CVAA | mg/L  | 0.00000142 | 0.0005    | 0.004 | 0.00423 | 0.00412 | 0.00431 | 0.0034 to 0.0046 |     | 106   | 70 to 130 |      | 2.50   | 20 |
| AZ21232 | Molybdenum, Total      | mg/L  | 0.0000162  | 0.0001474 | 0.10  | 0.113   | 0.114   | 0.103   | 0.085 to 0.115   |     | 100   | 70 to 130 |      | 0.605  | 20 |
| AZ21232 | Lead, Total            | mg/L  | 0.00000492 | 0.0001474 | 0.10  | 0.107   | 0.108   | 0.106   | 0.085 to 0.115   |     | 107   | 70 to 130 |      | 0.134  | 20 |
| AZ21232 | Antimony, Total        | mg/L  | 0.000217   | 0.00066   | 0.10  | 0.105   | 0.107   | 0.103   | 0.085 to 0.115   |     | 105   | 70 to 130 |      | 2.13   | 20 |
| AZ21232 | Selenium, Total        | mg/L  | 0.0000469  | 0.00066   | 0.10  | 0.109   | 0.109   | 0.109   | 0.085 to 0.115   |     | 109   | 70 to 130 |      | 0.407  | 20 |
| AZ21232 | Thallium, Total        | mg/L  | 0.00000043 | 0.0001474 | 0.10  | 0.114   | 0.114   | 0.112   | 0.085 to 0.115   |     | 114   | 70 to 130 |      | 0.0950 | 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:** TDS result is qualified due to sample was filtered outside of hold time. LBM 10/7/19

## Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/16/19 12:35  
**Customer ID:**  
**Delivery Date:** 9/19/19 11:06

**Description:** Gaston Ash Pond - MW-11

**Laboratory ID Number:** AZ21223

| Sample  | Analysis          | Units | MB      | MB    |       | MS   | MSD    | LCS  | LCS          |      | Rec       |       | Prec |
|---------|-------------------|-------|---------|-------|-------|------|--------|------|--------------|------|-----------|-------|------|
|         |                   |       |         | Limit | Spike |      |        |      | Limit        | Rec  | Limit     | Prec  |      |
| AZ21195 | Solids, Dissolved | mg/L  | 0.0000  | 25    | 50.0  |      | 682    | 50.0 | 40 to 60     | 100  | 80 to 120 | 0.147 | 5    |
| AZ21230 | Chloride          | mg/L  | -0.0199 | 0.50  | 10.0  | 12.1 | 1.99   | 9.98 | 9 to 11      | 102  | 80 to 120 | 3.06  | 20   |
| AZ21230 | Fluoride          | mg/L  | 0.0218  | 0.05  | 2.50  | 2.55 | 0.0433 | 2.62 | 2.25 to 2.75 | 102  | 80 to 120 | 0.00  | 20   |
| AZ21230 | Sulfate           | mg/L  | -0.402  | 0.50  | 20.0  | 24.0 | 4.48   | 19.1 | 18 to 22     | 97.4 | 80 to 120 | 0.667 | 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:** TDS result is qualified due to sample was filtered outside of hold time. LBM 10/7/19

# Certificate Of Analysis

**Description:** Gaston Ash Pond - MW-12

**Location Code:** WMWGASAP  
**Collected:** 9/16/19 15:10  
**Customer ID:**  
**Submittal Date:** 9/19/19 11:06

**Laboratory ID Number:** AZ21224

| Name                                     | Prepared      | Analyzed            | Vio Spec | DF    | Results                             | Units | MDL    | RL     | Q |
|------------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|--------|--------|---|
| <b>Analytical Method: EPA 200.7</b>      |               | <b>Analyst: RDA</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 12:04       |          | 1.015 | 0.423                               | mg/L  | 0.03   | 0.1    |   |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 13:51       |          | 10.15 | 69.5                                | mg/L  | 1.015  | 5.075  |   |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 12:04       |          | 1.015 | Not Detected                        | mg/L  | 0.01   | 0.02   | U |
| <b>Analytical Method: EPA 200.8</b>      |               | <b>Analyst: DLJ</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 14:47       |          | 1.015 | Not Detected                        | mg/L  | 0.0008 | 0.003  | U |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 14:47       |          | 1.015 | 0.00538                             | mg/L  | 0.001  | 0.005  |   |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 14:47       |          | 1.015 | 0.0819                              | mg/L  | 0.002  | 0.01   |   |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 14:47       |          | 1.015 | Not Detected                        | mg/L  | 0.0006 | 0.003  | U |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 14:47       |          | 1.015 | Not Detected                        | mg/L  | 0.0003 | 0.001  | U |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 14:47       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 14:47       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.005  | U |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 14:47       |          | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 14:47       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 14:47       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 14:47       |          | 1.015 | Not Detected                        | mg/L  | 0.0002 | 0.001  | U |
| <b>Analytical Method: EPA 245.1</b>      |               | <b>Analyst: GAS</b> |          |       |                                     |       |        |        |   |
| * Mercury, Total by CVAA                 | 9/25/19 10:20 | 9/26/19 10:21       |          | 1     | Not Detected                        | mg/L  | 0.0003 | 0.0005 | U |
| <b>Analytical Method: SM 2540C</b>       |               | <b>Analyst: TJW</b> |          |       |                                     |       |        |        |   |
| * Solids, Dissolved                      | 9/23/19 14:40 | 9/25/19 09:15       |          | 1     | 377                                 | mg/L  |        | 25     |   |
| <b>Analytical Method: SM4500CI E</b>     |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |   |
| * Chloride                               | 9/24/19 11:23 | 9/24/19 11:23       |          | 1     | 19.8                                | mg/L  | 0.50   | 1      |   |
| <b>Analytical Method: SM4500F G 2017</b> |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |   |
| * Fluoride                               | 9/25/19 11:13 | 9/25/19 11:13       |          | 1     | 0.0538                              | mg/L  | 0.05   | 0.1    | J |
| <b>Analytical Method: SM4500SO4 E</b>    |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |   |
| * Sulfate                                | 9/26/19 11:50 | 9/26/19 11:50       |          | 10    | 108                                 | mg/L  | 5.00   | 10     |   |

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

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/16/19 15:10  
**Customer ID:**  
**Delivery Date:** 9/19/19 11:06

**Description:** Gaston Ash Pond - MW-12

**Laboratory ID Number:** AZ21224

| Sample  | Analysis               | Units | MB         |           | MS    | MSD     | LCS     | LCS     |                  | Rec   |           | Prec   | Limit |
|---------|------------------------|-------|------------|-----------|-------|---------|---------|---------|------------------|-------|-----------|--------|-------|
|         |                        |       | MB         | Limit     |       |         |         | Limit   | Rec              | Limit | Prec      |        |       |
| AZ21231 | Boron, Total           | mg/L  | -0.0000813 | 0.0650254 | 1.00  | 1.00    | 0.994   | 0.981   | 0.85 to 1.15     | 100   | 70 to 130 | 0.823  | 20    |
| AZ21231 | Calcium, Total         | mg/L  | -0.000654  | 0.1518    | 5.00  | 40.2    | 40.2    | 5.01    | 4.25 to 5.75     | 104   | 70 to 130 | 0.00   | 20    |
| AZ21231 | Lithium, Total         | mg/L  | -0.0000164 | 0.0154    | 0.20  | 0.207   | 0.207   | 0.196   | 0.17 to 0.23     | 104   | 70 to 130 | 0.364  | 20    |
| AZ21232 | Arsenic, Total         | mg/L  | 0.00000551 | 0.0001474 | 0.10  | 0.111   | 0.107   | 0.107   | 0.085 to 0.115   | 108   | 70 to 130 | 3.89   | 20    |
| AZ21232 | Barium, Total          | mg/L  | 0.0000103  | 0.0002    | 0.10  | 0.127   | 0.127   | 0.106   | 0.085 to 0.115   | 106   | 70 to 130 | 0.101  | 20    |
| AZ21232 | Beryllium, Total       | mg/L  | 0.0000121  | 0.00088   | 0.10  | 0.101   | 0.0989  | 0.0998  | 0.085 to 0.115   | 101   | 70 to 130 | 2.00   | 20    |
| AZ21232 | Cadmium, Total         | mg/L  | 0.00000000 | 0.0001474 | 0.10  | 0.105   | 0.106   | 0.107   | 0.085 to 0.115   | 105   | 70 to 130 | 0.941  | 20    |
| AZ21232 | Cobalt, Total          | mg/L  | 0.00000184 | 0.0001474 | 0.10  | 0.104   | 0.105   | 0.108   | 0.085 to 0.115   | 104   | 70 to 130 | 0.396  | 20    |
| AZ21232 | Chromium, Total        | mg/L  | 0.0000142  | 0.00044   | 0.10  | 0.102   | 0.103   | 0.104   | 0.085 to 0.115   | 102   | 70 to 130 | 0.645  | 20    |
| AZ21232 | Mercury, Total by CVAA | mg/L  | 0.00000142 | 0.0005    | 0.004 | 0.00423 | 0.00412 | 0.00431 | 0.0034 to 0.0046 | 106   | 70 to 130 | 2.50   | 20    |
| AZ21232 | Molybdenum, Total      | mg/L  | 0.0000162  | 0.0001474 | 0.10  | 0.113   | 0.114   | 0.103   | 0.085 to 0.115   | 100   | 70 to 130 | 0.605  | 20    |
| AZ21232 | Lead, Total            | mg/L  | 0.00000492 | 0.0001474 | 0.10  | 0.107   | 0.108   | 0.106   | 0.085 to 0.115   | 107   | 70 to 130 | 0.134  | 20    |
| AZ21232 | Antimony, Total        | mg/L  | 0.000217   | 0.00066   | 0.10  | 0.105   | 0.107   | 0.103   | 0.085 to 0.115   | 105   | 70 to 130 | 2.13   | 20    |
| AZ21232 | Selenium, Total        | mg/L  | 0.0000469  | 0.00066   | 0.10  | 0.109   | 0.109   | 0.109   | 0.085 to 0.115   | 109   | 70 to 130 | 0.407  | 20    |
| AZ21232 | Thallium, Total        | mg/L  | 0.00000043 | 0.0001474 | 0.10  | 0.114   | 0.114   | 0.112   | 0.085 to 0.115   | 114   | 70 to 130 | 0.0950 | 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:** WMWGASAP

**Sample Date:** 9/16/19 15:10

**Customer ID:**

**Delivery Date:** 9/19/19 11:06

**Description:** Gaston Ash Pond - MW-12

**Laboratory ID Number:** AZ21224

| Sample  | Analysis          | Units | MB      | MB    |       | MS   | MSD    | LCS  | LCS          |      | Rec       |       | Prec |
|---------|-------------------|-------|---------|-------|-------|------|--------|------|--------------|------|-----------|-------|------|
|         |                   |       |         | Limit | Spike |      |        |      | Limit        | Rec  | Limit     | Prec  |      |
| AZ21195 | Solids, Dissolved | mg/L  | 0.0000  | 25    | 50.0  |      | 682    | 50.0 | 40 to 60     | 100  | 80 to 120 | 0.147 | 5    |
| AZ21230 | Chloride          | mg/L  | -0.0199 | 0.50  | 10.0  | 12.1 | 1.99   | 9.98 | 9 to 11      | 102  | 80 to 120 | 3.06  | 20   |
| AZ21230 | Fluoride          | mg/L  | 0.0218  | 0.05  | 2.50  | 2.55 | 0.0433 | 2.62 | 2.25 to 2.75 | 102  | 80 to 120 | 0.00  | 20   |
| AZ21230 | Sulfate           | mg/L  | -0.402  | 0.50  | 20.0  | 24.0 | 4.48   | 19.1 | 18 to 22     | 97.4 | 80 to 120 | 0.667 | 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:** Gaston Ash Pond Field Blank

**Location Code:** WMWGASAPFB  
**Collected:** 9/16/19 15:29  
**Customer ID:**  
**Submittal Date:** 9/19/19 11:06

**Laboratory ID Number:** AZ21225

| Name                                     | Prepared      | Analyzed      | Vio Spec            | DF    | Results                             | Units | MDL    | RL     | Q |
|------------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-------|--------|--------|---|
| <b>Analytical Method: EPA 200.7</b>      |               |               | <b>Analyst: RDA</b> |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 12:07 |                     | 1.015 | Not Detected                        | mg/L  | 0.03   | 0.1    | U |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 12:07 |                     | 1.015 | Not Detected                        | mg/L  | 0.1    | 0.5    | U |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 12:07 |                     | 1.015 | Not Detected                        | mg/L  | 0.01   | 0.02   | U |
| <b>Analytical Method: EPA 200.8</b>      |               |               | <b>Analyst: DLJ</b> |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 14:50 |                     | 1.015 | Not Detected                        | mg/L  | 0.0008 | 0.003  | U |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 14:50 |                     | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 14:50 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 14:50 |                     | 1.015 | Not Detected                        | mg/L  | 0.0006 | 0.003  | U |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 14:50 |                     | 1.015 | Not Detected                        | mg/L  | 0.0003 | 0.001  | U |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 14:50 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 14:50 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.005  | U |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 14:50 |                     | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 14:50 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 14:50 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 14:50 |                     | 1.015 | Not Detected                        | mg/L  | 0.0002 | 0.001  | U |
| <b>Analytical Method: EPA 245.1</b>      |               |               | <b>Analyst: GAS</b> |       |                                     |       |        |        |   |
| * Mercury, Total by CVAA                 | 9/25/19 10:20 | 9/26/19 10:23 |                     | 1     | Not Detected                        | mg/L  | 0.0003 | 0.0005 | U |
| <b>Analytical Method: SM 2540C</b>       |               |               | <b>Analyst: TJW</b> |       |                                     |       |        |        |   |
| * Solids, Dissolved                      | 9/23/19 14:40 | 9/25/19 09:15 |                     | 1     | Not Detected                        | mg/L  |        | 25     | U |
| <b>Analytical Method: SM4500CI E</b>     |               |               | <b>Analyst: JCC</b> |       |                                     |       |        |        |   |
| * Chloride                               | 9/24/19 11:24 | 9/24/19 11:24 |                     | 1     | Not Detected                        | mg/L  | 0.50   | 1      | U |
| <b>Analytical Method: SM4500F G 2017</b> |               |               | <b>Analyst: JCC</b> |       |                                     |       |        |        |   |
| * Fluoride                               | 9/25/19 11:15 | 9/25/19 11:15 |                     | 1     | Not Detected                        | mg/L  | 0.05   | 0.1    | U |
| <b>Analytical Method: SM4500SO4 E</b>    |               |               | <b>Analyst: JCC</b> |       |                                     |       |        |        |   |
| * Sulfate                                | 9/26/19 11:52 | 9/26/19 11:52 |                     | 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:** WMWGASAPFB  
**Sample Date:** 9/16/19 15:29  
**Customer ID:**  
**Delivery Date:** 9/19/19 11:06

**Description:** Gaston Ash Pond Field Blank

**Laboratory ID Number:** AZ21225

| Sample  | Analysis               | Units | MB         |           | Spike | MS      | MSD     | LCS     | LCS              |     | Rec   |           | Prec   |    |
|---------|------------------------|-------|------------|-----------|-------|---------|---------|---------|------------------|-----|-------|-----------|--------|----|
|         |                        |       | MB         | Limit     |       |         |         |         | Limit            | Rec | Limit | Prec      |        |    |
| AZ21231 | Boron, Total           | mg/L  | -0.0000813 | 0.0650254 | 1.00  | 1.00    | 0.994   | 0.981   | 0.85 to 1.15     |     | 100   | 70 to 130 | 0.823  | 20 |
| AZ21231 | Calcium, Total         | mg/L  | -0.000654  | 0.1518    | 5.00  | 40.2    | 40.2    | 5.01    | 4.25 to 5.75     |     | 104   | 70 to 130 | 0.00   | 20 |
| AZ21231 | Lithium, Total         | mg/L  | -0.0000164 | 0.0154    | 0.20  | 0.207   | 0.207   | 0.196   | 0.17 to 0.23     |     | 104   | 70 to 130 | 0.364  | 20 |
| AZ21232 | Arsenic, Total         | mg/L  | 0.00000551 | 0.0001474 | 0.10  | 0.111   | 0.107   | 0.107   | 0.085 to 0.115   |     | 108   | 70 to 130 | 3.89   | 20 |
| AZ21232 | Barium, Total          | mg/L  | 0.0000103  | 0.0002    | 0.10  | 0.127   | 0.127   | 0.106   | 0.085 to 0.115   |     | 106   | 70 to 130 | 0.101  | 20 |
| AZ21232 | Beryllium, Total       | mg/L  | 0.0000121  | 0.00088   | 0.10  | 0.101   | 0.0989  | 0.0998  | 0.085 to 0.115   |     | 101   | 70 to 130 | 2.00   | 20 |
| AZ21232 | Cadmium, Total         | mg/L  | 0.00000000 | 0.0001474 | 0.10  | 0.105   | 0.106   | 0.107   | 0.085 to 0.115   |     | 105   | 70 to 130 | 0.941  | 20 |
| AZ21232 | Cobalt, Total          | mg/L  | 0.00000184 | 0.0001474 | 0.10  | 0.104   | 0.105   | 0.108   | 0.085 to 0.115   |     | 104   | 70 to 130 | 0.396  | 20 |
| AZ21232 | Chromium, Total        | mg/L  | 0.0000142  | 0.00044   | 0.10  | 0.102   | 0.103   | 0.104   | 0.085 to 0.115   |     | 102   | 70 to 130 | 0.645  | 20 |
| AZ21232 | Mercury, Total by CVAA | mg/L  | 0.00000142 | 0.0005    | 0.004 | 0.00423 | 0.00412 | 0.00431 | 0.0034 to 0.0046 |     | 106   | 70 to 130 | 2.50   | 20 |
| AZ21232 | Molybdenum, Total      | mg/L  | 0.0000162  | 0.0001474 | 0.10  | 0.113   | 0.114   | 0.103   | 0.085 to 0.115   |     | 100   | 70 to 130 | 0.605  | 20 |
| AZ21232 | Lead, Total            | mg/L  | 0.00000492 | 0.0001474 | 0.10  | 0.107   | 0.108   | 0.106   | 0.085 to 0.115   |     | 107   | 70 to 130 | 0.134  | 20 |
| AZ21232 | Antimony, Total        | mg/L  | 0.000217   | 0.00066   | 0.10  | 0.105   | 0.107   | 0.103   | 0.085 to 0.115   |     | 105   | 70 to 130 | 2.13   | 20 |
| AZ21232 | Selenium, Total        | mg/L  | 0.0000469  | 0.00066   | 0.10  | 0.109   | 0.109   | 0.109   | 0.085 to 0.115   |     | 109   | 70 to 130 | 0.407  | 20 |
| AZ21232 | Thallium, Total        | mg/L  | 0.00000043 | 0.0001474 | 0.10  | 0.114   | 0.114   | 0.112   | 0.085 to 0.115   |     | 114   | 70 to 130 | 0.0950 | 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:** WMWGASAPFB

**Sample Date:** 9/16/19 15:29

**Customer ID:**

**Delivery Date:** 9/19/19 11:06

**Description:** Gaston Ash Pond Field Blank

**Laboratory ID Number:** AZ21225

| Sample  | Analysis          | Units | MB      | MB    |       | MS   | MSD    | LCS  | LCS          |      | Rec       |       | Prec |
|---------|-------------------|-------|---------|-------|-------|------|--------|------|--------------|------|-----------|-------|------|
|         |                   |       |         | Limit | Spike |      |        |      | Limit        | Rec  | Limit     | Prec  |      |
| AZ21195 | Solids, Dissolved | mg/L  | 0.0000  | 25    | 50.0  |      | 682    | 50.0 | 40 to 60     | 100  | 80 to 120 | 0.147 | 5    |
| AZ21230 | Chloride          | mg/L  | -0.0199 | 0.50  | 10.0  | 12.1 | 1.99   | 9.98 | 9 to 11      | 102  | 80 to 120 | 3.06  | 20   |
| AZ21230 | Fluoride          | mg/L  | 0.0218  | 0.05  | 2.50  | 2.55 | 0.0433 | 2.62 | 2.25 to 2.75 | 102  | 80 to 120 | 0.00  | 20   |
| AZ21230 | Sulfate           | mg/L  | -0.402  | 0.50  | 20.0  | 24.0 | 4.48   | 19.1 | 18 to 22     | 97.4 | 80 to 120 | 0.667 | 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:** Gaston Ash Pond - MW-4

**Location Code:** WMWGASAP  
**Collected:** 9/17/19 09:48  
**Customer ID:**  
**Submittal Date:** 9/19/19 11:06

**Laboratory ID Number:** AZ21226

| Name                                     | Prepared      | Analyzed            | Vio Spec | DF    | Results                             | Units | MDL    | RL     | Q |
|------------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|--------|--------|---|
| <b>Analytical Method: EPA 200.7</b>      |               | <b>Analyst: RDA</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 12:10       |          | 1.015 | 0.619                               | mg/L  | 0.03   | 0.1    |   |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 13:54       |          | 10.15 | 69.3                                | mg/L  | 1.015  | 5.075  |   |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 12:10       |          | 1.015 | Not Detected                        | mg/L  | 0.01   | 0.02   | U |
| <b>Analytical Method: EPA 200.8</b>      |               | <b>Analyst: DLJ</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 14:52       |          | 1.015 | Not Detected                        | mg/L  | 0.0008 | 0.003  | U |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 14:52       |          | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 14:52       |          | 1.015 | 0.0344                              | mg/L  | 0.002  | 0.01   |   |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 14:52       |          | 1.015 | Not Detected                        | mg/L  | 0.0006 | 0.003  | U |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 14:52       |          | 1.015 | Not Detected                        | mg/L  | 0.0003 | 0.001  | U |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 14:52       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 14:52       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.005  | U |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 14:52       |          | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 14:52       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 14:52       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 14:52       |          | 1.015 | Not Detected                        | mg/L  | 0.0002 | 0.001  | U |
| <b>Analytical Method: EPA 245.1</b>      |               | <b>Analyst: GAS</b> |          |       |                                     |       |        |        |   |
| * Mercury, Total by CVAA                 | 9/25/19 10:20 | 9/26/19 10:25       |          | 1     | Not Detected                        | mg/L  | 0.0003 | 0.0005 | U |
| <b>Analytical Method: SM 2540C</b>       |               | <b>Analyst: TJW</b> |          |       |                                     |       |        |        |   |
| * Solids, Dissolved                      | 9/23/19 14:40 | 9/25/19 09:15       |          | 1     | 332                                 | mg/L  |        | 25     |   |
| <b>Analytical Method: SM4500Cl E</b>     |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |   |
| * Chloride                               | 9/24/19 11:33 | 9/24/19 11:33       |          | 4     | 37.5                                | mg/L  | 2.00   | 4      |   |
| <b>Analytical Method: SM4500F G 2017</b> |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |   |
| * Fluoride                               | 9/25/19 11:16 | 9/25/19 11:16       |          | 1     | Not Detected                        | mg/L  | 0.05   | 0.1    | U |
| <b>Analytical Method: SM4500SO4 E</b>    |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |   |
| * Sulfate                                | 9/26/19 11:53 | 9/26/19 11:53       |          | 10    | 39.8                                | mg/L  | 5.00   | 10     |   |

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

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/17/19 09:48  
**Customer ID:**  
**Delivery Date:** 9/19/19 11:06

**Description:** Gaston Ash Pond - MW-4

**Laboratory ID Number:** AZ21226

| Sample  | Analysis               | Units | MB         |           |       |         | MS      | MSD     | LCS              | LCS<br>Limit | Rec       |        | Prec<br>Limit |
|---------|------------------------|-------|------------|-----------|-------|---------|---------|---------|------------------|--------------|-----------|--------|---------------|
|         |                        |       | MB         | Limit     | Spike |         |         |         |                  |              | Rec       | Limit  |               |
| AZ21231 | Boron, Total           | mg/L  | -0.0000813 | 0.0650254 | 1.00  | 1.00    | 0.994   | 0.981   | 0.85 to 1.15     | 100          | 70 to 130 | 0.823  | 20            |
| AZ21231 | Calcium, Total         | mg/L  | -0.000654  | 0.1518    | 5.00  | 40.2    | 40.2    | 5.01    | 4.25 to 5.75     | 104          | 70 to 130 | 0.00   | 20            |
| AZ21231 | Lithium, Total         | mg/L  | -0.0000164 | 0.0154    | 0.20  | 0.207   | 0.207   | 0.196   | 0.17 to 0.23     | 104          | 70 to 130 | 0.364  | 20            |
| AZ21232 | Arsenic, Total         | mg/L  | 0.00000551 | 0.0001474 | 0.10  | 0.111   | 0.107   | 0.107   | 0.085 to 0.115   | 108          | 70 to 130 | 3.89   | 20            |
| AZ21232 | Barium, Total          | mg/L  | 0.0000103  | 0.0002    | 0.10  | 0.127   | 0.127   | 0.106   | 0.085 to 0.115   | 106          | 70 to 130 | 0.101  | 20            |
| AZ21232 | Beryllium, Total       | mg/L  | 0.0000121  | 0.00088   | 0.10  | 0.101   | 0.0989  | 0.0998  | 0.085 to 0.115   | 101          | 70 to 130 | 2.00   | 20            |
| AZ21232 | Cadmium, Total         | mg/L  | 0.00000000 | 0.0001474 | 0.10  | 0.105   | 0.106   | 0.107   | 0.085 to 0.115   | 105          | 70 to 130 | 0.941  | 20            |
| AZ21232 | Cobalt, Total          | mg/L  | 0.00000184 | 0.0001474 | 0.10  | 0.104   | 0.105   | 0.108   | 0.085 to 0.115   | 104          | 70 to 130 | 0.396  | 20            |
| AZ21232 | Chromium, Total        | mg/L  | 0.0000142  | 0.00044   | 0.10  | 0.102   | 0.103   | 0.104   | 0.085 to 0.115   | 102          | 70 to 130 | 0.645  | 20            |
| AZ21232 | Mercury, Total by CVAA | mg/L  | 0.00000142 | 0.0005    | 0.004 | 0.00423 | 0.00412 | 0.00431 | 0.0034 to 0.0046 | 106          | 70 to 130 | 2.50   | 20            |
| AZ21232 | Molybdenum, Total      | mg/L  | 0.0000162  | 0.0001474 | 0.10  | 0.113   | 0.114   | 0.103   | 0.085 to 0.115   | 100          | 70 to 130 | 0.605  | 20            |
| AZ21232 | Lead, Total            | mg/L  | 0.00000492 | 0.0001474 | 0.10  | 0.107   | 0.108   | 0.106   | 0.085 to 0.115   | 107          | 70 to 130 | 0.134  | 20            |
| AZ21232 | Antimony, Total        | mg/L  | 0.000217   | 0.00066   | 0.10  | 0.105   | 0.107   | 0.103   | 0.085 to 0.115   | 105          | 70 to 130 | 2.13   | 20            |
| AZ21232 | Selenium, Total        | mg/L  | 0.0000469  | 0.00066   | 0.10  | 0.109   | 0.109   | 0.109   | 0.085 to 0.115   | 109          | 70 to 130 | 0.407  | 20            |
| AZ21232 | Thallium, Total        | mg/L  | 0.00000043 | 0.0001474 | 0.10  | 0.114   | 0.114   | 0.112   | 0.085 to 0.115   | 114          | 70 to 130 | 0.0950 | 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:** WMWGASAP  
**Sample Date:** 9/17/19 09:48  
**Customer ID:**  
**Delivery Date:** 9/19/19 11:06

**Description:** Gaston Ash Pond - MW-4

**Laboratory ID Number:** AZ21226

| Sample  | Analysis          | Units | MB      | MB    |       | MS   | MSD    | LCS  | LCS          |      | Rec       |       | Prec |
|---------|-------------------|-------|---------|-------|-------|------|--------|------|--------------|------|-----------|-------|------|
|         |                   |       |         | Limit | Spike |      |        |      | Limit        | Rec  | Limit     | Prec  |      |
| AZ21195 | Solids, Dissolved | mg/L  | 0.0000  | 25    | 50.0  |      | 682    | 50.0 | 40 to 60     | 100  | 80 to 120 | 0.147 | 5    |
| AZ21230 | Chloride          | mg/L  | -0.0199 | 0.50  | 10.0  | 12.1 | 1.99   | 9.98 | 9 to 11      | 102  | 80 to 120 | 3.06  | 20   |
| AZ21230 | Fluoride          | mg/L  | 0.0218  | 0.05  | 2.50  | 2.55 | 0.0433 | 2.62 | 2.25 to 2.75 | 102  | 80 to 120 | 0.00  | 20   |
| AZ21230 | Sulfate           | mg/L  | -0.402  | 0.50  | 20.0  | 24.0 | 4.48   | 19.1 | 18 to 22     | 97.4 | 80 to 120 | 0.667 | 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:** Gaston Ash Pond - MW-9

**Location Code:** WMWGASAP  
**Collected:** 9/17/19 11:42  
**Customer ID:**  
**Submittal Date:** 9/19/19 11:06

**Laboratory ID Number:** AZ21227

| Name                                     | Prepared      | Analyzed            | Vio Spec | DF    | Results                             | Units | MDL    | RL     | Q |
|------------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|--------|--------|---|
| <b>Analytical Method: EPA 200.7</b>      |               | <b>Analyst: RDA</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 12:13       |          | 1.015 | Not Detected                        | mg/L  | 0.03   | 0.1    | U |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 12:13       |          | 1.015 | 32.7                                | mg/L  | 0.1    | 0.5    |   |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 12:13       |          | 1.015 | Not Detected                        | mg/L  | 0.01   | 0.02   | U |
| <b>Analytical Method: EPA 200.8</b>      |               | <b>Analyst: DLJ</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 14:55       |          | 1.015 | Not Detected                        | mg/L  | 0.0008 | 0.003  | U |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 14:55       |          | 1.015 | 0.00324                             | mg/L  | 0.001  | 0.005  | J |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 14:55       |          | 1.015 | 0.118                               | mg/L  | 0.002  | 0.01   |   |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 14:55       |          | 1.015 | Not Detected                        | mg/L  | 0.0006 | 0.003  | U |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 14:55       |          | 1.015 | Not Detected                        | mg/L  | 0.0003 | 0.001  | U |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 14:55       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 14:55       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.005  | U |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 14:55       |          | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 14:55       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 14:55       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 14:55       |          | 1.015 | Not Detected                        | mg/L  | 0.0002 | 0.001  | U |
| <b>Analytical Method: EPA 245.1</b>      |               | <b>Analyst: GAS</b> |          |       |                                     |       |        |        |   |
| * Mercury, Total by CVAA                 | 9/25/19 10:20 | 9/26/19 10:28       |          | 1     | Not Detected                        | mg/L  | 0.0003 | 0.0005 | U |
| <b>Analytical Method: SM 2540C</b>       |               | <b>Analyst: TJW</b> |          |       |                                     |       |        |        |   |
| * Solids, Dissolved                      | 9/23/19 14:40 | 9/25/19 09:15       |          | 1     | 207                                 | mg/L  |        | 25     |   |
| <b>Analytical Method: SM4500CI E</b>     |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |   |
| * Chloride                               | 9/24/19 11:26 | 9/24/19 11:26       |          | 1     | 8.59                                | mg/L  | 0.50   | 1      |   |
| <b>Analytical Method: SM4500F G 2017</b> |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |   |
| * Fluoride                               | 9/25/19 11:17 | 9/25/19 11:17       |          | 1     | 0.128                               | mg/L  | 0.05   | 0.1    |   |
| <b>Analytical Method: SM4500SO4 E</b>    |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |   |
| * Sulfate                                | 9/26/19 12:00 | 9/26/19 12:00       |          | 1     | 13.9                                | mg/L  | 0.50   | 1      |   |

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

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/17/19 11:42  
**Customer ID:**  
**Delivery Date:** 9/19/19 11:06

**Description:** Gaston Ash Pond - MW-9

**Laboratory ID Number:** AZ21227

| Sample  | Analysis               | Units | MB         |           | MS    | MSD     | LCS     | LCS     |                  | Rec   |           | Prec   | Limit |
|---------|------------------------|-------|------------|-----------|-------|---------|---------|---------|------------------|-------|-----------|--------|-------|
|         |                        |       | MB         | Limit     |       |         |         | Limit   | Rec              | Limit | Prec      |        |       |
| AZ21231 | Boron, Total           | mg/L  | -0.0000813 | 0.0650254 | 1.00  | 1.00    | 0.994   | 0.981   | 0.85 to 1.15     | 100   | 70 to 130 | 0.823  | 20    |
| AZ21231 | Calcium, Total         | mg/L  | -0.000654  | 0.1518    | 5.00  | 40.2    | 40.2    | 5.01    | 4.25 to 5.75     | 104   | 70 to 130 | 0.00   | 20    |
| AZ21231 | Lithium, Total         | mg/L  | -0.0000164 | 0.0154    | 0.20  | 0.207   | 0.207   | 0.196   | 0.17 to 0.23     | 104   | 70 to 130 | 0.364  | 20    |
| AZ21232 | Arsenic, Total         | mg/L  | 0.00000551 | 0.0001474 | 0.10  | 0.111   | 0.107   | 0.107   | 0.085 to 0.115   | 108   | 70 to 130 | 3.89   | 20    |
| AZ21232 | Barium, Total          | mg/L  | 0.0000103  | 0.0002    | 0.10  | 0.127   | 0.127   | 0.106   | 0.085 to 0.115   | 106   | 70 to 130 | 0.101  | 20    |
| AZ21232 | Beryllium, Total       | mg/L  | 0.0000121  | 0.00088   | 0.10  | 0.101   | 0.0989  | 0.0998  | 0.085 to 0.115   | 101   | 70 to 130 | 2.00   | 20    |
| AZ21232 | Cadmium, Total         | mg/L  | 0.00000000 | 0.0001474 | 0.10  | 0.105   | 0.106   | 0.107   | 0.085 to 0.115   | 105   | 70 to 130 | 0.941  | 20    |
| AZ21232 | Cobalt, Total          | mg/L  | 0.00000184 | 0.0001474 | 0.10  | 0.104   | 0.105   | 0.108   | 0.085 to 0.115   | 104   | 70 to 130 | 0.396  | 20    |
| AZ21232 | Chromium, Total        | mg/L  | 0.0000142  | 0.00044   | 0.10  | 0.102   | 0.103   | 0.104   | 0.085 to 0.115   | 102   | 70 to 130 | 0.645  | 20    |
| AZ21232 | Mercury, Total by CVAA | mg/L  | 0.00000142 | 0.0005    | 0.004 | 0.00423 | 0.00412 | 0.00431 | 0.0034 to 0.0046 | 106   | 70 to 130 | 2.50   | 20    |
| AZ21232 | Molybdenum, Total      | mg/L  | 0.0000162  | 0.0001474 | 0.10  | 0.113   | 0.114   | 0.103   | 0.085 to 0.115   | 100   | 70 to 130 | 0.605  | 20    |
| AZ21232 | Lead, Total            | mg/L  | 0.00000492 | 0.0001474 | 0.10  | 0.107   | 0.108   | 0.106   | 0.085 to 0.115   | 107   | 70 to 130 | 0.134  | 20    |
| AZ21232 | Antimony, Total        | mg/L  | 0.000217   | 0.00066   | 0.10  | 0.105   | 0.107   | 0.103   | 0.085 to 0.115   | 105   | 70 to 130 | 2.13   | 20    |
| AZ21232 | Selenium, Total        | mg/L  | 0.0000469  | 0.00066   | 0.10  | 0.109   | 0.109   | 0.109   | 0.085 to 0.115   | 109   | 70 to 130 | 0.407  | 20    |
| AZ21232 | Thallium, Total        | mg/L  | 0.00000043 | 0.0001474 | 0.10  | 0.114   | 0.114   | 0.112   | 0.085 to 0.115   | 114   | 70 to 130 | 0.0950 | 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:** WMWGASAP  
**Sample Date:** 9/17/19 11:42  
**Customer ID:**  
**Delivery Date:** 9/19/19 11:06

**Description:** Gaston Ash Pond - MW-9

**Laboratory ID Number:** AZ21227

| Sample  | Analysis          | Units | MB      | MB    |       | MS   | MSD    | LCS  | LCS          |      | Rec       |       | Prec |
|---------|-------------------|-------|---------|-------|-------|------|--------|------|--------------|------|-----------|-------|------|
|         |                   |       |         | Limit | Spike |      |        |      | Limit        | Rec  | Limit     | Prec  |      |
| AZ21195 | Solids, Dissolved | mg/L  | 0.0000  | 25    | 50.0  |      | 682    | 50.0 | 40 to 60     | 100  | 80 to 120 | 0.147 | 5    |
| AZ21230 | Chloride          | mg/L  | -0.0199 | 0.50  | 10.0  | 12.1 | 1.99   | 9.98 | 9 to 11      | 102  | 80 to 120 | 3.06  | 20   |
| AZ21230 | Fluoride          | mg/L  | 0.0218  | 0.05  | 2.50  | 2.55 | 0.0433 | 2.62 | 2.25 to 2.75 | 102  | 80 to 120 | 0.00  | 20   |
| AZ21230 | Sulfate           | mg/L  | -0.402  | 0.50  | 20.0  | 24.0 | 4.48   | 19.1 | 18 to 22     | 97.4 | 80 to 120 | 0.667 | 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:** Gaston Ash Pond - MW-8

**Location Code:** WMWGASAP  
**Collected:** 9/17/19 13:20  
**Customer ID:**  
**Submittal Date:** 9/19/19 11:06

**Laboratory ID Number:** AZ21228

| Name                                     | Prepared      | Analyzed            | Vio Spec | DF    | Results                             | Units | MDL    | RL     | Q |
|------------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|--------|--------|---|
| <b>Analytical Method: EPA 200.7</b>      |               | <b>Analyst: RDA</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 12:16       |          | 1.015 | 0.0439                              | mg/L  | 0.03   | 0.1    | J |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 13:57       |          | 10.15 | 54.5                                | mg/L  | 1.015  | 5.075  |   |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 12:16       |          | 1.015 | Not Detected                        | mg/L  | 0.01   | 0.02   | U |
| <b>Analytical Method: EPA 200.8</b>      |               | <b>Analyst: DLJ</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 14:58       |          | 1.015 | Not Detected                        | mg/L  | 0.0008 | 0.003  | U |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 14:58       |          | 1.015 | 0.00112                             | mg/L  | 0.001  | 0.005  | J |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 14:58       |          | 1.015 | 0.0202                              | mg/L  | 0.002  | 0.01   |   |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 14:58       |          | 1.015 | Not Detected                        | mg/L  | 0.0006 | 0.003  | U |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 14:58       |          | 1.015 | Not Detected                        | mg/L  | 0.0003 | 0.001  | U |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 14:58       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 14:58       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.005  | U |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 14:58       |          | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 14:58       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 14:58       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 14:58       |          | 1.015 | Not Detected                        | mg/L  | 0.0002 | 0.001  | U |
| <b>Analytical Method: EPA 245.1</b>      |               | <b>Analyst: GAS</b> |          |       |                                     |       |        |        |   |
| * Mercury, Total by CVAA                 | 9/25/19 10:20 | 9/26/19 10:30       |          | 1     | Not Detected                        | mg/L  | 0.0003 | 0.0005 | U |
| <b>Analytical Method: SM 2540C</b>       |               | <b>Analyst: TJW</b> |          |       |                                     |       |        |        |   |
| * Solids, Dissolved                      | 9/23/19 14:40 | 9/25/19 09:15       |          | 1     | 257                                 | mg/L  |        | 25     |   |
| <b>Analytical Method: SM4500Cl E</b>     |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |   |
| * Chloride                               | 9/24/19 11:27 | 9/24/19 11:27       |          | 1     | 3.96                                | mg/L  | 0.50   | 1      |   |
| <b>Analytical Method: SM4500F G 2017</b> |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |   |
| * Fluoride                               | 9/25/19 11:18 | 9/25/19 11:18       |          | 1     | 0.0971                              | mg/L  | 0.05   | 0.1    | J |
| <b>Analytical Method: SM4500SO4 E</b>    |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |   |
| * Sulfate                                | 9/26/19 12:01 | 9/26/19 12:01       |          | 1     | 4.62                                | mg/L  | 0.50   | 1      |   |

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

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/17/19 13:20  
**Customer ID:**  
**Delivery Date:** 9/19/19 11:06

**Description:** Gaston Ash Pond - MW-8

**Laboratory ID Number:** AZ21228

| Sample  | Analysis               | Units | MB         |           | MS    | MSD     | LCS     | LCS     |                  | Rec   |           | Prec   | Limit |
|---------|------------------------|-------|------------|-----------|-------|---------|---------|---------|------------------|-------|-----------|--------|-------|
|         |                        |       | MB         | Limit     |       |         |         | Limit   | Rec              | Limit | Prec      |        |       |
| AZ21231 | Boron, Total           | mg/L  | -0.0000813 | 0.0650254 | 1.00  | 1.00    | 0.994   | 0.981   | 0.85 to 1.15     | 100   | 70 to 130 | 0.823  | 20    |
| AZ21231 | Calcium, Total         | mg/L  | -0.000654  | 0.1518    | 5.00  | 40.2    | 40.2    | 5.01    | 4.25 to 5.75     | 104   | 70 to 130 | 0.00   | 20    |
| AZ21231 | Lithium, Total         | mg/L  | -0.0000164 | 0.0154    | 0.20  | 0.207   | 0.207   | 0.196   | 0.17 to 0.23     | 104   | 70 to 130 | 0.364  | 20    |
| AZ21232 | Arsenic, Total         | mg/L  | 0.00000551 | 0.0001474 | 0.10  | 0.111   | 0.107   | 0.107   | 0.085 to 0.115   | 108   | 70 to 130 | 3.89   | 20    |
| AZ21232 | Barium, Total          | mg/L  | 0.0000103  | 0.0002    | 0.10  | 0.127   | 0.127   | 0.106   | 0.085 to 0.115   | 106   | 70 to 130 | 0.101  | 20    |
| AZ21232 | Beryllium, Total       | mg/L  | 0.0000121  | 0.00088   | 0.10  | 0.101   | 0.0989  | 0.0998  | 0.085 to 0.115   | 101   | 70 to 130 | 2.00   | 20    |
| AZ21232 | Cadmium, Total         | mg/L  | 0.00000000 | 0.0001474 | 0.10  | 0.105   | 0.106   | 0.107   | 0.085 to 0.115   | 105   | 70 to 130 | 0.941  | 20    |
| AZ21232 | Cobalt, Total          | mg/L  | 0.00000184 | 0.0001474 | 0.10  | 0.104   | 0.105   | 0.108   | 0.085 to 0.115   | 104   | 70 to 130 | 0.396  | 20    |
| AZ21232 | Chromium, Total        | mg/L  | 0.0000142  | 0.00044   | 0.10  | 0.102   | 0.103   | 0.104   | 0.085 to 0.115   | 102   | 70 to 130 | 0.645  | 20    |
| AZ21232 | Mercury, Total by CVAA | mg/L  | 0.00000142 | 0.0005    | 0.004 | 0.00423 | 0.00412 | 0.00431 | 0.0034 to 0.0046 | 106   | 70 to 130 | 2.50   | 20    |
| AZ21232 | Molybdenum, Total      | mg/L  | 0.0000162  | 0.0001474 | 0.10  | 0.113   | 0.114   | 0.103   | 0.085 to 0.115   | 100   | 70 to 130 | 0.605  | 20    |
| AZ21232 | Lead, Total            | mg/L  | 0.00000492 | 0.0001474 | 0.10  | 0.107   | 0.108   | 0.106   | 0.085 to 0.115   | 107   | 70 to 130 | 0.134  | 20    |
| AZ21232 | Antimony, Total        | mg/L  | 0.000217   | 0.00066   | 0.10  | 0.105   | 0.107   | 0.103   | 0.085 to 0.115   | 105   | 70 to 130 | 2.13   | 20    |
| AZ21232 | Selenium, Total        | mg/L  | 0.0000469  | 0.00066   | 0.10  | 0.109   | 0.109   | 0.109   | 0.085 to 0.115   | 109   | 70 to 130 | 0.407  | 20    |
| AZ21232 | Thallium, Total        | mg/L  | 0.00000043 | 0.0001474 | 0.10  | 0.114   | 0.114   | 0.112   | 0.085 to 0.115   | 114   | 70 to 130 | 0.0950 | 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:** WMWGASAP

**Sample Date:** 9/17/19 13:20

**Customer ID:**

**Delivery Date:** 9/19/19 11:06

**Description:** Gaston Ash Pond - MW-8

**Laboratory ID Number:** AZ21228

| Sample  | Analysis          | Units | MB      | MB    |       | MS   | MSD    | LCS  | LCS          |      | Rec       |       | Prec | Limit |
|---------|-------------------|-------|---------|-------|-------|------|--------|------|--------------|------|-----------|-------|------|-------|
|         |                   |       |         | Limit | Spike |      |        |      | Limit        | Rec  | Limit     | Prec  |      |       |
| AZ21195 | Solids, Dissolved | mg/L  | 0.0000  | 25    | 50.0  |      | 682    | 50.0 | 40 to 60     | 100  | 80 to 120 | 0.147 | 5    |       |
| AZ21230 | Chloride          | mg/L  | -0.0199 | 0.50  | 10.0  | 12.1 | 1.99   | 9.98 | 9 to 11      | 102  | 80 to 120 | 3.06  | 20   |       |
| AZ21230 | Fluoride          | mg/L  | 0.0218  | 0.05  | 2.50  | 2.55 | 0.0433 | 2.62 | 2.25 to 2.75 | 102  | 80 to 120 | 0.00  | 20   |       |
| AZ21230 | Sulfate           | mg/L  | -0.402  | 0.50  | 20.0  | 24.0 | 4.48   | 19.1 | 18 to 22     | 97.4 | 80 to 120 | 0.667 | 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:** Gaston Ash Pond - MW-1

**Location Code:** WMWGASAP  
**Collected:** 9/17/19 15:39  
**Customer ID:**  
**Submittal Date:** 9/19/19 11:06

**Laboratory ID Number:** AZ21229

| Name                                     | Prepared      | Analyzed      | Vio Spec            | DF    | Results                             | Units | MDL    | RL     | Q |
|------------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-------|--------|--------|---|
| <b>Analytical Method: EPA 200.7</b>      |               |               | <b>Analyst: RDA</b> |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 12:19 |                     | 1.015 | Not Detected                        | mg/L  | 0.03   | 0.1    | U |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 14:00 |                     | 10.15 | 60.7                                | mg/L  | 1.015  | 5.075  |   |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 12:19 |                     | 1.015 | Not Detected                        | mg/L  | 0.01   | 0.02   | U |
| <b>Analytical Method: EPA 200.8</b>      |               |               | <b>Analyst: DLJ</b> |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 15:00 |                     | 1.015 | Not Detected                        | mg/L  | 0.0008 | 0.003  | U |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 15:00 |                     | 1.015 | 0.00422                             | mg/L  | 0.001  | 0.005  | J |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 15:00 |                     | 1.015 | 0.0282                              | mg/L  | 0.002  | 0.01   |   |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 15:00 |                     | 1.015 | Not Detected                        | mg/L  | 0.0006 | 0.003  | U |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 15:00 |                     | 1.015 | Not Detected                        | mg/L  | 0.0003 | 0.001  | U |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 15:00 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 15:00 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.005  | U |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 15:00 |                     | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 15:00 |                     | 1.015 | 0.0170                              | mg/L  | 0.002  | 0.01   |   |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 15:00 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 15:00 |                     | 1.015 | Not Detected                        | mg/L  | 0.0002 | 0.001  | U |
| <b>Analytical Method: EPA 245.1</b>      |               |               | <b>Analyst: GAS</b> |       |                                     |       |        |        |   |
| * Mercury, Total by CVAA                 | 9/25/19 10:20 | 9/26/19 10:32 |                     | 1     | Not Detected                        | mg/L  | 0.0003 | 0.0005 | U |
| <b>Analytical Method: SM 2540C</b>       |               |               | <b>Analyst: TJW</b> |       |                                     |       |        |        |   |
| * Solids, Dissolved                      | 9/23/19 14:40 | 9/25/19 09:15 |                     | 1     | 285                                 | mg/L  |        | 25     |   |
| <b>Analytical Method: SM4500CI E</b>     |               |               | <b>Analyst: JCC</b> |       |                                     |       |        |        |   |
| * Chloride                               | 9/24/19 11:29 | 9/24/19 11:29 |                     | 1     | 4.14                                | mg/L  | 0.50   | 1      |   |
| <b>Analytical Method: SM4500F G 2017</b> |               |               | <b>Analyst: JCC</b> |       |                                     |       |        |        |   |
| * Fluoride                               | 9/25/19 11:19 | 9/25/19 11:19 |                     | 1     | 0.0876                              | mg/L  | 0.05   | 0.1    | J |
| <b>Analytical Method: SM4500SO4 E</b>    |               |               | <b>Analyst: JCC</b> |       |                                     |       |        |        |   |
| * Sulfate                                | 9/26/19 12:02 | 9/26/19 12:02 |                     | 1     | 28.3                                | mg/L  | 0.50   | 1      |   |

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

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/17/19 15:39  
**Customer ID:**  
**Delivery Date:** 9/19/19 11:06

**Description:** Gaston Ash Pond - MW-1

**Laboratory ID Number:** AZ21229

| Sample  | Analysis               | Units | MB         |           |       |         | MS      | MSD     | LCS              | Rec   |           | Prec   | Limit |
|---------|------------------------|-------|------------|-----------|-------|---------|---------|---------|------------------|-------|-----------|--------|-------|
|         |                        |       | MB         | Limit     | Spike | Limit   |         |         | Rec              | Limit | Prec      |        |       |
| AZ21231 | Boron, Total           | mg/L  | -0.0000813 | 0.0650254 | 1.00  | 1.00    | 0.994   | 0.981   | 0.85 to 1.15     | 100   | 70 to 130 | 0.823  | 20    |
| AZ21231 | Calcium, Total         | mg/L  | -0.000654  | 0.1518    | 5.00  | 40.2    | 40.2    | 5.01    | 4.25 to 5.75     | 104   | 70 to 130 | 0.00   | 20    |
| AZ21231 | Lithium, Total         | mg/L  | -0.0000164 | 0.0154    | 0.20  | 0.207   | 0.207   | 0.196   | 0.17 to 0.23     | 104   | 70 to 130 | 0.364  | 20    |
| AZ21232 | Arsenic, Total         | mg/L  | 0.00000551 | 0.0001474 | 0.10  | 0.111   | 0.107   | 0.107   | 0.085 to 0.115   | 108   | 70 to 130 | 3.89   | 20    |
| AZ21232 | Barium, Total          | mg/L  | 0.0000103  | 0.0002    | 0.10  | 0.127   | 0.127   | 0.106   | 0.085 to 0.115   | 106   | 70 to 130 | 0.101  | 20    |
| AZ21232 | Beryllium, Total       | mg/L  | 0.0000121  | 0.00088   | 0.10  | 0.101   | 0.0989  | 0.0998  | 0.085 to 0.115   | 101   | 70 to 130 | 2.00   | 20    |
| AZ21232 | Cadmium, Total         | mg/L  | 0.00000000 | 0.0001474 | 0.10  | 0.105   | 0.106   | 0.107   | 0.085 to 0.115   | 105   | 70 to 130 | 0.941  | 20    |
| AZ21232 | Cobalt, Total          | mg/L  | 0.00000184 | 0.0001474 | 0.10  | 0.104   | 0.105   | 0.108   | 0.085 to 0.115   | 104   | 70 to 130 | 0.396  | 20    |
| AZ21232 | Chromium, Total        | mg/L  | 0.0000142  | 0.00044   | 0.10  | 0.102   | 0.103   | 0.104   | 0.085 to 0.115   | 102   | 70 to 130 | 0.645  | 20    |
| AZ21232 | Mercury, Total by CVAA | mg/L  | 0.00000142 | 0.0005    | 0.004 | 0.00423 | 0.00412 | 0.00431 | 0.0034 to 0.0046 | 106   | 70 to 130 | 2.50   | 20    |
| AZ21232 | Molybdenum, Total      | mg/L  | 0.0000162  | 0.0001474 | 0.10  | 0.113   | 0.114   | 0.103   | 0.085 to 0.115   | 100   | 70 to 130 | 0.605  | 20    |
| AZ21232 | Lead, Total            | mg/L  | 0.00000492 | 0.0001474 | 0.10  | 0.107   | 0.108   | 0.106   | 0.085 to 0.115   | 107   | 70 to 130 | 0.134  | 20    |
| AZ21232 | Antimony, Total        | mg/L  | 0.000217   | 0.00066   | 0.10  | 0.105   | 0.107   | 0.103   | 0.085 to 0.115   | 105   | 70 to 130 | 2.13   | 20    |
| AZ21232 | Selenium, Total        | mg/L  | 0.0000469  | 0.00066   | 0.10  | 0.109   | 0.109   | 0.109   | 0.085 to 0.115   | 109   | 70 to 130 | 0.407  | 20    |
| AZ21232 | Thallium, Total        | mg/L  | 0.00000043 | 0.0001474 | 0.10  | 0.114   | 0.114   | 0.112   | 0.085 to 0.115   | 114   | 70 to 130 | 0.0950 | 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:** WMWGASAP

**Sample Date:** 9/17/19 15:39

**Customer ID:**

**Delivery Date:** 9/19/19 11:06

**Description:** Gaston Ash Pond - MW-1

**Laboratory ID Number:** AZ21229

| Sample  | Analysis          | Units | MB      | MB    |       | MS   | MSD    | LCS  | LCS          |      | Rec       |       | Prec | Limit |
|---------|-------------------|-------|---------|-------|-------|------|--------|------|--------------|------|-----------|-------|------|-------|
|         |                   |       |         | Limit | Spike |      |        |      | Limit        | Rec  | Limit     | Prec  |      |       |
| AZ21201 | Solids, Dissolved | mg/L  | 0.0000  | 25    | 50.0  |      | 412    | 50.0 | 40 to 60     | 100  | 80 to 120 | 0.00  | 5    |       |
| AZ21230 | Chloride          | mg/L  | -0.0199 | 0.50  | 10.0  | 12.1 | 1.99   | 9.98 | 9 to 11      | 102  | 80 to 120 | 3.06  | 20   |       |
| AZ21230 | Fluoride          | mg/L  | 0.0218  | 0.05  | 2.50  | 2.55 | 0.0433 | 2.62 | 2.25 to 2.75 | 102  | 80 to 120 | 0.00  | 20   |       |
| AZ21230 | Sulfate           | mg/L  | -0.402  | 0.50  | 20.0  | 24.0 | 4.48   | 19.1 | 18 to 22     | 97.4 | 80 to 120 | 0.667 | 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:** Gaston Ash Pond - MW-3

**Location Code:** WMWGASAP  
**Collected:** 9/17/19 17:24  
**Customer ID:**  
**Submittal Date:** 9/19/19 11:06

**Laboratory ID Number:** AZ21230

| Name                                     | Prepared      | Analyzed      | Vio Spec            | DF    | Results                             | Units | MDL    | RL     | Q |
|------------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-------|--------|--------|---|
| <b>Analytical Method: EPA 200.7</b>      |               |               | <b>Analyst: RDA</b> |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 12:22 |                     | 1.015 | Not Detected                        | mg/L  | 0.03   | 0.1    | U |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 12:22 |                     | 1.015 | 31.7                                | mg/L  | 0.1    | 0.5    |   |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 12:22 |                     | 1.015 | Not Detected                        | mg/L  | 0.01   | 0.02   | U |
| <b>Analytical Method: EPA 200.8</b>      |               |               | <b>Analyst: DLJ</b> |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 15:03 |                     | 1.015 | Not Detected                        | mg/L  | 0.0008 | 0.003  | U |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 15:03 |                     | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 15:03 |                     | 1.015 | 0.00834                             | mg/L  | 0.002  | 0.01   | J |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 15:03 |                     | 1.015 | Not Detected                        | mg/L  | 0.0006 | 0.003  | U |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 15:03 |                     | 1.015 | Not Detected                        | mg/L  | 0.0003 | 0.001  | U |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 15:03 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 15:03 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.005  | U |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 15:03 |                     | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 15:03 |                     | 1.015 | 0.00644                             | mg/L  | 0.002  | 0.01   | J |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 15:03 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 15:03 |                     | 1.015 | Not Detected                        | mg/L  | 0.0002 | 0.001  | U |
| <b>Analytical Method: EPA 245.1</b>      |               |               | <b>Analyst: GAS</b> |       |                                     |       |        |        |   |
| * Mercury, Total by CVAA                 | 9/25/19 10:20 | 9/26/19 10:35 |                     | 1     | Not Detected                        | mg/L  | 0.0003 | 0.0005 | U |
| <b>Analytical Method: SM 2540C</b>       |               |               | <b>Analyst: TJW</b> |       |                                     |       |        |        |   |
| * Solids, Dissolved                      | 9/23/19 14:40 | 9/25/19 09:15 |                     | 1     | 145                                 | mg/L  |        | 25     |   |
| <b>Analytical Method: SM4500CI E</b>     |               |               | <b>Analyst: JCC</b> |       |                                     |       |        |        |   |
| * Chloride                               | 9/24/19 11:30 | 9/24/19 11:30 |                     | 1     | 1.93                                | mg/L  | 0.50   | 1      |   |
| <b>Analytical Method: SM4500F G 2017</b> |               |               | <b>Analyst: JCC</b> |       |                                     |       |        |        |   |
| * Fluoride                               | 9/25/19 11:21 | 9/25/19 11:21 |                     | 1     | Not Detected                        | mg/L  | 0.05   | 0.1    | U |
| <b>Analytical Method: SM4500SO4 E</b>    |               |               | <b>Analyst: JCC</b> |       |                                     |       |        |        |   |
| * Sulfate                                | 9/26/19 12:07 | 9/26/19 12:07 |                     | 1     | 4.51                                | mg/L  | 0.50   | 1      |   |

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

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/17/19 17:24  
**Customer ID:**  
**Delivery Date:** 9/19/19 11:06

**Description:** Gaston Ash Pond - MW-3

**Laboratory ID Number:** AZ21230

| Sample  | Analysis               | Units | MB         |           |       |         | MS      | MSD     | LCS              | LCS<br>Limit | Rec       |        | Prec<br>Limit |
|---------|------------------------|-------|------------|-----------|-------|---------|---------|---------|------------------|--------------|-----------|--------|---------------|
|         |                        |       | MB         | Limit     | Spike |         |         |         |                  |              | Rec       | Limit  |               |
| AZ21231 | Boron, Total           | mg/L  | -0.0000813 | 0.0650254 | 1.00  | 1.00    | 0.994   | 0.981   | 0.85 to 1.15     | 100          | 70 to 130 | 0.823  | 20            |
| AZ21231 | Calcium, Total         | mg/L  | -0.000654  | 0.1518    | 5.00  | 40.2    | 40.2    | 5.01    | 4.25 to 5.75     | 104          | 70 to 130 | 0.00   | 20            |
| AZ21231 | Lithium, Total         | mg/L  | -0.0000164 | 0.0154    | 0.20  | 0.207   | 0.207   | 0.196   | 0.17 to 0.23     | 104          | 70 to 130 | 0.364  | 20            |
| AZ21232 | Arsenic, Total         | mg/L  | 0.00000551 | 0.0001474 | 0.10  | 0.111   | 0.107   | 0.107   | 0.085 to 0.115   | 108          | 70 to 130 | 3.89   | 20            |
| AZ21232 | Barium, Total          | mg/L  | 0.0000103  | 0.0002    | 0.10  | 0.127   | 0.127   | 0.106   | 0.085 to 0.115   | 106          | 70 to 130 | 0.101  | 20            |
| AZ21232 | Beryllium, Total       | mg/L  | 0.0000121  | 0.00088   | 0.10  | 0.101   | 0.0989  | 0.0998  | 0.085 to 0.115   | 101          | 70 to 130 | 2.00   | 20            |
| AZ21232 | Cadmium, Total         | mg/L  | 0.00000000 | 0.0001474 | 0.10  | 0.105   | 0.106   | 0.107   | 0.085 to 0.115   | 105          | 70 to 130 | 0.941  | 20            |
| AZ21232 | Cobalt, Total          | mg/L  | 0.00000184 | 0.0001474 | 0.10  | 0.104   | 0.105   | 0.108   | 0.085 to 0.115   | 104          | 70 to 130 | 0.396  | 20            |
| AZ21232 | Chromium, Total        | mg/L  | 0.0000142  | 0.00044   | 0.10  | 0.102   | 0.103   | 0.104   | 0.085 to 0.115   | 102          | 70 to 130 | 0.645  | 20            |
| AZ21232 | Mercury, Total by CVAA | mg/L  | 0.00000142 | 0.0005    | 0.004 | 0.00423 | 0.00412 | 0.00431 | 0.0034 to 0.0046 | 106          | 70 to 130 | 2.50   | 20            |
| AZ21232 | Molybdenum, Total      | mg/L  | 0.0000162  | 0.0001474 | 0.10  | 0.113   | 0.114   | 0.103   | 0.085 to 0.115   | 100          | 70 to 130 | 0.605  | 20            |
| AZ21232 | Lead, Total            | mg/L  | 0.00000492 | 0.0001474 | 0.10  | 0.107   | 0.108   | 0.106   | 0.085 to 0.115   | 107          | 70 to 130 | 0.134  | 20            |
| AZ21232 | Antimony, Total        | mg/L  | 0.000217   | 0.00066   | 0.10  | 0.105   | 0.107   | 0.103   | 0.085 to 0.115   | 105          | 70 to 130 | 2.13   | 20            |
| AZ21232 | Selenium, Total        | mg/L  | 0.0000469  | 0.00066   | 0.10  | 0.109   | 0.109   | 0.109   | 0.085 to 0.115   | 109          | 70 to 130 | 0.407  | 20            |
| AZ21232 | Thallium, Total        | mg/L  | 0.00000043 | 0.0001474 | 0.10  | 0.114   | 0.114   | 0.112   | 0.085 to 0.115   | 114          | 70 to 130 | 0.0950 | 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:** WMWGASAP  
**Sample Date:** 9/17/19 17:24  
**Customer ID:**  
**Delivery Date:** 9/19/19 11:06

**Description:** Gaston Ash Pond - MW-3

**Laboratory ID Number:** AZ21230

| Sample  | Analysis          | Units | MB      | MB    |       | MS   | MSD    | LCS  | LCS          |      | Rec       |       | Prec |
|---------|-------------------|-------|---------|-------|-------|------|--------|------|--------------|------|-----------|-------|------|
|         |                   |       |         | Limit | Spike |      |        |      | Limit        | Rec  | Limit     | Prec  |      |
| AZ21201 | Solids, Dissolved | mg/L  | 0.0000  | 25    | 50.0  |      | 412    | 50.0 | 40 to 60     | 100  | 80 to 120 | 0.00  | 5    |
| AZ21230 | Chloride          | mg/L  | -0.0199 | 0.50  | 10.0  | 12.1 | 1.99   | 9.98 | 9 to 11      | 102  | 80 to 120 | 3.06  | 20   |
| AZ21230 | Fluoride          | mg/L  | 0.0218  | 0.05  | 2.50  | 2.55 | 0.0433 | 2.62 | 2.25 to 2.75 | 102  | 80 to 120 | 0.00  | 20   |
| AZ21230 | Sulfate           | mg/L  | -0.402  | 0.50  | 20.0  | 24.0 | 4.48   | 19.1 | 18 to 22     | 97.4 | 80 to 120 | 0.667 | 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:** Gaston Ash Pond - MW-2

**Location Code:** WMWGASAP  
**Collected:** 9/18/19 08:11  
**Customer ID:**  
**Submittal Date:** 9/19/19 11:06

**Laboratory ID Number:** AZ21231

| Name                                     | Prepared      | Analyzed      | Vio Spec            | DF    | Results                             | Units | MDL    | RL     | Q |
|------------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-------|--------|--------|---|
| <b>Analytical Method: EPA 200.7</b>      |               |               | <b>Analyst: RDA</b> |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 12:24 |                     | 1.015 | Not Detected                        | mg/L  | 0.03   | 0.1    | U |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 12:24 |                     | 1.015 | 35.0                                | mg/L  | 0.1    | 0.5    |   |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 12:24 |                     | 1.015 | Not Detected                        | mg/L  | 0.01   | 0.02   | U |
| <b>Analytical Method: EPA 200.8</b>      |               |               | <b>Analyst: DLJ</b> |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 15:05 |                     | 1.015 | Not Detected                        | mg/L  | 0.0008 | 0.003  | U |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 15:05 |                     | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 15:05 |                     | 1.015 | 0.0118                              | mg/L  | 0.002  | 0.01   |   |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 15:05 |                     | 1.015 | Not Detected                        | mg/L  | 0.0006 | 0.003  | U |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 15:05 |                     | 1.015 | Not Detected                        | mg/L  | 0.0003 | 0.001  | U |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 15:05 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 15:05 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.005  | U |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 15:05 |                     | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 15:05 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 15:05 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 15:05 |                     | 1.015 | Not Detected                        | mg/L  | 0.0002 | 0.001  | U |
| <b>Analytical Method: EPA 245.1</b>      |               |               | <b>Analyst: GAS</b> |       |                                     |       |        |        |   |
| * Mercury, Total by CVAA                 | 9/25/19 10:20 | 9/26/19 10:37 |                     | 1     | Not Detected                        | mg/L  | 0.0003 | 0.0005 | U |
| <b>Analytical Method: SM 2540C</b>       |               |               | <b>Analyst: TJW</b> |       |                                     |       |        |        |   |
| * Solids, Dissolved                      | 9/23/19 14:40 | 9/25/19 09:15 |                     | 1     | 154                                 | mg/L  |        | 25     |   |
| <b>Analytical Method: SM4500CI E</b>     |               |               | <b>Analyst: JCC</b> |       |                                     |       |        |        |   |
| * Chloride                               | 9/24/19 12:06 | 9/24/19 12:06 |                     | 1     | 1.53                                | mg/L  | 0.50   | 1      |   |
| <b>Analytical Method: SM4500F G 2017</b> |               |               | <b>Analyst: JCC</b> |       |                                     |       |        |        |   |
| * Fluoride                               | 9/25/19 11:34 | 9/25/19 11:34 |                     | 1     | Not Detected                        | mg/L  | 0.05   | 0.1    | U |
| <b>Analytical Method: SM4500SO4 E</b>    |               |               | <b>Analyst: JCC</b> |       |                                     |       |        |        |   |
| * Sulfate                                | 9/26/19 13:29 | 9/26/19 13:29 |                     | 1     | 2.39                                | mg/L  | 0.50   | 1      |   |

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

**Comments:**



# Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/18/19 08:11  
**Customer ID:**  
**Delivery Date:** 9/19/19 11:06

**Description:** Gaston Ash Pond - MW-2

**Laboratory ID Number:** AZ21231

| Sample  | Analysis               | Units | MB         |           |       |         | MS      | MSD     | LCS              | Rec   |           | Prec   | Limit |
|---------|------------------------|-------|------------|-----------|-------|---------|---------|---------|------------------|-------|-----------|--------|-------|
|         |                        |       | MB         | Limit     | Spike | Limit   |         |         | Rec              | Limit | Prec      |        |       |
| AZ21231 | Boron, Total           | mg/L  | -0.0000813 | 0.0650254 | 1.00  | 1.00    | 0.994   | 0.981   | 0.85 to 1.15     | 100   | 70 to 130 | 0.823  | 20    |
| AZ21231 | Calcium, Total         | mg/L  | -0.000654  | 0.1518    | 5.00  | 40.2    | 40.2    | 5.01    | 4.25 to 5.75     | 104   | 70 to 130 | 0.00   | 20    |
| AZ21231 | Lithium, Total         | mg/L  | -0.0000164 | 0.0154    | 0.20  | 0.207   | 0.207   | 0.196   | 0.17 to 0.23     | 104   | 70 to 130 | 0.364  | 20    |
| AZ21232 | Arsenic, Total         | mg/L  | 0.00000551 | 0.0001474 | 0.10  | 0.111   | 0.107   | 0.107   | 0.085 to 0.115   | 108   | 70 to 130 | 3.89   | 20    |
| AZ21232 | Barium, Total          | mg/L  | 0.0000103  | 0.0002    | 0.10  | 0.127   | 0.127   | 0.106   | 0.085 to 0.115   | 106   | 70 to 130 | 0.101  | 20    |
| AZ21232 | Beryllium, Total       | mg/L  | 0.0000121  | 0.00088   | 0.10  | 0.101   | 0.0989  | 0.0998  | 0.085 to 0.115   | 101   | 70 to 130 | 2.00   | 20    |
| AZ21232 | Cadmium, Total         | mg/L  | 0.00000000 | 0.0001474 | 0.10  | 0.105   | 0.106   | 0.107   | 0.085 to 0.115   | 105   | 70 to 130 | 0.941  | 20    |
| AZ21232 | Cobalt, Total          | mg/L  | 0.00000184 | 0.0001474 | 0.10  | 0.104   | 0.105   | 0.108   | 0.085 to 0.115   | 104   | 70 to 130 | 0.396  | 20    |
| AZ21232 | Chromium, Total        | mg/L  | 0.0000142  | 0.00044   | 0.10  | 0.102   | 0.103   | 0.104   | 0.085 to 0.115   | 102   | 70 to 130 | 0.645  | 20    |
| AZ21232 | Mercury, Total by CVAA | mg/L  | 0.00000142 | 0.0005    | 0.004 | 0.00423 | 0.00412 | 0.00431 | 0.0034 to 0.0046 | 106   | 70 to 130 | 2.50   | 20    |
| AZ21232 | Molybdenum, Total      | mg/L  | 0.0000162  | 0.0001474 | 0.10  | 0.113   | 0.114   | 0.103   | 0.085 to 0.115   | 100   | 70 to 130 | 0.605  | 20    |
| AZ21232 | Lead, Total            | mg/L  | 0.00000492 | 0.0001474 | 0.10  | 0.107   | 0.108   | 0.106   | 0.085 to 0.115   | 107   | 70 to 130 | 0.134  | 20    |
| AZ21232 | Antimony, Total        | mg/L  | 0.000217   | 0.00066   | 0.10  | 0.105   | 0.107   | 0.103   | 0.085 to 0.115   | 105   | 70 to 130 | 2.13   | 20    |
| AZ21232 | Selenium, Total        | mg/L  | 0.0000469  | 0.00066   | 0.10  | 0.109   | 0.109   | 0.109   | 0.085 to 0.115   | 109   | 70 to 130 | 0.407  | 20    |
| AZ21232 | Thallium, Total        | mg/L  | 0.00000043 | 0.0001474 | 0.10  | 0.114   | 0.114   | 0.112   | 0.085 to 0.115   | 114   | 70 to 130 | 0.0950 | 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:** WMWGASAP

**Sample Date:** 9/18/19 08:11

**Customer ID:**

**Delivery Date:** 9/19/19 11:06

**Description:** Gaston Ash Pond - MW-2

**Laboratory ID Number:** AZ21231

| Sample  | Analysis          | Units | MB      | MB    |       | MS   | MSD    | LCS  | LCS          |      | Rec       |      | Prec |
|---------|-------------------|-------|---------|-------|-------|------|--------|------|--------------|------|-----------|------|------|
|         |                   |       |         | Limit | Spike |      |        |      | Limit        | Rec  | Limit     | Prec |      |
| AZ21201 | Solids, Dissolved | mg/L  | 0.0000  | 25    | 50.0  |      | 412    | 50.0 | 40 to 60     | 100  | 80 to 120 | 0.00 | 5    |
| AZ21235 | Chloride          | mg/L  | 0.00313 | 0.50  | 100   | 164  | 61.5   | 9.90 | 9 to 11      | 103  | 80 to 120 | 1.31 | 20   |
| AZ21235 | Fluoride          | mg/L  | 0.0175  | 0.05  | 2.50  | 2.57 | 0.0549 | 2.63 | 2.25 to 2.75 | 100  | 80 to 120 | 12.6 | 20   |
| AZ21235 | Sulfate           | mg/L  | -0.444  | 0.50  | 200   | 280  | 95.6   | 19.0 | 18 to 22     | 89.0 | 80 to 120 | 6.48 | 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:** Gaston Ash Pond - MW-19

**Location Code:** WMWGASAP  
**Collected:** 9/18/19 10:56  
**Customer ID:**  
**Submittal Date:** 9/19/19 11:06

**Laboratory ID Number:** AZ21232

| Name                                     | Prepared      | Analyzed            | Vio Spec | DF                                  | Results      | Units | MDL    | RL     | Q |
|------------------------------------------|---------------|---------------------|----------|-------------------------------------|--------------|-------|--------|--------|---|
| <b>Analytical Method: EPA 200.7</b>      |               | <b>Analyst: RDA</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |   |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 12:45       |          | 1.015                               | Not Detected | mg/L  | 0.03   | 0.1    | U |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 14:09       |          | 10.15                               | 45.6         | mg/L  | 1.015  | 5.075  |   |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 12:45       |          | 1.015                               | Not Detected | mg/L  | 0.01   | 0.02   | U |
| <b>Analytical Method: EPA 200.8</b>      |               | <b>Analyst: DLJ</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |   |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 15:08       |          | 1.015                               | Not Detected | mg/L  | 0.0008 | 0.003  | U |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 15:08       |          | 1.015                               | 0.00322      | mg/L  | 0.001  | 0.005  | J |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 15:08       |          | 1.015                               | 0.0211       | mg/L  | 0.002  | 0.01   |   |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 15:08       |          | 1.015                               | Not Detected | mg/L  | 0.0006 | 0.003  | U |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 15:08       |          | 1.015                               | Not Detected | mg/L  | 0.0003 | 0.001  | U |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 15:08       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 15:08       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.005  | U |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 15:08       |          | 1.015                               | Not Detected | mg/L  | 0.001  | 0.005  | U |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 15:08       |          | 1.015                               | 0.0128       | mg/L  | 0.002  | 0.01   |   |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 15:08       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 15:08       |          | 1.015                               | Not Detected | mg/L  | 0.0002 | 0.001  | U |
| <b>Analytical Method: EPA 245.1</b>      |               | <b>Analyst: GAS</b> |          |                                     |              |       |        |        |   |
| * Mercury, Total by CVAA                 | 9/25/19 10:20 | 9/26/19 10:39       |          | 1                                   | Not Detected | mg/L  | 0.0003 | 0.0005 | U |
| <b>Analytical Method: SM 2540C</b>       |               | <b>Analyst: TJW</b> |          |                                     |              |       |        |        |   |
| * Solids, Dissolved                      | 9/23/19 14:40 | 9/25/19 09:15       |          | 1                                   | 222          | mg/L  |        | 25     |   |
| <b>Analytical Method: SM4500CI E</b>     |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Chloride                               | 9/24/19 12:07 | 9/24/19 12:07       |          | 1                                   | 11.6         | mg/L  | 0.50   | 1      |   |
| <b>Analytical Method: SM4500F G 2017</b> |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Fluoride                               | 9/25/19 11:35 | 9/25/19 11:35       |          | 1                                   | 0.0507       | mg/L  | 0.05   | 0.1    | J |
| <b>Analytical Method: SM4500SO4 E</b>    |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Sulfate                                | 9/26/19 13:30 | 9/26/19 13:30       |          | 1                                   | 23.6         | mg/L  | 0.50   | 1      |   |

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

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/18/19 10:56  
**Customer ID:**  
**Delivery Date:** 9/19/19 11:06

**Description:** Gaston Ash Pond - MW-19

**Laboratory ID Number:** AZ21232

| Sample  | Analysis               | Units | MB         |           | MS    | MSD     | LCS     | LCS     | Rec              |      | Prec | Limit     |        |    |
|---------|------------------------|-------|------------|-----------|-------|---------|---------|---------|------------------|------|------|-----------|--------|----|
|         |                        |       | MB         | Limit     |       |         |         |         | Limit            | Prec |      |           |        |    |
| AZ21232 | Arsenic, Total         | mg/L  | 0.00000551 | 0.0001474 | 0.10  | 0.111   | 0.107   | 0.107   | 0.085 to 0.115   |      | 108  | 70 to 130 | 3.89   | 20 |
| AZ21232 | Barium, Total          | mg/L  | 0.0000103  | 0.0002    | 0.10  | 0.127   | 0.127   | 0.106   | 0.085 to 0.115   |      | 106  | 70 to 130 | 0.101  | 20 |
| AZ21232 | Beryllium, Total       | mg/L  | 0.0000121  | 0.00088   | 0.10  | 0.101   | 0.0989  | 0.0998  | 0.085 to 0.115   |      | 101  | 70 to 130 | 2.00   | 20 |
| AZ21232 | Cadmium, Total         | mg/L  | 0.00000000 | 0.0001474 | 0.10  | 0.105   | 0.106   | 0.107   | 0.085 to 0.115   |      | 105  | 70 to 130 | 0.941  | 20 |
| AZ21232 | Cobalt, Total          | mg/L  | 0.00000184 | 0.0001474 | 0.10  | 0.104   | 0.105   | 0.108   | 0.085 to 0.115   |      | 104  | 70 to 130 | 0.396  | 20 |
| AZ21232 | Chromium, Total        | mg/L  | 0.0000142  | 0.00044   | 0.10  | 0.102   | 0.103   | 0.104   | 0.085 to 0.115   |      | 102  | 70 to 130 | 0.645  | 20 |
| AZ21232 | Mercury, Total by CVAA | mg/L  | 0.00000142 | 0.0005    | 0.004 | 0.00423 | 0.00412 | 0.00431 | 0.0034 to 0.0046 |      | 106  | 70 to 130 | 2.50   | 20 |
| AZ21232 | Molybdenum, Total      | mg/L  | 0.0000162  | 0.0001474 | 0.10  | 0.113   | 0.114   | 0.103   | 0.085 to 0.115   |      | 100  | 70 to 130 | 0.605  | 20 |
| AZ21232 | Lead, Total            | mg/L  | 0.00000492 | 0.0001474 | 0.10  | 0.107   | 0.108   | 0.106   | 0.085 to 0.115   |      | 107  | 70 to 130 | 0.134  | 20 |
| AZ21232 | Antimony, Total        | mg/L  | 0.000217   | 0.00066   | 0.10  | 0.105   | 0.107   | 0.103   | 0.085 to 0.115   |      | 105  | 70 to 130 | 2.13   | 20 |
| AZ21232 | Selenium, Total        | mg/L  | 0.0000469  | 0.00066   | 0.10  | 0.109   | 0.109   | 0.109   | 0.085 to 0.115   |      | 109  | 70 to 130 | 0.407  | 20 |
| AZ21232 | Thallium, Total        | mg/L  | 0.00000043 | 0.0001474 | 0.10  | 0.114   | 0.114   | 0.112   | 0.085 to 0.115   |      | 114  | 70 to 130 | 0.0950 | 20 |
| AZ21235 | Boron, Total           | mg/L  | 0.000175   | 0.0650254 | 1.00  | 2.43    | 2.41    | 1.00    | 0.85 to 1.15     |      | 102  | 70 to 130 | 0.853  | 20 |
| AZ21235 | Calcium, Total         | mg/L  | 0.00268    | 0.1518    | 5.00  | 50.9    | 49.5    | 5.23    | 4.25 to 5.75     |      | 180  | 70 to 130 | 2.79   | 20 |
| AZ21235 | Lithium, Total         | mg/L  | -0.0000892 | 0.0154    | 0.20  | 0.225   | 0.223   | 0.200   | 0.17 to 0.23     |      | 113  | 70 to 130 | 1.12   | 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:** WMWGASAP

**Sample Date:** 9/18/19 10:56

**Customer ID:**

**Delivery Date:** 9/19/19 11:06

**Description:** Gaston Ash Pond - MW-19

**Laboratory ID Number:** AZ21232

| Sample  | Analysis          | Units | MB      | MB    |       | MS   | MSD    | LCS  | LCS          |      | Rec       |      | Prec |
|---------|-------------------|-------|---------|-------|-------|------|--------|------|--------------|------|-----------|------|------|
|         |                   |       |         | Limit | Spike |      |        |      | Limit        | Rec  | Limit     | Prec |      |
| AZ21201 | Solids, Dissolved | mg/L  | 0.0000  | 25    | 50.0  |      | 412    | 50.0 | 40 to 60     | 100  | 80 to 120 | 0.00 | 5    |
| AZ21235 | Chloride          | mg/L  | 0.00313 | 0.50  | 100   | 164  | 61.5   | 9.90 | 9 to 11      | 103  | 80 to 120 | 1.31 | 20   |
| AZ21235 | Fluoride          | mg/L  | 0.0175  | 0.05  | 2.50  | 2.57 | 0.0549 | 2.63 | 2.25 to 2.75 | 100  | 80 to 120 | 12.6 | 20   |
| AZ21235 | Sulfate           | mg/L  | -0.444  | 0.50  | 200   | 280  | 95.6   | 19.0 | 18 to 22     | 89.0 | 80 to 120 | 6.48 | 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:** Gaston Ash Pond Equipment Blank

**Location Code:** WMWGASAPEB  
**Collected:** 9/18/19 11:39  
**Customer ID:**  
**Submittal Date:** 9/19/19 11:06

**Laboratory ID Number:** AZ21233

| Name                                     | Prepared      | Analyzed      | Vio Spec            | DF    | Results                             | Units | MDL    | RL     | Q |
|------------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-------|--------|--------|---|
| <b>Analytical Method: EPA 200.7</b>      |               |               | <b>Analyst: RDA</b> |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 12:48 |                     | 1.015 | Not Detected                        | mg/L  | 0.03   | 0.1    | U |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 12:48 |                     | 1.015 | Not Detected                        | mg/L  | 0.1    | 0.5    | U |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 12:48 |                     | 1.015 | Not Detected                        | mg/L  | 0.01   | 0.02   | U |
| <b>Analytical Method: EPA 200.8</b>      |               |               | <b>Analyst: DLJ</b> |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 14:15 |                     | 1.015 | Not Detected                        | mg/L  | 0.0008 | 0.003  | U |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 14:15 |                     | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 14:15 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 14:15 |                     | 1.015 | Not Detected                        | mg/L  | 0.0006 | 0.003  | U |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 14:15 |                     | 1.015 | Not Detected                        | mg/L  | 0.0003 | 0.001  | U |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 14:15 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 14:15 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.005  | U |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 14:15 |                     | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 14:15 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 14:15 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 14:15 |                     | 1.015 | Not Detected                        | mg/L  | 0.0002 | 0.001  | U |
| <b>Analytical Method: EPA 245.1</b>      |               |               | <b>Analyst: GAS</b> |       |                                     |       |        |        |   |
| * Mercury, Total by CVAA                 | 9/25/19 10:20 | 9/26/19 11:02 |                     | 1     | Not Detected                        | mg/L  | 0.0003 | 0.0005 | U |
| <b>Analytical Method: SM 2540C</b>       |               |               | <b>Analyst: TJW</b> |       |                                     |       |        |        |   |
| * Solids, Dissolved                      | 9/23/19 14:40 | 9/25/19 09:15 |                     | 1     | Not Detected                        | mg/L  |        | 25     | U |
| <b>Analytical Method: SM4500CI E</b>     |               |               | <b>Analyst: JCC</b> |       |                                     |       |        |        |   |
| * Chloride                               | 9/24/19 12:08 | 9/24/19 12:08 |                     | 1     | Not Detected                        | mg/L  | 0.50   | 1      | U |
| <b>Analytical Method: SM4500F G 2017</b> |               |               | <b>Analyst: JCC</b> |       |                                     |       |        |        |   |
| * Fluoride                               | 9/25/19 11:36 | 9/25/19 11:36 |                     | 1     | Not Detected                        | mg/L  | 0.05   | 0.1    | U |
| <b>Analytical Method: SM4500SO4 E</b>    |               |               | <b>Analyst: JCC</b> |       |                                     |       |        |        |   |
| * Sulfate                                | 9/26/19 13:27 | 9/26/19 13:27 |                     | 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:** WMWGASAPEB

**Sample Date:** 9/18/19 11:39

**Customer ID:**

**Delivery Date:** 9/19/19 11:06

**Description:** Gaston Ash Pond Equipment Blank

**Laboratory ID Number:** AZ21233

| Sample  | Analysis               | Units | MB          |           | MS    | MSD     | LCS     | LCS     | Rec              |       | Prec | Limit     |       |    |
|---------|------------------------|-------|-------------|-----------|-------|---------|---------|---------|------------------|-------|------|-----------|-------|----|
|         |                        |       | MB          | Limit     |       |         |         |         | Rec              | Limit |      |           |       |    |
| AZ21235 | Arsenic, Total         | mg/L  | -0.0000527  | 0.0001474 | 0.10  | 0.108   | 0.107   | 0.108   | 0.085 to 0.115   |       | 106  | 70 to 130 | 1.07  | 20 |
| AZ21235 | Barium, Total          | mg/L  | 0.0000146   | 0.0002    | 0.10  | 0.135   | 0.130   | 0.110   | 0.085 to 0.115   |       | 108  | 70 to 130 | 3.81  | 20 |
| AZ21235 | Beryllium, Total       | mg/L  | 0.0000138   | 0.00088   | 0.10  | 0.102   | 0.0973  | 0.101   | 0.085 to 0.115   |       | 102  | 70 to 130 | 4.41  | 20 |
| AZ21235 | Boron, Total           | mg/L  | 0.000175    | 0.0650254 | 1.00  | 2.43    | 2.41    | 1.00    | 0.85 to 1.15     |       | 102  | 70 to 130 | 0.853 | 20 |
| AZ21235 | Calcium, Total         | mg/L  | 0.00268     | 0.1518    | 5.00  | 50.9    | 49.5    | 5.23    | 4.25 to 5.75     |       | 180  | 70 to 130 | 2.79  | 20 |
| AZ21235 | Cadmium, Total         | mg/L  | 0.0000000   | 0.0001474 | 0.10  | 0.105   | 0.103   | 0.110   | 0.085 to 0.115   |       | 105  | 70 to 130 | 1.85  | 20 |
| AZ21235 | Cobalt, Total          | mg/L  | 0.0000040   | 0.0001474 | 0.10  | 0.103   | 0.104   | 0.111   | 0.085 to 0.115   |       | 103  | 70 to 130 | 0.654 | 20 |
| AZ21235 | Chromium, Total        | mg/L  | -0.00000272 | 0.00044   | 0.10  | 0.103   | 0.102   | 0.106   | 0.085 to 0.115   |       | 103  | 70 to 130 | 0.546 | 20 |
| AZ21235 | Mercury, Total by CVAA | mg/L  | 0.0000206   | 0.0005    | 0.004 | 0.00412 | 0.00424 | 0.00435 | 0.0034 to 0.0046 |       | 103  | 70 to 130 | 2.86  | 20 |
| AZ21235 | Lithium, Total         | mg/L  | -0.0000892  | 0.0154    | 0.20  | 0.225   | 0.223   | 0.200   | 0.17 to 0.23     |       | 113  | 70 to 130 | 1.12  | 20 |
| AZ21235 | Molybdenum, Total      | mg/L  | 0.00000507  | 0.0001474 | 0.10  | 0.106   | 0.103   | 0.103   | 0.085 to 0.115   |       | 100  | 70 to 130 | 2.47  | 20 |
| AZ21235 | Lead, Total            | mg/L  | 0.00000410  | 0.0001474 | 0.10  | 0.108   | 0.106   | 0.109   | 0.085 to 0.115   |       | 108  | 70 to 130 | 1.45  | 20 |
| AZ21235 | Antimony, Total        | mg/L  | 0.000179    | 0.00066   | 0.10  | 0.109   | 0.105   | 0.105   | 0.085 to 0.115   |       | 108  | 70 to 130 | 4.14  | 20 |
| AZ21235 | Selenium, Total        | mg/L  | 0.0000633   | 0.00066   | 0.10  | 0.0970  | 0.0968  | 0.110   | 0.085 to 0.115   |       | 97.0 | 70 to 130 | 0.202 | 20 |
| AZ21235 | Thallium, Total        | mg/L  | -0.00000097 | 0.0001474 | 0.10  | 0.114   | 0.113   | 0.114   | 0.085 to 0.115   |       | 114  | 70 to 130 | 1.49  | 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:** WMWGASAPEB

**Sample Date:** 9/18/19 11:39

**Customer ID:**

**Delivery Date:** 9/19/19 11:06

**Description:** Gaston Ash Pond Equipment Blank

**Laboratory ID Number:** AZ21233

| Sample  | Analysis          | Units | MB      | MB    |       | MS   | MSD    | LCS  | LCS          |      | Rec       |      | Prec  |
|---------|-------------------|-------|---------|-------|-------|------|--------|------|--------------|------|-----------|------|-------|
|         |                   |       |         | Limit | Spike |      |        |      | Limit        | Rec  | Limit     | Prec | Limit |
| AZ21201 | Solids, Dissolved | mg/L  | 0.0000  | 25    | 50.0  |      | 412    | 50.0 | 40 to 60     | 100  | 80 to 120 | 0.00 | 5     |
| AZ21235 | Chloride          | mg/L  | 0.00313 | 0.50  | 100   | 164  | 61.5   | 9.90 | 9 to 11      | 103  | 80 to 120 | 1.31 | 20    |
| AZ21235 | Fluoride          | mg/L  | 0.0175  | 0.05  | 2.50  | 2.57 | 0.0549 | 2.63 | 2.25 to 2.75 | 100  | 80 to 120 | 12.6 | 20    |
| AZ21235 | Sulfate           | mg/L  | -0.444  | 0.50  | 200   | 280  | 95.6   | 19.0 | 18 to 22     | 89.0 | 80 to 120 | 6.48 | 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:** Gaston Ash Pond - MW-15R

**Location Code:** WMWGASAP  
**Collected:** 9/18/19 14:26  
**Customer ID:**  
**Submittal Date:** 9/19/19 11:06

**Laboratory ID Number:** AZ21234

| Name                                     | Prepared      | Analyzed            | Vio Spec | DF                                  | Results      | Units | MDL    | RL     | Q |
|------------------------------------------|---------------|---------------------|----------|-------------------------------------|--------------|-------|--------|--------|---|
| <b>Analytical Method: EPA 200.7</b>      |               | <b>Analyst: RDA</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |   |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 12:51       |          | 1.015                               | 3.47         | mg/L  | 0.03   | 0.1    |   |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 14:12       |          | 10.15                               | 139          | mg/L  | 1.015  | 5.075  |   |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 12:51       |          | 1.015                               | 0.186        | mg/L  | 0.01   | 0.02   |   |
| <b>Analytical Method: EPA 200.8</b>      |               | <b>Analyst: DLJ</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |   |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 14:17       |          | 1.015                               | Not Detected | mg/L  | 0.0008 | 0.003  | U |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 14:17       |          | 1.015                               | Not Detected | mg/L  | 0.001  | 0.005  | U |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 14:17       |          | 1.015                               | 0.0799       | mg/L  | 0.002  | 0.01   |   |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 14:17       |          | 1.015                               | Not Detected | mg/L  | 0.0006 | 0.003  | U |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 14:17       |          | 1.015                               | Not Detected | mg/L  | 0.0003 | 0.001  | U |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 14:17       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 14:17       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.005  | U |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 14:17       |          | 1.015                               | Not Detected | mg/L  | 0.001  | 0.005  | U |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 14:17       |          | 1.015                               | 0.307        | mg/L  | 0.002  | 0.01   |   |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 14:17       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 14:17       |          | 1.015                               | Not Detected | mg/L  | 0.0002 | 0.001  | U |
| <b>Analytical Method: EPA 245.1</b>      |               | <b>Analyst: GAS</b> |          |                                     |              |       |        |        |   |
| * Mercury, Total by CVAA                 | 9/25/19 10:20 | 9/26/19 11:04       |          | 1                                   | Not Detected | mg/L  | 0.0003 | 0.0005 | U |
| <b>Analytical Method: SM 2540C</b>       |               | <b>Analyst: TJW</b> |          |                                     |              |       |        |        |   |
| * Solids, Dissolved                      | 9/23/19 14:40 | 9/25/19 09:15       |          | 1                                   | 704          | mg/L  |        | 50     |   |
| <b>Analytical Method: SM4500Cl E</b>     |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Chloride                               | 9/24/19 12:10 | 9/24/19 12:10       |          | 10                                  | 142          | mg/L  | 5.00   | 10     |   |
| <b>Analytical Method: SM4500F G 2017</b> |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Fluoride                               | 9/25/19 11:38 | 9/25/19 11:38       |          | 1                                   | 0.094        | mg/L  | 0.05   | 0.1    | J |
| <b>Analytical Method: SM4500SO4 E</b>    |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |   |
| * Sulfate                                | 9/26/19 13:28 | 9/26/19 13:28       |          | 10                                  | 283          | mg/L  | 5.00   | 10     |   |

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

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/18/19 14:26  
**Customer ID:**  
**Delivery Date:** 9/19/19 11:06

**Description:** Gaston Ash Pond - MW-15R

**Laboratory ID Number:** AZ21234

| Sample  | Analysis               | Units | MB          |           | MS    | MSD     | LCS     | LCS     | Rec              |       | Prec      | Limit |    |
|---------|------------------------|-------|-------------|-----------|-------|---------|---------|---------|------------------|-------|-----------|-------|----|
|         |                        |       | MB          | Limit     |       |         |         |         | Rec              | Limit |           |       |    |
| AZ21235 | Arsenic, Total         | mg/L  | -0.00000527 | 0.0001474 | 0.10  | 0.108   | 0.107   | 0.108   | 0.085 to 0.115   | 106   | 70 to 130 | 1.07  | 20 |
| AZ21235 | Barium, Total          | mg/L  | 0.0000146   | 0.0002    | 0.10  | 0.135   | 0.130   | 0.110   | 0.085 to 0.115   | 108   | 70 to 130 | 3.81  | 20 |
| AZ21235 | Beryllium, Total       | mg/L  | 0.0000138   | 0.00088   | 0.10  | 0.102   | 0.0973  | 0.101   | 0.085 to 0.115   | 102   | 70 to 130 | 4.41  | 20 |
| AZ21235 | Boron, Total           | mg/L  | 0.000175    | 0.0650254 | 1.00  | 2.43    | 2.41    | 1.00    | 0.85 to 1.15     | 102   | 70 to 130 | 0.853 | 20 |
| AZ21235 | Calcium, Total         | mg/L  | 0.00268     | 0.1518    | 5.00  | 50.9    | 49.5    | 5.23    | 4.25 to 5.75     | 180   | 70 to 130 | 2.79  | 20 |
| AZ21235 | Cadmium, Total         | mg/L  | 0.00000000  | 0.0001474 | 0.10  | 0.105   | 0.103   | 0.110   | 0.085 to 0.115   | 105   | 70 to 130 | 1.85  | 20 |
| AZ21235 | Cobalt, Total          | mg/L  | 0.00000040  | 0.0001474 | 0.10  | 0.103   | 0.104   | 0.111   | 0.085 to 0.115   | 103   | 70 to 130 | 0.654 | 20 |
| AZ21235 | Chromium, Total        | mg/L  | -0.00000272 | 0.00044   | 0.10  | 0.103   | 0.102   | 0.106   | 0.085 to 0.115   | 103   | 70 to 130 | 0.546 | 20 |
| AZ21235 | Mercury, Total by CVAA | mg/L  | 0.0000206   | 0.0005    | 0.004 | 0.00412 | 0.00424 | 0.00435 | 0.0034 to 0.0046 | 103   | 70 to 130 | 2.86  | 20 |
| AZ21235 | Lithium, Total         | mg/L  | -0.0000892  | 0.0154    | 0.20  | 0.225   | 0.223   | 0.200   | 0.17 to 0.23     | 113   | 70 to 130 | 1.12  | 20 |
| AZ21235 | Molybdenum, Total      | mg/L  | 0.00000507  | 0.0001474 | 0.10  | 0.106   | 0.103   | 0.103   | 0.085 to 0.115   | 100   | 70 to 130 | 2.47  | 20 |
| AZ21235 | Lead, Total            | mg/L  | 0.00000410  | 0.0001474 | 0.10  | 0.108   | 0.106   | 0.109   | 0.085 to 0.115   | 108   | 70 to 130 | 1.45  | 20 |
| AZ21235 | Antimony, Total        | mg/L  | 0.000179    | 0.00066   | 0.10  | 0.109   | 0.105   | 0.105   | 0.085 to 0.115   | 108   | 70 to 130 | 4.14  | 20 |
| AZ21235 | Selenium, Total        | mg/L  | 0.0000633   | 0.00066   | 0.10  | 0.0970  | 0.0968  | 0.110   | 0.085 to 0.115   | 97.0  | 70 to 130 | 0.202 | 20 |
| AZ21235 | Thallium, Total        | mg/L  | -0.00000097 | 0.0001474 | 0.10  | 0.114   | 0.113   | 0.114   | 0.085 to 0.115   | 114   | 70 to 130 | 1.49  | 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:** WMWGASAP

**Sample Date:** 9/18/19 14:26

**Customer ID:**

**Delivery Date:** 9/19/19 11:06

**Description:** Gaston Ash Pond - MW-15R

**Laboratory ID Number:** AZ21234

| Sample  | Analysis          | Units | MB      | MB    |       | MS   | MSD    | LCS  | LCS          |      | Rec       |      | Prec |
|---------|-------------------|-------|---------|-------|-------|------|--------|------|--------------|------|-----------|------|------|
|         |                   |       |         | Limit | Spike |      |        |      | Limit        | Rec  | Limit     | Prec |      |
| AZ21201 | Solids, Dissolved | mg/L  | 0.0000  | 25    | 50.0  |      | 412    | 50.0 | 40 to 60     | 100  | 80 to 120 | 0.00 | 5    |
| AZ21235 | Chloride          | mg/L  | 0.00313 | 0.50  | 100   | 164  | 61.5   | 9.90 | 9 to 11      | 103  | 80 to 120 | 1.31 | 20   |
| AZ21235 | Fluoride          | mg/L  | 0.0175  | 0.05  | 2.50  | 2.57 | 0.0549 | 2.63 | 2.25 to 2.75 | 100  | 80 to 120 | 12.6 | 20   |
| AZ21235 | Sulfate           | mg/L  | -0.444  | 0.50  | 200   | 280  | 95.6   | 19.0 | 18 to 22     | 89.0 | 80 to 120 | 6.48 | 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:** Gaston Ash Pond - MW-23D

**Location Code:** WMWGASAP

**Collected:** 9/18/19 16:21

**Customer ID:**

**Submittal Date:** 9/19/19 11:06

**Laboratory ID Number:** AZ21235

| Name                                     | Prepared      | Analyzed            | Vio Spec | DF                                  | Results      | Units | MDL    | RL     | Q  |
|------------------------------------------|---------------|---------------------|----------|-------------------------------------|--------------|-------|--------|--------|----|
| <b>Analytical Method: EPA 200.7</b>      |               | <b>Analyst: RDA</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |    |
| * Boron, Total                           | 9/23/19 15:45 | 9/24/19 12:54       |          | 1.015                               | 1.42         | mg/L  | 0.03   | 0.1    |    |
| * Calcium, Total                         | 9/23/19 15:45 | 9/24/19 14:15       |          | 10.15                               | 41.9         | mg/L  | 1.015  | 5.075  | RA |
| * Lithium, Total                         | 9/23/19 15:45 | 9/24/19 12:54       |          | 1.015                               | Not Detected | mg/L  | 0.01   | 0.02   | U  |
| <b>Analytical Method: EPA 200.8</b>      |               | <b>Analyst: DLJ</b> |          | <b>Preparation Method: EPA 1638</b> |              |       |        |        |    |
| * Antimony, Total                        | 9/23/19 11:30 | 9/24/19 14:20       |          | 1.015                               | 0.000804     | mg/L  | 0.0008 | 0.003  | J  |
| * Arsenic, Total                         | 9/23/19 11:30 | 9/24/19 14:20       |          | 1.015                               | 0.00255      | mg/L  | 0.001  | 0.005  | J  |
| * Barium, Total                          | 9/23/19 11:30 | 9/24/19 14:20       |          | 1.015                               | 0.0270       | mg/L  | 0.002  | 0.01   |    |
| * Beryllium, Total                       | 9/23/19 11:30 | 9/24/19 14:20       |          | 1.015                               | Not Detected | mg/L  | 0.0006 | 0.003  | U  |
| * Cadmium, Total                         | 9/23/19 11:30 | 9/24/19 14:20       |          | 1.015                               | Not Detected | mg/L  | 0.0003 | 0.001  | U  |
| * Chromium, Total                        | 9/23/19 11:30 | 9/24/19 14:20       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U  |
| * Cobalt, Total                          | 9/23/19 11:30 | 9/24/19 14:20       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.005  | U  |
| * Lead, Total                            | 9/23/19 11:30 | 9/24/19 14:20       |          | 1.015                               | Not Detected | mg/L  | 0.001  | 0.005  | U  |
| * Molybdenum, Total                      | 9/23/19 11:30 | 9/24/19 14:20       |          | 1.015                               | 0.00540      | mg/L  | 0.002  | 0.01   | J  |
| * Selenium, Total                        | 9/23/19 11:30 | 9/24/19 14:20       |          | 1.015                               | Not Detected | mg/L  | 0.002  | 0.01   | U  |
| * Thallium, Total                        | 9/23/19 11:30 | 9/24/19 14:20       |          | 1.015                               | Not Detected | mg/L  | 0.0002 | 0.001  | U  |
| <b>Analytical Method: EPA 245.1</b>      |               | <b>Analyst: GAS</b> |          |                                     |              |       |        |        |    |
| * Mercury, Total by CVAA                 | 9/25/19 10:20 | 9/26/19 11:06       |          | 1                                   | Not Detected | mg/L  | 0.0003 | 0.0005 | U  |
| <b>Analytical Method: SM 2540C</b>       |               | <b>Analyst: TJW</b> |          |                                     |              |       |        |        |    |
| * Solids, Dissolved                      | 9/23/19 14:40 | 9/25/19 09:15       |          | 1                                   | 378          | mg/L  |        | 25     |    |
| <b>Analytical Method: SM4500Cl E</b>     |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |    |
| * Chloride                               | 9/24/19 12:11 | 9/24/19 12:11       |          | 10                                  | 60.7         | mg/L  | 5.00   | 10     |    |
| <b>Analytical Method: SM4500F G 2017</b> |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |    |
| * Fluoride                               | 9/25/19 11:39 | 9/25/19 11:39       |          | 1                                   | 0.0623       | mg/L  | 0.05   | 0.1    | J  |
| <b>Analytical Method: SM4500SO4 E</b>    |               | <b>Analyst: JCC</b> |          |                                     |              |       |        |        |    |
| * Sulfate                                | 9/26/19 13:32 | 9/26/19 13:32       |          | 10                                  | 102          | mg/L  | 5.00   | 10     |    |

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 10/22/2019

# Batch QC Summary

**Customer Account:** WMWGASAP  
**Sample Date:** 9/18/19 16:21  
**Customer ID:**  
**Delivery Date:** 9/19/19 11:06

**Description:** Gaston Ash Pond - MW-23D

**Laboratory ID Number:** AZ21235

| Sample  | Analysis               | Units | MB         |           | Spike | MS      | MSD     | LCS     | LCS              | Rec  |           | Prec  | Limit |
|---------|------------------------|-------|------------|-----------|-------|---------|---------|---------|------------------|------|-----------|-------|-------|
|         |                        |       | MB         | Limit     |       |         |         |         | Limit            | Rec  | Limit     |       |       |
| AZ21235 | Arsenic, Total         | mg/L  | -0.0000527 | 0.0001474 | 0.10  | 0.108   | 0.107   | 0.108   | 0.085 to 0.115   | 106  | 70 to 130 | 1.07  | 20    |
| AZ21235 | Barium, Total          | mg/L  | 0.0000146  | 0.0002    | 0.10  | 0.135   | 0.130   | 0.110   | 0.085 to 0.115   | 108  | 70 to 130 | 3.81  | 20    |
| AZ21235 | Beryllium, Total       | mg/L  | 0.0000138  | 0.00088   | 0.10  | 0.102   | 0.0973  | 0.101   | 0.085 to 0.115   | 102  | 70 to 130 | 4.41  | 20    |
| AZ21235 | Boron, Total           | mg/L  | 0.000175   | 0.0650254 | 1.00  | 2.43    | 2.41    | 1.00    | 0.85 to 1.15     | 102  | 70 to 130 | 0.853 | 20    |
| AZ21235 | Calcium, Total         | mg/L  | 0.00268    | 0.1518    | 5.00  | 50.9    | 49.5    | 5.23    | 4.25 to 5.75     | 180  | 70 to 130 | 2.79  | 20    |
| AZ21235 | Cadmium, Total         | mg/L  | 0.0000000  | 0.0001474 | 0.10  | 0.105   | 0.103   | 0.110   | 0.085 to 0.115   | 105  | 70 to 130 | 1.85  | 20    |
| AZ21235 | Cobalt, Total          | mg/L  | 0.0000040  | 0.0001474 | 0.10  | 0.103   | 0.104   | 0.111   | 0.085 to 0.115   | 103  | 70 to 130 | 0.654 | 20    |
| AZ21235 | Chromium, Total        | mg/L  | -0.0000272 | 0.00044   | 0.10  | 0.103   | 0.102   | 0.106   | 0.085 to 0.115   | 103  | 70 to 130 | 0.546 | 20    |
| AZ21235 | Mercury, Total by CVAA | mg/L  | 0.0000206  | 0.0005    | 0.004 | 0.00412 | 0.00424 | 0.00435 | 0.0034 to 0.0046 | 103  | 70 to 130 | 2.86  | 20    |
| AZ21235 | Lithium, Total         | mg/L  | -0.0000892 | 0.0154    | 0.20  | 0.225   | 0.223   | 0.200   | 0.17 to 0.23     | 113  | 70 to 130 | 1.12  | 20    |
| AZ21235 | Molybdenum, Total      | mg/L  | 0.0000507  | 0.0001474 | 0.10  | 0.106   | 0.103   | 0.103   | 0.085 to 0.115   | 100  | 70 to 130 | 2.47  | 20    |
| AZ21235 | Lead, Total            | mg/L  | 0.00000410 | 0.0001474 | 0.10  | 0.108   | 0.106   | 0.109   | 0.085 to 0.115   | 108  | 70 to 130 | 1.45  | 20    |
| AZ21235 | Antimony, Total        | mg/L  | 0.000179   | 0.00066   | 0.10  | 0.109   | 0.105   | 0.105   | 0.085 to 0.115   | 108  | 70 to 130 | 4.14  | 20    |
| AZ21235 | Selenium, Total        | mg/L  | 0.0000633  | 0.00066   | 0.10  | 0.0970  | 0.0968  | 0.110   | 0.085 to 0.115   | 97.0 | 70 to 130 | 0.202 | 20    |
| AZ21235 | Thallium, Total        | mg/L  | -0.0000097 | 0.0001474 | 0.10  | 0.114   | 0.113   | 0.114   | 0.085 to 0.115   | 114  | 70 to 130 | 1.49  | 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:** Recovery for Calcium is out of spec. Spike amount is less than 30% of the sample amount. LBM 10/22/2019

## Batch QC Summary

**Customer Account:** WMWGASAP

**Sample Date:** 9/18/19 16:21

**Customer ID:**

**Delivery Date:** 9/19/19 11:06

**Description:** Gaston Ash Pond - MW-23D

**Laboratory ID Number:** AZ21235

| Sample  | Analysis          | Units | MB      | MB    |       | MS   | MSD    | LCS  | LCS          |      | Rec       |      | Prec  |
|---------|-------------------|-------|---------|-------|-------|------|--------|------|--------------|------|-----------|------|-------|
|         |                   |       |         | Limit | Spike |      |        |      | Limit        | Rec  | Limit     | Prec | Limit |
| AZ21201 | Solids, Dissolved | mg/L  | 0.0000  | 25    | 50.0  |      | 412    | 50.0 | 40 to 60     | 100  | 80 to 120 | 0.00 | 5     |
| AZ21235 | Chloride          | mg/L  | 0.00313 | 0.50  | 100   | 164  | 61.5   | 9.90 | 9 to 11      | 103  | 80 to 120 | 1.31 | 20    |
| AZ21235 | Fluoride          | mg/L  | 0.0175  | 0.05  | 2.50  | 2.57 | 0.0549 | 2.63 | 2.25 to 2.75 | 100  | 80 to 120 | 12.6 | 20    |
| AZ21235 | Sulfate           | mg/L  | -0.444  | 0.50  | 200   | 280  | 95.6   | 19.0 | 18 to 22     | 89.0 | 80 to 120 | 6.48 | 20    |

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Laboratory certification ID: E571114

Issued By: State of Florida, Department of Health

Expiration: June 30, 2017

**Comments:** Recovery for Calcium is out of spec. Spike amount is less than 30% of the sample amount. LBM 10/22/2019

## 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                                                                       |
|-----------|-----------------------------------------------------------------------------------|
| HT        | Analysis was performed outside of the analytical holding time.                    |
| J         | Reported value is an estimate because concentration is less than reporting limit. |
| RA        | Matrix spike is invalid due to sample concentration.                              |
| U         | Compound was analyzed, but not detected.                                          |



# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA **09/19/2019 08:30**

|                                                             |                   |                                        |                                       |  |
|-------------------------------------------------------------|-------------------|----------------------------------------|---------------------------------------|--|
| Requested Complete Date<br>Site Representative<br>Collector | Routine           | Results To<br>Requested By<br>Location | Dustin Brooks,Greg Dyer,Lauren Parker |  |
|                                                             | Tanisha Fenderson |                                        | Lauren Parker                         |  |
|                                                             | TJ Daugherty      |                                        | Gaston Ash Pond                       |  |


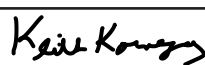
  

|         |   |        |        |   |        |        |   |     |     |   |     |     |
|---------|---|--------|--------|---|--------|--------|---|-----|-----|---|-----|-----|
| Bottles | 1 | Metals | 500 mL | 3 | TDS    | 500 mL | 5 | N/A | N/A | 7 | N/A | N/A |
|         | 2 | Hg     | 250 mL | 4 | 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-13    | 9/17/19    | 10:50 | 4            | Groundwater      |            | AZ21163 |
| MW-14    | 09/17/2019 | 12:35 | 4            | Groundwater      |            | AZ21164 |
| MW-23S   | 09/17/2019 | 15:22 | 4            | Groundwater      |            | AZ21165 |
| FB-4     | 09/17/2019 | 16:10 | 4            | Field Blank      |            | AZ21166 |
| MW-7     | 09/18/2019 | 11:00 | 4            | Groundwater      |            | AZ21167 |
| MW-6     | 09/18/2019 | 12:10 | 4            | Groundwater      |            | AZ21168 |
| MW-6 Dup | 09/18/2019 | 12:10 | 4            | Sample Duplicate |            | AZ21169 |
| MW-21    | 09/18/2019 | 13:23 | 4            | Groundwater      |            | AZ21170 |
| MW-22    | 09/18/2019 | 14:55 | 4            | Groundwater      |            | AZ21171 |
| MW-5     | 09/18/2019 | 15:42 | 4            | Groundwater      |            | AZ21172 |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |

| Relinquished By                                                                     | Received By                                                                          | Date/Time        |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------|
|  |  | 09/19/2019 08:05 |

|              |                |
|--------------|----------------|
| SmarTroll ID | 7586-41445-5-4 |
| Turbidity ID | 4677-23342-4-1 |
| Sample Event | 1240           |

All metals and radiological bottles have pH < 2

|                |                 |
|----------------|-----------------|
| Cooler Temp    | 1.9 degrees C   |
| Thermometer ID | 7044-38282-2-2  |
| pH Strip ID    | 7453-40651-10-3 |





# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA **09/19/2019 09:00**

|                         |                   |              |                                         |
|-------------------------|-------------------|--------------|-----------------------------------------|
| Requested Complete Date | Routine           | Results To   | Dustin Brooks, Greg Dyer, Lauren Parker |
| Site Representative     | Tanisha Fenderson | Requested By | Lauren Parker                           |
| Collector               | Anthony Goggins   | Location     | Gaston 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: MW-17V DISS was field filtered. LBM 9/23/19  
 Added space and S to MW-17VDIS for EDD creation. LBM 10/24/19

| Sample #    | Date       | Time  | Bottle Count | Description      | Lab Filter | Lab Id  |
|-------------|------------|-------|--------------|------------------|------------|---------|
| MW-16V      | 9/16/19    | 15:00 | 4            | Groundwater      |            | AZ21183 |
| MW-16       | 09/16/2019 | 16:11 | 4            | Groundwater      |            | AZ21184 |
| MW-16DUP    | 09/16/2019 | 16:11 | 4            | Sample Duplicate |            | AZ21185 |
| MW-28H      | 09/16/2019 | 17:07 | 4            | Groundwater      |            | AZ21186 |
| MW-29H      | 09/17/2019 | 12:00 | 4            | Groundwater      |            | AZ21187 |
| MW-17V      | 09/17/2019 | 15:22 | 4            | Groundwater      |            | AZ21188 |
| MW-17V DISS | 09/17/2019 | 15:22 | 4            | Groundwater      |            | AZ21189 |
| MW-17       | 09/17/2019 | 17:10 | 4            | Groundwater      |            | AZ21190 |
| FB-2        | 09/18/2019 | 09:20 | 4            | Field Blank      |            | AZ21191 |
| MW-17SV     | 09/18/2019 | 09:45 | 4            | Groundwater      |            | AZ21192 |
| MW-18       | 09/18/2019 | 10:48 | 4            | Groundwater      |            | AZ21193 |
| MW-20       | 09/18/2019 | 11:47 | 4            | Groundwater      |            | AZ21194 |
| MW-20SV     | 09/18/2019 | 12:46 | 4            | Groundwater      |            | AZ21195 |
| MW-20V      | 09/18/2019 | 14:19 | 4            | Groundwater      |            | AZ21196 |
| FB-3        | 09/18/2019 | 15:35 | 4            | Field Blank      |            | AZ21197 |
| MW-26       | 09/18/2019 | 15:47 | 4            | Groundwater      |            | AZ21198 |
| MW-26DUP    | 09/18/2019 | 15:47 | 4            | Sample Duplicate |            | AZ21199 |
| EB-2        | 09/18/2019 | 17:35 | 4            | Equipment Blank  |            | AZ21200 |
| MW-27       | 09/18/2019 | 17:50 | 4            | Groundwater      |            | AZ21201 |
|             |            |       |              |                  |            |         |
|             |            |       |              |                  |            |         |

|                 |             |                  |
|-----------------|-------------|------------------|
| Relinquished By | Received By | Date/Time        |
|                 |             | 09/19/2019 08:47 |
|                 |             |                  |
|                 |             |                  |

|                |                 |                                                                                     |
|----------------|-----------------|-------------------------------------------------------------------------------------|
| 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   | 1240            |                                                                                     |
|                |                 |                                                                                     |
| Cooler Temp    | 1.5 degrees C   |                                                                                     |
| Thermometer ID | 7044-38282-2-2  |                                                                                     |
| pH Strip ID    | 7453-40651-10-3 |                                                                                     |



**Chain of Custody**  
**Groundwater**  
APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

|                                                             |                   |                                        |                                       |
|-------------------------------------------------------------|-------------------|----------------------------------------|---------------------------------------|
| Requested Complete Date<br>Site Representative<br>Collector | Routine           | Results To<br>Requested By<br>Location | Dustin Brooks,Greg Dyer,Lauren Parker |
|                                                             | Tanisha Fenderson |                                        | Lauren Parker                         |
|                                                             | Dallas Gentry     |                                        | Gaston 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-10     | 9/16/19    | 10:53 | 4            | Groundwater      |            | AZ21221 |
| MW-10 dup | 09/16/2019 | 10:53 | 4            | Sample Duplicate |            | AZ21222 |
| MW-11     | 09/16/2019 | 12:35 | 4            | Groundwater      |            | AZ21223 |
| MW-12     | 09/16/2019 | 15:10 | 4            | Groundwater      |            | AZ21224 |
| FB-1      | 09/16/2019 | 15:29 | 4            | Field Blank      |            | AZ21225 |
| MW-4      | 09/17/2019 | 09:48 | 4            | Groundwater      |            | AZ21226 |
| MW-9      | 09/17/2019 | 11:42 | 4            | Groundwater      |            | AZ21227 |
| MW-8      | 09/17/2019 | 13:20 | 4            | Groundwater      |            | AZ21228 |
| MW-1      | 09/17/2019 | 15:39 | 4            | Groundwater      |            | AZ21229 |
| MW-3      | 09/17/2019 | 17:24 | 4            | Groundwater      |            | AZ21230 |
| MW-2      | 09/18/2019 | 08:11 | 4            | Groundwater      |            | AZ21231 |
| MW-19     | 09/18/2019 | 10:56 | 4            | Groundwater      |            | AZ21232 |
| EB-1      | 09/18/2019 | 11:39 | 4            | Equipment Blank  |            | AZ21233 |
| MW-15R    | 09/18/2019 | 14:26 | 4            | Groundwater      |            | AZ21234 |
| MW-23D    | 09/18/2019 | 16:21 | 4            | Groundwater      |            | AZ21235 |
|           |            |       |              |                  |            |         |
|           |            |       |              |                  |            |         |
|           |            |       |              |                  |            |         |
|           |            |       |              |                  |            |         |
|           |            |       |              |                  |            |         |
|           |            |       |              |                  |            |         |

|                 |             |                  |
|-----------------|-------------|------------------|
| Relinquished By | Received By | Date/Time        |
|                 |             | 09/19/2019 09:54 |
|                 |             |                  |
|                 |             |                  |

|              |                |                                                                                     |
|--------------|----------------|-------------------------------------------------------------------------------------|
| 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 | 1240           |                                                                                     |
|              |                |                                                                                     |
|              | Cooler Temp    | 1.3 degrees C                                                                       |
|              | Thermometer ID | 7044-38282-2-2                                                                      |
|              | pH Strip ID    | 7453-40651-10-3                                                                     |



# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA **09/19/2019 08:30**

|                                                             |                   |                                        |                                       |
|-------------------------------------------------------------|-------------------|----------------------------------------|---------------------------------------|
| Requested Complete Date<br>Site Representative<br>Collector | Routine           | Results To<br>Requested By<br>Location | Dustin Brooks,Greg Dyer,Lauren Parker |
|                                                             | Tanisha Fenderson |                                        | Lauren Parker                         |
|                                                             | TJ Daugherty      |                                        | Gaston 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 Dup @ MW-21

| Sample # | Date       | Time  | Bottle Count | Description      | Lab Filter | Lab Id  |
|----------|------------|-------|--------------|------------------|------------|---------|
| MW-13    | 9/17/19    | 10:50 | 1            | Groundwater      |            | AZ21173 |
| MW-14    | 09/17/2019 | 12:35 | 1            | Groundwater      |            | AZ21174 |
| MW-23S   | 09/17/2019 | 15:22 | 1            | Groundwater      |            | AZ21175 |
| FB-4     | 09/17/2019 | 16:10 | 1            | Field Blank      |            | AZ21176 |
| MW-7     | 09/18/2019 | 11:00 | 1            | Groundwater      |            | AZ21177 |
| MW-6     | 09/18/2019 | 12:10 | 1            | Groundwater      |            | AZ21178 |
| MW-6 Dup | 09/18/2019 | 12:10 | 1            | Sample Duplicate |            | AZ21179 |
| MW-21    | 09/18/2019 | 13:23 | 3            | Groundwater      |            | AZ21180 |
| MW-22    | 09/18/2019 | 14:55 | 1            | Groundwater      |            | AZ21181 |
| MW-5     | 09/18/2019 | 15:42 | 1            | Groundwater      |            | AZ21182 |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |

|                 |             |                  |
|-----------------|-------------|------------------|
| Relinquished By | Received By | Date/Time        |
|                 |             | 09/19/2019 08:05 |

|              |                |
|--------------|----------------|
| SmarTroll ID | 7586-41445-5-4 |
| Turbidity ID | 4677-23342-4-1 |
| Sample Event | 1240           |

All metals and radiological bottles have pH < 2

|                |                 |
|----------------|-----------------|
| Cooler Temp    | NA              |
| Thermometer ID | NA              |
| pH Strip ID    | 7453-40651-10-3 |



# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA **09/19/2019 09:00**

|                         |                   |              |                                         |
|-------------------------|-------------------|--------------|-----------------------------------------|
| Requested Complete Date | Routine           | Results To   | Dustin Brooks, Greg Dyer, Lauren Parker |
| Site Representative     | Tanisha Fenderson | Requested By | Lauren Parker                           |
| Collector               | Anthony Goggins   | Location     | Gaston 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-28H; Filtered Set collected on MW-17VDIS |
|----------|---------------------------------------------------------------------------|

| Sample #  | Date       | Time  | Bottle Count | Description      | Lab Filter | Lab Id  |
|-----------|------------|-------|--------------|------------------|------------|---------|
| MW-16V    | 9/16/19    | 15:00 | 1            | Groundwater      |            | AZ21202 |
| MW-16     | 09/16/2019 | 16:11 | 1            | Groundwater      |            | AZ21203 |
| MW-16DUP  | 09/16/2019 | 16:11 | 1            | Sample Duplicate |            | AZ21204 |
| MW-28H    | 09/16/2019 | 17:07 | 3            | Groundwater      |            | AZ21205 |
| MW-29H    | 09/17/2019 | 12:00 | 1            | Groundwater      |            | AZ21206 |
| MW-17V    | 09/17/2019 | 15:22 | 1            | Groundwater      |            | AZ21207 |
| MW-17VDIS | 09/17/2019 | 15:22 | 1            | Groundwater      |            | AZ21208 |
| MW-17     | 09/17/2019 | 17:10 | 1            | Groundwater      |            | AZ21209 |
| FB-2      | 09/18/2019 | 09:20 | 1            | Field Blank      |            | AZ21210 |
| MW-17SV   | 09/18/2019 | 09:45 | 1            | Groundwater      |            | AZ21211 |
| MW-18     | 09/18/2019 | 10:48 | 1            | Groundwater      |            | AZ21212 |
| MW-20     | 09/18/2019 | 11:47 | 1            | Groundwater      |            | AZ21213 |
| MW-20SV   | 09/18/2019 | 12:46 | 1            | Groundwater      |            | AZ21214 |
| MW-20V    | 09/18/2019 | 14:19 | 1            | Groundwater      |            | AZ21215 |
| FB-3      | 09/18/2019 | 15:35 | 1            | Field Blank      |            | AZ21216 |
| MW-26     | 09/18/2019 | 15:47 | 1            | Groundwater      |            | AZ21217 |
| MW-26DUP  | 09/18/2019 | 15:47 | 1            | Sample Duplicate |            | AZ21218 |
| EB-2      | 09/18/2019 | 17:35 | 1            | Equipment Blank  |            | AZ21219 |
| MW-27     | 09/18/2019 | 17:50 | 1            | Groundwater      |            | AZ21220 |
|           |            |       |              |                  |            |         |
|           |            |       |              |                  |            |         |

|                 |             |                  |
|-----------------|-------------|------------------|
| Relinquished By | Received By | Date/Time        |
|                 |             | 09/19/2019 08:48 |
|                 |             |                  |
|                 |             |                  |

|              |                |
|--------------|----------------|
| SmarTroll ID | 7586-41442-5-1 |
| Turbidity ID | 5160-26211-1-1 |
| Sample Event | 1240           |

All metals and radiological bottles have pH < 2

|                |                 |
|----------------|-----------------|
| Cooler Temp    | NA              |
| Thermometer ID | NA              |
| pH Strip ID    | 7453-40651-10-3 |



**Chain of Custody**  
**Groundwater**  
APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

|                                                             |                   |                                        |                                       |
|-------------------------------------------------------------|-------------------|----------------------------------------|---------------------------------------|
| Requested Complete Date<br>Site Representative<br>Collector | Routine           | Results To<br>Requested By<br>Location | Dustin Brooks,Greg Dyer,Lauren Parker |
|                                                             | Tanisha Fenderson |                                        | Lauren Parker                         |
|                                                             | Dallas Gentry     |                                        | Gaston 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-11. Correcting MW-10 DUP to sample duplicate. LBM 9/23/2019

| Sample #  | Date       | Time  | Bottle Count | Description      | Lab Filter | Lab Id  |
|-----------|------------|-------|--------------|------------------|------------|---------|
| MW-10     | 9/16/19    | 10:53 | 1            | Groundwater      |            | AZ21236 |
| MW-10 dup | 09/16/2019 | 10:53 | 1            | Sample Duplicate |            | AZ21237 |
| MW-11     | 09/16/2019 | 12:35 | 3            | Groundwater      |            | AZ21238 |
| MW-12     | 09/16/2019 | 15:10 | 1            | Groundwater      |            | AZ21239 |
| FB-1      | 09/16/2019 | 15:29 | 1            | Field Blank      |            | AZ21240 |
| MW-4      | 09/17/2019 | 09:48 | 1            | Groundwater      |            | AZ21241 |
| MW-9      | 09/17/2019 | 11:42 | 1            | Groundwater      |            | AZ21242 |
| MW-8      | 09/17/2019 | 13:20 | 1            | Groundwater      |            | AZ21243 |
| MW-1      | 09/17/2019 | 15:39 | 1            | Groundwater      |            | AZ21244 |
| MW-3      | 09/17/2019 | 17:24 | 1            | Groundwater      |            | AZ21245 |
| MW-2      | 09/18/2019 | 08:11 | 1            | Groundwater      |            | AZ21246 |
| MW-19     | 09/18/2019 | 10:56 | 1            | Groundwater      |            | AZ21247 |
| EB-1      | 09/18/2019 | 11:39 | 1            | Equipment Blank  |            | AZ21248 |
| MW-15R    | 09/18/2019 | 14:26 | 1            | Groundwater      |            | AZ21249 |
| MW-23D    | 09/18/2019 | 16:21 | 1            | Groundwater      |            | AZ21250 |
|           |            |       |              |                  |            |         |
|           |            |       |              |                  |            |         |
|           |            |       |              |                  |            |         |
|           |            |       |              |                  |            |         |
|           |            |       |              |                  |            |         |
|           |            |       |              |                  |            |         |

|                      |                     |                  |
|----------------------|---------------------|------------------|
| Relinquished By      | Received By         | Date/Time        |
| <i>Dallas Gentry</i> | <i>Krista Kozay</i> | 09/19/2019 09:54 |
|                      |                     |                  |
|                      |                     |                  |

|              |                |                                                                                     |                 |
|--------------|----------------|-------------------------------------------------------------------------------------|-----------------|
| 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 | 1240           |                                                                                     |                 |
|              |                |                                                                                     |                 |
|              |                | Cooler Temp                                                                         | NA              |
|              |                | Thermometer ID                                                                      | NA              |
|              |                | pH Strip ID                                                                         | 7453-40651-10-3 |

## ANALYTICAL REPORT

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

Laboratory Job ID: 400-176940-1  
Laboratory Sample Delivery Group: Gaston Ash Pond 1240  
Client Project/Site: CCR Plant Gaston

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

Attn: Laura Midkiff



Authorized for release by:  
11/4/2019 2:31:33 PM

Cheyenne Whitmire, Project Manager II  
(850)471-6222  
[cheyenne.whitmire@testamericainc.com](mailto:cheyenne.whitmire@testamericainc.com)

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*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 Gaston

Job ID: 400-176940-1  
SDG: Gaston Ash Pond 1240

**Job ID: 400-176940-1**

**Laboratory: Eurofins TestAmerica, Pensacola**

## Narrative

### Job Narrative 400-176940-1

#### RAD

Methods 9315: Radium-226 prep batch 160-444529. 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. AZ21244 MW-1 (400-176940-38), AZ21245 MW-3 (400-176940-39), AZ21246 MW-2 (400-176940-40), AZ21247 MW-19 (400-176940-41), AZ21248 EB-1 (400-176940-42), AZ21249 MW-15R (400-176940-43), AZ21250 MW-23D (400-176940-44), (LCS 160-444529/1-A), (LCSD 160-444529/2-A) and (MB 160-444529/12-A)

Method 9315: Radium-226 prep batch 160-444528. 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. AZ21210 FB-2 (400-176940-19), AZ21211 MW-17SV (400-176940-20), AZ21212 MW-18 (400-176940-21), AZ21213 MW-20 (400-176940-22), AZ21214 MW-20SV (400-176940-23), AZ21215 MW-20V (400-176940-24), AZ21216 FB-3 (400-176940-25), AZ21217 MW-26 (400-176940-26), AZ21218 MW-26 DUP (400-176940-27), AZ21219 EB-2 (400-176940-28), AZ21220 MW-27 (400-176940-29), AZ21236 MW-10 (400-176940-30), AZ21237 MW-10 DUP (400-176940-31), AZ21238 MW-11 (400-176940-32), AZ21238 MW-11 (400-176940-32[DUJ]), AZ21239 MW-12 (400-176940-33), AZ21240 FB-1 (400-176940-34), AZ21241 MW-4 (400-176940-35), AZ21242 MW-9 (400-176940-36), AZ21243 MW-8 (400-176940-37), (LCS 160-444528/1-A) and (MB 160-444528/22-A)

Method 9315: Radium-226 prep batch 160-444528. 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. AZ21210 FB-2 (400-176940-19), AZ21211 MW-17SV (400-176940-20), AZ21212 MW-18 (400-176940-21), AZ21213 MW-20 (400-176940-22), AZ21214 MW-20SV (400-176940-23), AZ21215 MW-20V (400-176940-24), AZ21216 FB-3 (400-176940-25), AZ21217 MW-26 (400-176940-26), AZ21218 MW-26 DUP (400-176940-27), AZ21219 EB-2 (400-176940-28), AZ21220 MW-27 (400-176940-29), AZ21236 MW-10 (400-176940-30), AZ21237 MW-10 DUP (400-176940-31), AZ21238 MW-11 (400-176940-32), AZ21238 MW-11 (400-176940-32[DUJ]), AZ21239 MW-12 (400-176940-33), AZ21240 FB-1 (400-176940-34), AZ21241 MW-4 (400-176940-35), AZ21242 MW-9 (400-176940-36), AZ21243 MW-8 (400-176940-37), (LCS 160-444528/1-A) and (MB 160-444528/22-A)

Method 9315: Radium-226 prep batch 160-444527. 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. AZ21173 MW-13 (400-176940-1), AZ21174 MW-14 (400-176940-2), AZ21175 MW-23S (400-176940-3), AZ21176 FB-4 (400-176940-4), AZ21177 MW-7 (400-176940-5), AZ21178 MW-6 (400-176940-6), AZ21179 MW-6 DUP (400-176940-7), AZ21180 MW-21 (400-176940-8), AZ21180 MW-21 (400-176940-8[DUJ]), AZ21181 MW-22 (400-176940-9), AZ21182 MW-5 (400-176940-10), AZ21202 MW-16V (400-176940-11), AZ21203 MW-16 (400-176940-12), AZ21204 MW-16 DUP (400-176940-13), AZ21205 MW-28H (400-176940-14), AZ21205 MW-28H (400-176940-14[DUJ]), AZ21206 MW-29H (400-176940-15), AZ21207 MW-17V (400-176940-16), AZ21208 MW-17VDIS (400-176940-17), AZ21209 MW-17 (400-176940-18), (LCS 160-444527/1-A) and (MB 160-444527/22-A)

Methods 904.0, 9320: Radium-228 Prep Batch 160-444551. 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. AZ21244 MW-1 (400-176940-38), AZ21245 MW-3 (400-176940-39), AZ21246 MW-2 (400-176940-40), AZ21247 MW-19 (400-176940-41), AZ21248 EB-1 (400-176940-42), AZ21249 MW-15R (400-176940-43), AZ21250 MW-23D (400-176940-44), (LCS 160-444551/1-A), (LCSD 160-444551/2-A) and (MB 160-444551/12-A)

Method 9320: Ra-228 Prep Batch 160-444542. 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. AZ21210 FB-2 (400-176940-19), AZ21211 MW-17SV (400-176940-20), AZ21212 MW-18 (400-176940-21), AZ21213 MW-20 (400-176940-22), AZ21214 MW-20SV (400-176940-23), AZ21215 MW-20V (400-176940-24), AZ21216 FB-3 (400-176940-25), AZ21217 MW-26 (400-176940-26), AZ21218 MW-26 DUP (400-176940-27), AZ21219 EB-2 (400-176940-28), AZ21220 MW-27 (400-176940-29), AZ21236 MW-10 (400-176940-30), AZ21237 MW-10 DUP (400-176940-31), AZ21238 MW-11 (400-176940-32), AZ21238 MW-11 (400-176940-32[DUJ]), AZ21239 MW-12 (400-176940-33), AZ21240



# Case Narrative

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

Job ID: 400-176940-1  
SDG: Gaston Ash Pond 1240

## Job ID: 400-176940-1 (Continued)

### Laboratory: Eurofins TestAmerica, Pensacola (Continued)

FB-1 (400-176940-34), AZ21241 MW-4 (400-176940-35), AZ21242 MW-9 (400-176940-36), AZ21243 MW-8 (400-176940-37), (LCS 160-444542/1-A) and (MB 160-444542/22-A)

Method 9320: Radium-228 Prep Batch 160-444533. The following batch 444533 had a high LCS (136%, high limit is 125%). The batch also has 2 duplicates logged (samples 8 and 14), and duplicate precision for sample 8 is failing but for sample 14 is passing. The data has been reported with this narrative. AZ21174 MW-14 (400-176940-2), AZ21175 MW-23S (400-176940-3), AZ21176 FB-4 (400-176940-4), AZ21177 MW-7 (400-176940-5), AZ21178 MW-6 (400-176940-6), AZ21179 MW-6 DUP (400-176940-7), AZ21180 MW-21 (400-176940-8), AZ21180 MW-21 (400-176940-8[DU]), AZ21181 MW-22 (400-176940-9), AZ21182 MW-5 (400-176940-10), (LCS 160-444533/1-A) and (MB 160-444533/22-A)

Method 9320: Radium-228 Prep Batch 160-444533. 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. AZ21174 MW-14 (400-176940-2), AZ21175 MW-23S (400-176940-3), AZ21176 FB-4 (400-176940-4), AZ21177 MW-7 (400-176940-5), AZ21178 MW-6 (400-176940-6), AZ21179 MW-6 DUP (400-176940-7), AZ21180 MW-21 (400-176940-8), AZ21180 MW-21 (400-176940-8[DU]), AZ21181 MW-22 (400-176940-9), AZ21182 MW-5 (400-176940-10), (LCS 160-444533/1-A) and (MB 160-444533/22-A)

Methods 9320: Radium-228 Prep Batch 160-447604. The detection goal was not met for the following samples due to insufficient sample available for analysis: AZ21173 MW-13 (400-176940-1), AZ21203 MW-16 (400-176940-12), AZ21204 MW-16 DUP (400-176940-13), AZ21205 MW-28H (400-176940-14), AZ21205 MW-28H (400-176940-14[DU]), AZ21206 MW-29H (400-176940-15), AZ21207 MW-17V (400-176940-16), AZ21208 MW-17VDIS (400-176940-17), AZ21209 MW-17 (400-176940-18) and (MB 160-447604/20-A). Samples were reduced for re-prep; see Prep NCM 160-181450. Analytical results are reported with the detection limit achieved.

Methods 9320: Radium-228 prep batch 160-447604. 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. AZ21173 MW-13 (400-176940-1), AZ21202 MW-16V (400-176940-11), AZ21203 MW-16 (400-176940-12), AZ21204 MW-16 DUP (400-176940-13), AZ21205 MW-28H (400-176940-14), AZ21205 MW-28H (400-176940-14[DU]), AZ21206 MW-29H (400-176940-15), AZ21207 MW-17V (400-176940-16), AZ21208 MW-17VDIS (400-176940-17), AZ21209 MW-17 (400-176940-18), (LCS 160-447604/1-A) and (MB 160-447604/20-A)

Method PrecSep\_0: Radium 228 Prep Batch 160-444533. The following samples were prepared at a reduced aliquot due to limited volume: AZ21173 MW-13 (400-176940-1), AZ21174 MW-14 (400-176940-2), AZ21175 MW-23S (400-176940-3), AZ21176 FB-4 (400-176940-4), AZ21177 MW-7 (400-176940-5), AZ21178 MW-6 (400-176940-6), AZ21179 MW-6 DUP (400-176940-7), AZ21180 MW-21 (400-176940-8), AZ21180 MW-21 (400-176940-8[DU]), AZ21181 MW-22 (400-176940-9), AZ21182 MW-5 (400-176940-10), AZ21202 MW-16V (400-176940-11), AZ21203 MW-16 (400-176940-12), AZ21204 MW-16 DUP (400-176940-13), AZ21205 MW-28H (400-176940-14), AZ21205 MW-28H (400-176940-14[DU]), AZ21206 MW-29H (400-176940-15), AZ21207 MW-17V (400-176940-16), AZ21208 MW-17VDIS (400-176940-17) and AZ21209 MW-17 (400-176940-18).

Method PrecSep\_0: Radium 228 Prep Batch 160-444542. The following samples were prepared at a reduced aliquot due to limited volume: AZ21210 FB-2 (400-176940-19), AZ21211 MW-17SV (400-176940-20), AZ21212 MW-18 (400-176940-21), AZ21213 MW-20 (400-176940-22), AZ21214 MW-20SV (400-176940-23), AZ21215 MW-20V (400-176940-24), AZ21216 FB-3 (400-176940-25), AZ21217 MW-26 (400-176940-26), AZ21218 MW-26 DUP (400-176940-27), AZ21219 EB-2 (400-176940-28), AZ21220 MW-27 (400-176940-29), AZ21236 MW-10 (400-176940-30), AZ21237 MW-10 DUP (400-176940-31), AZ21238 MW-11 (400-176940-32), AZ21238 MW-11 (400-176940-32[DU]), AZ21239 MW-12 (400-176940-33), AZ21240 FB-1 (400-176940-34), AZ21241 MW-4 (400-176940-35), AZ21242 MW-9 (400-176940-36) and AZ21243 MW-8 (400-176940-37).

Method PrecSep\_0: Radium 228 Prep Batch 160-444551. The following samples were prepared at a reduced aliquot due to limited volume: AZ21244 MW-1 (400-176940-38), AZ21245 MW-3 (400-176940-39), AZ21246 MW-2 (400-176940-40), AZ21247 MW-19 (400-176940-41), AZ21248 EB-1 (400-176940-42), AZ21249 MW-15R (400-176940-43) and AZ21250 MW-23D (400-176940-44).

Method PrecSep\_0: Radium 228 Prep Batch 160-444551. Insufficient sample volume was available to perform a sample duplicate for the following samples: AZ21244 MW-1 (400-176940-38), AZ21245 MW-3 (400-176940-39), AZ21246 MW-2 (400-176940-40), AZ21247 MW-19 (400-176940-41), AZ21248 EB-1 (400-176940-42), AZ21249 MW-15R (400-176940-43) and AZ21250 MW-23D (400-176940-44). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

# Case Narrative

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

Job ID: 400-176940-1  
SDG: Gaston Ash Pond 1240

## Job ID: 400-176940-1 (Continued)

### Laboratory: Eurofins TestAmerica, Pensacola (Continued)

Method PrecSep\_0: Radium 228 Prep Batch 160-444533. Approximately 7 mL of the laboratory control sample associated with the following samples was lost during the lead cleaning process: AZ21173 MW-13 (400-176940-1), AZ21174 MW-14 (400-176940-2), AZ21175 MW-23S (400-176940-3), AZ21176 FB-4 (400-176940-4), AZ21177 MW-7 (400-176940-5), AZ21178 MW-6 (400-176940-6), AZ21179 MW-6 DUP (400-176940-7), AZ21180 MW-21 (400-176940-8), AZ21180 MW-21 (400-176940-8[DUJ]), AZ21181 MW-22 (400-176940-9), AZ21182 MW-5 (400-176940-10), AZ21202 MW-16V (400-176940-11), AZ21203 MW-16 (400-176940-12), AZ21204 MW-16 DUP (400-176940-13), AZ21205 MW-28H (400-176940-14), AZ21205 MW-28H (400-176940-14[DUJ]), AZ21206 MW-29H (400-176940-15), AZ21207 MW-17V (400-176940-16), AZ21208 MW-17VDIS (400-176940-17) and AZ21209 MW-17 (400-176940-18). The yttrium carrier recovery was below normal but still in passing range.

Method PrecSep\_0: Radium 228 Prep Batch 160-447604. Due to insufficient volume, the following samples were prepared a reduced aliquot for re-prep: AZ21173 MW-13 (400-176940-1), AZ21202 MW-16V (400-176940-11), AZ21203 MW-16 (400-176940-12), AZ21204 MW-16 DUP (400-176940-13), AZ21205 MW-28H (400-176940-14), AZ21205 MW-28H (400-176940-14[DUJ]), AZ21206 MW-29H (400-176940-15), AZ21207 MW-17V (400-176940-16), AZ21208 MW-17VDIS (400-176940-17) and AZ21209 MW-17 (400-176940-18). Samples 180-96077-D-3 and 180-96077-C-7 had yellow discoloration.

Method PrecSep-21: Radium 226 Prep Batch 160-444527. The following samples were prepared at a reduced aliquot due to limited volume: AZ21173 MW-13 (400-176940-1), AZ21174 MW-14 (400-176940-2), AZ21175 MW-23S (400-176940-3), AZ21176 FB-4 (400-176940-4), AZ21177 MW-7 (400-176940-5), AZ21178 MW-6 (400-176940-6), AZ21179 MW-6 DUP (400-176940-7), AZ21180 MW-21 (400-176940-8), AZ21180 MW-21 (400-176940-8[DUJ]), AZ21181 MW-22 (400-176940-9), AZ21182 MW-5 (400-176940-10), AZ21202 MW-16V (400-176940-11), AZ21203 MW-16 (400-176940-12), AZ21204 MW-16 DUP (400-176940-13), AZ21205 MW-28H (400-176940-14), AZ21205 MW-28H (400-176940-14[DUJ]), AZ21206 MW-29H (400-176940-15), AZ21207 MW-17V (400-176940-16), AZ21208 MW-17VDIS (400-176940-17) and AZ21209 MW-17 (400-176940-18).

Method PrecSep-21: Radium 226 Prep Batch 160-444528. The following samples were prepared at a reduced aliquot due to limited volume: AZ21210 FB-2 (400-176940-19), AZ21211 MW-17SV (400-176940-20), AZ21212 MW-18 (400-176940-21), AZ21213 MW-20 (400-176940-22), AZ21214 MW-20SV (400-176940-23), AZ21215 MW-20V (400-176940-24), AZ21216 FB-3 (400-176940-25), AZ21217 MW-26 (400-176940-26), AZ21218 MW-26 DUP (400-176940-27), AZ21219 EB-2 (400-176940-28), AZ21220 MW-27 (400-176940-29), AZ21236 MW-10 (400-176940-30), AZ21237 MW-10 DUP (400-176940-31), AZ21238 MW-11 (400-176940-32), AZ21238 MW-11 (400-176940-32[DUJ]), AZ21239 MW-12 (400-176940-33), AZ21240 FB-1 (400-176940-34), AZ21241 MW-4 (400-176940-35), AZ21242 MW-9 (400-176940-36) and AZ21243 MW-8 (400-176940-37).

Method PrecSep-21: Radium 226 Prep Batch 160-444529. The following samples were prepared at a reduced aliquot due to limited volume: AZ21244 MW-1 (400-176940-38), AZ21245 MW-3 (400-176940-39), AZ21246 MW-2 (400-176940-40), AZ21247 MW-19 (400-176940-41), AZ21248 EB-1 (400-176940-42), AZ21249 MW-15R (400-176940-43) and AZ21250 MW-23D (400-176940-44).

Method PrecSep-21: Radium 226 Prep Batch 160-444529. Insufficient sample volume was available to perform a sample duplicate for the following samples: AZ21244 MW-1 (400-176940-38), AZ21245 MW-3 (400-176940-39), AZ21246 MW-2 (400-176940-40), AZ21247 MW-19 (400-176940-41), AZ21248 EB-1 (400-176940-42), AZ21249 MW-15R (400-176940-43) and AZ21250 MW-23D (400-176940-44). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-444527. Approximately 7 mL of the laboratory control sample associated with the following samples was lost during the lead cleaning process: AZ21173 MW-13 (400-176940-1), AZ21174 MW-14 (400-176940-2), AZ21175 MW-23S (400-176940-3), AZ21176 FB-4 (400-176940-4), AZ21177 MW-7 (400-176940-5), AZ21178 MW-6 (400-176940-6), AZ21179 MW-6 DUP (400-176940-7), AZ21180 MW-21 (400-176940-8), AZ21180 MW-21 (400-176940-8[DUJ]), AZ21181 MW-22 (400-176940-9), AZ21182 MW-5 (400-176940-10), AZ21202 MW-16V (400-176940-11), AZ21203 MW-16 (400-176940-12), AZ21204 MW-16 DUP (400-176940-13), AZ21205 MW-28H (400-176940-14), AZ21205 MW-28H (400-176940-14[DUJ]), AZ21206 MW-29H (400-176940-15), AZ21207 MW-17V (400-176940-16), AZ21208 MW-17VDIS (400-176940-17) and AZ21209 MW-17 (400-176940-18). The yttrium carrier recovery was below normal but still in passing range.

# Method Summary

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

Job ID: 400-176940-1  
SDG: Gaston Ash Pond 1240

| 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 Gaston

Job ID: 400-176940-1  
SDG: Gaston Ash Pond 1240

| Lab Sample ID | Client Sample ID   | Matrix | Collected      | Received       | Asset ID |
|---------------|--------------------|--------|----------------|----------------|----------|
| 400-176940-1  | AZ21173 MW-13      | Water  | 09/17/19 10:50 | 09/25/19 11:50 |          |
| 400-176940-2  | AZ21174 MW-14      | Water  | 09/17/19 12:35 | 09/25/19 11:50 |          |
| 400-176940-3  | AZ21175 MW-23S     | Water  | 09/17/19 15:22 | 09/25/19 11:50 |          |
| 400-176940-4  | AZ21176 FB-4       | Water  | 09/17/19 16:10 | 09/25/19 11:50 |          |
| 400-176940-5  | AZ21177 MW-7       | Water  | 09/18/19 11:00 | 09/25/19 11:50 |          |
| 400-176940-6  | AZ21178 MW-6       | Water  | 09/18/19 12:10 | 09/25/19 11:50 |          |
| 400-176940-7  | AZ21179 MW-6 DUP   | Water  | 09/18/19 12:10 | 09/25/19 11:50 |          |
| 400-176940-8  | AZ21180 MW-21      | Water  | 09/18/19 13:23 | 09/25/19 11:50 |          |
| 400-176940-9  | AZ21181 MW-22      | Water  | 09/18/19 14:55 | 09/25/19 11:50 |          |
| 400-176940-10 | AZ21182 MW-5       | Water  | 09/18/19 15:42 | 09/25/19 11:50 |          |
| 400-176940-11 | AZ21202 MW-16V     | Water  | 09/16/19 15:00 | 09/25/19 11:50 |          |
| 400-176940-12 | AZ21203 MW-16      | Water  | 09/16/19 16:11 | 09/25/19 11:50 |          |
| 400-176940-13 | AZ21204 MW-16 DUP  | Water  | 09/16/19 16:11 | 09/25/19 11:50 |          |
| 400-176940-14 | AZ21205 MW-28H     | Water  | 09/16/19 17:07 | 09/25/19 11:50 |          |
| 400-176940-15 | AZ21206 MW-29H     | Water  | 09/17/19 12:00 | 09/25/19 11:50 |          |
| 400-176940-16 | AZ21207 MW-17V     | Water  | 09/17/19 15:22 | 09/25/19 11:50 |          |
| 400-176940-17 | AZ21208 MW-17V DIS | Water  | 09/17/19 15:22 | 09/25/19 11:50 |          |
| 400-176940-18 | AZ21209 MW-17      | Water  | 09/17/19 17:10 | 09/25/19 11:50 |          |
| 400-176940-19 | AZ21210 FB-2       | Water  | 09/18/19 09:20 | 09/25/19 11:50 |          |
| 400-176940-20 | AZ21211 MW-17SV    | Water  | 09/18/19 09:45 | 09/25/19 11:50 |          |
| 400-176940-21 | AZ21212 MW-18      | Water  | 09/18/19 10:48 | 09/25/19 11:50 |          |
| 400-176940-22 | AZ21213 MW-20      | Water  | 09/18/19 11:47 | 09/25/19 11:50 |          |
| 400-176940-23 | AZ21214 MW-20SV    | Water  | 09/18/19 12:46 | 09/25/19 11:50 |          |
| 400-176940-24 | AZ21215 MW-20V     | Water  | 09/18/19 14:19 | 09/25/19 11:50 |          |
| 400-176940-25 | AZ21216 FB-3       | Water  | 09/18/19 15:35 | 09/25/19 11:50 |          |
| 400-176940-26 | AZ21217 MW-26      | Water  | 09/18/19 15:47 | 09/25/19 11:50 |          |
| 400-176940-27 | AZ21218 MW-26 DUP  | Water  | 09/18/19 15:47 | 09/25/19 11:50 |          |
| 400-176940-28 | AZ21219 EB-2       | Water  | 09/18/19 17:35 | 09/25/19 11:50 |          |
| 400-176940-29 | AZ21220 MW-27      | Water  | 09/18/19 17:50 | 09/25/19 11:50 |          |
| 400-176940-30 | AZ21236 MW-10      | Water  | 09/16/19 10:53 | 09/25/19 11:50 |          |
| 400-176940-31 | AZ21237 MW-10 DUP  | Water  | 09/16/19 10:53 | 09/25/19 11:50 |          |
| 400-176940-32 | AZ21238 MW-11      | Water  | 09/16/19 12:35 | 09/25/19 11:50 |          |
| 400-176940-33 | AZ21239 MW-12      | Water  | 09/16/19 15:10 | 09/25/19 11:50 |          |
| 400-176940-34 | AZ21240 FB-1       | Water  | 09/16/19 15:29 | 09/25/19 11:50 |          |
| 400-176940-35 | AZ21241 MW-4       | Water  | 09/17/19 09:48 | 09/25/19 11:50 |          |
| 400-176940-36 | AZ21242 MW-9       | Water  | 09/17/19 11:42 | 09/25/19 11:50 |          |
| 400-176940-37 | AZ21243 MW-8       | Water  | 09/17/19 13:20 | 09/25/19 11:50 |          |
| 400-176940-38 | AZ21244 MW-1       | Water  | 09/17/19 15:39 | 09/25/19 11:50 |          |
| 400-176940-39 | AZ21245 MW-3       | Water  | 09/17/19 17:24 | 09/25/19 11:50 |          |
| 400-176940-40 | AZ21246 MW-2       | Water  | 09/18/19 08:11 | 09/25/19 11:50 |          |
| 400-176940-41 | AZ21247 MW-19      | Water  | 09/18/19 10:56 | 09/25/19 11:50 |          |
| 400-176940-42 | AZ21248 EB-1       | Water  | 09/18/19 11:39 | 09/25/19 11:50 |          |
| 400-176940-43 | AZ21249 MW-15R     | Water  | 09/18/19 14:26 | 09/25/19 11:50 |          |
| 400-176940-44 | AZ21250 MW-23D     | Water  | 09/18/19 16:21 | 09/25/19 11:50 |          |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21173 MW-13**

**Lab Sample ID: 400-176940-1**

Date Collected: 09/17/19 10:50

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.273  |           | 0.141                       | 0.144                       | 1.00 | 0.180 | pCi/L | 09/30/19 07:11 | 10/23/19 22:53 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 91.2   |           | 40 - 110                    |                             |      |       |       | 09/30/19 07:11 | 10/23/19 22:53 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC  | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|------|-------|----------------|----------------|---------|
| Radium-228 | 0.685  | U G       | 0.780                       | 0.783                       | 1.00 | 1.28 | pCi/L | 10/24/19 14:59 | 10/31/19 09:11 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |      |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 91.3   |           | 40 - 110                    |                             |      |      |       | 10/24/19 14:59 | 10/31/19 09:11 | 1       |
| Y Carrier  | 86.7   |           | 40 - 110                    |                             |      |      |       | 10/24/19 14:59 | 10/31/19 09:11 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC  | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | 0.958  | U         | 0.793                       | 0.796                       | 5.00 | 1.28 | pCi/L |          | 11/04/19 08:22 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21174 MW-14**

**Lab Sample ID: 400-176940-2**

Date Collected: 09/17/19 12:35

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte           | Result       | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|-------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| <b>Radium-226</b> | <b>0.250</b> |           | 0.132                       | 0.134                       | 1.00 | 0.168 | pCi/L | 09/30/19 07:11 | 10/23/19 22:53 | 1       |
| Carrier           | %Yield       | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier        | 95.2         |           | 40 - 110                    |                             |      |       |       | 09/30/19 07:11 | 10/23/19 22:53 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.308  | U *       | 0.354                       | 0.355                       | 1.00 | 0.583 | pCi/L | 09/30/19 08:23 | 10/16/19 09:14 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 95.2   |           | 40 - 110                    |                             |      |       |       | 09/30/19 08:23 | 10/16/19 09:14 | 1       |
| Y Carrier  | 77.4   |           | 40 - 110                    |                             |      |       |       | 09/30/19 08:23 | 10/16/19 09:14 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | 0.558  | U         | 0.378                       | 0.379                       | 5.00 | 0.583 | pCi/L |          | 11/04/19 08:22 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21175 MW-23S**

**Lab Sample ID: 400-176940-3**

Date Collected: 09/17/19 15:22

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte           | Result       | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|-------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| <b>Radium-226</b> | <b>0.225</b> |           | 0.130                       | 0.131                       | 1.00 | 0.175 | pCi/L | 09/30/19 07:11 | 10/23/19 22:53 | 1       |
| Carrier           | %Yield       | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier        | 92.4         |           | 40 - 110                    |                             |      |       |       | 09/30/19 07:11 | 10/23/19 22:53 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.507  | U *       | 0.356                       | 0.359                       | 1.00 | 0.555 | pCi/L | 09/30/19 08:23 | 10/16/19 09:14 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 92.4   |           | 40 - 110                    |                             |      |       |       | 09/30/19 08:23 | 10/16/19 09:14 | 1       |
| Y Carrier  | 78.5   |           | 40 - 110                    |                             |      |       |       | 09/30/19 08:23 | 10/16/19 09:14 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                              | Result       | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| <b>Combined Radium<br/>226 + 228</b> | <b>0.732</b> |           | 0.379                       | 0.382                       | 5.00 | 0.555 | pCi/L |          | 11/04/19 08:22 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21176 FB-4**

**Lab Sample ID: 400-176940-4**

Date Collected: 09/17/19 16:10

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte    | Result  | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | -0.0138 | U         | 0.102                       | 0.102                       | 1.00 | 0.205 | pCi/L | 09/30/19 07:11 | 10/23/19 22:53 | 1       |
| Carrier    | %Yield  | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 90.7    |           | 40 - 110                    |                             |      |       |       | 09/30/19 07:11 | 10/23/19 22:53 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.261  | U *       | 0.319                       | 0.320                       | 1.00 | 0.527 | pCi/L | 09/30/19 08:23 | 10/16/19 09:14 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 90.7   |           | 40 - 110                    |                             |      |       |       | 09/30/19 08:23 | 10/16/19 09:14 | 1       |
| Y Carrier  | 81.1   |           | 40 - 110                    |                             |      |       |       | 09/30/19 08:23 | 10/16/19 09:14 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | 0.247  | U         | 0.335                       | 0.336                       | 5.00 | 0.527 | pCi/L |          | 11/04/19 08:22 | 1       |



# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21177 MW-7**

**Lab Sample ID: 400-176940-5**

Date Collected: 09/18/19 11:00

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.119  | U         | 0.116                       | 0.117                       | 1.00 | 0.183 | pCi/L | 09/30/19 07:11 | 10/23/19 22:54 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 95.8   |           | 40 - 110                    |                             |      |       |       | 09/30/19 07:11 | 10/23/19 22:54 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.441  | U *       | 0.358                       | 0.361                       | 1.00 | 0.570 | pCi/L | 09/30/19 08:23 | 10/16/19 09:14 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 95.8   |           | 40 - 110                    |                             |      |       |       | 09/30/19 08:23 | 10/16/19 09:14 | 1       |
| Y Carrier  | 77.4   |           | 40 - 110                    |                             |      |       |       | 09/30/19 08:23 | 10/16/19 09:14 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | 0.560  | U         | 0.376                       | 0.379                       | 5.00 | 0.570 | pCi/L |          | 11/04/19 08:22 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21178 MW-6**

**Lab Sample ID: 400-176940-6**

Date Collected: 09/18/19 12:10

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0761 | U         | 0.110                       | 0.110                       | 1.00 | 0.187 | pCi/L | 09/30/19 07:11 | 10/23/19 22:54 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 92.4   |           | 40 - 110                    |                             |      |       |       | 09/30/19 07:11 | 10/23/19 22:54 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.510  | U *       | 0.363                       | 0.366                       | 1.00 | 0.569 | pCi/L | 09/30/19 08:23 | 10/16/19 09:14 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 92.4   |           | 40 - 110                    |                             |      |       |       | 09/30/19 08:23 | 10/16/19 09:14 | 1       |
| Y Carrier  | 79.3   |           | 40 - 110                    |                             |      |       |       | 09/30/19 08:23 | 10/16/19 09:14 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                              | Result       | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| <b>Combined Radium<br/>226 + 228</b> | <b>0.586</b> |           | 0.379                       | 0.382                       | 5.00 | 0.569 | pCi/L |          | 11/04/19 08:22 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21179 MW-6 DUP**

**Lab Sample ID: 400-176940-7**

Date Collected: 09/18/19 12:10

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.119  | U         | 0.116                       | 0.117                       | 1.00 | 0.184 | pCi/L | 09/30/19 07:11 | 10/23/19 22:54 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 93.5   |           | 40 - 110                    |                             |      |       |       | 09/30/19 07:11 | 10/23/19 22:54 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.176  | U *       | 0.330                       | 0.330                       | 1.00 | 0.560 | pCi/L | 09/30/19 08:23 | 10/16/19 09:14 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 93.5   |           | 40 - 110                    |                             |      |       |       | 09/30/19 08:23 | 10/16/19 09:14 | 1       |
| Y Carrier  | 78.5   |           | 40 - 110                    |                             |      |       |       | 09/30/19 08:23 | 10/16/19 09:14 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | 0.294  | U         | 0.350                       | 0.350                       | 5.00 | 0.560 | pCi/L |          | 11/04/19 08:22 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21180 MW-21**

**Lab Sample ID: 400-176940-8**

Date Collected: 09/18/19 13:23

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.364  |           | 0.147                       | 0.150                       | 1.00 | 0.165 | pCi/L | 09/30/19 07:11 | 10/23/19 22:54 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 94.1   |           | 40 - 110                    |                             |      |       |       | 09/30/19 07:11 | 10/23/19 22:54 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.0711 | U *       | 0.279                       | 0.279                       | 1.00 | 0.489 | pCi/L | 09/30/19 08:23 | 10/16/19 09:14 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 94.1   |           | 40 - 110                    |                             |      |       |       | 09/30/19 08:23 | 10/16/19 09:14 | 1       |
| Y Carrier  | 81.5   |           | 40 - 110                    |                             |      |       |       | 09/30/19 08:23 | 10/16/19 09:14 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | 0.435  | U         | 0.315                       | 0.317                       | 5.00 | 0.489 | pCi/L |          | 11/04/19 08:22 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21181 MW-22**

**Lab Sample ID: 400-176940-9**

Date Collected: 09/18/19 14:55

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.182  | U         | 0.131                       | 0.132                       | 1.00 | 0.192 | pCi/L | 09/30/19 07:11 | 10/24/19 05:33 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 93.8   |           | 40 - 110                    |                             |      |       |       | 09/30/19 07:11 | 10/24/19 05:33 | 1       |

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

| Analyte    | Result  | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | -0.0169 | U *       | 0.288                       | 0.288                       | 1.00 | 0.519 | pCi/L | 09/30/19 08:23 | 10/16/19 09:14 | 1       |
| Carrier    | %Yield  | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 93.8    |           | 40 - 110                    |                             |      |       |       | 09/30/19 08:23 | 10/16/19 09:14 | 1       |
| Y Carrier  | 83.4    |           | 40 - 110                    |                             |      |       |       | 09/30/19 08:23 | 10/16/19 09:14 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | 0.165  | U         | 0.316                       | 0.317                       | 5.00 | 0.519 | pCi/L |          | 11/04/19 08:22 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21182 MW-5**

**Lab Sample ID: 400-176940-10**

Date Collected: 09/18/19 15:42

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.116  | U         | 0.110                       | 0.110                       | 1.00 | 0.171 | pCi/L | 09/30/19 07:11 | 10/24/19 05:33 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 92.9   |           | 40 - 110                    |                             |      |       |       | 09/30/19 07:11 | 10/24/19 05:33 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.320  | U *       | 0.295                       | 0.297                       | 1.00 | 0.474 | pCi/L | 09/30/19 08:23 | 10/16/19 09:15 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 92.9   |           | 40 - 110                    |                             |      |       |       | 09/30/19 08:23 | 10/16/19 09:15 | 1       |
| Y Carrier  | 83.4   |           | 40 - 110                    |                             |      |       |       | 09/30/19 08:23 | 10/16/19 09:15 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | 0.435  | U         | 0.315                       | 0.317                       | 5.00 | 0.474 | pCi/L |          | 11/04/19 08:22 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21202 MW-16V**

**Lab Sample ID: 400-176940-11**

Date Collected: 09/16/19 15:00

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte           | Result      | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|-------------------|-------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| <b>Radium-226</b> | <b>1.19</b> |           | 0.239                       | 0.262                       | 1.00 | 0.189 | pCi/L | 09/30/19 07:11 | 10/24/19 05:33 | 1       |
| Carrier           | %Yield      | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier        | 92.7        |           | 40 - 110                    |                             |      |       |       | 09/30/19 07:11 | 10/24/19 05:33 | 1       |

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

| Analyte           | Result      | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC  | Unit  | Prepared       | Analyzed       | Dil Fac |
|-------------------|-------------|-----------|-----------------------------|-----------------------------|------|------|-------|----------------|----------------|---------|
| <b>Radium-228</b> | <b>2.07</b> | <b>G</b>  | 0.966                       | 0.985                       | 1.00 | 1.42 | pCi/L | 10/24/19 14:59 | 10/31/19 09:11 | 1       |
| Carrier           | %Yield      | Qualifier | Limits                      |                             |      |      |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier        | 84.1        |           | 40 - 110                    |                             |      |      |       | 10/24/19 14:59 | 10/31/19 09:11 | 1       |
| Y Carrier         | 86.0        |           | 40 - 110                    |                             |      |      |       | 10/24/19 14:59 | 10/31/19 09:11 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                              | Result      | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC  | Unit  | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|-------------|-----------|-----------------------------|-----------------------------|------|------|-------|----------|----------------|---------|
| <b>Combined Radium<br/>226 + 228</b> | <b>3.26</b> |           | 0.995                       | 1.02                        | 5.00 | 1.42 | pCi/L |          | 11/04/19 08:22 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21203 MW-16**

**Lab Sample ID: 400-176940-12**

Date Collected: 09/16/19 16:11

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 2.62   |           | 0.336                       | 0.410                       | 1.00 | 0.182 | pCi/L | 09/30/19 07:11 | 10/24/19 05:33 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 96.0   |           | 40 - 110                    |                             |      |       |       | 09/30/19 07:11 | 10/24/19 05:33 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC  | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|------|-------|----------------|----------------|---------|
| Radium-228 | 0.934  | U G       | 0.778                       | 0.783                       | 1.00 | 1.24 | pCi/L | 10/24/19 14:59 | 10/31/19 09:11 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |      |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 91.6   |           | 40 - 110                    |                             |      |      |       | 10/24/19 14:59 | 10/31/19 09:11 | 1       |
| Y Carrier  | 85.6   |           | 40 - 110                    |                             |      |      |       | 10/24/19 14:59 | 10/31/19 09:11 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC  | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|------|-------|----------|----------------|---------|
| Combined Radium<br>226 + 228 | 3.55   |           | 0.847                       | 0.884                       | 5.00 | 1.24 | pCi/L |          | 11/04/19 08:22 | 1       |



# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21204 MW-16 DUP**

**Lab Sample ID: 400-176940-13**

Date Collected: 09/16/19 16:11

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-226     | 2.47          |                  | 0.328                       | 0.396                       | 1.00 | 0.169 | pCi/L | 09/30/19 07:11  | 10/24/19 05:33  | 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     | 92.1          |                  | 40 - 110                    |                             |      |       |       | 09/30/19 07:11  | 10/24/19 05:33  | 1              |

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

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC  | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|------|-------|-----------------|-----------------|----------------|
| Radium-228     | 1.76          | G                | 0.873                       | 0.888                       | 1.00 | 1.28 | pCi/L | 10/24/19 14:59  | 10/31/19 09:11  | 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     | 91.3          |                  | 40 - 110                    |                             |      |      |       | 10/24/19 14:59  | 10/31/19 09:11  | 1              |
| Y Carrier      | 85.6          |                  | 40 - 110                    |                             |      |      |       | 10/24/19 14:59  | 10/31/19 09:11  | 1              |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC  | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|------|-------|----------|----------------|---------|
| Combined Radium<br>226 + 228 | 4.23   |           | 0.933                       | 0.972                       | 5.00 | 1.28 | pCi/L |          | 11/04/19 08:22 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21205 MW-28H**

**Lab Sample ID: 400-176940-14**

Date Collected: 09/16/19 17:07

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-226     | 3.08          |                  | 0.355                       | 0.450                       | 1.00 | 0.149 | pCi/L | 09/30/19 07:11  | 10/24/19 05:33  | 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     | 97.5          |                  | 40 - 110                    |                             |      |       |       | 09/30/19 07:11  | 10/24/19 05:33  | 1              |

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

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC  | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|------|-------|-----------------|-----------------|----------------|
| Radium-228     | 1.56          | G                | 0.859                       | 0.871                       | 1.00 | 1.28 | pCi/L | 10/24/19 14:59  | 10/31/19 09:11  | 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     | 88.0          |                  | 40 - 110                    |                             |      |      |       | 10/24/19 14:59  | 10/31/19 09:11  | 1              |
| Y Carrier      | 86.0          |                  | 40 - 110                    |                             |      |      |       | 10/24/19 14:59  | 10/31/19 09:11  | 1              |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC  | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|------|-------|----------|----------------|---------|
| Combined Radium<br>226 + 228 | 4.63   |           | 0.929                       | 0.980                       | 5.00 | 1.28 | pCi/L |          | 11/04/19 08:22 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21206 MW-29H**

**Lab Sample ID: 400-176940-15**

Date Collected: 09/17/19 12:00

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte           | Result      | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|-------------------|-------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| <b>Radium-226</b> | <b>11.1</b> |           | 0.673                       | 1.20                        | 1.00 | 0.137 | pCi/L | 09/30/19 07:11 | 10/24/19 05:33 | 1       |
| Carrier           | %Yield      | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier        | 92.7        |           | 40 - 110                    |                             |      |       |       | 09/30/19 07:11 | 10/24/19 05:33 | 1       |

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

| Analyte           | Result      | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC  | Unit  | Prepared       | Analyzed       | Dil Fac |
|-------------------|-------------|-----------|-----------------------------|-----------------------------|------|------|-------|----------------|----------------|---------|
| <b>Radium-228</b> | <b>2.10</b> | <b>G</b>  | 0.944                       | 0.963                       | 1.00 | 1.37 | pCi/L | 10/24/19 14:59 | 10/31/19 09:11 | 1       |
| Carrier           | %Yield      | Qualifier | Limits                      |                             |      |      |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier        | 93.1        |           | 40 - 110                    |                             |      |      |       | 10/24/19 14:59 | 10/31/19 09:11 | 1       |
| Y Carrier         | 84.5        |           | 40 - 110                    |                             |      |      |       | 10/24/19 14:59 | 10/31/19 09:11 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                              | Result      | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC  | Unit  | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|-------------|-----------|-----------------------------|-----------------------------|------|------|-------|----------|----------------|---------|
| <b>Combined Radium<br/>226 + 228</b> | <b>13.2</b> |           | 1.16                        | 1.54                        | 5.00 | 1.37 | pCi/L |          | 11/04/19 08:22 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21207 MW-17V**

**Lab Sample ID: 400-176940-16**

Date Collected: 09/17/19 15:22

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte           | Result      | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|-------------------|-------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| <b>Radium-226</b> | <b>4.45</b> |           | 0.440                       | 0.595                       | 1.00 | 0.186 | pCi/L | 09/30/19 07:11 | 10/24/19 05:33 | 1       |
| Carrier           | %Yield      | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier        | 85.6        |           | 40 - 110                    |                             |      |       |       | 09/30/19 07:11 | 10/24/19 05:33 | 1       |

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

| Analyte           | Result      | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC  | Unit  | Prepared       | Analyzed       | Dil Fac |
|-------------------|-------------|-----------|-----------------------------|-----------------------------|------|------|-------|----------------|----------------|---------|
| <b>Radium-228</b> | <b>1.99</b> | <b>G</b>  | 1.15                        | 1.16                        | 1.00 | 1.75 | pCi/L | 10/24/19 14:59 | 10/31/19 09:12 | 1       |
| Carrier           | %Yield      | Qualifier | Limits                      |                             |      |      |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier        | 81.7        |           | 40 - 110                    |                             |      |      |       | 10/24/19 14:59 | 10/31/19 09:12 | 1       |
| Y Carrier         | 84.9        |           | 40 - 110                    |                             |      |      |       | 10/24/19 14:59 | 10/31/19 09:12 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                              | Result      | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC  | Unit  | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|-------------|-----------|-----------------------------|-----------------------------|------|------|-------|----------|----------------|---------|
| <b>Combined Radium<br/>226 + 228</b> | <b>6.44</b> |           | 1.23                        | 1.30                        | 5.00 | 1.75 | pCi/L |          | 11/04/19 08:22 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21208 MW-17V DIS**

**Lab Sample ID: 400-176940-17**

Date Collected: 09/17/19 15:22

Matrix: Water

Date Received: 09/25/19 11:50

**Method: 9315 - Radium-226 (GFPC) - Dissolved**

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 4.07   |           | 0.432                       | 0.566                       | 1.00 | 0.177 | pCi/L | 09/30/19 07:11 | 10/24/19 05:33 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 91.5   |           | 40 - 110                    |                             |      |       |       | 09/30/19 07:11 | 10/24/19 05:33 | 1       |

**Method: 9320 - Radium-228 (GFPC) - Dissolved**

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC  | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|------|-------|----------------|----------------|---------|
| Radium-228 | 1.29   | U G       | 0.868                       | 0.876                       | 1.00 | 1.34 | pCi/L | 10/24/19 14:59 | 10/31/19 09:12 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |      |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 88.6   |           | 40 - 110                    |                             |      |      |       | 10/24/19 14:59 | 10/31/19 09:12 | 1       |
| Y Carrier  | 83.4   |           | 40 - 110                    |                             |      |      |       | 10/24/19 14:59 | 10/31/19 09:12 | 1       |

**Method: Ra226\_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC  | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|------|-------|----------|----------------|---------|
| Combined Radium<br>226 + 228 | 5.36   |           | 0.970                       | 1.04                        | 5.00 | 1.34 | pCi/L |          | 11/04/19 08:26 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21209 MW-17**

**Lab Sample ID: 400-176940-18**

Date Collected: 09/17/19 17:10

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte           | Result       | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|-------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| <b>Radium-226</b> | <b>0.360</b> |           | 0.153                       | 0.156                       | 1.00 | 0.176 | pCi/L | 09/30/19 07:11 | 10/24/19 05:34 | 1       |
| Carrier           | %Yield       | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier        | 89.0         |           | 40 - 110                    |                             |      |       |       | 09/30/19 07:11 | 10/24/19 05:34 | 1       |

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

| Analyte           | Result      | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC  | Unit  | Prepared       | Analyzed       | Dil Fac |
|-------------------|-------------|-----------|-----------------------------|-----------------------------|------|------|-------|----------------|----------------|---------|
| <b>Radium-228</b> | <b>1.73</b> | <b>G</b>  | 0.941                       | 0.954                       | 1.00 | 1.41 | pCi/L | 10/24/19 14:59 | 10/31/19 09:12 | 1       |
| Carrier           | %Yield      | Qualifier | Limits                      |                             |      |      |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier        | 88.3        |           | 40 - 110                    |                             |      |      |       | 10/24/19 14:59 | 10/31/19 09:12 | 1       |
| Y Carrier         | 79.6        |           | 40 - 110                    |                             |      |      |       | 10/24/19 14:59 | 10/31/19 09:12 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                              | Result      | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC  | Unit  | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|-------------|-----------|-----------------------------|-----------------------------|------|------|-------|----------|----------------|---------|
| <b>Combined Radium<br/>226 + 228</b> | <b>2.09</b> |           | 0.953                       | 0.967                       | 5.00 | 1.41 | pCi/L |          | 11/04/19 08:22 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21210 FB-2**

**Lab Sample ID: 400-176940-19**

Date Collected: 09/18/19 09:20

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte    | Result  | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | -0.0358 | U         | 0.0826                      | 0.0826                      | 1.00 | 0.176 | pCi/L | 09/30/19 07:14 | 10/23/19 18:58 | 1       |
| Carrier    | %Yield  | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 98.0    |           | 40 - 110                    |                             |      |       |       | 09/30/19 07:14 | 10/23/19 18:58 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.293  | U         | 0.319                       | 0.320                       | 1.00 | 0.523 | pCi/L | 09/30/19 09:34 | 10/14/19 08:58 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 98.0   |           | 40 - 110                    |                             |      |       |       | 09/30/19 09:34 | 10/14/19 08:58 | 1       |
| Y Carrier  | 84.5   |           | 40 - 110                    |                             |      |       |       | 09/30/19 09:34 | 10/14/19 08:58 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | 0.257  | U         | 0.330                       | 0.330                       | 5.00 | 0.523 | pCi/L |          | 11/04/19 08:22 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21211 MW-17SV**

**Lab Sample ID: 400-176940-20**

Date Collected: 09/18/19 09:45

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte           | Result       | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|-------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| <b>Radium-226</b> | <b>0.384</b> |           | 0.145                       | 0.149                       | 1.00 | 0.161 | pCi/L | 09/30/19 07:14 | 10/23/19 18:58 | 1       |
| Carrier           | %Yield       | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier        | 93.8         |           | 40 - 110                    |                             |      |       |       | 09/30/19 07:14 | 10/23/19 18:58 | 1       |

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

| Analyte           | Result      | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|-------------------|-------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| <b>Radium-228</b> | <b>1.17</b> |           | 0.396                       | 0.410                       | 1.00 | 0.542 | pCi/L | 09/30/19 09:34 | 10/14/19 08:58 | 1       |
| Carrier           | %Yield      | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier        | 93.8        |           | 40 - 110                    |                             |      |       |       | 09/30/19 09:34 | 10/14/19 08:58 | 1       |
| Y Carrier         | 86.7        |           | 40 - 110                    |                             |      |       |       | 09/30/19 09:34 | 10/14/19 08:58 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                              | Result      | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|-------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| <b>Combined Radium<br/>226 + 228</b> | <b>1.56</b> |           | 0.422                       | 0.436                       | 5.00 | 0.542 | pCi/L |          | 11/04/19 08:22 | 1       |



# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21212 MW-18**

**Lab Sample ID: 400-176940-21**

Date Collected: 09/18/19 10:48

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte           | Result       | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|-------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| <b>Radium-226</b> | <b>0.637</b> |           | 0.178                       | 0.187                       | 1.00 | 0.175 | pCi/L | 09/30/19 07:14 | 10/23/19 18:58 | 1       |
| Carrier           | %Yield       | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier        | 95.2         |           | 40 - 110                    |                             |      |       |       | 09/30/19 07:14 | 10/23/19 18:58 | 1       |

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

| Analyte           | Result       | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|-------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| <b>Radium-228</b> | <b>0.618</b> |           | 0.346                       | 0.351                       | 1.00 | 0.522 | pCi/L | 09/30/19 09:34 | 10/14/19 08:58 | 1       |
| Carrier           | %Yield       | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier        | 95.2         |           | 40 - 110                    |                             |      |       |       | 09/30/19 09:34 | 10/14/19 08:58 | 1       |
| Y Carrier         | 83.0         |           | 40 - 110                    |                             |      |       |       | 09/30/19 09:34 | 10/14/19 08:58 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                              | Result      | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|-------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| <b>Combined Radium<br/>226 + 228</b> | <b>1.25</b> |           | 0.389                       | 0.398                       | 5.00 | 0.522 | pCi/L |          | 11/04/19 08:22 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21213 MW-20**

**Lab Sample ID: 400-176940-22**

Date Collected: 09/18/19 11:47

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte           | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|-------------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| <b>Radium-226</b> | <b>14.2</b>   |                  | 0.735                       | 1.48                        | 1.00 | 0.171 | pCi/L | 09/30/19 07:14  | 10/23/19 18:58  | 1              |
| <b>Carrier</b>    | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier        | 97.2          |                  | 40 - 110                    |                             |      |       |       | 09/30/19 07:14  | 10/23/19 18:58  | 1              |

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

| Analyte           | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|-------------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| <b>Radium-228</b> | <b>1.45</b>   |                  | 0.396                       | 0.418                       | 1.00 | 0.494 | pCi/L | 09/30/19 09:34  | 10/14/19 08:59  | 1              |
| <b>Carrier</b>    | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier        | 97.2          |                  | 40 - 110                    |                             |      |       |       | 09/30/19 09:34  | 10/14/19 08:59  | 1              |
| Y Carrier         | 82.6          |                  | 40 - 110                    |                             |      |       |       | 09/30/19 09:34  | 10/14/19 08:59  | 1              |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                              | Result      | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|-------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| <b>Combined Radium<br/>226 + 228</b> | <b>15.7</b> |           | 0.835                       | 1.54                        | 5.00 | 0.494 | pCi/L |          | 11/04/19 08:22 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21214 MW-20SV**

**Lab Sample ID: 400-176940-23**

Date Collected: 09/18/19 12:46

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte           | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|-------------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| <b>Radium-226</b> | <b>0.403</b>  |                  | 0.147                       | 0.151                       | 1.00 | 0.158 | pCi/L | 09/30/19 07:14  | 10/23/19 18:59  | 1              |
| <b>Carrier</b>    | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier        | 93.5          |                  | 40 - 110                    |                             |      |       |       | 09/30/19 07:14  | 10/23/19 18:59  | 1              |

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

| Analyte           | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|-------------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| <b>Radium-228</b> | <b>0.741</b>  |                  | 0.393                       | 0.399                       | 1.00 | 0.583 | pCi/L | 09/30/19 09:34  | 10/14/19 08:59  | 1              |
| <b>Carrier</b>    | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier        | 93.5          |                  | 40 - 110                    |                             |      |       |       | 09/30/19 09:34  | 10/14/19 08:59  | 1              |
| Y Carrier         | 71.4          |                  | 40 - 110                    |                             |      |       |       | 09/30/19 09:34  | 10/14/19 08:59  | 1              |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                              | Result      | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|-------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| <b>Combined Radium<br/>226 + 228</b> | <b>1.14</b> |           | 0.420                       | 0.427                       | 5.00 | 0.583 | pCi/L |          | 11/04/19 08:22 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21215 MW-20V**

**Lab Sample ID: 400-176940-24**

Date Collected: 09/18/19 14:19

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte           | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|-------------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| <b>Radium-226</b> | <b>1.42</b>   |                  | 0.245                       | 0.276                       | 1.00 | 0.147 | pCi/L | 09/30/19 07:14  | 10/23/19 18:59  | 1              |
| <b>Carrier</b>    | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier        | 92.7          |                  | 40 - 110                    |                             |      |       |       | 09/30/19 07:14  | 10/23/19 18:59  | 1              |

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

| Analyte           | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|-------------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| <b>Radium-228</b> | <b>0.605</b>  |                  | 0.365                       | 0.369                       | 1.00 | 0.558 | pCi/L | 09/30/19 09:34  | 10/14/19 08:59  | 1              |
| <b>Carrier</b>    | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier        | 92.7          |                  | 40 - 110                    |                             |      |       |       | 09/30/19 09:34  | 10/14/19 08:59  | 1              |
| Y Carrier         | 83.7          |                  | 40 - 110                    |                             |      |       |       | 09/30/19 09:34  | 10/14/19 08:59  | 1              |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                              | Result      | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|-------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| <b>Combined Radium<br/>226 + 228</b> | <b>2.02</b> |           | 0.440                       | 0.461                       | 5.00 | 0.558 | pCi/L |          | 11/04/19 08:22 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21216 FB-3**

**Lab Sample ID: 400-176940-25**

Date Collected: 09/18/19 15:35

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte    | Result  | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | -0.0476 | U         | 0.0639                      | 0.0640                      | 1.00 | 0.152 | pCi/L | 09/30/19 07:14 | 10/23/19 18:59 | 1       |
| Carrier    | %Yield  | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 98.9    |           | 40 - 110                    |                             |      |       |       | 09/30/19 07:14 | 10/23/19 18:59 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.219  | U         | 0.297                       | 0.298                       | 1.00 | 0.495 | pCi/L | 09/30/19 09:34 | 10/14/19 08:59 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 98.9   |           | 40 - 110                    |                             |      |       |       | 09/30/19 09:34 | 10/14/19 08:59 | 1       |
| Y Carrier  | 87.1   |           | 40 - 110                    |                             |      |       |       | 09/30/19 09:34 | 10/14/19 08:59 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | 0.172  | U         | 0.304                       | 0.305                       | 5.00 | 0.495 | pCi/L |          | 11/04/19 08:22 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21217 MW-26**

**Lab Sample ID: 400-176940-26**

Date Collected: 09/18/19 15:47

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.134  | U         | 0.108                       | 0.109                       | 1.00 | 0.157 | pCi/L | 09/30/19 07:14 | 10/23/19 18:59 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 74.0   |           | 40 - 110                    |                             |      |       |       | 09/30/19 07:14 | 10/23/19 18:59 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.842  |           | 0.451                       | 0.458                       | 1.00 | 0.676 | pCi/L | 09/30/19 09:34 | 10/14/19 08:59 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 74.0   |           | 40 - 110                    |                             |      |       |       | 09/30/19 09:34 | 10/14/19 08:59 | 1       |
| Y Carrier  | 84.1   |           | 40 - 110                    |                             |      |       |       | 09/30/19 09:34 | 10/14/19 08:59 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium<br>226 + 228 | 0.976  |           | 0.464                       | 0.471                       | 5.00 | 0.676 | pCi/L |          | 11/04/19 08:22 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21218 MW-26 DUP**

**Lab Sample ID: 400-176940-27**

Date Collected: 09/18/19 15:47

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-226     | 0.0731        | U                | 0.118                       | 0.119                       | 1.00 | 0.204 | pCi/L | 09/30/19 07:14  | 10/23/19 18:59  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 72.0          |                  | 40 - 110                    |                             |      |       |       | 09/30/19 07:14  | 10/23/19 18:59  | 1              |

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

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228     | 0.434         | U                | 0.375                       | 0.377                       | 1.00 | 0.598 | pCi/L | 09/30/19 09:34  | 10/14/19 08:59  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 72.0          |                  | 40 - 110                    |                             |      |       |       | 09/30/19 09:34  | 10/14/19 08:59  | 1              |
| Y Carrier      | 89.3          |                  | 40 - 110                    |                             |      |       |       | 09/30/19 09:34  | 10/14/19 08:59  | 1              |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | 0.507  | U         | 0.393                       | 0.395                       | 5.00 | 0.598 | pCi/L |          | 11/04/19 08:22 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21219 EB-2**

**Lab Sample ID: 400-176940-28**

Date Collected: 09/18/19 17:35

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.218  |           | 0.124                       | 0.125                       | 1.00 | 0.163 | pCi/L | 09/30/19 07:14 | 10/23/19 18:59 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 94.6   |           | 40 - 110                    |                             |      |       |       | 09/30/19 07:14 | 10/23/19 18:59 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.174  | U         | 0.299                       | 0.300                       | 1.00 | 0.507 | pCi/L | 09/30/19 09:34 | 10/14/19 08:59 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 94.6   |           | 40 - 110                    |                             |      |       |       | 09/30/19 09:34 | 10/14/19 08:59 | 1       |
| Y Carrier  | 85.6   |           | 40 - 110                    |                             |      |       |       | 09/30/19 09:34 | 10/14/19 08:59 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | 0.392  | U         | 0.324                       | 0.325                       | 5.00 | 0.507 | pCi/L |          | 11/04/19 08:22 | 1       |



# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21220 MW-27**

**Lab Sample ID: 400-176940-29**

Date Collected: 09/18/19 17:50

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte           | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|-------------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| <b>Radium-226</b> | <b>0.360</b>  |                  | 0.150                       | 0.153                       | 1.00 | 0.170 | pCi/L | 09/30/19 07:14  | 10/23/19 18:59  | 1              |
| <b>Carrier</b>    | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier        | 86.7          |                  | 40 - 110                    |                             |      |       |       | 09/30/19 07:14  | 10/23/19 18:59  | 1              |

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

| Analyte           | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|-------------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| <b>Radium-228</b> | <b>0.654</b>  |                  | 0.359                       | 0.364                       | 1.00 | 0.538 | pCi/L | 09/30/19 09:34  | 10/14/19 08:59  | 1              |
| <b>Carrier</b>    | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier        | 86.7          |                  | 40 - 110                    |                             |      |       |       | 09/30/19 09:34  | 10/14/19 08:59  | 1              |
| Y Carrier         | 89.0          |                  | 40 - 110                    |                             |      |       |       | 09/30/19 09:34  | 10/14/19 08:59  | 1              |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                              | Result      | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|-------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| <b>Combined Radium<br/>226 + 228</b> | <b>1.01</b> |           | 0.389                       | 0.395                       | 5.00 | 0.538 | pCi/L |          | 11/04/19 08:22 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21236 MW-10**

**Lab Sample ID: 400-176940-30**

Date Collected: 09/16/19 10:53

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte    | Result  | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | -0.0288 | U         | 0.0809                      | 0.0810                      | 1.00 | 0.171 | pCi/L | 09/30/19 07:14 | 10/23/19 19:00 | 1       |
| Carrier    | %Yield  | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 94.4    |           | 40 - 110                    |                             |      |       |       | 09/30/19 07:14 | 10/23/19 19:00 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.336  | U         | 0.287                       | 0.288                       | 1.00 | 0.456 | pCi/L | 09/30/19 09:34 | 10/14/19 08:59 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 94.4   |           | 40 - 110                    |                             |      |       |       | 09/30/19 09:34 | 10/14/19 08:59 | 1       |
| Y Carrier  | 87.5   |           | 40 - 110                    |                             |      |       |       | 09/30/19 09:34 | 10/14/19 08:59 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | 0.307  | U         | 0.298                       | 0.299                       | 5.00 | 0.456 | pCi/L |          | 11/04/19 08:22 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21237 MW-10 DUP**

**Lab Sample ID: 400-176940-31**

Date Collected: 09/16/19 10:53

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.000  | U         | 0.0769                      | 0.0769                      | 1.00 | 0.155 | pCi/L | 09/30/19 07:14 | 10/23/19 19:00 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 94.4   |           | 40 - 110                    |                             |      |       |       | 09/30/19 07:14 | 10/23/19 19:00 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.0250 | U         | 0.322                       | 0.322                       | 1.00 | 0.567 | pCi/L | 09/30/19 09:34 | 10/14/19 08:59 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 94.4   |           | 40 - 110                    |                             |      |       |       | 09/30/19 09:34 | 10/14/19 08:59 | 1       |
| Y Carrier  | 86.0   |           | 40 - 110                    |                             |      |       |       | 09/30/19 09:34 | 10/14/19 08:59 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | 0.0250 | U         | 0.331                       | 0.331                       | 5.00 | 0.567 | pCi/L |          | 11/04/19 08:22 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21238 MW-11**

**Lab Sample ID: 400-176940-32**

Date Collected: 09/16/19 12:35

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte    | Result  | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | -0.0635 | U         | 0.0693                      | 0.0696                      | 1.00 | 0.165 | pCi/L | 09/30/19 07:14 | 10/23/19 20:50 | 1       |
| Carrier    | %Yield  | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 98.6    |           | 40 - 110                    |                             |      |       |       | 09/30/19 07:14 | 10/23/19 20:50 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.570  | U         | 0.382                       | 0.386                       | 1.00 | 0.599 | pCi/L | 09/30/19 09:34 | 10/14/19 09:04 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 98.6   |           | 40 - 110                    |                             |      |       |       | 09/30/19 09:34 | 10/14/19 09:04 | 1       |
| Y Carrier  | 85.6   |           | 40 - 110                    |                             |      |       |       | 09/30/19 09:34 | 10/14/19 09:04 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | 0.507  | U         | 0.388                       | 0.392                       | 5.00 | 0.599 | pCi/L |          | 11/04/19 08:22 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21239 MW-12**

**Lab Sample ID: 400-176940-33**

Date Collected: 09/16/19 15:10

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte           | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|-------------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| <b>Radium-226</b> | <b>0.265</b>  |                  | 0.129                       | 0.131                       | 1.00 | 0.162 | pCi/L | 09/30/19 07:14  | 10/23/19 20:52  | 1              |
| <b>Carrier</b>    | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier        | 92.7          |                  | 40 - 110                    |                             |      |       |       | 09/30/19 07:14  | 10/23/19 20:52  | 1              |

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

| Analyte           | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|-------------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| <b>Radium-228</b> | <b>0.770</b>  |                  | 0.379                       | 0.385                       | 1.00 | 0.565 | pCi/L | 09/30/19 09:34  | 10/14/19 09:04  | 1              |
| <b>Carrier</b>    | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier        | 92.7          |                  | 40 - 110                    |                             |      |       |       | 09/30/19 09:34  | 10/14/19 09:04  | 1              |
| Y Carrier         | 92.0          |                  | 40 - 110                    |                             |      |       |       | 09/30/19 09:34  | 10/14/19 09:04  | 1              |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                              | Result      | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|-------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| <b>Combined Radium<br/>226 + 228</b> | <b>1.04</b> |           | 0.400                       | 0.407                       | 5.00 | 0.565 | pCi/L |          | 11/04/19 08:22 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21240 FB-1**

**Lab Sample ID: 400-176940-34**

Date Collected: 09/16/19 15:29

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-226     | -0.0815       | U                | 0.0713                      | 0.0717                      | 1.00 | 0.175 | pCi/L | 09/30/19 07:14  | 10/23/19 20:52  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 98.3          |                  | 40 - 110                    |                             |      |       |       | 09/30/19 07:14  | 10/23/19 20:52  | 1              |

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

| Analyte        | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228     | 0.154         | U                | 0.356                       | 0.356                       | 1.00 | 0.606 | pCi/L | 09/30/19 09:34  | 10/14/19 09:04  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 98.3          |                  | 40 - 110                    |                             |      |       |       | 09/30/19 09:34  | 10/14/19 09:04  | 1              |
| Y Carrier      | 87.5          |                  | 40 - 110                    |                             |      |       |       | 09/30/19 09:34  | 10/14/19 09:04  | 1              |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | 0.0730 | U         | 0.363                       | 0.363                       | 5.00 | 0.606 | pCi/L |          | 11/04/19 08:22 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21241 MW-4**

**Lab Sample ID: 400-176940-35**

Date Collected: 09/17/19 09:48

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte           | Result       | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|-------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| <b>Radium-226</b> | <b>0.267</b> |           | 0.128                       | 0.130                       | 1.00 | 0.160 | pCi/L | 09/30/19 07:14 | 10/23/19 20:52 | 1       |
| Carrier           | %Yield       | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier        | 94.9         |           | 40 - 110                    |                             |      |       |       | 09/30/19 07:14 | 10/23/19 20:52 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.500  | U         | 0.384                       | 0.387                       | 1.00 | 0.608 | pCi/L | 09/30/19 09:34 | 10/14/19 09:04 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 94.9   |           | 40 - 110                    |                             |      |       |       | 09/30/19 09:34 | 10/14/19 09:04 | 1       |
| Y Carrier  | 78.1   |           | 40 - 110                    |                             |      |       |       | 09/30/19 09:34 | 10/14/19 09:04 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                              | Result       | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| <b>Combined Radium<br/>226 + 228</b> | <b>0.767</b> |           | 0.405                       | 0.408                       | 5.00 | 0.608 | pCi/L |          | 11/04/19 08:22 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21242 MW-9**

**Lab Sample ID: 400-176940-36**

Date Collected: 09/17/19 11:42

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.194  |           | 0.126                       | 0.127                       | 1.00 | 0.180 | pCi/L | 09/30/19 07:14 | 10/23/19 20:52 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 91.8   |           | 40 - 110                    |                             |      |       |       | 09/30/19 07:14 | 10/23/19 20:52 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.000  | U         | 0.332                       | 0.332                       | 1.00 | 0.590 | pCi/L | 09/30/19 09:34 | 10/14/19 09:04 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 91.8   |           | 40 - 110                    |                             |      |       |       | 09/30/19 09:34 | 10/14/19 09:04 | 1       |
| Y Carrier  | 86.0   |           | 40 - 110                    |                             |      |       |       | 09/30/19 09:34 | 10/14/19 09:04 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                   | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.194  | U         | 0.355                       | 0.355                       | 5.00 | 0.590 | pCi/L |          | 11/04/19 08:22 | 1       |



# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21243 MW-8**

**Lab Sample ID: 400-176940-37**

Date Collected: 09/17/19 13:20

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0509 | U         | 0.0997                      | 0.0998                      | 1.00 | 0.176 | pCi/L | 09/30/19 07:14 | 10/23/19 20:52 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 93.8   |           | 40 - 110                    |                             |      |       |       | 09/30/19 07:14 | 10/23/19 20:52 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.594  | U         | 0.388                       | 0.392                       | 1.00 | 0.604 | pCi/L | 09/30/19 09:34 | 10/14/19 09:05 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 93.8   |           | 40 - 110                    |                             |      |       |       | 09/30/19 09:34 | 10/14/19 09:05 | 1       |
| Y Carrier  | 85.6   |           | 40 - 110                    |                             |      |       |       | 09/30/19 09:34 | 10/14/19 09:05 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                              | Result       | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| <b>Combined Radium<br/>226 + 228</b> | <b>0.645</b> |           | 0.401                       | 0.405                       | 5.00 | 0.604 | pCi/L |          | 11/04/19 08:22 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21244 MW-1**

**Lab Sample ID: 400-176940-38**

Date Collected: 09/17/19 15:39

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.445  |           | 0.160                       | 0.165                       | 1.00 | 0.181 | pCi/L | 09/30/19 07:17 | 10/22/19 06:33 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 88.4   |           | 40 - 110                    |                             |      |       |       | 09/30/19 07:17 | 10/22/19 06:33 | 1       |

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

| Analyte    | Result  | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | -0.0150 | U         | 0.340                       | 0.340                       | 1.00 | 0.607 | pCi/L | 09/30/19 11:37 | 10/11/19 16:42 | 1       |
| Carrier    | %Yield  | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 88.4    |           | 40 - 110                    |                             |      |       |       | 09/30/19 11:37 | 10/11/19 16:42 | 1       |
| Y Carrier  | 88.2    |           | 40 - 110                    |                             |      |       |       | 09/30/19 11:37 | 10/11/19 16:42 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | 0.430  | U         | 0.376                       | 0.378                       | 5.00 | 0.607 | pCi/L |          | 11/04/19 08:22 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21245 MW-3**

**Lab Sample ID: 400-176940-39**

Date Collected: 09/17/19 17:24

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte    | Result  | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.00289 | U         | 0.0903                      | 0.0903                      | 1.00 | 0.176 | pCi/L | 09/30/19 07:17 | 10/22/19 06:33 | 1       |
| Carrier    | %Yield  | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 90.4    |           | 40 - 110                    |                             |      |       |       | 09/30/19 07:17 | 10/22/19 06:33 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.0157 | U         | 0.369                       | 0.369                       | 1.00 | 0.652 | pCi/L | 09/30/19 11:37 | 10/11/19 16:43 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 90.4   |           | 40 - 110                    |                             |      |       |       | 09/30/19 11:37 | 10/11/19 16:43 | 1       |
| Y Carrier  | 83.4   |           | 40 - 110                    |                             |      |       |       | 09/30/19 11:37 | 10/11/19 16:43 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | 0.0186 | U         | 0.380                       | 0.380                       | 5.00 | 0.652 | pCi/L |          | 11/04/19 08:22 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21246 MW-2**

**Lab Sample ID: 400-176940-40**

Date Collected: 09/18/19 08:11

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0248 | U         | 0.0914                      | 0.0914                      | 1.00 | 0.172 | pCi/L | 09/30/19 07:17 | 10/22/19 06:33 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 81.6   |           | 40 - 110                    |                             |      |       |       | 09/30/19 07:17 | 10/22/19 06:33 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | -0.110 | U         | 0.399                       | 0.399                       | 1.00 | 0.722 | pCi/L | 09/30/19 11:37 | 10/11/19 16:43 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 81.6   |           | 40 - 110                    |                             |      |       |       | 09/30/19 11:37 | 10/11/19 16:43 | 1       |
| Y Carrier  | 88.6   |           | 40 - 110                    |                             |      |       |       | 09/30/19 11:37 | 10/11/19 16:43 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result  | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | -0.0854 | U         | 0.409                       | 0.409                       | 5.00 | 0.722 | pCi/L |          | 11/04/19 08:22 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21247 MW-19**

**Lab Sample ID: 400-176940-41**

Date Collected: 09/18/19 10:56

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.293  |           | 0.128                       | 0.131                       | 1.00 | 0.147 | pCi/L | 09/30/19 07:17 | 10/22/19 06:34 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 89.8   |           | 40 - 110                    |                             |      |       |       | 09/30/19 07:17 | 10/22/19 06:34 | 1       |

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

| Analyte    | Result   | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|----------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | -0.00317 | U         | 0.324                       | 0.324                       | 1.00 | 0.581 | pCi/L | 09/30/19 11:37 | 10/11/19 16:43 | 1       |
| Carrier    | %Yield   | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 89.8     |           | 40 - 110                    |                             |      |       |       | 09/30/19 11:37 | 10/11/19 16:43 | 1       |
| Y Carrier  | 84.5     |           | 40 - 110                    |                             |      |       |       | 09/30/19 11:37 | 10/11/19 16:43 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | 0.290  | U         | 0.348                       | 0.349                       | 5.00 | 0.581 | pCi/L |          | 11/04/19 08:22 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21248 EB-1**

**Lab Sample ID: 400-176940-42**

Date Collected: 09/18/19 11:39

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte    | Result  | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | -0.0494 | U         | 0.0663                      | 0.0664                      | 1.00 | 0.158 | pCi/L | 09/30/19 07:17 | 10/22/19 06:34 | 1       |
| Carrier    | %Yield  | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 91.2    |           | 40 - 110                    |                             |      |       |       | 09/30/19 07:17 | 10/22/19 06:34 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.375  | U         | 0.333                       | 0.335                       | 1.00 | 0.535 | pCi/L | 09/30/19 11:37 | 10/11/19 16:43 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 91.2   |           | 40 - 110                    |                             |      |       |       | 09/30/19 11:37 | 10/11/19 16:43 | 1       |
| Y Carrier  | 87.5   |           | 40 - 110                    |                             |      |       |       | 09/30/19 11:37 | 10/11/19 16:43 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | 0.326  | U         | 0.340                       | 0.342                       | 5.00 | 0.535 | pCi/L |          | 11/04/19 08:24 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21249 MW-15R**

**Lab Sample ID: 400-176940-43**

Date Collected: 09/18/19 14:26

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte           | Result       | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|-------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| <b>Radium-226</b> | <b>0.243</b> |           | 0.117                       | 0.119                       | 1.00 | 0.134 | pCi/L | 09/30/19 07:17 | 10/22/19 06:34 | 1       |
| Carrier           | %Yield       | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier        | 86.4         |           | 40 - 110                    |                             |      |       |       | 09/30/19 07:17 | 10/22/19 06:34 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.697  | U         | 0.458                       | 0.463                       | 1.00 | 0.709 | pCi/L | 09/30/19 11:37 | 10/11/19 16:43 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 86.4   |           | 40 - 110                    |                             |      |       |       | 09/30/19 11:37 | 10/11/19 16:43 | 1       |
| Y Carrier  | 72.5   |           | 40 - 110                    |                             |      |       |       | 09/30/19 11:37 | 10/11/19 16:43 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                              | Result       | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| <b>Combined Radium<br/>226 + 228</b> | <b>0.940</b> |           | 0.473                       | 0.478                       | 5.00 | 0.709 | pCi/L |          | 11/04/19 08:24 | 1       |

# Client Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21250 MW-23D**

**Lab Sample ID: 400-176940-44**

Date Collected: 09/18/19 16:21

Matrix: Water

Date Received: 09/25/19 11:50

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

| Analyte    | Result  | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | -0.0307 | U         | 0.0998                      | 0.0999                      | 1.00 | 0.211 | pCi/L | 09/30/19 07:17 | 10/22/19 06:34 | 1       |
| Carrier    | %Yield  | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 66.9    |           | 40 - 110                    |                             |      |       |       | 09/30/19 07:17 | 10/22/19 06:34 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.0755 | U         | 0.442                       | 0.442                       | 1.00 | 0.777 | pCi/L | 09/30/19 11:37 | 10/11/19 16:43 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 66.9   |           | 40 - 110                    |                             |      |       |       | 09/30/19 11:37 | 10/11/19 16:43 | 1       |
| Y Carrier  | 85.6   |           | 40 - 110                    |                             |      |       |       | 09/30/19 11:37 | 10/11/19 16:43 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | 0.0448 | U         | 0.453                       | 0.453                       | 5.00 | 0.777 | pCi/L |          | 11/04/19 08:24 | 1       |



# Definitions/Glossary

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

Job ID: 400-176940-1  
SDG: Gaston Ash Pond 1240

## Qualifiers

### Rad

| Qualifier | Qualifier Description                            |
|-----------|--------------------------------------------------|
| *         | LCS or LCSD is outside acceptance limits.        |
| F         | Duplicate RPD exceeds the control limit          |
| 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.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| 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 Gaston

Job ID: 400-176940-1  
SDG: Gaston Ash Pond 1240

## Client Sample ID: AZ21173 MW-13

## Lab Sample ID: 400-176940-1

Date Collected: 09/17/19 10:50

Matrix: Water

Date Received: 09/25/19 11:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444527       | 09/30/19 07:11       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447440       | 10/23/19 22:53       | SCB     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 447604       | 10/24/19 14:59       | ORM     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 448459       | 10/31/19 09:11       | SCB     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

## Client Sample ID: AZ21174 MW-14

## Lab Sample ID: 400-176940-2

Date Collected: 09/17/19 12:35

Matrix: Water

Date Received: 09/25/19 11:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444527       | 09/30/19 07:11       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447440       | 10/23/19 22:53       | SCB     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 444533       | 09/30/19 08:23       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 446428       | 10/16/19 09:14       | AJD     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

## Client Sample ID: AZ21175 MW-23S

## Lab Sample ID: 400-176940-3

Date Collected: 09/17/19 15:22

Matrix: Water

Date Received: 09/25/19 11:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444527       | 09/30/19 07:11       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447440       | 10/23/19 22:53       | SCB     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 444533       | 09/30/19 08:23       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 446428       | 10/16/19 09:14       | AJD     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

## Client Sample ID: AZ21176 FB-4

## Lab Sample ID: 400-176940-4

Date Collected: 09/17/19 16:10

Matrix: Water

Date Received: 09/25/19 11:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444527       | 09/30/19 07:11       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447440       | 10/23/19 22:53       | SCB     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 444533       | 09/30/19 08:23       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 446428       | 10/16/19 09:14       | AJD     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

# Lab Chronicle

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

Job ID: 400-176940-1  
SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21177 MW-7**

**Lab Sample ID: 400-176940-5**

**Date Collected: 09/18/19 11:00**

**Matrix: Water**

**Date Received: 09/25/19 11:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444527       | 09/30/19 07:11       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447440       | 10/23/19 22:54       | SCB     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 444533       | 09/30/19 08:23       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 446428       | 10/16/19 09:14       | AJD     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

**Client Sample ID: AZ21178 MW-6**

**Lab Sample ID: 400-176940-6**

**Date Collected: 09/18/19 12:10**

**Matrix: Water**

**Date Received: 09/25/19 11:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444527       | 09/30/19 07:11       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447440       | 10/23/19 22:54       | SCB     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 444533       | 09/30/19 08:23       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 446428       | 10/16/19 09:14       | AJD     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

**Client Sample ID: AZ21179 MW-6 DUP**

**Lab Sample ID: 400-176940-7**

**Date Collected: 09/18/19 12:10**

**Matrix: Water**

**Date Received: 09/25/19 11:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444527       | 09/30/19 07:11       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447324       | 10/23/19 22:54       | SCB     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 444533       | 09/30/19 08:23       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 446428       | 10/16/19 09:14       | AJD     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

**Client Sample ID: AZ21180 MW-21**

**Lab Sample ID: 400-176940-8**

**Date Collected: 09/18/19 13:23**

**Matrix: Water**

**Date Received: 09/25/19 11:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444527       | 09/30/19 07:11       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447324       | 10/23/19 22:54       | SCB     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 444533       | 09/30/19 08:23       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 446428       | 10/16/19 09:14       | AJD     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

# Lab Chronicle

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

Job ID: 400-176940-1  
SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21181 MW-22**

**Lab Sample ID: 400-176940-9**

**Date Collected: 09/18/19 14:55**

**Matrix: Water**

**Date Received: 09/25/19 11:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444527       | 09/30/19 07:11       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447519       | 10/24/19 05:33       | SCB     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 444533       | 09/30/19 08:23       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 446428       | 10/16/19 09:14       | AJD     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

**Client Sample ID: AZ21182 MW-5**

**Lab Sample ID: 400-176940-10**

**Date Collected: 09/18/19 15:42**

**Matrix: Water**

**Date Received: 09/25/19 11:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444527       | 09/30/19 07:11       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447519       | 10/24/19 05:33       | SCB     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 444533       | 09/30/19 08:23       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 446428       | 10/16/19 09:15       | AJD     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

**Client Sample ID: AZ21202 MW-16V**

**Lab Sample ID: 400-176940-11**

**Date Collected: 09/16/19 15:00**

**Matrix: Water**

**Date Received: 09/25/19 11:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444527       | 09/30/19 07:11       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447519       | 10/24/19 05:33       | SCB     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 447604       | 10/24/19 14:59       | ORM     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 448459       | 10/31/19 09:11       | SCB     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

**Client Sample ID: AZ21203 MW-16**

**Lab Sample ID: 400-176940-12**

**Date Collected: 09/16/19 16:11**

**Matrix: Water**

**Date Received: 09/25/19 11:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444527       | 09/30/19 07:11       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447519       | 10/24/19 05:33       | SCB     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 447604       | 10/24/19 14:59       | ORM     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 448459       | 10/31/19 09:11       | SCB     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

# Lab Chronicle

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

Job ID: 400-176940-1  
SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21204 MW-16 DUP**

**Lab Sample ID: 400-176940-13**

**Date Collected: 09/16/19 16:11**

**Matrix: Water**

**Date Received: 09/25/19 11:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444527       | 09/30/19 07:11       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447519       | 10/24/19 05:33       | SCB     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 447604       | 10/24/19 14:59       | ORM     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 448459       | 10/31/19 09:11       | SCB     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

**Client Sample ID: AZ21205 MW-28H**

**Lab Sample ID: 400-176940-14**

**Date Collected: 09/16/19 17:07**

**Matrix: Water**

**Date Received: 09/25/19 11:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444527       | 09/30/19 07:11       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447519       | 10/24/19 05:33       | SCB     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 447604       | 10/24/19 14:59       | ORM     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 448459       | 10/31/19 09:11       | SCB     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

**Client Sample ID: AZ21206 MW-29H**

**Lab Sample ID: 400-176940-15**

**Date Collected: 09/17/19 12:00**

**Matrix: Water**

**Date Received: 09/25/19 11:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444527       | 09/30/19 07:11       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447519       | 10/24/19 05:33       | SCB     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 447604       | 10/24/19 14:59       | ORM     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 448459       | 10/31/19 09:11       | SCB     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

**Client Sample ID: AZ21207 MW-17V**

**Lab Sample ID: 400-176940-16**

**Date Collected: 09/17/19 15:22**

**Matrix: Water**

**Date Received: 09/25/19 11:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444527       | 09/30/19 07:11       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447519       | 10/24/19 05:33       | SCB     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 447604       | 10/24/19 14:59       | ORM     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 448459       | 10/31/19 09:12       | SCB     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

# Lab Chronicle

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

Job ID: 400-176940-1  
SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21208 MW-17V DIS**

**Lab Sample ID: 400-176940-17**

**Date Collected: 09/17/19 15:22**

**Matrix: Water**

**Date Received: 09/25/19 11:50**

| Prep Type | Batch Type | Batch Method    | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|--------|
| Dissolved | Prep       | PrecSep-21      |     |                 | 444527       | 09/30/19 07:11       | EJQ     | TAL SL |
| Dissolved | Analysis   | 9315            |     | 1               | 447519       | 10/24/19 05:33       | SCB     | TAL SL |
| Dissolved | Prep       | PrecSep_0       |     |                 | 447604       | 10/24/19 14:59       | ORM     | TAL SL |
| Dissolved | Analysis   | 9320            |     | 1               | 448459       | 10/31/19 09:12       | SCB     | TAL SL |
| Dissolved | Analysis   | Ra226_Ra228 (D) |     | 1               | 448671       | 11/04/19 08:26       | SMP     | TAL SL |

**Client Sample ID: AZ21209 MW-17**

**Lab Sample ID: 400-176940-18**

**Date Collected: 09/17/19 17:10**

**Matrix: Water**

**Date Received: 09/25/19 11:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444527       | 09/30/19 07:11       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447519       | 10/24/19 05:34       | SCB     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 447604       | 10/24/19 14:59       | ORM     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 448459       | 10/31/19 09:12       | SCB     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

**Client Sample ID: AZ21210 FB-2**

**Lab Sample ID: 400-176940-19**

**Date Collected: 09/18/19 09:20**

**Matrix: Water**

**Date Received: 09/25/19 11:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444528       | 09/30/19 07:14       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447440       | 10/23/19 18:58       | SCB     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 444542       | 09/30/19 09:34       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 446032       | 10/14/19 08:58       | JCB     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

**Client Sample ID: AZ21211 MW-17SV**

**Lab Sample ID: 400-176940-20**

**Date Collected: 09/18/19 09:45**

**Matrix: Water**

**Date Received: 09/25/19 11:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444528       | 09/30/19 07:14       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447440       | 10/23/19 18:58       | SCB     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 444542       | 09/30/19 09:34       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 446032       | 10/14/19 08:58       | JCB     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

# Lab Chronicle

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

## Client Sample ID: AZ21212 MW-18

## Lab Sample ID: 400-176940-21

Date Collected: 09/18/19 10:48

Matrix: Water

Date Received: 09/25/19 11:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444528       | 09/30/19 07:14       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447440       | 10/23/19 18:58       | SCB     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 444542       | 09/30/19 09:34       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 446032       | 10/14/19 08:58       | JCB     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

## Client Sample ID: AZ21213 MW-20

## Lab Sample ID: 400-176940-22

Date Collected: 09/18/19 11:47

Matrix: Water

Date Received: 09/25/19 11:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444528       | 09/30/19 07:14       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447440       | 10/23/19 18:58       | SCB     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 444542       | 09/30/19 09:34       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 446032       | 10/14/19 08:59       | JCB     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

## Client Sample ID: AZ21214 MW-20SV

## Lab Sample ID: 400-176940-23

Date Collected: 09/18/19 12:46

Matrix: Water

Date Received: 09/25/19 11:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444528       | 09/30/19 07:14       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447440       | 10/23/19 18:59       | SCB     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 444542       | 09/30/19 09:34       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 446032       | 10/14/19 08:59       | JCB     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

## Client Sample ID: AZ21215 MW-20V

## Lab Sample ID: 400-176940-24

Date Collected: 09/18/19 14:19

Matrix: Water

Date Received: 09/25/19 11:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444528       | 09/30/19 07:14       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447440       | 10/23/19 18:59       | SCB     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 444542       | 09/30/19 09:34       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 446032       | 10/14/19 08:59       | JCB     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

# Lab Chronicle

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

Job ID: 400-176940-1  
SDG: Gaston Ash Pond 1240

## Client Sample ID: AZ21216 FB-3

## Lab Sample ID: 400-176940-25

Date Collected: 09/18/19 15:35

Matrix: Water

Date Received: 09/25/19 11:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444528       | 09/30/19 07:14       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447440       | 10/23/19 18:59       | SCB     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 444542       | 09/30/19 09:34       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 446032       | 10/14/19 08:59       | JCB     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

## Client Sample ID: AZ21217 MW-26

## Lab Sample ID: 400-176940-26

Date Collected: 09/18/19 15:47

Matrix: Water

Date Received: 09/25/19 11:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444528       | 09/30/19 07:14       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447440       | 10/23/19 18:59       | SCB     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 444542       | 09/30/19 09:34       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 446032       | 10/14/19 08:59       | JCB     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

## Client Sample ID: AZ21218 MW-26 DUP

## Lab Sample ID: 400-176940-27

Date Collected: 09/18/19 15:47

Matrix: Water

Date Received: 09/25/19 11:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444528       | 09/30/19 07:14       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447440       | 10/23/19 18:59       | SCB     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 444542       | 09/30/19 09:34       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 446032       | 10/14/19 08:59       | JCB     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

## Client Sample ID: AZ21219 EB-2

## Lab Sample ID: 400-176940-28

Date Collected: 09/18/19 17:35

Matrix: Water

Date Received: 09/25/19 11:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444528       | 09/30/19 07:14       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447440       | 10/23/19 18:59       | SCB     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 444542       | 09/30/19 09:34       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 446032       | 10/14/19 08:59       | JCB     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |



# Lab Chronicle

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

Job ID: 400-176940-1  
SDG: Gaston Ash Pond 1240

## Client Sample ID: AZ21220 MW-27

## Lab Sample ID: 400-176940-29

Date Collected: 09/18/19 17:50

Matrix: Water

Date Received: 09/25/19 11:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444528       | 09/30/19 07:14       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447440       | 10/23/19 18:59       | SCB     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 444542       | 09/30/19 09:34       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 446032       | 10/14/19 08:59       | JCB     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

## Client Sample ID: AZ21236 MW-10

## Lab Sample ID: 400-176940-30

Date Collected: 09/16/19 10:53

Matrix: Water

Date Received: 09/25/19 11:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444528       | 09/30/19 07:14       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447324       | 10/23/19 19:00       | SCB     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 444542       | 09/30/19 09:34       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 446032       | 10/14/19 08:59       | JCB     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

## Client Sample ID: AZ21237 MW-10 DUP

## Lab Sample ID: 400-176940-31

Date Collected: 09/16/19 10:53

Matrix: Water

Date Received: 09/25/19 11:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444528       | 09/30/19 07:14       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447324       | 10/23/19 19:00       | SCB     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 444542       | 09/30/19 09:34       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 446032       | 10/14/19 08:59       | JCB     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

## Client Sample ID: AZ21238 MW-11

## Lab Sample ID: 400-176940-32

Date Collected: 09/16/19 12:35

Matrix: Water

Date Received: 09/25/19 11:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444528       | 09/30/19 07:14       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447324       | 10/23/19 20:50       | SCB     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 444542       | 09/30/19 09:34       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 446002       | 10/14/19 09:04       | JCB     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

# Lab Chronicle

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

Job ID: 400-176940-1  
SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21239 MW-12**

**Lab Sample ID: 400-176940-33**

**Date Collected: 09/16/19 15:10**

**Matrix: Water**

**Date Received: 09/25/19 11:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444528       | 09/30/19 07:14       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447440       | 10/23/19 20:52       | SCB     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 444542       | 09/30/19 09:34       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 446002       | 10/14/19 09:04       | JCB     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

**Client Sample ID: AZ21240 FB-1**

**Lab Sample ID: 400-176940-34**

**Date Collected: 09/16/19 15:29**

**Matrix: Water**

**Date Received: 09/25/19 11:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444528       | 09/30/19 07:14       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447440       | 10/23/19 20:52       | SCB     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 444542       | 09/30/19 09:34       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 446002       | 10/14/19 09:04       | JCB     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

**Client Sample ID: AZ21241 MW-4**

**Lab Sample ID: 400-176940-35**

**Date Collected: 09/17/19 09:48**

**Matrix: Water**

**Date Received: 09/25/19 11:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444528       | 09/30/19 07:14       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447440       | 10/23/19 20:52       | SCB     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 444542       | 09/30/19 09:34       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 446002       | 10/14/19 09:04       | JCB     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

**Client Sample ID: AZ21242 MW-9**

**Lab Sample ID: 400-176940-36**

**Date Collected: 09/17/19 11:42**

**Matrix: Water**

**Date Received: 09/25/19 11:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444528       | 09/30/19 07:14       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447440       | 10/23/19 20:52       | SCB     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 444542       | 09/30/19 09:34       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 446002       | 10/14/19 09:04       | JCB     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

# Lab Chronicle

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

Job ID: 400-176940-1  
SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21243 MW-8**

**Lab Sample ID: 400-176940-37**

**Date Collected: 09/17/19 13:20**

**Matrix: Water**

**Date Received: 09/25/19 11:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444528       | 09/30/19 07:14       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447440       | 10/23/19 20:52       | SCB     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 444542       | 09/30/19 09:34       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 446002       | 10/14/19 09:05       | JCB     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

**Client Sample ID: AZ21244 MW-1**

**Lab Sample ID: 400-176940-38**

**Date Collected: 09/17/19 15:39**

**Matrix: Water**

**Date Received: 09/25/19 11:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444529       | 09/30/19 07:17       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447220       | 10/22/19 06:33       | CJQ     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 444551       | 09/30/19 11:37       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 445782       | 10/11/19 16:42       | AJD     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

**Client Sample ID: AZ21245 MW-3**

**Lab Sample ID: 400-176940-39**

**Date Collected: 09/17/19 17:24**

**Matrix: Water**

**Date Received: 09/25/19 11:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444529       | 09/30/19 07:17       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447220       | 10/22/19 06:33       | CJQ     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 444551       | 09/30/19 11:37       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 445782       | 10/11/19 16:43       | AJD     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

**Client Sample ID: AZ21246 MW-2**

**Lab Sample ID: 400-176940-40**

**Date Collected: 09/18/19 08:11**

**Matrix: Water**

**Date Received: 09/25/19 11:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444529       | 09/30/19 07:17       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447220       | 10/22/19 06:33       | CJQ     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 444551       | 09/30/19 11:37       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 445782       | 10/11/19 16:43       | AJD     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

# Lab Chronicle

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

Job ID: 400-176940-1  
SDG: Gaston Ash Pond 1240

**Client Sample ID: AZ21247 MW-19**

**Lab Sample ID: 400-176940-41**

**Date Collected: 09/18/19 10:56**

**Matrix: Water**

**Date Received: 09/25/19 11:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444529       | 09/30/19 07:17       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447220       | 10/22/19 06:34       | CJQ     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 444551       | 09/30/19 11:37       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 445782       | 10/11/19 16:43       | AJD     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:22       | SMP     | TAL SL |

**Client Sample ID: AZ21248 EB-1**

**Lab Sample ID: 400-176940-42**

**Date Collected: 09/18/19 11:39**

**Matrix: Water**

**Date Received: 09/25/19 11:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444529       | 09/30/19 07:17       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447220       | 10/22/19 06:34       | CJQ     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 444551       | 09/30/19 11:37       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 445782       | 10/11/19 16:43       | AJD     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:24       | SMP     | TAL SL |

**Client Sample ID: AZ21249 MW-15R**

**Lab Sample ID: 400-176940-43**

**Date Collected: 09/18/19 14:26**

**Matrix: Water**

**Date Received: 09/25/19 11:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444529       | 09/30/19 07:17       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447220       | 10/22/19 06:34       | CJQ     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 444551       | 09/30/19 11:37       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 445782       | 10/11/19 16:43       | AJD     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:24       | SMP     | TAL SL |

**Client Sample ID: AZ21250 MW-23D**

**Lab Sample ID: 400-176940-44**

**Date Collected: 09/18/19 16:21**

**Matrix: Water**

**Date Received: 09/25/19 11:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21   |     |                 | 444529       | 09/30/19 07:17       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447220       | 10/22/19 06:34       | CJQ     | TAL SL |
| Total/NA  | Prep       | PrecSep_0    |     |                 | 444551       | 09/30/19 11:37       | EJQ     | TAL SL |
| Total/NA  | Analysis   | 9320         |     | 1               | 445782       | 10/11/19 16:43       | AJD     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448670       | 11/04/19 08:24       | 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 Gaston

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

## Rad

### Prep Batch: 444527

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method     | Prep Batch |
|--------------------|--------------------|-----------|--------|------------|------------|
| 400-176940-1       | AZ21173 MW-13      | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-2       | AZ21174 MW-14      | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-3       | AZ21175 MW-23S     | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-4       | AZ21176 FB-4       | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-5       | AZ21177 MW-7       | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-6       | AZ21178 MW-6       | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-7       | AZ21179 MW-6 DUP   | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-8       | AZ21180 MW-21      | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-9       | AZ21181 MW-22      | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-10      | AZ21182 MW-5       | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-11      | AZ21202 MW-16V     | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-12      | AZ21203 MW-16      | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-13      | AZ21204 MW-16 DUP  | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-14      | AZ21205 MW-28H     | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-15      | AZ21206 MW-29H     | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-16      | AZ21207 MW-17V     | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-17      | AZ21208 MW-17V DIS | Dissolved | Water  | PrecSep-21 |            |
| 400-176940-18      | AZ21209 MW-17      | Total/NA  | Water  | PrecSep-21 |            |
| MB 160-444527/22-A | Method Blank       | Total/NA  | Water  | PrecSep-21 |            |
| LCS 160-444527/1-A | Lab Control Sample | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-8DU     | AZ21180 MW-21      | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-14 DU   | AZ21205 MW-28H     | Total/NA  | Water  | PrecSep-21 |            |

### Prep Batch: 444528

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method     | Prep Batch |
|--------------------|--------------------|-----------|--------|------------|------------|
| 400-176940-19      | AZ21210 FB-2       | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-20      | AZ21211 MW-17SV    | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-21      | AZ21212 MW-18      | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-22      | AZ21213 MW-20      | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-23      | AZ21214 MW-20SV    | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-24      | AZ21215 MW-20V     | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-25      | AZ21216 FB-3       | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-26      | AZ21217 MW-26      | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-27      | AZ21218 MW-26 DUP  | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-28      | AZ21219 EB-2       | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-29      | AZ21220 MW-27      | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-30      | AZ21236 MW-10      | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-31      | AZ21237 MW-10 DUP  | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-32      | AZ21238 MW-11      | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-33      | AZ21239 MW-12      | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-34      | AZ21240 FB-1       | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-35      | AZ21241 MW-4       | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-36      | AZ21242 MW-9       | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-37      | AZ21243 MW-8       | Total/NA  | Water  | PrecSep-21 |            |
| MB 160-444528/22-A | Method Blank       | Total/NA  | Water  | PrecSep-21 |            |
| LCS 160-444528/1-A | Lab Control Sample | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-32 DU   | AZ21238 MW-11      | Total/NA  | Water  | PrecSep-21 |            |

### Prep Batch: 444529

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 400-176940-38 | AZ21244 MW-1     | Total/NA  | Water  | PrecSep-21 |            |

# QC Association Summary

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

## Rad (Continued)

### Prep Batch: 444529 (Continued)

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method     | Prep Batch |
|---------------------|------------------------|-----------|--------|------------|------------|
| 400-176940-39       | AZ21245 MW-3           | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-40       | AZ21246 MW-2           | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-41       | AZ21247 MW-19          | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-42       | AZ21248 EB-1           | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-43       | AZ21249 MW-15R         | Total/NA  | Water  | PrecSep-21 |            |
| 400-176940-44       | AZ21250 MW-23D         | Total/NA  | Water  | PrecSep-21 |            |
| MB 160-444529/12-A  | Method Blank           | Total/NA  | Water  | PrecSep-21 |            |
| LCS 160-444529/1-A  | Lab Control Sample     | Total/NA  | Water  | PrecSep-21 |            |
| LCSD 160-444529/2-A | Lab Control Sample Dup | Total/NA  | Water  | PrecSep-21 |            |

### Prep Batch: 444533

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method    | Prep Batch |
|--------------------|--------------------|-----------|--------|-----------|------------|
| 400-176940-2       | AZ21174 MW-14      | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-3       | AZ21175 MW-23S     | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-4       | AZ21176 FB-4       | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-5       | AZ21177 MW-7       | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-6       | AZ21178 MW-6       | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-7       | AZ21179 MW-6 DUP   | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-8       | AZ21180 MW-21      | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-9       | AZ21181 MW-22      | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-10      | AZ21182 MW-5       | Total/NA  | Water  | PrecSep_0 |            |
| MB 160-444533/22-A | Method Blank       | Total/NA  | Water  | PrecSep_0 |            |
| LCS 160-444533/1-A | Lab Control Sample | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-8DU     | AZ21180 MW-21      | Total/NA  | Water  | PrecSep_0 |            |

### Prep Batch: 444542

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method    | Prep Batch |
|--------------------|--------------------|-----------|--------|-----------|------------|
| 400-176940-19      | AZ21210 FB-2       | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-20      | AZ21211 MW-17SV    | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-21      | AZ21212 MW-18      | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-22      | AZ21213 MW-20      | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-23      | AZ21214 MW-20SV    | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-24      | AZ21215 MW-20V     | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-25      | AZ21216 FB-3       | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-26      | AZ21217 MW-26      | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-27      | AZ21218 MW-26 DUP  | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-28      | AZ21219 EB-2       | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-29      | AZ21220 MW-27      | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-30      | AZ21236 MW-10      | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-31      | AZ21237 MW-10 DUP  | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-32      | AZ21238 MW-11      | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-33      | AZ21239 MW-12      | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-34      | AZ21240 FB-1       | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-35      | AZ21241 MW-4       | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-36      | AZ21242 MW-9       | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-37      | AZ21243 MW-8       | Total/NA  | Water  | PrecSep_0 |            |
| MB 160-444542/22-A | Method Blank       | Total/NA  | Water  | PrecSep_0 |            |
| LCS 160-444542/1-A | Lab Control Sample | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-32 DU   | AZ21238 MW-11      | Total/NA  | Water  | PrecSep_0 |            |

# QC Association Summary

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

Job ID: 400-176940-1  
SDG: Gaston Ash Pond 1240

## Rad

### Prep Batch: 444551

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method    | Prep Batch |
|---------------------|------------------------|-----------|--------|-----------|------------|
| 400-176940-38       | AZ21244 MW-1           | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-39       | AZ21245 MW-3           | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-40       | AZ21246 MW-2           | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-41       | AZ21247 MW-19          | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-42       | AZ21248 EB-1           | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-43       | AZ21249 MW-15R         | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-44       | AZ21250 MW-23D         | Total/NA  | Water  | PrecSep_0 |            |
| MB 160-444551/12-A  | Method Blank           | Total/NA  | Water  | PrecSep_0 |            |
| LCS 160-444551/1-A  | Lab Control Sample     | Total/NA  | Water  | PrecSep_0 |            |
| LCSD 160-444551/2-A | Lab Control Sample Dup | Total/NA  | Water  | PrecSep_0 |            |

### Prep Batch: 447604

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method    | Prep Batch |
|--------------------|--------------------|-----------|--------|-----------|------------|
| 400-176940-1       | AZ21173 MW-13      | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-11      | AZ21202 MW-16V     | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-12      | AZ21203 MW-16      | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-13      | AZ21204 MW-16 DUP  | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-14      | AZ21205 MW-28H     | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-15      | AZ21206 MW-29H     | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-16      | AZ21207 MW-17V     | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-17      | AZ21208 MW-17V DIS | Dissolved | Water  | PrecSep_0 |            |
| 400-176940-18      | AZ21209 MW-17      | Total/NA  | Water  | PrecSep_0 |            |
| MB 160-447604/20-A | Method Blank       | Total/NA  | Water  | PrecSep_0 |            |
| LCS 160-447604/1-A | Lab Control Sample | Total/NA  | Water  | PrecSep_0 |            |
| 400-176940-14 DU   | AZ21205 MW-28H     | Total/NA  | Water  | PrecSep_0 |            |

# QC Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

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

**Lab Sample ID: MB 160-444527/22-A**  
**Matrix: Water**  
**Analysis Batch: 447519**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 444527**

| Analyte    | MB MB    |           | Count           | Total           | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|----------|-----------|-----------------|-----------------|------|-------|-------|----------------|----------------|---------|
|            | Result   | Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) |      |       |       |                |                |         |
| Radium-226 | -0.03558 | U         | 0.0699          | 0.0700          | 1.00 | 0.157 | pCi/L | 09/30/19 07:11 | 10/24/19 05:34 | 1       |
| Carrier    | MB MB    |           | Limits          |                 |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | %Yield   | Qualifier | 40 - 110        |                 |      |       |       | 09/30/19 07:11 | 10/24/19 05:34 | 1       |

**Lab Sample ID: LCS 160-444527/1-A**  
**Matrix: Water**  
**Analysis Batch: 447440**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 444527**

| Analyte    | LCS LCS |           | Spike    | LCS    | LCS  | Total           | RL   | MDC   | Unit  | %Rec | %Rec. Limits |
|------------|---------|-----------|----------|--------|------|-----------------|------|-------|-------|------|--------------|
|            | Result  | Qualifier | Added    | Result | Qual | Uncert. (2σ+/-) |      |       |       |      |              |
| Radium-226 |         |           | 11.4     | 10.03  |      | 1.08            | 1.00 | 0.153 | pCi/L | 88   | 75 - 125     |
| Carrier    | LCS LCS |           | Limits   |        |      |                 |      |       |       |      |              |
| Ba Carrier | %Yield  | Qualifier | 40 - 110 |        |      |                 |      |       |       |      |              |

**Lab Sample ID: 400-176940-8DU**  
**Matrix: Water**  
**Analysis Batch: 447519**

**Client Sample ID: AZ21180 MW-21**  
**Prep Type: Total/NA**  
**Prep Batch: 444527**

| Analyte    | Sample Sample |           | DU       | DU   | Total           | RL   | MDC   | Unit  | RER  | RER Limit |  |
|------------|---------------|-----------|----------|------|-----------------|------|-------|-------|------|-----------|--|
|            | Result        | Qual      | Result   | Qual | Uncert. (2σ+/-) |      |       |       |      |           |  |
| Radium-226 | 0.364         |           | 0.2840   |      | 0.140           | 1.00 | 0.174 | pCi/L | 0.28 | 1         |  |
| Carrier    | DU DU         |           | Limits   |      |                 |      |       |       |      |           |  |
| Ba Carrier | %Yield        | Qualifier | 40 - 110 |      |                 |      |       |       |      |           |  |

**Lab Sample ID: 400-176940-14 DU**  
**Matrix: Water**  
**Analysis Batch: 447519**

**Client Sample ID: AZ21205 MW-28H**  
**Prep Type: Total/NA**  
**Prep Batch: 444527**

| Analyte    | Sample Sample |           | DU       | DU   | Total           | RL   | MDC   | Unit  | RER  | RER Limit |  |
|------------|---------------|-----------|----------|------|-----------------|------|-------|-------|------|-----------|--|
|            | Result        | Qual      | Result   | Qual | Uncert. (2σ+/-) |      |       |       |      |           |  |
| Radium-226 | 3.08          |           | 3.790    |      | 0.526           | 1.00 | 0.170 | pCi/L | 0.73 | 1         |  |
| Carrier    | DU DU         |           | Limits   |      |                 |      |       |       |      |           |  |
| Ba Carrier | %Yield        | Qualifier | 40 - 110 |      |                 |      |       |       |      |           |  |

**Lab Sample ID: MB 160-444528/22-A**  
**Matrix: Water**  
**Analysis Batch: 447440**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 444528**

| Analyte    | MB MB    |           | Count           | Total           | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|----------|-----------|-----------------|-----------------|------|-------|-------|----------------|----------------|---------|
|            | Result   | Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) |      |       |       |                |                |         |
| Radium-226 | -0.09743 | U         | 0.0471          | 0.0479          | 1.00 | 0.153 | pCi/L | 09/30/19 07:14 | 10/23/19 20:52 | 1       |

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# QC Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

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

**Lab Sample ID: MB 160-444528/22-A**  
**Matrix: Water**  
**Analysis Batch: 447440**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 444528**

|                | <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     | 97.2          |                  | 40 - 110      |  | 09/30/19 07:14  | 10/23/19 20:52  | 1              |  |  |

**Lab Sample ID: LCS 160-444528/1-A**  
**Matrix: Water**  
**Analysis Batch: 447440**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 444528**

| <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-226     | 15.1               | 13.34             |                 | 1.40                         | 1.00      | 0.163      | pCi/L       | 88          | 75 - 125            |  |
| <i>Carrier</i> | <i>%Yield</i>      | <i>Qualifier</i>  | <i>Limits</i>   |                              |           |            |             |             |                     |  |
| Ba Carrier     | 92.7               |                   | 40 - 110        |                              |           |            |             |             |                     |  |

**Lab Sample ID: 400-176940-32 DU**  
**Matrix: Water**  
**Analysis Batch: 447324**

**Client Sample ID: AZ21238 MW-11**  
**Prep Type: Total/NA**  
**Prep Batch: 444528**

| <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-226     | -0.0635              | U                  | -0.01772         | U              | 0.0675                       | 1.00      | 0.145      | pCi/L       | 0.33       | 1                |
| <i>Carrier</i> | <i>%Yield</i>        | <i>Qualifier</i>   | <i>Limits</i>    |                |                              |           |            |             |            |                  |
| Ba Carrier     | 103                  |                    | 40 - 110         |                |                              |           |            |             |            |                  |

**Lab Sample ID: MB 160-444529/12-A**  
**Matrix: Water**  
**Analysis Batch: 447220**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 444529**

| <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-226     | -0.02445         | U                   | 0.0683                       | 0.0683                       | 1.00      | 0.143      | pCi/L       | 09/30/19 07:17  | 10/22/19 06:35  | 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     | 88.4             |                     | 40 - 110                     |                              |           |            |             | 09/30/19 07:17  | 10/22/19 06:35  | 1              |

**Lab Sample ID: LCS 160-444529/1-A**  
**Matrix: Water**  
**Analysis Batch: 447220**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 444529**

| <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-226     | 11.4               | 9.283             |                 | 1.00                         | 1.00      | 0.154      | pCi/L       | 82          | 75 - 125            |  |
| <i>Carrier</i> | <i>%Yield</i>      | <i>Qualifier</i>  | <i>Limits</i>   |                              |           |            |             |             |                     |  |
| Ba Carrier     | 78.8               |                   | 40 - 110        |                              |           |            |             |             |                     |  |

# QC Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

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

**Lab Sample ID: LCSD 160-444529/2-A**  
**Matrix: Water**  
**Analysis Batch: 447220**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 444529**

| Analyte        | Spike Added | LCSD Result   | LCSD Qual        | Total Uncert. (2σ+/-) | RL   | MDC   | Unit  | %Rec | %Rec. Limits |      | RER | RER Limit |
|----------------|-------------|---------------|------------------|-----------------------|------|-------|-------|------|--------------|------|-----|-----------|
|                |             |               |                  |                       |      |       |       |      | 75 - 125     | 0.30 | 1   |           |
| Radium-226     | 11.4        | 9.894         |                  | 1.04                  | 1.00 | 0.122 | pCi/L | 87   | 75 - 125     | 0.30 |     | 1         |
| <b>Carrier</b> |             | <b>LCS</b>    | <b>LCS</b>       |                       |      |       |       |      |              |      |     |           |
|                |             | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>         |      |       |       |      |              |      |     |           |
| Ba Carrier     |             | 89.5          |                  | 40 - 110              |      |       |       |      |              |      |     |           |

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

**Lab Sample ID: MB 160-444533/22-A**  
**Matrix: Water**  
**Analysis Batch: 446361**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 444533**

| Analyte        | MB Result | MB Qualifier  | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared        | Analyzed        | Dil Fac        |            |
|----------------|-----------|---------------|-----------------------|-----------------------|----|-----|------|-----------------|-----------------|----------------|------------|
|                |           |               |                       |                       |    |     |      |                 |                 |                | Radium-228 |
| <b>Carrier</b> |           | <b>MB</b>     | <b>MB</b>             |                       |    |     |      |                 |                 |                |            |
|                |           | <b>%Yield</b> | <b>Qualifier</b>      | <b>Limits</b>         |    |     |      | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |            |
| Ba Carrier     |           | 73.4          |                       | 40 - 110              |    |     |      | 09/30/19 08:23  | 10/16/19 09:18  | 1              |            |
| Y Carrier      |           | 78.1          |                       | 40 - 110              |    |     |      | 09/30/19 08:23  | 10/16/19 09:18  | 1              |            |

**Lab Sample ID: LCS 160-444533/1-A**  
**Matrix: Water**  
**Analysis Batch: 446428**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 444533**

| Analyte        | Spike Added | LCS Result    | LCS Qual         | Total Uncert. (2σ+/-) | RL   | MDC   | Unit  | %Rec | %Rec. Limits |  |
|----------------|-------------|---------------|------------------|-----------------------|------|-------|-------|------|--------------|--|
|                |             |               |                  |                       |      |       |       |      | 75 - 125     |  |
| Radium-228     | 12.7        | 17.15         | *                | 2.03                  | 1.00 | 0.828 | pCi/L | 136  | 75 - 125     |  |
| <b>Carrier</b> |             | <b>LCS</b>    | <b>LCS</b>       |                       |      |       |       |      |              |  |
|                |             | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>         |      |       |       |      |              |  |
| Ba Carrier     |             | 77.7          |                  | 40 - 110              |      |       |       |      |              |  |
| Y Carrier      |             | 66.9          |                  | 40 - 110              |      |       |       |      |              |  |

**Lab Sample ID: 400-176940-8DU**  
**Matrix: Water**  
**Analysis Batch: 446428**

**Client Sample ID: AZ21180 MW-21**  
**Prep Type: Total/NA**  
**Prep Batch: 444533**

| Analyte        | Sample Result | Sample Qual   | DU Result        | DU Qual       | Total Uncert. (2σ+/-) | RL   | MDC   | Unit  | RER  | RER Limit |
|----------------|---------------|---------------|------------------|---------------|-----------------------|------|-------|-------|------|-----------|
|                |               |               |                  |               |                       |      |       |       |      | 1.29      |
| Radium-228     | 0.0711        | U *           | 0.9404           | * F           | 0.395                 | 1.00 | 0.545 | pCi/L | 1.29 | 1         |
| <b>Carrier</b> |               | <b>DU</b>     | <b>DU</b>        |               |                       |      |       |       |      |           |
|                |               | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b> |                       |      |       |       |      |           |
| Ba Carrier     |               | 91.2          |                  | 40 - 110      |                       |      |       |       |      |           |
| Y Carrier      |               | 80.7          |                  | 40 - 110      |                       |      |       |       |      |           |

# QC Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

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

**Lab Sample ID: MB 160-444542/22-A**  
**Matrix: Water**  
**Analysis Batch: 446002**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 444542**

| Analyte        | MB            | MB               | Count           | Total           | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------|-----------------|------|-------|-------|-----------------|-----------------|----------------|
|                | Result        | Qualifier        | Uncert. (2σ+/-) | Uncert. (2σ+/-) |      |       |       |                 |                 |                |
| Radium-228     | 0.6747        |                  | 0.343           | 0.348           | 1.00 | 0.507 | pCi/L | 09/30/19 09:34  | 10/14/19 09:05  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>   |                 |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 97.2          |                  | 40 - 110        |                 |      |       |       | 09/30/19 09:34  | 10/14/19 09:05  | 1              |
| Y Carrier      | 88.2          |                  | 40 - 110        |                 |      |       |       | 09/30/19 09:34  | 10/14/19 09:05  | 1              |

**Lab Sample ID: LCS 160-444542/1-A**  
**Matrix: Water**  
**Analysis Batch: 446032**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 444542**

| Analyte        | Spike Added   | LCS Result       | LCS Qual      | Total           | RL   | MDC   | Unit  | %Rec | %Rec. Limits |
|----------------|---------------|------------------|---------------|-----------------|------|-------|-------|------|--------------|
|                |               |                  |               | Uncert. (2σ+/-) |      |       |       |      |              |
| Radium-228     | 12.7          | 12.06            |               | 1.42            | 1.00 | 0.563 | pCi/L | 95   | 75 - 125     |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b> |                 |      |       |       |      |              |
| Ba Carrier     | 92.7          |                  | 40 - 110      |                 |      |       |       |      |              |
| Y Carrier      | 84.9          |                  | 40 - 110      |                 |      |       |       |      |              |

**Lab Sample ID: 400-176940-32 DU**  
**Matrix: Water**  
**Analysis Batch: 446002**

**Client Sample ID: AZ21238 MW-11**  
**Prep Type: Total/NA**  
**Prep Batch: 444542**

| Analyte        | Sample        | Sample           | DU            | DU   | Total           | RL   | MDC   | Unit  | RER  | RER Limit |
|----------------|---------------|------------------|---------------|------|-----------------|------|-------|-------|------|-----------|
|                | Result        | Qual             | Result        | Qual | Uncert. (2σ+/-) |      |       |       |      |           |
| Radium-228     | 0.570         | U                | 0.06408       | U    | 0.308           | 1.00 | 0.536 | pCi/L | 0.73 | 1         |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b> |      |                 |      |       |       |      |           |
| Ba Carrier     | 103           |                  | 40 - 110      |      |                 |      |       |       |      |           |
| Y Carrier      | 87.9          |                  | 40 - 110      |      |                 |      |       |       |      |           |

**Lab Sample ID: MB 160-444551/12-A**  
**Matrix: Water**  
**Analysis Batch: 445782**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 444551**

| Analyte        | MB            | MB               | Count           | Total           | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------------|------------------|-----------------|-----------------|------|-------|-------|-----------------|-----------------|----------------|
|                | Result        | Qualifier        | Uncert. (2σ+/-) | Uncert. (2σ+/-) |      |       |       |                 |                 |                |
| Radium-228     | 0.04546       | U                | 0.247           | 0.247           | 1.00 | 0.433 | pCi/L | 09/30/19 11:37  | 10/11/19 16:43  | 1              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>   |                 |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 88.4          |                  | 40 - 110        |                 |      |       |       | 09/30/19 11:37  | 10/11/19 16:43  | 1              |
| Y Carrier      | 87.9          |                  | 40 - 110        |                 |      |       |       | 09/30/19 11:37  | 10/11/19 16:43  | 1              |

# QC Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

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

**Lab Sample ID: LCS 160-444551/1-A**  
**Matrix: Water**  
**Analysis Batch: 445782**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 444551**

| Analyte    | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL   | MDC   | Unit  | %Rec | %Rec. Limits |
|------------|-------------|------------|----------|-----------------------|------|-------|-------|------|--------------|
| Radium-228 | 9.50        | 11.35      |          | 1.35                  | 1.00 | 0.609 | pCi/L | 119  | 75 - 125     |

| Carrier    | LCS %Yield | LCS Qualifier | Limits   |
|------------|------------|---------------|----------|
| Ba Carrier | 78.8       |               | 40 - 110 |
| Y Carrier  | 82.6       |               | 40 - 110 |

**Lab Sample ID: LCSD 160-444551/2-A**  
**Matrix: Water**  
**Analysis Batch: 445782**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 444551**

| Analyte    | Spike Added | LCSD Result | LCSD Qual | Total Uncert. (2σ+/-) | RL   | MDC   | Unit  | %Rec | %Rec. Limits | RER  | RER Limit |
|------------|-------------|-------------|-----------|-----------------------|------|-------|-------|------|--------------|------|-----------|
| Radium-228 | 9.50        | 10.44       |           | 1.20                  | 1.00 | 0.440 | pCi/L | 110  | 75 - 125     | 0.36 | 1         |

| Carrier    | LCSD %Yield | LCSD Qualifier | Limits   |
|------------|-------------|----------------|----------|
| Ba Carrier | 89.5        |                | 40 - 110 |
| Y Carrier  | 87.5        |                | 40 - 110 |

**Lab Sample ID: MB 160-447604/20-A**  
**Matrix: Water**  
**Analysis Batch: 448507**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 447604**

| Analyte    | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL   | MDC  | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|-----------|--------------|-----------------------|-----------------------|------|------|-------|----------------|----------------|---------|
| Radium-228 | 0.8154    | U G          | 0.844                 | 0.847                 | 1.00 | 1.38 | pCi/L | 10/24/19 15:25 | 10/31/19 09:03 | 1       |

| Carrier    | MB %Yield | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------|-----------|--------------|----------|----------------|----------------|---------|
| Ba Carrier | 97.3      |              | 40 - 110 | 10/24/19 15:25 | 10/31/19 09:03 | 1       |
| Y Carrier  | 84.9      |              | 40 - 110 | 10/24/19 15:25 | 10/31/19 09:03 | 1       |

**Lab Sample ID: LCS 160-447604/1-A**  
**Matrix: Water**  
**Analysis Batch: 448459**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 447604**

| Analyte    | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL   | MDC  | Unit  | %Rec | %Rec. Limits |
|------------|-------------|------------|----------|-----------------------|------|------|-------|------|--------------|
| Radium-228 | 31.5        | 30.72      |          | 3.60                  | 1.00 | 1.41 | pCi/L | 98   | 75 - 125     |

| Carrier    | LCS %Yield | LCS Qualifier | Limits   |
|------------|------------|---------------|----------|
| Ba Carrier | 94.6       |               | 40 - 110 |
| Y Carrier  | 86.0       |               | 40 - 110 |

# QC Sample Results

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

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

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

**Lab Sample ID: 400-176940-14 DU**  
**Matrix: Water**  
**Analysis Batch: 448459**

**Client Sample ID: AZ21205 MW-28H**  
**Prep Type: Total/NA**  
**Prep Batch: 447604**

| Analyte    | Sample | Sample | DU     |      | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC  | Unit  | RER  | RER<br>Limit |
|------------|--------|--------|--------|------|-----------------------------|------|------|-------|------|--------------|
|            | Result | Qual   | Result | Qual |                             |      |      |       |      |              |
| Radium-228 | 1.56   | G      | 1.119  | U G  | 0.840                       | 1.00 | 1.31 | pCi/L | 0.26 | 1            |

| Carrier    | DU     | DU        | Limits   |
|------------|--------|-----------|----------|
|            | %Yield | Qualifier |          |
| Ba Carrier | 90.7   |           | 40 - 110 |
| Y Carrier  | 87.1   |           | 40 - 110 |

## Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228

**Lab Sample ID: 400-176940-8DU**  
**Matrix: Water**  
**Analysis Batch: 448670**

**Client Sample ID: AZ21180 MW-21**  
**Prep Type: Total/NA**

| Analyte                   | Sample | Sample | DU     |      | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | RER  | RER<br>Limit |
|---------------------------|--------|--------|--------|------|-----------------------------|------|-------|-------|------|--------------|
|                           | Result | Qual   | Result | Qual |                             |      |       |       |      |              |
| Combined Radium 226 + 228 | 0.4350 |        | 1.224  |      | 0.419                       | 5.00 | 0.545 | pCi/L | 1.07 |              |

**Lab Sample ID: 400-176940-14 DU**  
**Matrix: Water**  
**Analysis Batch: 448670**

**Client Sample ID: AZ21205 MW-28H**  
**Prep Type: Total/NA**

| Analyte                   | Sample | Sample | DU     |      | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC  | Unit  | RER  | RER<br>Limit |
|---------------------------|--------|--------|--------|------|-----------------------------|------|------|-------|------|--------------|
|                           | Result | Qual   | Result | Qual |                             |      |      |       |      |              |
| Combined Radium 226 + 228 | 4.63   |        | 4.909  |      | 0.991                       | 5.00 | 1.31 | pCi/L | 0.14 |              |

**Lab Sample ID: 400-176940-32 DU**  
**Matrix: Water**  
**Analysis Batch: 448670**

**Client Sample ID: AZ21238 MW-11**  
**Prep Type: Total/NA**

| Analyte                   | Sample | Sample | DU      |      | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | RER  | RER<br>Limit |
|---------------------------|--------|--------|---------|------|-----------------------------|------|-------|-------|------|--------------|
|                           | Result | Qual   | Result  | Qual |                             |      |       |       |      |              |
| Combined Radium 226 + 228 | 0.507  | U      | 0.04636 | U    | 0.315                       | 5.00 | 0.536 | pCi/L | 0.65 |              |

Chain of Custody Record

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                           |                                                                                                                                                |                                                                                |                                                                                                                                                                                                         |                                                                                                                                              |                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| <b>Client Information (Sub Contract Lab)</b><br>Client Contact: Laura Midkiff<br>Address: Alabama Power General Test Laboratory<br>744 County Rd 87 GSC#8<br>City: Callera<br>State, Zip: AL, 35040<br>Phone: 205-664-6197<br>Email: lbmidkiff@southrimco.com<br>Project Name: CCR<br>Site: Gorgas Ash Pond 1240                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                           | Lab PM: Whitmore, Chyenne R<br>E-Mail: chyenne.whitmore@testamerica.com<br>State of Origin: Alabama                                            |                                                                                | Carrier Tracking No(s): 400-56525-24537-1<br>Page: Page 1 of 3<br>Job #:                                                                                                                                |                                                                                                                                              |                                              |
| Due Date Requested:<br>TAT Requested (days): Routine<br>PO #: 205-664-6197<br>WO #: lbmidkiff@southrimco.com<br>Project #: 40007143<br>CCR<br>Site: Gorgas Ash Pond 1240                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                           | Analysis Requested<br>9315_Ra228, 9320_Ra228, Ra228, Ra228Ra228_GFPc<br>SM 4500 Cl_E<br>SM 4500 Cl_E<br>SM 4500 F_C<br>Form MS/MSD (Yes or No) |                                                                                | Preservation Codes:<br>A - HCL<br>B - NaOH<br>C - Zn Acetate<br>D - Nitric Acid<br>E - NaOH<br>F - NaOH<br>G - Amchlor<br>H - Ascorbic Acid<br>I - Ice<br>J - DI Water<br>K - EDTA<br>L - EDA<br>Other: |                                                                                                                                              |                                              |
| <b>Sample Identification - Client ID (Lab ID)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                           | Field Filtered Sample (Yes or No)                                                                                                              |                                                                                | Total Number of Containers                                                                                                                                                                              |                                                                                                                                              |                                              |
| Sample ID<br>A-Z21173<br>A-Z21174<br>A-Z21175<br>A-Z21176<br>A-Z21177<br>A-Z21178<br>A-Z21179<br>A-Z21180<br>A-Z21181<br>A-Z21182                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Sample Date<br>9/17/19<br>9/17/19<br>9/17/19<br>9/17/19<br>9/18/19<br>9/18/19<br>9/18/19<br>9/18/19<br>9/18/19<br>9/18/19 | Sample Time<br>10:50<br>12:35<br>15:22<br>16:10<br>11:00<br>12:10<br>12:10<br>13:23<br>14:55<br>15:42                                          | Sample Type (C=Comp, G=grab)<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G | Matrix (Water, Soil, Other)<br>Water<br>Water<br>Water<br>Water<br>Water<br>Water<br>Water<br>Water<br>Water<br>Water                                                                                   | Preservation Code<br>MW-13<br>MW-14<br>MW-23S<br>FB-4 (Field Blank)<br>MW-7<br>MW-6<br>MW-6 DUP (Sample Duplicate)<br>MW-21<br>MW-22<br>MW-5 | Special Instructions/Note:<br>400-176940 COC |
| 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. |                                                                                                                           |                                                                                                                                                |                                                                                |                                                                                                                                                                                                         |                                                                                                                                              |                                              |
| <b>Possible Hazard Identification</b><br>Unconfirmed<br>Deliverable Requested: I, II, III, IV, Other (specify)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                           |                                                                                                                                                |                                                                                |                                                                                                                                                                                                         |                                                                                                                                              |                                              |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)<br><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                           |                                                                                                                                                |                                                                                |                                                                                                                                                                                                         |                                                                                                                                              |                                              |
| 435899 Special Instructions (CC Requirements)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                           |                                                                                                                                                |                                                                                |                                                                                                                                                                                                         |                                                                                                                                              |                                              |
| Relinquished by: Laura Midkiff<br>Date/Time: 09/23/19 15:00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                           | Received by: Water APC<br>Date/Time:                                                                                                           |                                                                                | Method of Shipment: Company                                                                                                                                                                             |                                                                                                                                              |                                              |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                           | Received by:                                                                                                                                   |                                                                                | Company:                                                                                                                                                                                                |                                                                                                                                              |                                              |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                           | Received by:                                                                                                                                   |                                                                                | Company:                                                                                                                                                                                                |                                                                                                                                              |                                              |
| Custody Seal Intact:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                           | Custody Seal No.:                                                                                                                              |                                                                                | Date/Time: 11:50 9/25/19<br>Company: TA                                                                                                                                                                 |                                                                                                                                              |                                              |

22.2°C, 23.1°C, 23.4°C  
 Ver: 09/20/2016  
 128

- 1
- 2
- 3
- 4
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- 6
- 7
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- 11
- 12
- 13

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

**Chain of Custody Record**

**TestAmerica**  
 THE LEADER IN ENVIRONMENTAL TESTING

|                                                                                                                                                                                                                               |                    |                                            |                                     |                                                                   |                          |                                                                                                                                                                                                                                                                                                                                    |                     |                                     |                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------------------|-------------------------------------|-------------------------------------------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------|--------------------------------|
| <b>Client Information (Sub Contract Lab)</b>                                                                                                                                                                                  |                    | <b>Sample</b>                              |                                     | <b>Lab PM</b>                                                     |                          | <b>Carrier Tracking Note(s)</b>                                                                                                                                                                                                                                                                                                    |                     | <b>30C No:</b><br>400-56525-24537.1 |                                |
| Alabama Power General Test Laboratory<br>744 County Rd 87 GSC#8<br>City: Calera<br>State, Zip: AL, 35040<br>Phone: 205-664-6197<br>Email: lbmdkiff@southernco.com<br>Project #: 40007143<br>CCR<br>Site: Gorgas Ash Pond 1240 |                    | Anthony Coggins<br>Phone:                  |                                     | Whitmore, Cheyenne R<br>E-Mail: cheyenne.whitmore@testamerica.com |                          | State of Origin:<br>Alabama                                                                                                                                                                                                                                                                                                        |                     | Page 2 of 3<br>Job #:               |                                |
| <b>Due Date Requested:</b>                                                                                                                                                                                                    |                    | <b>Analysis Requested</b>                  |                                     | <b>Accreditations Required (See Note)</b>                         |                          | <b>Preservation Codes:</b>                                                                                                                                                                                                                                                                                                         |                     |                                     |                                |
| TAT Requested (days): Routine                                                                                                                                                                                                 |                    | 9315, RA226, 9320, RA228, RA226RA228, GFPC |                                     |                                                                   |                          | A - HCL<br>M - Hexane<br>B - NaOH<br>N - None<br>C - Zn Acetate<br>O - Ash/02<br>D - Nitric Acid<br>P - Na2OAS<br>E - Na2SO4<br>F - Na2CO3<br>G - Ascorbic<br>S - H2SO4<br>H - Ascorbic Acid<br>T - TSP Dodecahydrate<br>I - Ice<br>J - DI Water<br>K - EDTA<br>V - MCAA<br>W - pH 4-5<br>L - EDA<br>Z - other (specify)<br>Other: |                     |                                     |                                |
| <b>Sample Identification - Client ID (Lab ID)</b>                                                                                                                                                                             |                    | <b>Field Filtered Sample (Yes or No)</b>   |                                     | <b>Total Number of Containers</b>                                 |                          | <b>Special Instructions/Note:</b>                                                                                                                                                                                                                                                                                                  |                     |                                     |                                |
| <b>Sample ID</b>                                                                                                                                                                                                              | <b>Sample Date</b> | <b>Sample Time</b>                         | <b>Sample Type (C=comp, G=grab)</b> | <b>Matrix (Water, Soil, Other)</b>                                | <b>Preservation Code</b> | <b>Perform MS/MSD (Yes or No)</b>                                                                                                                                                                                                                                                                                                  | <b>SM 4500 F.C.</b> | <b>SM 4500 CLE</b>                  | <b>SM 4500 SO4.E</b>           |
| AZ21202                                                                                                                                                                                                                       | 9/16/19            | 15:00                                      | G                                   | Water                                                             |                          | X                                                                                                                                                                                                                                                                                                                                  |                     |                                     | 1 MW-16V                       |
| AZ21203                                                                                                                                                                                                                       | 9/16/19            | 16:11                                      | G                                   | Water                                                             |                          | X                                                                                                                                                                                                                                                                                                                                  |                     |                                     | 1 MW-16                        |
| AZ21204                                                                                                                                                                                                                       | 9/16/19            | 16:11                                      | G                                   | Water                                                             |                          | X                                                                                                                                                                                                                                                                                                                                  |                     |                                     | 1 MW-16 DUP (Sample Duplicate) |
| AZ21205                                                                                                                                                                                                                       | 9/16/19            | 17:07                                      | G                                   | Water                                                             |                          | X                                                                                                                                                                                                                                                                                                                                  |                     |                                     | 3 MW-28H                       |
| AZ21206                                                                                                                                                                                                                       | 9/17/19            | 12:00                                      | G                                   | Water                                                             |                          | X                                                                                                                                                                                                                                                                                                                                  |                     |                                     | 1 MW-29H                       |
| AZ21207                                                                                                                                                                                                                       | 9/17/19            | 15:22                                      | G                                   | Water                                                             |                          | X                                                                                                                                                                                                                                                                                                                                  |                     |                                     | 1 MW-17V                       |
| AZ21208                                                                                                                                                                                                                       | 9/17/19            | 15:22                                      | G                                   | Water                                                             |                          | X                                                                                                                                                                                                                                                                                                                                  |                     |                                     | 1 MW-17VDIS                    |
| AZ21209                                                                                                                                                                                                                       | 9/17/19            | 17:10                                      | G                                   | Water                                                             |                          | X                                                                                                                                                                                                                                                                                                                                  |                     |                                     | 1 MW-17                        |
| AZ21210                                                                                                                                                                                                                       | 9/18/19            | 09:20                                      | G                                   | Water                                                             |                          | X                                                                                                                                                                                                                                                                                                                                  |                     |                                     | 1 FB-2 (Field Blank)           |
| AZ21211                                                                                                                                                                                                                       | 9/18/19            | 09:45                                      | G                                   | Water                                                             |                          | X                                                                                                                                                                                                                                                                                                                                  |                     |                                     | 1 MW-17SV                      |
| AZ21212                                                                                                                                                                                                                       | 9/18/19            | 10:48                                      | G                                   | Water                                                             |                          | X                                                                                                                                                                                                                                                                                                                                  |                     |                                     | 1 MW-18                        |
| AZ21213                                                                                                                                                                                                                       | 9/18/19            | 11:47                                      | G                                   | Water                                                             |                          | X                                                                                                                                                                                                                                                                                                                                  |                     |                                     | 1 MW-20                        |
| AZ21214                                                                                                                                                                                                                       | 9/18/19            | 12:46                                      | G                                   | Water                                                             |                          | X                                                                                                                                                                                                                                                                                                                                  |                     |                                     | 1 MW-20SV                      |
| AZ21215                                                                                                                                                                                                                       | 9/18/19            | 14:19                                      | G                                   | Water                                                             |                          | X                                                                                                                                                                                                                                                                                                                                  |                     |                                     | 1 MW-20V                       |
| AZ21216                                                                                                                                                                                                                       | 9/18/19            | 15:35                                      | G                                   | Water                                                             |                          | X                                                                                                                                                                                                                                                                                                                                  |                     |                                     | 1 FB-3 (Field Blank)           |
| AZ21217                                                                                                                                                                                                                       | 9/18/19            | 15:47                                      | G                                   | Water                                                             |                          | X                                                                                                                                                                                                                                                                                                                                  |                     |                                     | 1 MW-26                        |
| AZ21218                                                                                                                                                                                                                       | 9/18/19            | 15:47                                      | G                                   | Water                                                             |                          | X                                                                                                                                                                                                                                                                                                                                  |                     |                                     | 1 MW-26 DUP (Sample Duplicate) |
| AZ21219                                                                                                                                                                                                                       | 9/18/19            | 17:35                                      | G                                   | Water                                                             |                          | X                                                                                                                                                                                                                                                                                                                                  |                     |                                     | 1 EB-2 (Equipment Blank)       |
| AZ21220                                                                                                                                                                                                                       | 9/18/19            | 17:50                                      | G                                   | Water                                                             |                          | X                                                                                                                                                                                                                                                                                                                                  |                     |                                     | 1 MW-27                        |

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**Possible Hazard Identification**  
 Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify): 435893 Special Instructions/QC Requirements:

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

Received by: *Laura Midkiff* Date/Time: 09/23/19 15:00 Method of Shipment: Water APC Company: Company  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: Company  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: Company  
 Relinquished by: *Byron* Date/Time: 11/25/19 Company: TA

Custody Seal Intact: \_\_\_\_\_ Custody Seal No.: \_\_\_\_\_

**Chain of Custody Record**

|                                                                                                                                                                                                                       |                    |                                          |                                               |                                                 |                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------------|
| <b>Client Information (Sub Contract Lab)</b>                                                                                                                                                                          |                    | <b>Lab P/N</b>                           |                                               | <b>Center Tracking No(s)</b>                    |                                  |
| Alabama Power General Test Laboratory<br>744 County Rd 87 GSC#8<br>City: Callera<br>State: AL, Zip: 35040<br>Phone: 205-664-6197<br>Email: lbmicki@souththermo.com<br>Project Name: CCR<br>Site: Gorgas Ash Pond 1240 |                    | Dallas Gentry<br>Phone:                  |                                               | Whitire, Cheyenne R<br>State of Origin: Alabama |                                  |
| <b>Due Date Requested:</b>                                                                                                                                                                                            |                    | <b>Form MS/MSD (Yes or No)</b>           |                                               | <b>Analysis Requested</b>                       |                                  |
| TAT Requested (days): Routine                                                                                                                                                                                         |                    | 9315_Ra226_9320_Ra226_Ra226Ra226_GFPC    |                                               | 9315_Ra226_9320_Ra226_Ra226Ra226_GFPC           |                                  |
| <b>Sample Date</b>                                                                                                                                                                                                    |                    | <b>Field Filtered Sample (Yes or No)</b> |                                               | <b>Total Number of Containers</b>               |                                  |
| <b>Sample ID (Lab ID)</b>                                                                                                                                                                                             | <b>Sample Time</b> | <b>Sample Type (C=Comp, G=Grab)</b>      | <b>Matrix (Water, Soil, Oil, Grease, Air)</b> | <b>Preservation Code</b>                        | <b>Special Instructions/Note</b> |
| AZ21236                                                                                                                                                                                                               | 9/16/19 10:53      | G                                        | Water                                         | MMW-10                                          | 1 MMW-10                         |
| AZ21237                                                                                                                                                                                                               | 9/16/19 10:53      | G                                        | Water                                         | MMW-10 DUP (Sample Duplicate)                   | 1 MMW-10 DUP (Sample Duplicate)  |
| AZ21238                                                                                                                                                                                                               | 9/16/19 12:35      | G                                        | Water                                         | MMW-11                                          | 3 MMW-11                         |
| AZ21239                                                                                                                                                                                                               | 9/16/19 15:10      | G                                        | Water                                         | MMW-12                                          | 1 MMW-12                         |
| AZ21240                                                                                                                                                                                                               | 9/16/19 15:29      | G                                        | Water                                         | FB-1 (Field Blank)                              | 1 FB-1 (Field Blank)             |
| AZ21241                                                                                                                                                                                                               | 9/17/19 09:48      | G                                        | Water                                         | MMW-4                                           | 1 MMW-4                          |
| AZ21242                                                                                                                                                                                                               | 9/17/19 11:42      | G                                        | Water                                         | MMW-9                                           | 1 MMW-9                          |
| AZ21243                                                                                                                                                                                                               | 9/17/19 13:20      | G                                        | Water                                         | MMW-8                                           | 1 MMW-8                          |
| AZ21244                                                                                                                                                                                                               | 9/17/19 15:39      | G                                        | Water                                         | MMW-1                                           | 1 MMW-1                          |
| AZ21245                                                                                                                                                                                                               | 9/17/19 17:24      | G                                        | Water                                         | MMW-3                                           | 1 MMW-3                          |
| AZ21246                                                                                                                                                                                                               | 9/18/19 08:11      | G                                        | Water                                         | MMW-2                                           | 1 MMW-2                          |
| AZ21247                                                                                                                                                                                                               | 9/18/19 10:56      | G                                        | Water                                         | MMW-19                                          | 1 MMW-19                         |
| AZ21248                                                                                                                                                                                                               | 9/18/19 11:39      | G                                        | Water                                         | EE-1 (Equipment Blank)                          | 1 EE-1 (Equipment Blank)         |
| AZ21249                                                                                                                                                                                                               | 9/18/19 14:26      | G                                        | Water                                         | MMW-15R                                         | 1 MMW-15R                        |
| AZ21250                                                                                                                                                                                                               | 9/18/19 16:21      | G                                        | Water                                         | MMW-23D                                         | 1 MMW-23D                        |

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**Possible Hazard Identification**  
 Unconfirmed  
 Deliverable Requested: I, III, IV, Other (Specify): 43589 (Special Instructions) GC Requirements  
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

|                                                                      |                                           |                                                                            |
|----------------------------------------------------------------------|-------------------------------------------|----------------------------------------------------------------------------|
| <b>Employer/Kit Relinquished by:</b><br>Relinquished by: Laura Micki | <b>Date:</b><br>Date/Time: 09/23/19 16:00 | <b>Method of Shipment:</b><br>Water                                        |
| <b>Relinquished by:</b>                                              | <b>Date/Time:</b>                         | <b>Company:</b> APC                                                        |
| <b>Relinquished by:</b>                                              | <b>Date/Time:</b>                         | <b>Company:</b> Company                                                    |
| <b>Custody Seals Intact:</b>                                         | <b>Custody Seal No.:</b>                  | <b>Scale/Temp/MSD/C and Other Remarks:</b><br>11:30 9/18/19<br>Duper<br>TA |





## Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-176940-1  
SDG Number: Gaston Ash Pond 1240

**Login Number: 176940**

**List Number: 1**

**Creator: Brown, Nathan**

**List Source: Eurofins TestAmerica, Pensacola**

| Question                                                                                            | Answer | Comment                    |
|-----------------------------------------------------------------------------------------------------|--------|----------------------------|
| Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.      | N/A    |                            |
| The cooler's custody seal, if present, is intact.                                                   | True   |                            |
| Sample custody seals, if present, are intact.                                                       | N/A    |                            |
| The cooler or samples do not appear to have been compromised or tampered with.                      | True   |                            |
| Samples were received on ice.                                                                       | N/A    |                            |
| Cooler Temperature is acceptable.                                                                   | True   |                            |
| Cooler Temperature is recorded.                                                                     | True   | 22.2°C, 23.1°C, 23.4°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: 400-176940-1  
SDG Number: Gaston Ash Pond 1240

**Login Number: 176940**

**List Number: 2**

**Creator: Hellm, Michael**

**List Source: Eurofins TestAmerica, St. Louis**

**List Creation: 09/27/19 03:25 PM**

| Question                                                                                            | Answer | Comment |
|-----------------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is <math>\leq</math> 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 Gaston

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

## 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 Gaston

Job ID: 400-176940-1  
 SDG: Gaston Ash Pond 1240

## 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               | 10-31-20        |
| Kansas                   | NELAP                                   | E-10236               | 10-31-20        |
| 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                   | 12-01-19        |
| West Virginia DEP        | State Program                           | 381                   | 12-31-19        |

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***



## **E.C. Gaston Ash Pond**

### **2019 Compliance Event 2 Resample (MW-29H)**

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:

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

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

# *Analytical Report*



**Sample Group :** WMWGASAP\_1243

**Project/Site :** Gaston Ash Pond  
Wilsonville, AL 35186

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

**Attention :** Dustin Brooks, Greg Dyer, & Lauren Parker

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

October 31, 2019

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on September 27, 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: 2019.10.31 10:25:20 -05'00'

Supervision: **T. Durant Maske**  
Digitally signed by T. Durant Maske  
DN: cn=T. Durant Maske, c=Alabama  
Power Company, ou=Environmental  
Affairs, email=tdmaske@southernco.com,  
c=US  
Date: 2019.10.31 12:32:52 -05'00'



### REPORT OF LABORATORY ANALYSIS

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



Metals ICP

Gaston Ash Pond

WMWGASAP\_1243

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> |
|------------------|-----------------|-------------------|
| AZ21979          | 656815          | WMWGASAP_1243     |
| AZ21980          | 656815          | WMWGASAP_1243     |
| AZ21981          | 656815          | WMWGASAP_1243     |
| AZ21982          | 656815          | WMWGASAP_1243     |

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> |
|------------------|----------------|------------------------|
| AZ21979          | Calcium        | 20.3                   |
| AZ21980          | Calcium        | 20.3                   |

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

Metals ICPMS

Gaston Ash Pond

WMWGASAP\_1243

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> |
|------------------|-----------------|-------------------|
| AZ21979          | 657131          | WMWGASAP_1243     |
| AZ21980          | 657131          | WMWGASAP_1243     |
| AZ21981          | 657131          | WMWGASAP_1243     |
| AZ21982          | 657131          | WMWGASAP_1243     |

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

Gaston Ash Pond

WMWGASAP\_1243

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> |
|------------------|-----------------|-------------------|
| AZ21979          | 656791          | WMWGASAP_1243     |
| AZ21980          | 656791          | WMWGASAP_1243     |
| AZ21981          | 656791          | WMWGASAP_1243     |
| AZ21982          | 656791          | WMWGASAP_1243     |

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

Gaston Ash Pond

WMWGASAP\_1243

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> |
|------------------|-----------------|-------------------|
| AZ21979          | 656964          | WMWGASAP_1243     |
| AZ21980          | 656964          | WMWGASAP_1243     |
| AZ21981          | 656964          | WMWGASAP_1243     |
| AZ21982          | 656964          | WMWGASAP_1243     |

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:
  - AZ21981
  - AZ21982

Anions

Gaston Ash Pond

WMWGASAP\_1243

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> |
|------------------|--------------------------|-------------------|
| AZ21979          | 657265, 657276, & 656754 | WMWGASAP_1243     |
| AZ21980          | 657265, 657276, & 656754 | WMWGASAP_1243     |
| AZ21981          | 657265, 657276, & 656754 | WMWGASAP_1243     |
| AZ21982          | 657265, 657276, & 656754 | WMWGASAP_1243     |

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.

## Case Narrative

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> |
|------------------|--------------------|------------------------|
| AZ21979          | Sulfate & Chloride | 40 & 2                 |
| AZ21980          | Sulfate & Chloride | 40 & 2                 |

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



# Certificate Of Analysis

Revised Copy

**Description:** Gaston Ash Pond - MW-29H

**Location Code:** WMWASAP  
**Collected:** 9/26/19 11:56  
**Customer ID:**  
**Submittal Date:** 9/27/19 08:16

**Laboratory ID Number:** AZ21979

| Name                                         | Prepared      | Analyzed            | Vio Spec | DF    | Results                             | Units | MDL    | RL     | Q  |
|----------------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|--------|--------|----|
| <b>Analytical Method: EPA 200.7</b>          |               | <b>Analyst: RDA</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |        |        |    |
| * Boron, Total                               | 10/1/19 16:40 | 10/2/19 14:12       |          | 1.015 | 1.22                                | mg/L  | 0.03   | 0.1    |    |
| * Calcium, Total                             | 10/1/19 16:40 | 10/2/19 16:02       |          | 20.3  | 45.4                                | mg/L  | 2.03   | 10.15  |    |
| * Lithium, Total                             | 10/1/19 16:40 | 10/2/19 14:12       |          | 1.015 | 0.302                               | mg/L  | 0.01   | 0.02   |    |
| <b>Analytical Method: EPA 200.8</b>          |               | <b>Analyst: DLJ</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |        |        |    |
| * Antimony, Total                            | 9/27/19 11:56 | 9/27/19 16:09       |          | 1.015 | Not Detected                        | mg/L  | 0.0008 | 0.003  | U  |
| * Arsenic, Total                             | 9/27/19 11:56 | 9/27/19 16:09       |          | 1.015 | 0.00225                             | mg/L  | 0.001  | 0.005  | J  |
| * Barium, Total                              | 9/27/19 11:56 | 9/27/19 16:09       |          | 1.015 | 0.0574                              | mg/L  | 0.002  | 0.01   |    |
| * Beryllium, Total                           | 9/27/19 11:56 | 9/27/19 16:09       |          | 1.015 | Not Detected                        | mg/L  | 0.0006 | 0.003  | U  |
| * Cadmium, Total                             | 9/27/19 11:56 | 9/27/19 16:09       |          | 1.015 | Not Detected                        | mg/L  | 0.0003 | 0.001  | U  |
| * Chromium, Total                            | 9/27/19 11:56 | 9/27/19 16:09       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U  |
| * Cobalt, Total                              | 9/27/19 11:56 | 9/27/19 16:09       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.005  | U  |
| * Lead, Total                                | 9/27/19 11:56 | 9/27/19 16:09       |          | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U  |
| * Molybdenum, Total                          | 9/27/19 11:56 | 9/30/19 13:18       |          | 1.015 | 0.936                               | mg/L  | 0.002  | 0.01   |    |
| * Selenium, Total                            | 9/27/19 11:56 | 9/27/19 16:09       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U  |
| * Thallium, Total                            | 9/27/19 11:56 | 9/27/19 16:09       |          | 1.015 | Not Detected                        | mg/L  | 0.0002 | 0.001  | U  |
| <b>Analytical Method: EPA 245.1</b>          |               | <b>Analyst: GAS</b> |          |       |                                     |       |        |        |    |
| * Mercury, Total by CVAA                     | 9/30/19 12:00 | 10/1/19 12:39       |          | 1     | Not Detected                        | mg/L  | 0.0003 | 0.0005 | U  |
| <b>Analytical Method: SM 2540C</b>           |               | <b>Analyst: TJW</b> |          |       |                                     |       |        |        |    |
| * Solids, Dissolved                          | 9/30/19 14:35 | 10/1/19 16:25       |          | 1     | 327                                 | mg/L  |        | 25     |    |
| <b>Analytical Method: SM4500Cl E</b>         |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |    |
| * Chloride                                   | 10/2/19 10:48 | 10/2/19 10:48       |          | 2     | 21.5                                | mg/L  | 1.00   | 2      |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |    |
| * Fluoride                                   | 10/2/19 15:16 | 10/2/19 15:16       |          | 1     | 0.0749                              | mg/L  | 0.05   | 0.1    | J  |
| <b>Analytical Method: SM4500SO4 E</b>        |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |    |
| * Sulfate                                    | 9/27/19 10:48 | 9/27/19 10:48       |          | 40    | 179                                 | mg/L  | 20.00  | 40     |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: DKG</b> |          |       |                                     |       |        |        |    |
| Conductivity                                 | 9/26/19 11:53 | 9/26/19 11:53       |          |       | 511.31                              | uS/cm |        |        | FA |
| pH                                           | 9/26/19 11:53 | 9/26/19 11:53       |          |       | 8.47                                | SU    |        |        | FA |
| Temperature                                  | 9/26/19 11:53 | 9/26/19 11:53       |          |       | 24.52                               | C     |        |        | FA |
| Turbidity                                    | 9/26/19 11:53 | 9/26/19 11:53       |          |       | 0.52                                | NTU   |        |        | FA |

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

**Comments:** Revised Copy: Revising QC Batch Summary pages for TDS recovery information. Also, updating "LCS" and "LCS Limit" columns to "Standard" and "Standard Limit". LBM 10/31/19

# Batch QC Summary

Revised Copy

**Customer Account:** WMWGASAP

**Sample Date:** 9/26/19 11:56

**Customer ID:**

**Delivery Date:** 9/27/19 08:16

**Description:** Gaston Ash Pond - MW-29H

**Laboratory ID Number:** AZ21979

| Sample  | Analysis               | Units | MB          |           | Spike | MS      | MSD     | Standard |                  | Rec  |           | Prec   | Limit |
|---------|------------------------|-------|-------------|-----------|-------|---------|---------|----------|------------------|------|-----------|--------|-------|
|         |                        |       | MB          | Limit     |       |         |         | Standard | Limit            | Rec  | Limit     |        |       |
| AZ21982 | Lithium, Total         | mg/L  | 0.0000718   | 0.0154    | 0.20  | 0.194   | 0.203   | 0.202    | 0.17 to 0.23     | 97.2 | 70 to 130 | 4.20   | 20    |
| AZ21982 | Cadmium, Total         | mg/L  | 0.00000266  | 0.0001474 | 0.10  | 0.102   | 0.102   | 0.104    | 0.085 to 0.115   | 102  | 70 to 130 | 0.377  | 20    |
| AZ21982 | Chromium, Total        | mg/L  | -0.0000257  | 0.00044   | 0.10  | 0.102   | 0.0996  | 0.100    | 0.085 to 0.115   | 102  | 70 to 130 | 2.72   | 20    |
| AZ21982 | Thallium, Total        | mg/L  | -0.0000633  | 0.0001474 | 0.10  | 0.101   | 0.103   | 0.103    | 0.085 to 0.115   | 101  | 70 to 130 | 1.88   | 20    |
| AZ21982 | Mercury, Total by CVAA | mg/L  | 0.0000269   | 0.0005    | 0.004 | 0.00419 | 0.00418 | 0.00409  | 0.0034 to 0.0046 | 105  | 70 to 130 | 0.416  | 20    |
| AZ21982 | Selenium, Total        | mg/L  | 0.0000846   | 0.00066   | 0.10  | 0.101   | 0.101   | 0.0999   | 0.085 to 0.115   | 101  | 70 to 130 | 0.0921 | 20    |
| AZ21982 | Boron, Total           | mg/L  | 0.00206     | 0.0650254 | 1.00  | 1.01    | 1.02    | 1.02     | 0.85 to 1.15     | 101  | 70 to 130 | 0.610  | 20    |
| AZ21982 | Lead, Total            | mg/L  | 0.00000069  | 0.0001474 | 0.10  | 0.101   | 0.102   | 0.101    | 0.085 to 0.115   | 101  | 70 to 130 | 1.09   | 20    |
| AZ21982 | Arsenic, Total         | mg/L  | 0.0000462   | 0.0001474 | 0.10  | 0.101   | 0.0984  | 0.0977   | 0.085 to 0.115   | 101  | 70 to 130 | 2.99   | 20    |
| AZ21982 | Barium, Total          | mg/L  | -0.00000560 | 0.0002    | 0.10  | 0.102   | 0.101   | 0.0992   | 0.085 to 0.115   | 102  | 70 to 130 | 0.964  | 20    |
| AZ21982 | Beryllium, Total       | mg/L  | 0.00000887  | 0.00088   | 0.10  | 0.0946  | 0.0925  | 0.0908   | 0.085 to 0.115   | 94.6 | 70 to 130 | 2.23   | 20    |
| AZ21982 | Calcium, Total         | mg/L  | 0.00109     | 0.1518    | 5.00  | 5.02    | 5.26    | 5.25     | 4.25 to 5.75     | 100  | 70 to 130 | 4.81   | 20    |
| AZ21982 | Antimony, Total        | mg/L  | 0.000166    | 0.00066   | 0.10  | 0.0962  | 0.0937  | 0.0952   | 0.085 to 0.115   | 96.2 | 70 to 130 | 2.63   | 20    |
| AZ21982 | Cobalt, Total          | mg/L  | -0.0000737  | 0.0001474 | 0.10  | 0.109   | 0.106   | 0.106    | 0.085 to 0.115   | 109  | 70 to 130 | 3.35   | 20    |
| AZ21982 | Molybdenum, Total      | mg/L  | 0.0000475   | 0.0001474 | 0.10  | 0.0992  | 0.0974  | 0.0979   | 0.085 to 0.115   | 99.2 | 70 to 130 | 1.80   | 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:** Revised Copy: Revising QC Batch Summary pages for TDS recovery information. Also, updating "LCS" and "LCS Limit" columns to "Standard" and "Standard Limit". LBM 10/31/19

# Batch QC Summary

Revised Copy

**Customer Account:** WMWGASAP  
**Sample Date:** 9/26/19 11:56  
**Customer ID:**  
**Delivery Date:** 9/27/19 08:16

**Description:** Gaston Ash Pond - MW-29H

**Laboratory ID Number:** AZ21979

| Sample  | Analysis          | Units | MB     | MB Limit | Spike | MS   | Sample Duplicate | Standard | Standard Limit | Rec  | Limit     | Prec | Prec Limit |
|---------|-------------------|-------|--------|----------|-------|------|------------------|----------|----------------|------|-----------|------|------------|
| AZ21982 | Sulfate           | mg/L  | -0.556 | 0.50     | 20.0  | 18.3 | -0.514           | 18.6     | 18 to 22       | 91.5 | 80 to 120 | 0.00 | 20         |
| AZ21982 | Fluoride          | mg/L  | 0.0369 | 0.05     | 2.50  | 2.50 | 0.0311           | 2.56     | 2.25 to 2.75   | 100  | 80 to 120 | 0.00 | 20         |
| AZ21979 | Solids, Dissolved | mg/L  | 2.00   | 25       |       |      | 327              | 53.0     | 40 to 60       |      |           | 0.00 | 5          |
| AZ21982 | Chloride          | mg/L  | 0.0239 | 0.50     | 10.0  | 9.94 | 0.133            | 9.99     | 9 to 11        | 99.4 | 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:** Revised Copy: Revising QC Batch Summary pages for TDS recovery information. Also, updating "LCS" and "LCS Limit" columns to "Standard" and "Standard Limit". LBM 10/31/19

# Certificate Of Analysis

Revised Copy

**Description:** Gaston Ash Pond - MW-29H DUP

**Location Code:** WMWGASAP  
**Collected:** 9/26/19 11:56  
**Customer ID:**  
**Submittal Date:** 9/27/19 08:16

**Laboratory ID Number:** AZ21980

| Name                                         | Prepared      | Analyzed      | Vio Spec            | DF    | Results                             | Units | MDL    | RL     | Q  |
|----------------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-------|--------|--------|----|
| <b>Analytical Method: EPA 200.7</b>          |               |               | <b>Analyst: RDA</b> |       | <b>Preparation Method: EPA 1638</b> |       |        |        |    |
| * Boron, Total                               | 10/1/19 16:40 | 10/2/19 14:15 |                     | 1.015 | 1.23                                | mg/L  | 0.03   | 0.1    |    |
| * Calcium, Total                             | 10/1/19 16:40 | 10/2/19 16:05 |                     | 20.3  | 45.7                                | mg/L  | 2.03   | 10.15  |    |
| * Lithium, Total                             | 10/1/19 16:40 | 10/2/19 14:15 |                     | 1.015 | 0.302                               | mg/L  | 0.01   | 0.02   |    |
| <b>Analytical Method: EPA 200.8</b>          |               |               | <b>Analyst: DLJ</b> |       | <b>Preparation Method: EPA 1638</b> |       |        |        |    |
| * Antimony, Total                            | 9/27/19 11:56 | 9/27/19 16:12 |                     | 1.015 | Not Detected                        | mg/L  | 0.0008 | 0.003  | U  |
| * Arsenic, Total                             | 9/27/19 11:56 | 9/27/19 16:12 |                     | 1.015 | 0.00215                             | mg/L  | 0.001  | 0.005  | J  |
| * Barium, Total                              | 9/27/19 11:56 | 9/27/19 16:12 |                     | 1.015 | 0.0548                              | mg/L  | 0.002  | 0.01   |    |
| * Beryllium, Total                           | 9/27/19 11:56 | 9/27/19 16:12 |                     | 1.015 | Not Detected                        | mg/L  | 0.0006 | 0.003  | U  |
| * Cadmium, Total                             | 9/27/19 11:56 | 9/27/19 16:12 |                     | 1.015 | Not Detected                        | mg/L  | 0.0003 | 0.001  | U  |
| * Chromium, Total                            | 9/27/19 11:56 | 9/27/19 16:12 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U  |
| * Cobalt, Total                              | 9/27/19 11:56 | 9/27/19 16:12 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.005  | U  |
| * Lead, Total                                | 9/27/19 11:56 | 9/27/19 16:12 |                     | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U  |
| * Molybdenum, Total                          | 9/27/19 11:56 | 9/30/19 13:21 |                     | 1.015 | 0.971                               | mg/L  | 0.002  | 0.01   |    |
| * Selenium, Total                            | 9/27/19 11:56 | 9/27/19 16:12 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U  |
| * Thallium, Total                            | 9/27/19 11:56 | 9/27/19 16:12 |                     | 1.015 | Not Detected                        | mg/L  | 0.0002 | 0.001  | U  |
| <b>Analytical Method: EPA 245.1</b>          |               |               | <b>Analyst: GAS</b> |       |                                     |       |        |        |    |
| * Mercury, Total by CVAA                     | 9/30/19 12:00 | 10/1/19 12:42 |                     | 1     | Not Detected                        | mg/L  | 0.0003 | 0.0005 | U  |
| <b>Analytical Method: SM 2540C</b>           |               |               | <b>Analyst: TJW</b> |       |                                     |       |        |        |    |
| * Solids, Dissolved                          | 9/30/19 14:35 | 10/1/19 16:25 |                     | 1     | 327                                 | mg/L  |        | 25     |    |
| <b>Analytical Method: SM4500Cl E</b>         |               |               | <b>Analyst: JCC</b> |       |                                     |       |        |        |    |
| * Chloride                                   | 10/2/19 10:49 | 10/2/19 10:49 |                     | 2     | 21.4                                | mg/L  | 1.00   | 2      |    |
| <b>Analytical Method: SM4500F G 2017</b>     |               |               | <b>Analyst: JCC</b> |       |                                     |       |        |        |    |
| * Fluoride                                   | 10/2/19 15:17 | 10/2/19 15:17 |                     | 1     | 0.0765                              | mg/L  | 0.05   | 0.1    | J  |
| <b>Analytical Method: SM4500SO4 E</b>        |               |               | <b>Analyst: JCC</b> |       |                                     |       |        |        |    |
| * Sulfate                                    | 9/27/19 10:49 | 9/27/19 10:49 |                     | 40    | 185                                 | mg/L  | 20.00  | 40     |    |
| <b>Analytical Method: Field Measurements</b> |               |               | <b>Analyst: DKG</b> |       |                                     |       |        |        |    |
| Conductivity                                 | 9/26/19 11:53 | 9/26/19 11:53 |                     |       | 511.31                              | uS/cm |        |        | FA |
| pH                                           | 9/26/19 11:53 | 9/26/19 11:53 |                     |       | 8.47                                | SU    |        |        | FA |
| Temperature                                  | 9/26/19 11:53 | 9/26/19 11:53 |                     |       | 24.52                               | C     |        |        | FA |
| Turbidity                                    | 9/26/19 11:53 | 9/26/19 11:53 |                     |       | 0.52                                | NTU   |        |        | FA |

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

**Comments:** Revised Copy: Revising QC Batch Summary pages for TDS recovery information. Also, updating "LCS" and "LCS Limit" columns to "Standard" and "Standard Limit". LBM 10/31/19

# Batch QC Summary

Revised Copy

**Customer Account:** WMWGASAP  
**Sample Date:** 9/26/19 11:56  
**Customer ID:**  
**Delivery Date:** 9/27/19 08:16

**Description:** Gaston Ash Pond - MW-29H DUP

**Laboratory ID Number:** AZ21980

| Sample  | Analysis               | Units | MB          |           | MS    | MSD     | Standard | Standard Limit | Rec              |       | Prec Limit |        |    |
|---------|------------------------|-------|-------------|-----------|-------|---------|----------|----------------|------------------|-------|------------|--------|----|
|         |                        |       | MB          | Limit     |       |         |          |                | Rec              | Limit |            |        |    |
| AZ21982 | Lithium, Total         | mg/L  | 0.0000718   | 0.0154    | 0.20  | 0.194   | 0.203    | 0.202          | 0.17 to 0.23     | 97.2  | 70 to 130  | 4.20   | 20 |
| AZ21982 | Boron, Total           | mg/L  | 0.00206     | 0.0650254 | 1.00  | 1.01    | 1.02     | 1.02           | 0.85 to 1.15     | 101   | 70 to 130  | 0.610  | 20 |
| AZ21982 | Lead, Total            | mg/L  | 0.00000069  | 0.0001474 | 0.10  | 0.101   | 0.102    | 0.101          | 0.085 to 0.115   | 101   | 70 to 130  | 1.09   | 20 |
| AZ21982 | Cobalt, Total          | mg/L  | -0.0000737  | 0.0001474 | 0.10  | 0.109   | 0.106    | 0.106          | 0.085 to 0.115   | 109   | 70 to 130  | 3.35   | 20 |
| AZ21982 | Molybdenum, Total      | mg/L  | 0.0000475   | 0.0001474 | 0.10  | 0.0992  | 0.0974   | 0.0979         | 0.085 to 0.115   | 99.2  | 70 to 130  | 1.80   | 20 |
| AZ21982 | Cadmium, Total         | mg/L  | 0.00000266  | 0.0001474 | 0.10  | 0.102   | 0.102    | 0.104          | 0.085 to 0.115   | 102   | 70 to 130  | 0.377  | 20 |
| AZ21982 | Chromium, Total        | mg/L  | -0.0000257  | 0.00044   | 0.10  | 0.102   | 0.0996   | 0.100          | 0.085 to 0.115   | 102   | 70 to 130  | 2.72   | 20 |
| AZ21982 | Thallium, Total        | mg/L  | -0.0000633  | 0.0001474 | 0.10  | 0.101   | 0.103    | 0.103          | 0.085 to 0.115   | 101   | 70 to 130  | 1.88   | 20 |
| AZ21982 | Mercury, Total by CVAA | mg/L  | 0.0000269   | 0.0005    | 0.004 | 0.00419 | 0.00418  | 0.00409        | 0.0034 to 0.0046 | 105   | 70 to 130  | 0.416  | 20 |
| AZ21982 | Selenium, Total        | mg/L  | 0.0000846   | 0.00066   | 0.10  | 0.101   | 0.101    | 0.0999         | 0.085 to 0.115   | 101   | 70 to 130  | 0.0921 | 20 |
| AZ21982 | Beryllium, Total       | mg/L  | 0.00000887  | 0.00088   | 0.10  | 0.0946  | 0.0925   | 0.0908         | 0.085 to 0.115   | 94.6  | 70 to 130  | 2.23   | 20 |
| AZ21982 | Calcium, Total         | mg/L  | 0.00109     | 0.1518    | 5.00  | 5.02    | 5.26     | 5.25           | 4.25 to 5.75     | 100   | 70 to 130  | 4.81   | 20 |
| AZ21982 | Antimony, Total        | mg/L  | 0.000166    | 0.00066   | 0.10  | 0.0962  | 0.0937   | 0.0952         | 0.085 to 0.115   | 96.2  | 70 to 130  | 2.63   | 20 |
| AZ21982 | Arsenic, Total         | mg/L  | 0.0000462   | 0.0001474 | 0.10  | 0.101   | 0.0984   | 0.0977         | 0.085 to 0.115   | 101   | 70 to 130  | 2.99   | 20 |
| AZ21982 | Barium, Total          | mg/L  | -0.00000560 | 0.0002    | 0.10  | 0.102   | 0.101    | 0.0992         | 0.085 to 0.115   | 102   | 70 to 130  | 0.964  | 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:** Revised Copy: Revising QC Batch Summary pages for TDS recovery information. Also, updating "LCS" and "LCS Limit" columns to "Standard" and "Standard Limit". LBM 10/31/19

# Batch QC Summary

Revised Copy

**Customer Account:** WMWGASAP  
**Sample Date:** 9/26/19 11:56  
**Customer ID:**  
**Delivery Date:** 9/27/19 08:16

**Description:** Gaston Ash Pond - MW-29H DUP

**Laboratory ID Number:** AZ21980

| Sample  | Analysis          | Units | MB     | MB Limit | Spike | MS   | Sample Duplicate | Standard | Standard Limit | Rec  | Limit     | Prec | Limit |
|---------|-------------------|-------|--------|----------|-------|------|------------------|----------|----------------|------|-----------|------|-------|
| AZ21982 | Fluoride          | mg/L  | 0.0369 | 0.05     | 2.50  | 2.50 | 0.0311           | 2.56     | 2.25 to 2.75   | 100  | 80 to 120 | 0.00 | 20    |
| AZ21982 | Sulfate           | mg/L  | -0.556 | 0.50     | 20.0  | 18.3 | -0.514           | 18.6     | 18 to 22       | 91.5 | 80 to 120 | 0.00 | 20    |
| AZ21979 | Solids, Dissolved | mg/L  | 2.00   | 25       |       |      | 327              | 53.0     | 40 to 60       |      |           | 0.00 | 5     |
| AZ21982 | Chloride          | mg/L  | 0.0239 | 0.50     | 10.0  | 9.94 | 0.133            | 9.99     | 9 to 11        | 99.4 | 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:** Revised Copy: Revising QC Batch Summary pages for TDS recovery information. Also, updating "LCS" and "LCS Limit" columns to "Standard" and "Standard Limit". LBM 10/31/19

# Certificate Of Analysis

Revised Copy

**Description:** Gaston Ash Pond Field Blank

**Location Code:** WMWASAPFB  
**Collected:** 9/26/19 12:35  
**Customer ID:**  
**Submittal Date:** 9/27/19 08:16

**Laboratory ID Number:** AZ21981

| Name                                     | Prepared      | Analyzed            | Vio Spec | DF    | Results                             | Units | MDL    | RL     | Q |
|------------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|--------|--------|---|
| <b>Analytical Method: EPA 200.7</b>      |               | <b>Analyst: RDA</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Boron, Total                           | 10/1/19 16:40 | 10/2/19 14:18       |          | 1.015 | Not Detected                        | mg/L  | 0.03   | 0.1    | U |
| * Calcium, Total                         | 10/1/19 16:40 | 10/2/19 14:18       |          | 1.015 | Not Detected                        | mg/L  | 0.1    | 0.5    | U |
| * Lithium, Total                         | 10/1/19 16:40 | 10/2/19 14:18       |          | 1.015 | Not Detected                        | mg/L  | 0.01   | 0.02   | U |
| <b>Analytical Method: EPA 200.8</b>      |               | <b>Analyst: DLJ</b> |          |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Antimony, Total                        | 9/27/19 11:56 | 9/27/19 16:14       |          | 1.015 | Not Detected                        | mg/L  | 0.0008 | 0.003  | U |
| * Arsenic, Total                         | 9/27/19 11:56 | 9/27/19 16:14       |          | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U |
| * Barium, Total                          | 9/27/19 11:56 | 9/27/19 16:14       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Beryllium, Total                       | 9/27/19 11:56 | 9/27/19 16:14       |          | 1.015 | Not Detected                        | mg/L  | 0.0006 | 0.003  | U |
| * Cadmium, Total                         | 9/27/19 11:56 | 9/27/19 16:14       |          | 1.015 | Not Detected                        | mg/L  | 0.0003 | 0.001  | U |
| * Chromium, Total                        | 9/27/19 11:56 | 9/27/19 16:14       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Cobalt, Total                          | 9/27/19 11:56 | 9/27/19 16:14       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.005  | U |
| * Lead, Total                            | 9/27/19 11:56 | 9/27/19 16:14       |          | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U |
| * Molybdenum, Total                      | 9/27/19 11:56 | 9/27/19 16:14       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Selenium, Total                        | 9/27/19 11:56 | 9/27/19 16:14       |          | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Thallium, Total                        | 9/27/19 11:56 | 9/27/19 16:14       |          | 1.015 | Not Detected                        | mg/L  | 0.0002 | 0.001  | U |
| <b>Analytical Method: EPA 245.1</b>      |               | <b>Analyst: GAS</b> |          |       |                                     |       |        |        |   |
| * Mercury, Total by CVAA                 | 9/30/19 12:00 | 10/1/19 12:44       |          | 1     | Not Detected                        | mg/L  | 0.0003 | 0.0005 | U |
| <b>Analytical Method: SM 2540C</b>       |               | <b>Analyst: TJW</b> |          |       |                                     |       |        |        |   |
| * Solids, Dissolved                      | 9/30/19 14:35 | 10/1/19 16:25       |          | 1     | Not Detected                        | mg/L  |        | 25     | U |
| <b>Analytical Method: SM4500Cl E</b>     |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |   |
| * Chloride                               | 10/2/19 10:50 | 10/2/19 10:50       |          | 1     | Not Detected                        | mg/L  | 0.50   | 1      | U |
| <b>Analytical Method: SM4500F G 2017</b> |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |   |
| * Fluoride                               | 10/2/19 15:18 | 10/2/19 15:18       |          | 1     | Not Detected                        | mg/L  | 0.05   | 0.1    | U |
| <b>Analytical Method: SM4500SO4 E</b>    |               | <b>Analyst: JCC</b> |          |       |                                     |       |        |        |   |
| * Sulfate                                | 9/27/19 10:51 | 9/27/19 10:51       |          | 1     | Not Detected                        | mg/L  | 0.50   | 1      | U |

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

**Comments:** Revised Copy: Revising QC Batch Summary pages for TDS recovery information. Also, updating "LCS" and "LCS Limit" columns to "Standard" and "Standard Limit". LBM 10/31/19

# Batch QC Summary

Revised Copy

**Customer Account:** WMWGASAPFB  
**Sample Date:** 9/26/19 12:35  
**Customer ID:**  
**Delivery Date:** 9/27/19 08:16

**Description:** Gaston Ash Pond Field Blank

**Laboratory ID Number:** AZ21981

| Sample  | Analysis               | Units | MB          |           | Spike | MS      | MSD     | Standard |                  | Rec  |           | Prec   | Limit |
|---------|------------------------|-------|-------------|-----------|-------|---------|---------|----------|------------------|------|-----------|--------|-------|
|         |                        |       | MB          | Limit     |       |         |         | Standard | Limit            | Rec  | Limit     |        |       |
| AZ21982 | Lithium, Total         | mg/L  | 0.0000718   | 0.0154    | 0.20  | 0.194   | 0.203   | 0.202    | 0.17 to 0.23     | 97.2 | 70 to 130 | 4.20   | 20    |
| AZ21982 | Boron, Total           | mg/L  | 0.00206     | 0.0650254 | 1.00  | 1.01    | 1.02    | 1.02     | 0.85 to 1.15     | 101  | 70 to 130 | 0.610  | 20    |
| AZ21982 | Lead, Total            | mg/L  | 0.00000069  | 0.0001474 | 0.10  | 0.101   | 0.102   | 0.101    | 0.085 to 0.115   | 101  | 70 to 130 | 1.09   | 20    |
| AZ21982 | Mercury, Total by CVAA | mg/L  | 0.0000269   | 0.0005    | 0.004 | 0.00419 | 0.00418 | 0.00409  | 0.0034 to 0.0046 | 105  | 70 to 130 | 0.416  | 20    |
| AZ21982 | Selenium, Total        | mg/L  | 0.0000846   | 0.00066   | 0.10  | 0.101   | 0.101   | 0.0999   | 0.085 to 0.115   | 101  | 70 to 130 | 0.0921 | 20    |
| AZ21982 | Cobalt, Total          | mg/L  | -0.0000737  | 0.0001474 | 0.10  | 0.109   | 0.106   | 0.106    | 0.085 to 0.115   | 109  | 70 to 130 | 3.35   | 20    |
| AZ21982 | Molybdenum, Total      | mg/L  | 0.0000475   | 0.0001474 | 0.10  | 0.0992  | 0.0974  | 0.0979   | 0.085 to 0.115   | 99.2 | 70 to 130 | 1.80   | 20    |
| AZ21982 | Cadmium, Total         | mg/L  | 0.00000266  | 0.0001474 | 0.10  | 0.102   | 0.102   | 0.104    | 0.085 to 0.115   | 102  | 70 to 130 | 0.377  | 20    |
| AZ21982 | Chromium, Total        | mg/L  | -0.0000257  | 0.00044   | 0.10  | 0.102   | 0.0996  | 0.100    | 0.085 to 0.115   | 102  | 70 to 130 | 2.72   | 20    |
| AZ21982 | Thallium, Total        | mg/L  | -0.0000633  | 0.0001474 | 0.10  | 0.101   | 0.103   | 0.103    | 0.085 to 0.115   | 101  | 70 to 130 | 1.88   | 20    |
| AZ21982 | Arsenic, Total         | mg/L  | 0.0000462   | 0.0001474 | 0.10  | 0.101   | 0.0984  | 0.0977   | 0.085 to 0.115   | 101  | 70 to 130 | 2.99   | 20    |
| AZ21982 | Barium, Total          | mg/L  | -0.00000560 | 0.0002    | 0.10  | 0.102   | 0.101   | 0.0992   | 0.085 to 0.115   | 102  | 70 to 130 | 0.964  | 20    |
| AZ21982 | Beryllium, Total       | mg/L  | 0.00000887  | 0.00088   | 0.10  | 0.0946  | 0.0925  | 0.0908   | 0.085 to 0.115   | 94.6 | 70 to 130 | 2.23   | 20    |
| AZ21982 | Calcium, Total         | mg/L  | 0.00109     | 0.1518    | 5.00  | 5.02    | 5.26    | 5.25     | 4.25 to 5.75     | 100  | 70 to 130 | 4.81   | 20    |
| AZ21982 | Antimony, Total        | mg/L  | 0.000166    | 0.00066   | 0.10  | 0.0962  | 0.0937  | 0.0952   | 0.085 to 0.115   | 96.2 | 70 to 130 | 2.63   | 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:** Revised Copy: Revising QC Batch Summary pages for TDS recovery information. Also, updating "LCS" and "LCS Limit" columns to "Standard" and "Standard Limit". LBM 10/31/19



# Batch QC Summary

Revised Copy

**Customer Account:** WMWGASAPFB  
**Sample Date:** 9/26/19 12:35  
**Customer ID:**  
**Delivery Date:** 9/27/19 08:16

**Description:** Gaston Ash Pond Field Blank

**Laboratory ID Number:** AZ21981

| Sample  | Analysis          | Units | MB     | MB Limit | Spike | MS   | Sample Duplicate | Standard | Standard Limit | Rec  | Rec Limit | Prec | Prec Limit |
|---------|-------------------|-------|--------|----------|-------|------|------------------|----------|----------------|------|-----------|------|------------|
| AZ21982 | Fluoride          | mg/L  | 0.0369 | 0.05     | 2.50  | 2.50 | 0.0311           | 2.56     | 2.25 to 2.75   | 100  | 80 to 120 | 0.00 | 20         |
| AZ21982 | Sulfate           | mg/L  | -0.556 | 0.50     | 20.0  | 18.3 | -0.514           | 18.6     | 18 to 22       | 91.5 | 80 to 120 | 0.00 | 20         |
| AZ21979 | Solids, Dissolved | mg/L  | 2.00   | 25       |       |      | 327              | 53.0     | 40 to 60       |      |           | 0.00 | 5          |
| AZ21982 | Chloride          | mg/L  | 0.0239 | 0.50     | 10.0  | 9.94 | 0.133            | 9.99     | 9 to 11        | 99.4 | 80 to 120 | 0.00 | 20         |

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## Revised Copy

**Description:** Gaston Ash Pond Equipment Blank

**Location Code:** WMWGASAPEB  
**Collected:** 9/26/19 12:45  
**Customer ID:**  
**Submittal Date:** 9/27/19 08:16

**Laboratory ID Number:** AZ21982

| Name                                     | Prepared      | Analyzed      | Vio Spec            | DF    | Results                             | Units | MDL    | RL     | Q |
|------------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-------|--------|--------|---|
| <b>Analytical Method: EPA 200.7</b>      |               |               | <b>Analyst: RDA</b> |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Boron, Total                           | 10/1/19 16:40 | 10/2/19 14:21 |                     | 1.015 | Not Detected                        | mg/L  | 0.03   | 0.1    | U |
| * Calcium, Total                         | 10/1/19 16:40 | 10/2/19 14:21 |                     | 1.015 | Not Detected                        | mg/L  | 0.1    | 0.5    | U |
| * Lithium, Total                         | 10/1/19 16:40 | 10/2/19 14:21 |                     | 1.015 | Not Detected                        | mg/L  | 0.01   | 0.02   | U |
| <b>Analytical Method: EPA 200.8</b>      |               |               | <b>Analyst: DLJ</b> |       | <b>Preparation Method: EPA 1638</b> |       |        |        |   |
| * Antimony, Total                        | 9/27/19 11:56 | 9/27/19 16:17 |                     | 1.015 | Not Detected                        | mg/L  | 0.0008 | 0.003  | U |
| * Arsenic, Total                         | 9/27/19 11:56 | 9/27/19 16:17 |                     | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U |
| * Barium, Total                          | 9/27/19 11:56 | 9/27/19 16:17 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Beryllium, Total                       | 9/27/19 11:56 | 9/27/19 16:17 |                     | 1.015 | Not Detected                        | mg/L  | 0.0006 | 0.003  | U |
| * Cadmium, Total                         | 9/27/19 11:56 | 9/27/19 16:17 |                     | 1.015 | Not Detected                        | mg/L  | 0.0003 | 0.001  | U |
| * Chromium, Total                        | 9/27/19 11:56 | 9/27/19 16:17 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Cobalt, Total                          | 9/27/19 11:56 | 9/27/19 16:17 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.005  | U |
| * Lead, Total                            | 9/27/19 11:56 | 9/27/19 16:17 |                     | 1.015 | Not Detected                        | mg/L  | 0.001  | 0.005  | U |
| * Molybdenum, Total                      | 9/27/19 11:56 | 9/27/19 16:17 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Selenium, Total                        | 9/27/19 11:56 | 9/27/19 16:17 |                     | 1.015 | Not Detected                        | mg/L  | 0.002  | 0.01   | U |
| * Thallium, Total                        | 9/27/19 11:56 | 9/27/19 16:17 |                     | 1.015 | Not Detected                        | mg/L  | 0.0002 | 0.001  | U |
| <b>Analytical Method: EPA 245.1</b>      |               |               | <b>Analyst: GAS</b> |       |                                     |       |        |        |   |
| * Mercury, Total by CVAA                 | 9/30/19 12:00 | 10/1/19 12:46 |                     | 1     | Not Detected                        | mg/L  | 0.0003 | 0.0005 | U |
| <b>Analytical Method: SM 2540C</b>       |               |               | <b>Analyst: TJW</b> |       |                                     |       |        |        |   |
| * Solids, Dissolved                      | 9/30/19 14:35 | 10/1/19 16:25 |                     | 1     | Not Detected                        | mg/L  |        | 25     | U |
| <b>Analytical Method: SM4500CI E</b>     |               |               | <b>Analyst: JCC</b> |       |                                     |       |        |        |   |
| * Chloride                               | 10/2/19 10:51 | 10/2/19 10:51 |                     | 1     | Not Detected                        | mg/L  | 0.50   | 1      | U |
| <b>Analytical Method: SM4500F G 2017</b> |               |               | <b>Analyst: JCC</b> |       |                                     |       |        |        |   |
| * Fluoride                               | 10/2/19 15:19 | 10/2/19 15:19 |                     | 1     | Not Detected                        | mg/L  | 0.05   | 0.1    | U |
| <b>Analytical Method: SM4500SO4 E</b>    |               |               | <b>Analyst: JCC</b> |       |                                     |       |        |        |   |
| * Sulfate                                | 9/27/19 10:52 | 9/27/19 10:52 |                     | 1     | Not Detected                        | mg/L  | 0.50   | 1      | U |

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

**Comments:** Revised Copy: Revising QC Batch Summary pages for TDS recovery information. Also, updating "LCS" and "LCS Limit" columns to "Standard" and "Standard Limit". LBM 10/31/19

# Batch QC Summary

Revised Copy

**Customer Account:** WMWGASAPEB  
**Sample Date:** 9/26/19 12:45  
**Customer ID:**  
**Delivery Date:** 9/27/19 08:16

**Description:** Gaston Ash Pond Equipment Blank

**Laboratory ID Number:** AZ21982

| Sample  | Analysis               | Units | MB          |           | Spike | MS      | MSD     | Standard |                  | Rec  |           | Prec   | Limit |
|---------|------------------------|-------|-------------|-----------|-------|---------|---------|----------|------------------|------|-----------|--------|-------|
|         |                        |       | MB          | Limit     |       |         |         | Standard | Limit            | Rec  | Limit     |        |       |
| AZ21982 | Lithium, Total         | mg/L  | 0.0000718   | 0.0154    | 0.20  | 0.194   | 0.203   | 0.202    | 0.17 to 0.23     | 97.2 | 70 to 130 | 4.20   | 20    |
| AZ21982 | Boron, Total           | mg/L  | 0.00206     | 0.0650254 | 1.00  | 1.01    | 1.02    | 1.02     | 0.85 to 1.15     | 101  | 70 to 130 | 0.610  | 20    |
| AZ21982 | Lead, Total            | mg/L  | 0.00000069  | 0.0001474 | 0.10  | 0.101   | 0.102   | 0.101    | 0.085 to 0.115   | 101  | 70 to 130 | 1.09   | 20    |
| AZ21982 | Mercury, Total by CVAA | mg/L  | 0.0000269   | 0.0005    | 0.004 | 0.00419 | 0.00418 | 0.00409  | 0.0034 to 0.0046 | 105  | 70 to 130 | 0.416  | 20    |
| AZ21982 | Selenium, Total        | mg/L  | 0.0000846   | 0.00066   | 0.10  | 0.101   | 0.101   | 0.0999   | 0.085 to 0.115   | 101  | 70 to 130 | 0.0921 | 20    |
| AZ21982 | Arsenic, Total         | mg/L  | 0.0000462   | 0.0001474 | 0.10  | 0.101   | 0.0984  | 0.0977   | 0.085 to 0.115   | 101  | 70 to 130 | 2.99   | 20    |
| AZ21982 | Barium, Total          | mg/L  | -0.00000560 | 0.0002    | 0.10  | 0.102   | 0.101   | 0.0992   | 0.085 to 0.115   | 102  | 70 to 130 | 0.964  | 20    |
| AZ21982 | Beryllium, Total       | mg/L  | 0.00000887  | 0.00088   | 0.10  | 0.0946  | 0.0925  | 0.0908   | 0.085 to 0.115   | 94.6 | 70 to 130 | 2.23   | 20    |
| AZ21982 | Calcium, Total         | mg/L  | 0.00109     | 0.1518    | 5.00  | 5.02    | 5.26    | 5.25     | 4.25 to 5.75     | 100  | 70 to 130 | 4.81   | 20    |
| AZ21982 | Antimony, Total        | mg/L  | 0.000166    | 0.00066   | 0.10  | 0.0962  | 0.0937  | 0.0952   | 0.085 to 0.115   | 96.2 | 70 to 130 | 2.63   | 20    |
| AZ21982 | Cadmium, Total         | mg/L  | 0.00000266  | 0.0001474 | 0.10  | 0.102   | 0.102   | 0.104    | 0.085 to 0.115   | 102  | 70 to 130 | 0.377  | 20    |
| AZ21982 | Chromium, Total        | mg/L  | -0.0000257  | 0.00044   | 0.10  | 0.102   | 0.0996  | 0.100    | 0.085 to 0.115   | 102  | 70 to 130 | 2.72   | 20    |
| AZ21982 | Thallium, Total        | mg/L  | -0.0000633  | 0.0001474 | 0.10  | 0.101   | 0.103   | 0.103    | 0.085 to 0.115   | 101  | 70 to 130 | 1.88   | 20    |
| AZ21982 | Cobalt, Total          | mg/L  | -0.0000737  | 0.0001474 | 0.10  | 0.109   | 0.106   | 0.106    | 0.085 to 0.115   | 109  | 70 to 130 | 3.35   | 20    |
| AZ21982 | Molybdenum, Total      | mg/L  | 0.0000475   | 0.0001474 | 0.10  | 0.0992  | 0.0974  | 0.0979   | 0.085 to 0.115   | 99.2 | 70 to 130 | 1.80   | 20    |

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 Expiration: June 30, 2018

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# Batch QC Summary

Revised Copy

**Customer Account:** WMWGASAPEB

**Sample Date:** 9/26/19 12:45

**Customer ID:**

**Delivery Date:** 9/27/19 08:16

**Description:** Gaston Ash Pond Equipment Blank

**Laboratory ID Number:** AZ21982

| Sample  | Analysis          | Units | MB     | MB Limit | Spike | MS   | Sample Duplicate | Standard | Standard Limit | Rec  | Rec Limit | Prec | Prec Limit |
|---------|-------------------|-------|--------|----------|-------|------|------------------|----------|----------------|------|-----------|------|------------|
| AZ21982 | Fluoride          | mg/L  | 0.0369 | 0.05     | 2.50  | 2.50 | 0.0311           | 2.56     | 2.25 to 2.75   | 100  | 80 to 120 | 0.00 | 20         |
| AZ21982 | Sulfate           | mg/L  | -0.556 | 0.50     | 20.0  | 18.3 | -0.514           | 18.6     | 18 to 22       | 91.5 | 80 to 120 | 0.00 | 20         |
| AZ21979 | Solids, Dissolved | mg/L  | 2.00   | 25       |       |      | 327              | 53.0     | 40 to 60       |      |           | 0.00 | 5          |
| AZ21982 | Chloride          | mg/L  | 0.0239 | 0.50     | 10.0  | 9.94 | 0.133            | 9.99     | 9 to 11        | 99.4 | 80 to 120 | 0.00 | 20         |

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## 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  
 Lab Complete

Outside Lab

Lab ETA

|                         |                     |               |            |                                       |                 |
|-------------------------|---------------------|---------------|------------|---------------------------------------|-----------------|
| Requested Complete Date | Routine             |               | Results To | Dustin Brooks,Greg Dyer,Lauren Parker |                 |
|                         | Site Representative |               |            | Requested By                          |                 |
|                         | Tanisha Fenderson   |               |            | Lauren Parker                         |                 |
| Collector               |                     | Dallas Gentry | Location   |                                       | Gaston 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-29H     | 9/26/19    | 11:56 | 4            | Groundwater      |            | AZ21979 |
| MW-29H dup | 09/26/2019 | 11:56 | 4            | Sample Duplicate |            | AZ21980 |
| FB-1       | 09/26/2019 | 12:35 | 4            | Field Blank      |            | AZ21981 |
| EB-1       | 09/26/2019 | 12:45 | 4            | Equipment Blank  |            | AZ21982 |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
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|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |

|                 |             |                  |
|-----------------|-------------|------------------|
| Relinquished By | Received By | Date/Time        |
|                 |             | 09/26/2019 14:44 |
|                 |             |                  |
|                 |             |                  |

|              |                |                                                                                     |                |
|--------------|----------------|-------------------------------------------------------------------------------------|----------------|
| 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 | 1243           |                                                                                     |                |
|              |                |                                                                                     |                |
|              |                | Cooler Temp                                                                         | 0.6 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, Lauren Parker |
| Site Representative     | Tanisha Fenderson | Requested By | Lauren Parker                           |
| Collector               | Dallas Gentry     | Location     | Gaston Ash Pond                         |

|         |          |     |       |     |       |     |       |     |
|---------|----------|-----|-------|-----|-------|-----|-------|-----|
| Bottles | 1 Radium | 1 L | 3 N/A | N/A | 5 N/A | N/A | 7 N/A | N/A |
|         | 2 N/A    | N/A | 4 N/A | N/A | 6 N/A | N/A | 8 N/A | N/A |

|          |                                          |
|----------|------------------------------------------|
| Comments | Correcting sample to MW-29H. LBM 9/27/19 |
|----------|------------------------------------------|

| Sample #   | Date       | Time  | Bottle Count | Description      | Lab Filter | Lab Id  |
|------------|------------|-------|--------------|------------------|------------|---------|
| MW-29H     | 9/26/19    | 11:56 | 1            | Groundwater      |            | AZ21983 |
| MW-29H dup | 09/26/2019 | 11:56 | 1            | Sample Duplicate |            | AZ21984 |
| FB-1       | 09/26/2019 | 12:35 | 1            | Field Blank      |            | AZ21985 |
| EB-1       | 09/26/2019 | 12:45 | 1            | Equipment Blank  |            | AZ21986 |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
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|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |
|            |            |       |              |                  |            |         |

|                      |                      |                  |
|----------------------|----------------------|------------------|
| Relinquished By      | Received By          | Date/Time        |
| <i>Dallas Gentry</i> | <i>Lauren Parker</i> | 09/26/2019 14:44 |
|                      |                      |                  |
|                      |                      |                  |

|                |                |                                                                                     |
|----------------|----------------|-------------------------------------------------------------------------------------|
| 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   | 1243           |                                                                                     |
| 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: 400-177223-1  
Laboratory Sample Delivery Group: Gaston Ash Pond 1243  
Client Project/Site: CCR Plant Gaston

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 12:48:45 PM

Cheyenne Whitmire, Project Manager II  
(850)471-6222  
[cheyenne.whitmire@testamericainc.com](mailto:cheyenne.whitmire@testamericainc.com)

### LINKS

Review your project  
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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 Gaston

Job ID: 400-177223-1  
SDG: Gaston Ash Pond 1243

**Job ID: 400-177223-1**

**Laboratory: Eurofins TestAmerica, Pensacola**

## Narrative

### Job Narrative 400-177223-1

#### RAD

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. AZ21983 MW-29H (400-177223-1), AZ21984 MW-29H DUP (400-177223-2), AZ21985 FB-1 (400-177223-3), AZ21986 EB-1 (400-177223-4), (LCS 160-445193/1-A), (MB 160-445193/22-A), (240-119817-I-5-A), (240-119817-B-5-A MS), (240-119817-B-5-B MSD), (400-177218-A-25-A) and (400-177218-B-25-A DU)

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. AZ21983 MW-29H (400-177223-1), AZ21984 MW-29H DUP (400-177223-2), AZ21985 FB-1 (400-177223-3), AZ21986 EB-1 (400-177223-4), (LCS 160-445201/1-A), (MB 160-445201/22-A), (240-119817-I-5-B), (240-119817-B-5-C MS), (240-119817-B-5-D MSD), (400-177218-A-25-B) and (400-177218-B-25-B DU)

Method PrecSep\_0: Radium 228 Prep Batch 160-445201. The following samples were prepared at a reduced aliquot due insufficient volume: AZ21983 MW-29H (400-177223-1), AZ21984 MW-29H DUP (400-177223-2), AZ21985 FB-1 (400-177223-3) and AZ21986 EB-1 (400-177223-4). Samples 400-177218-A-23 and 240-119817-D-1 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: AZ21983 MW-29H (400-177223-1), AZ21984 MW-29H DUP (400-177223-2), AZ21985 FB-1 (400-177223-3) and AZ21986 EB-1 (400-177223-4). 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 Gaston

Job ID: 400-177223-1  
SDG: Gaston Ash Pond 1243

| 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 Gaston

Job ID: 400-177223-1  
SDG: Gaston Ash Pond 1243

| Lab Sample ID | Client Sample ID   | Matrix | Collected      | Received       | Asset ID |
|---------------|--------------------|--------|----------------|----------------|----------|
| 400-177223-1  | AZ21983 MW-29H     | Water  | 09/26/19 11:56 | 09/30/19 13:50 |          |
| 400-177223-2  | AZ21984 MW-29H DUP | Water  | 09/26/19 11:56 | 09/30/19 13:50 |          |
| 400-177223-3  | AZ21985 FB-1       | Water  | 09/26/19 12:35 | 09/30/19 13:50 |          |
| 400-177223-4  | AZ21986 EB-1       | Water  | 09/26/19 12:45 | 09/30/19 13:50 |          |

1

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# Client Sample Results

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

Job ID: 400-177223-1  
 SDG: Gaston Ash Pond 1243

**Client Sample ID: AZ21983 MW-29H**

**Lab Sample ID: 400-177223-1**

Date Collected: 09/26/19 11:56

Matrix: Water

Date Received: 09/30/19 13:50

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

| Analyte           | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|-------------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| <b>Radium-226</b> | <b>13.9</b>   |                  | 0.848                       | 1.51                        | 1.00 | 0.233 | pCi/L | 10/04/19 14:45  | 10/28/19 08:14  | 1              |
| <b>Carrier</b>    | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier        | 80.8          |                  | 40 - 110                    |                             |      |       |       | 10/04/19 14:45  | 10/28/19 08:14  | 1              |

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

| Analyte           | Result        | Qualifier        | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|-------------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| <b>Radium-228</b> | <b>2.32</b>   |                  | 0.527                       | 0.568                       | 1.00 | 0.608 | pCi/L | 10/04/19 15:30  | 10/22/19 13:12  | 1              |
| <b>Carrier</b>    | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>               |                             |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier        | 80.8          |                  | 40 - 110                    |                             |      |       |       | 10/04/19 15:30  | 10/22/19 13:12  | 1              |
| Y Carrier         | 79.3          |                  | 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<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|-------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| <b>Combined Radium<br/>226 + 228</b> | <b>16.2</b> |           | 0.998                       | 1.61                        | 5.00 | 0.608 | pCi/L |          | 10/30/19 08:29 | 1       |

# Client Sample Results

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

Job ID: 400-177223-1  
 SDG: Gaston Ash Pond 1243

**Client Sample ID: AZ21984 MW-29H DUP**

**Lab Sample ID: 400-177223-2**

Date Collected: 09/26/19 11:56

Matrix: Water

Date Received: 09/30/19 13:50

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

| Analyte           | Result      | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|-------------------|-------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| <b>Radium-226</b> | <b>12.9</b> |           | 0.824                       | 1.42                        | 1.00 | 0.198 | pCi/L | 10/04/19 14:45 | 10/28/19 08:14 | 1       |
| Carrier           | %Yield      | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier        | 78.5        |           | 40 - 110                    |                             |      |       |       | 10/04/19 14:45 | 10/28/19 08:14 | 1       |

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

| Analyte           | Result      | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|-------------------|-------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| <b>Radium-228</b> | <b>2.45</b> |           | 0.552                       | 0.596                       | 1.00 | 0.645 | pCi/L | 10/04/19 15:30 | 10/22/19 13:12 | 1       |
| Carrier           | %Yield      | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier        | 78.5        |           | 40 - 110                    |                             |      |       |       | 10/04/19 15:30 | 10/22/19 13:12 | 1       |
| Y Carrier         | 82.2        |           | 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<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|-------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| <b>Combined Radium<br/>226 + 228</b> | <b>15.3</b> |           | 0.992                       | 1.54                        | 5.00 | 0.645 | pCi/L |          | 10/30/19 08:29 | 1       |

# Client Sample Results

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

Job ID: 400-177223-1  
 SDG: Gaston Ash Pond 1243

**Client Sample ID: AZ21985 FB-1**

**Lab Sample ID: 400-177223-3**

Date Collected: 09/26/19 12:35

Matrix: Water

Date Received: 09/30/19 13:50

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.202  | U         | 0.142                       | 0.143                       | 1.00 | 0.205 | pCi/L | 10/04/19 14:45 | 10/28/19 08:15 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 83.3   |           | 40 - 110                    |                             |      |       |       | 10/04/19 14:45 | 10/28/19 08:15 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.200  | U         | 0.368                       | 0.369                       | 1.00 | 0.625 | pCi/L | 10/04/19 15:30 | 10/22/19 13:12 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 83.3   |           | 40 - 110                    |                             |      |       |       | 10/04/19 15:30 | 10/22/19 13:12 | 1       |
| Y Carrier  | 80.7   |           | 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<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226<br>+ 228 | 0.402  | U         | 0.394                       | 0.396                       | 5.00 | 0.625 | pCi/L |          | 10/30/19 08:29 | 1       |

# Client Sample Results

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

Job ID: 400-177223-1  
 SDG: Gaston Ash Pond 1243

**Client Sample ID: AZ21986 EB-1**

**Lab Sample ID: 400-177223-4**

Date Collected: 09/26/19 12:45

Matrix: Water

Date Received: 09/30/19 13:50

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

| Analyte           | Result       | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|-------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| <b>Radium-226</b> | <b>0.587</b> |           | 0.188                       | 0.195                       | 1.00 | 0.167 | pCi/L | 10/04/19 14:45 | 10/28/19 08:15 | 1       |
| Carrier           | %Yield       | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier        | 82.8         |           | 40 - 110                    |                             |      |       |       | 10/04/19 14:45 | 10/28/19 08:15 | 1       |

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

| Analyte    | Result | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.349  | U         | 0.388                       | 0.390                       | 1.00 | 0.637 | pCi/L | 10/04/19 15:30 | 10/22/19 13:13 | 1       |
| Carrier    | %Yield | Qualifier | Limits                      |                             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 82.8   |           | 40 - 110                    |                             |      |       |       | 10/04/19 15:30 | 10/22/19 13:13 | 1       |
| Y Carrier  | 72.1   |           | 40 - 110                    |                             |      |       |       | 10/04/19 15:30 | 10/22/19 13:13 | 1       |

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                              | Result       | Qualifier | Count<br>Uncert.<br>(2σ+/-) | Total<br>Uncert.<br>(2σ+/-) | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| <b>Combined Radium<br/>226 + 228</b> | <b>0.936</b> |           | 0.431                       | 0.436                       | 5.00 | 0.637 | pCi/L |          | 10/30/19 08:29 | 1       |



# Definitions/Glossary

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

Job ID: 400-177223-1  
SDG: Gaston Ash Pond 1243

## 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 Gaston

Job ID: 400-177223-1  
SDG: Gaston Ash Pond 1243

**Client Sample ID: AZ21983 MW-29H**

**Lab Sample ID: 400-177223-1**

**Date Collected: 09/26/19 11:56**

**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               | 448328       | 10/30/19 08:29       | SMP     | TAL SL |

**Client Sample ID: AZ21984 MW-29H DUP**

**Lab Sample ID: 400-177223-2**

**Date Collected: 09/26/19 11:56**

**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               | 448328       | 10/30/19 08:29       | SMP     | TAL SL |

**Client Sample ID: AZ21985 FB-1**

**Lab Sample ID: 400-177223-3**

**Date Collected: 09/26/19 12:35**

**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   |     |                 | 445193       | 10/04/19 14:45       | ORM     | TAL SL |
| Total/NA  | Analysis   | 9315         |     | 1               | 447982       | 10/28/19 08:15       | 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               | 448328       | 10/30/19 08:29       | SMP     | TAL SL |

**Client Sample ID: AZ21986 EB-1**

**Lab Sample ID: 400-177223-4**

**Date Collected: 09/26/19 12:45**

**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 08:15       | 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 13:13       | JCB     | TAL SL |
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1               | 448328       | 10/30/19 08:29       | 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 Gaston

Job ID: 400-177223-1  
SDG: Gaston Ash Pond 1243

## Rad

### Prep Batch: 445193

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method     | Prep Batch |
|----------------------|------------------------|-----------|--------|------------|------------|
| 400-177223-1         | AZ21983 MW-29H         | Total/NA  | Water  | PrecSep-21 |            |
| 400-177223-2         | AZ21984 MW-29H DUP     | Total/NA  | Water  | PrecSep-21 |            |
| 400-177223-3         | AZ21985 FB-1           | Total/NA  | Water  | PrecSep-21 |            |
| 400-177223-4         | AZ21986 EB-1           | 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-B-25-A DU | Duplicate              | Total/NA  | Water  | PrecSep-21 |            |

### Prep Batch: 445201

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method    | Prep Batch |
|----------------------|------------------------|-----------|--------|-----------|------------|
| 400-177223-1         | AZ21983 MW-29H         | Total/NA  | Water  | PrecSep_0 |            |
| 400-177223-2         | AZ21984 MW-29H DUP     | Total/NA  | Water  | PrecSep_0 |            |
| 400-177223-3         | AZ21985 FB-1           | Total/NA  | Water  | PrecSep_0 |            |
| 400-177223-4         | AZ21986 EB-1           | 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-B-25-B DU | Duplicate              | Total/NA  | Water  | PrecSep_0 |            |

# QC Sample Results

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

Job ID: 400-177223-1  
 SDG: Gaston Ash Pond 1243

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

**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              |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b>   |                 |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     | 86.7          |                  | 40 - 110        |                 |      |       |       | 10/04/19 14:45  | 10/28/19 11:09  | 1              |

**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              | LCS           | Total           | RL   | MDC   | Unit  | %Rec | %Rec. Limits |
|----------------|---------------|------------------|---------------|-----------------|------|-------|-------|------|--------------|
|                |               | Result           | Qual          | Uncert. (2σ+/-) |      |       |       |      |              |
| Radium-226     | 11.4          | 11.65            |               | 1.25            | 1.00 | 0.190 | pCi/L | 103  | 75 - 125     |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b> |                 |      |       |       |      |              |
| 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        | Sample           | Spike         | MS     | MS   | Total           | RL   | MDC   | Unit  | %Rec | %Rec. Limits |
|----------------|---------------|------------------|---------------|--------|------|-----------------|------|-------|-------|------|--------------|
|                | Result        | Qual             | Added         | Result | Qual | Uncert. (2σ+/-) |      |       |       |      |              |
| Radium-226     | 0.174         |                  | 11.3          | 11.64  |      | 1.25            | 1.00 | 0.171 | pCi/L | 101  | 75 - 138     |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b> |        |      |                 |      |       |       |      |              |
| 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        | Sample           | Spike         | MSD    | MSD  | Total           | RL   | MDC   | Unit  | %Rec | %Rec. Limits | RER  | RER Limit |
|----------------|---------------|------------------|---------------|--------|------|-----------------|------|-------|-------|------|--------------|------|-----------|
|                | Result        | Qual             | Added         | Result | Qual | Uncert. (2σ+/-) |      |       |       |      |              |      |           |
| Radium-226     | 0.174         |                  | 11.3          | 12.41  |      | 1.32            | 1.00 | 0.184 | pCi/L | 108  | 75 - 138     | 0.30 | 1         |
| <b>Carrier</b> | <b>%Yield</b> | <b>Qualifier</b> | <b>Limits</b> |        |      |                 |      |       |       |      |              |      |           |
| Ba Carrier     | 73.4          |                  | 40 - 110      |        |      |                 |      |       |       |      |              |      |           |

**Lab Sample ID: 400-177218-B-25-A DU**  
**Matrix: Water**  
**Analysis Batch: 447982**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 445193**

| Analyte    | Sample | Sample | DU     | DU   | Total           | RL   | MDC   | Unit  | RER  | RER Limit |
|------------|--------|--------|--------|------|-----------------|------|-------|-------|------|-----------|
|            | Result | Qual   | Result | Qual | Uncert. (2σ+/-) |      |       |       |      |           |
| Radium-226 | 0.322  |        | 0.3685 |      | 0.172           | 1.00 | 0.206 | pCi/L | 0.14 | 1         |

# QC Sample Results

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

Job ID: 400-177223-1  
SDG: Gaston Ash Pond 1243

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

Lab Sample ID: 400-177218-B-25-A DU  
Matrix: Water  
Analysis Batch: 447982

Client Sample ID: Duplicate  
Prep Type: Total/NA  
Prep Batch: 445193

| Carrier    | DU   | DU | Qualifier | Limits   |
|------------|------|----|-----------|----------|
| Ba Carrier | 84.5 |    |           | 40 - 110 |

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

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

| Analyte    | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|-----------|--------------|-----------------------|-----------------------|------|-------|-------|----------------|----------------|---------|
| 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       |

| Carrier    | MB %Yield | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------|-----------|--------------|----------|----------------|----------------|---------|
| 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

| Analyte    | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL   | MDC   | Unit  | %Rec | %Rec. Limits |
|------------|-------------|------------|----------|-----------------------|------|-------|-------|------|--------------|
| Radium-228 | 9.47        | 10.29      |          | 1.25                  | 1.00 | 0.546 | pCi/L | 109  | 75 - 125     |

| Carrier    | LCS %Yield | LCS Qualifier | Limits   |
|------------|------------|---------------|----------|
| Ba Carrier | 79.7       |               | 40 - 110 |
| Y Carrier  | 77.4       |               | 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 Result | Sample Qual | Spike Added | MS Result | MS Qual | Total Uncert. (2σ+/-) | RL   | MDC   | Unit  | %Rec | %Rec. Limits |
|------------|---------------|-------------|-------------|-----------|---------|-----------------------|------|-------|-------|------|--------------|
| Radium-228 | -0.111        | U           | 9.47        | 10.56     |         | 1.36                  | 1.00 | 0.691 | pCi/L | 112  | 45 - 150     |

| Carrier    | MS %Yield | MS Qualifier | Limits   |
|------------|-----------|--------------|----------|
| Ba Carrier | 81.4      |              | 40 - 110 |
| Y Carrier  | 60.6      |              | 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 Result | Sample Qual | Spike Added | MSD Result | MSD Qual | Total Uncert. (2σ+/-) | RL   | MDC   | Unit  | %Rec | %Rec. Limits | RER  | RER Limit |
|------------|---------------|-------------|-------------|------------|----------|-----------------------|------|-------|-------|------|--------------|------|-----------|
| Radium-228 | -0.111        | U           | 9.46        | 12.05      |          | 1.42                  | 1.00 | 0.585 | pCi/L | 127  | 45 - 150     | 0.54 | 1         |

# QC Sample Results

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

Job ID: 400-177223-1  
 SDG: Gaston Ash Pond 1243

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

**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**

| Carrier    | MSD    |           | Limits   |
|------------|--------|-----------|----------|
|            | %Yield | Qualifier |          |
| Ba Carrier | 73.4   |           | 40 - 110 |
| Y Carrier  | 85.6   |           | 40 - 110 |

**Lab Sample ID: 400-177218-B-25-B DU**  
**Matrix: Water**  
**Analysis Batch: 447241**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 445201**

| Analyte    | Sample | Sample | DU      | DU   | Total              | RL   | MDC   | Unit  | RER  | Limit |
|------------|--------|--------|---------|------|--------------------|------|-------|-------|------|-------|
|            | Result | Qual   | Result  | Qual | Uncert.<br>(2σ+/-) |      |       |       |      |       |
| 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   |           | 40 - 110 |
| Y Carrier  | 80.0   |           | 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

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 THE LEADER IN ENVIRONMENTAL TESTING



|                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                        |                                                                                                 |                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>Client Information (Sub Contract Lab)</b><br>Client Contact: Dallas Gentry<br>Phone: _____<br>E-Mail: cheyenne.whitmire@testamericainc.com<br>State of Origin: Alabama<br>Page 1 of 1<br>Job # _____                                                                                                                                                                                                                              |                                                        | <b>Lab PM</b><br>Whitmire, Cheyenne R<br>State of Origin: Alabama<br>Page 1 of 1<br>Job # _____ |                                                                                                                              |
| <b>Company</b><br>Alabama Power General Test Laboratory<br>Address: 744 County Rd 87 GSCH8<br>City: Calera<br>State, Zip: AL 35040<br>Phone: 205-664-6197<br>Email: lamidituf@southalabama.com<br>Project Name: _____<br>CCR: _____<br>Site: Gaston Ash Pond 1243                                                                                                                                                                    |                                                        | <b>Accreditations Required (See note)</b><br>_____<br>_____<br>_____                            |                                                                                                                              |
| <b>Due Date Requested:</b><br>TAT Requested (days): Routine                                                                                                                                                                                                                                                                                                                                                                          |                                                        | <b>Analysis Requested</b><br>_____<br>_____<br>_____                                            |                                                                                                                              |
| <b>Sample Date</b><br>9/26/19<br>9/26/19<br>9/26/19<br>9/26/19                                                                                                                                                                                                                                                                                                                                                                       | <b>Sample Time</b><br>11:56<br>11:56<br>12:35<br>12:45 | <b>Sample Type (C=comp, G=grab)</b><br>G<br>G<br>G<br>G                                         | <b>Matrix (Water, Seawater, Distilled, etc.)</b><br>Water<br>Water<br>Water<br>Water                                         |
| <b>Sample Identification - Client ID (Lab ID)</b><br>AZ21983<br>AZ21984<br>AZ21985<br>AZ21986                                                                                                                                                                                                                                                                                                                                        |                                                        | <b>Field Filtered Sample (Yes or No)</b><br>X<br>X<br>X<br>X                                    | <b>Perform MS/MSD (Yes or No)</b><br>X<br>X<br>X<br>X                                                                        |
| <b>SM 4500 F.C.</b><br><b>SM 4500 C.F.</b><br><b>SM 4500 S.O4.E</b><br>9315_Ra226, 9320_Ra228, Ra226Ra228_GFPc                                                                                                                                                                                                                                                                                                                       |                                                        | <b>Total Number of Containers</b><br>1<br>1<br>1<br>1                                           | <b>Special Instructions/Note:</b><br>MW-29H<br>MW-29H DUP (Sample Duplicate)<br>FB-1 (Field Blank)<br>EB-1 (Equipment Blank) |
| <b>Preservation Codes:</b><br>A - HCL<br>B - NaOH<br>C - Zn Acetate<br>D - Nitric Acid<br>E - NaHSO4<br>F - HNO3<br>G - Amchlor<br>H - Ascorbic Acid<br>I - Boric Acid<br>J - Dist. Water<br>K - EDTA<br>L - EDTA<br>M - H2SO4<br>N - None<br>O - AsNaO2<br>P - Na2O4S<br>Q - Na2SO3<br>R - Na2S2O3<br>S - H2SO4<br>T - TSP Dodecahydrate<br>U - Acetone<br>V - Methanol<br>W - pH 4-5<br>X - other (specify)<br>Z - other (specify) |                                                        |                                                                                                 |                                                                                                                              |

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/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) \_\_\_\_\_

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

**43589 Special Instructions/OC Requirements**

**Empk Kit Relinquished by:** Laura Mickel  
 Relinquished by: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_

**Date:** 09/27/19 8:30  
 Date/Time: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_

**Method of Shipment:** \_\_\_\_\_  
 Received by: \_\_\_\_\_  
 Received by: \_\_\_\_\_  
 Received by: \_\_\_\_\_

**Company:** APC  
 Company: \_\_\_\_\_  
 Company: \_\_\_\_\_

**Custody Seal No.:** \_\_\_\_\_  
 Custody Seal In tact: \_\_\_\_\_  
 Custody Seal No.: \_\_\_\_\_

Ver (09/20/2016)

29.2°C JKL7



## Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-177223-1  
SDG Number: Gaston Ash Pond 1243

**Login Number: 177223**

**List Number: 1**

**Creator: Perez, Trina M**

**List Source: Eurofins TestAmerica, Pensacola**

| Question                                                                                            | Answer | Comment     |
|-----------------------------------------------------------------------------------------------------|--------|-------------|
| Radioactivity wasn't checked or is <math>\leq</math> 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   | 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: 400-177223-1  
SDG Number: Gaston Ash Pond 1243

**Login Number: 177223**

**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 <math>\leq</math> 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 Gaston

Job ID: 400-177223-1  
 SDG: Gaston Ash Pond 1243

## 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 Gaston

Job ID: 400-177223-1  
 SDG: Gaston Ash Pond 1243

## 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.



## **E.C. Gaston Ash Pond**

### **2019 Compliance Event 2 TDS Resample (MW-10 & MW-11)**

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).

There was heavy truck traffic and dusty conditions in the area while pumping and sampling well MW-11.

Field quality control procedures were performed as follows:

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

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

# *Analytical Report*



**Sample Group :** WMWGASAP\_1247

**Project/Site :** Gaston Ash Pond  
Wilsonville, AL 35186

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

**Attention :** Dustin Brooks, Greg Dyer, & Lauren Parker

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

October 31, 2019

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on October 08, 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: 2019.10.31 10:26:45 -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: 2019.10.31 12:36:00 -05'00'



### REPORT OF LABORATORY ANALYSIS

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



TDS

Gaston Ash Pond

WMWGASAP\_1247

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> |
|------------------|-----------------|-------------------|
| AZ22913          | 658110          | WMWGASAP_1247     |
| AZ22914          | 658110          | WMWGASAP_1247     |
| AZ22915          | 658110          | WMWGASAP_1247     |
| AZ22916          | 658110          | WMWGASAP_1247     |
| AZ22917          | 658110          | WMWGASAP_1247     |

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:
  - AZ22915
  - AZ22917

# Certificate Of Analysis

Revised Copy

**Description:** Gaston Ash Pond - MW-10

**Location Code:** WMWGASAP  
**Collected:** 10/8/19 10:55  
**Customer ID:**  
**Submittal Date:** 10/8/19 14:09

**Laboratory ID Number:** AZ22913

| Name                                         | Prepared      | Analyzed            | Vio Spec | DF | Results | Units | MDL | RL | Q  |
|----------------------------------------------|---------------|---------------------|----------|----|---------|-------|-----|----|----|
| <b>Analytical Method: SM 2540C</b>           |               | <b>Analyst: TJW</b> |          |    |         |       |     |    |    |
| * Solids, Dissolved                          | 10/9/19 16:40 | 10/10/19 16:45      |          | 1  | 172     | mg/L  |     | 25 |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: AWG</b> |          |    |         |       |     |    |    |
| Conductivity                                 | 10/8/19 10:49 | 10/8/19 10:49       |          |    | 326.11  | uS/cm |     |    | FA |
| pH                                           | 10/8/19 10:49 | 10/8/19 10:49       |          |    | 7.59    | SU    |     |    | FA |
| Temperature                                  | 10/8/19 10:49 | 10/8/19 10:49       |          |    | 23.11   | C     |     |    | FA |
| Turbidity                                    | 10/8/19 10:49 | 10/8/19 10:49       |          |    | 1.04    | NTU   |     |    | FA |

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

**Comments:** Revised Copy: Revising QC Batch Summary pages for TDS recovery information. Also, updating "LCS" and "LCS Limit" columns to "Standard" and "Standard Limit". LBM 10/31/19



# Batch QC Summary

Revised Copy

**Customer Account:** WMWGASAP  
**Sample Date:** 10/8/19 10:55  
**Customer ID:**  
**Delivery Date:** 10/8/19 14:09

**Description:** Gaston Ash Pond - MW-10

**Laboratory ID Number:** AZ22913

| Sample  | Analysis          | Units | MB     | MB Limit | Spike | MS | Sample Duplicate | Standard Standard | Standard Limit | Rec | Limit | Prec  | Limit |
|---------|-------------------|-------|--------|----------|-------|----|------------------|-------------------|----------------|-----|-------|-------|-------|
| AZ22916 | Solids, Dissolved | mg/L  | 0.0000 | 25       |       |    | 206              | 52.0              | 40 to 60       |     |       | 0.242 | 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:** Revised Copy: Revising QC Batch Summary pages for TDS recovery information. Also, updating "LCS" and "LCS Limit" columns to "Standard" and "Standard Limit". LBM 10/31/19

# Certificate Of Analysis

Revised Copy

**Description:** Gaston Ash Pond - MW-10 DUP

**Location Code:** WMWGASAP  
**Collected:** 10/8/19 10:55  
**Customer ID:**  
**Submittal Date:** 10/8/19 14:09

**Laboratory ID Number:** AZ22914

| Name                                         | Prepared      | Analyzed            | Vio Spec | DF | Results | Units | MDL | RL | Q  |
|----------------------------------------------|---------------|---------------------|----------|----|---------|-------|-----|----|----|
| <b>Analytical Method: SM 2540C</b>           |               | <b>Analyst: TJW</b> |          |    |         |       |     |    |    |
| * Solids, Dissolved                          | 10/9/19 16:40 | 10/10/19 16:45      |          | 1  | 177     | mg/L  |     | 25 |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: AWG</b> |          |    |         |       |     |    |    |
| Conductivity                                 | 10/8/19 10:49 | 10/8/19 10:49       |          |    | 326.11  | uS/cm |     |    | FA |
| pH                                           | 10/8/19 10:49 | 10/8/19 10:49       |          |    | 7.59    | SU    |     |    | FA |
| Temperature                                  | 10/8/19 10:49 | 10/8/19 10:49       |          |    | 23.11   | C     |     |    | FA |
| Turbidity                                    | 10/8/19 10:49 | 10/8/19 10:49       |          |    | 1.04    | NTU   |     |    | FA |

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

**Comments:** Revised Copy: Revising QC Batch Summary pages for TDS recovery information. Also, updating "LCS" and "LCS Limit" columns to "Standard" and "Standard Limit". LBM 10/31/19

# Batch QC Summary

Revised Copy

**Customer Account:** WMWGASAP  
**Sample Date:** 10/8/19 10:55  
**Customer ID:**  
**Delivery Date:** 10/8/19 14:09

**Description:** Gaston Ash Pond - MW-10 DUP

**Laboratory ID Number:** AZ22914

| Sample  | Analysis          | Units | MB     | MB Limit | Spike | MS | Sample Duplicate | Standard Standard | Standard Limit | Rec | Limit | Prec  | Limit |
|---------|-------------------|-------|--------|----------|-------|----|------------------|-------------------|----------------|-----|-------|-------|-------|
| AZ22916 | Solids, Dissolved | mg/L  | 0.0000 | 25       |       |    | 206              | 52.0              | 40 to 60       |     |       | 0.242 | 5     |

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Laboratory certification ID: E571114  
 Issued By: State of Florida, Department of Health  
 Expiration: June 30, 2017

**Comments:** Revised Copy: Revising QC Batch Summary pages for TDS recovery information. Also, updating "LCS" and "LCS Limit" columns to "Standard" and "Standard Limit". LBM 10/31/19

# Certificate Of Analysis

Revised Copy

**Description:** Gaston Ash Pond Field Blank

**Location Code:** WMWGASAPFB  
**Collected:** 10/8/19 11:05  
**Customer ID:**  
**Submittal Date:** 10/8/19 14:09

**Laboratory ID Number:** AZ22915

| Name                               | Prepared      | Analyzed            | Vio Spec | DF | Results      | Units | MDL | RL | Q |
|------------------------------------|---------------|---------------------|----------|----|--------------|-------|-----|----|---|
| <i>Analytical Method: SM 2540C</i> |               | <i>Analyst: TJW</i> |          |    |              |       |     |    |   |
| * Solids, Dissolved                | 10/9/19 16:40 | 10/10/19 16:45      |          | 1  | Not Detected | mg/L  |     | 25 | U |

---

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

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**Comments:** Revised Copy: Revising QC Batch Summary pages for TDS recovery information. Also, updating "LCS" and "LCS Limit" columns to "Standard" and "Standard Limit". LBM 10/31/19

# Batch QC Summary

Revised Copy

**Customer Account:** WMWGASAPFB  
**Sample Date:** 10/8/19 11:05  
**Customer ID:**  
**Delivery Date:** 10/8/19 14:09

**Description:** Gaston Ash Pond Field Blank

**Laboratory ID Number:** AZ22915

| Sample  | Analysis          | Units | MB     | MB<br>Limit | Spike | MS | Sample<br>Duplicate | Standard | Standard<br>Limit | Rec | Limit | Prec  | Limit |
|---------|-------------------|-------|--------|-------------|-------|----|---------------------|----------|-------------------|-----|-------|-------|-------|
| AZ22916 | Solids, Dissolved | mg/L  | 0.0000 | 25          |       |    | 206                 | 52.0     | 40 to 60          |     |       | 0.242 | 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:** Revised Copy: Revising QC Batch Summary pages for TDS recovery information. Also, updating "LCS" and "LCS Limit" columns to "Standard" and "Standard Limit". LBM 10/31/19

# Certificate Of Analysis

Revised Copy

**Description:** Gaston Ash Pond - MW-11

**Location Code:** WMWGASAP  
**Collected:** 10/8/19 12:05  
**Customer ID:**  
**Submittal Date:** 10/8/19 14:10

**Laboratory ID Number:** AZ22916

| Name                                         | Prepared      | Analyzed            | Vio Spec | DF | Results | Units | MDL | RL | Q  |
|----------------------------------------------|---------------|---------------------|----------|----|---------|-------|-----|----|----|
| <b>Analytical Method: SM 2540C</b>           |               | <b>Analyst: TJW</b> |          |    |         |       |     |    |    |
| * Solids, Dissolved                          | 10/9/19 16:40 | 10/10/19 16:45      |          | 1  | 207     | mg/L  |     | 25 |    |
| <b>Analytical Method: Field Measurements</b> |               | <b>Analyst: AWG</b> |          |    |         |       |     |    |    |
| Conductivity                                 | 10/8/19 12:00 | 10/8/19 12:00       |          |    | 346.47  | uS/cm |     |    | FA |
| pH                                           | 10/8/19 12:00 | 10/8/19 12:00       |          |    | 7.74    | SU    |     |    | FA |
| Temperature                                  | 10/8/19 12:00 | 10/8/19 12:00       |          |    | 23.48   | C     |     |    | FA |
| Turbidity                                    | 10/8/19 12:00 | 10/8/19 12:00       |          |    | 1.1     | NTU   |     |    | FA |

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

**Comments:** Revised Copy: Revising QC Batch Summary pages for TDS recovery information. Also, updating "LCS" and "LCS Limit" columns to "Standard" and "Standard Limit". LBM 10/31/19

# Batch QC Summary

Revised Copy

**Customer Account:** WMWGASAP  
**Sample Date:** 10/8/19 12:05  
**Customer ID:**  
**Delivery Date:** 10/8/19 14:10

**Description:** Gaston Ash Pond - MW-11

**Laboratory ID Number:** AZ22916

| Sample  | Analysis          | Units | MB     | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec  | Limit |
|---------|-------------------|-------|--------|----------|-------|----|------------------|----------|----------------|-----|-------|-------|-------|
| AZ22916 | Solids, Dissolved | mg/L  | 0.0000 | 25       |       |    | 206              | 52.0     | 40 to 60       |     |       | 0.242 | 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:** Revised Copy: Revising QC Batch Summary pages for TDS recovery information. Also, updating "LCS" and "LCS Limit" columns to "Standard" and "Standard Limit". LBM 10/31/19

# Certificate Of Analysis

Revised Copy

**Description:** Gaston Ash Pond Equipment Blank

**Location Code:** WMWGAPEB  
**Collected:** 10/8/19 12:08  
**Customer ID:**  
**Submittal Date:** 10/8/19 14:10

**Laboratory ID Number:** AZ22917

| Name                               | Prepared      | Analyzed            | Vio Spec | DF | Results      | Units | MDL | RL | Q |
|------------------------------------|---------------|---------------------|----------|----|--------------|-------|-----|----|---|
| <i>Analytical Method: SM 2540C</i> |               | <i>Analyst: TJW</i> |          |    |              |       |     |    |   |
| * Solids, Dissolved                | 10/9/19 16:40 | 10/10/19 16:45      |          | 1  | Not Detected | mg/L  |     | 25 | U |

---

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

**Comments:** Revised Copy: Revising QC Batch Summary pages for TDS recovery information. Also, updating "LCS" and "LCS Limit" columns to "Standard" and "Standard Limit". LBM 10/31/19



# Batch QC Summary

Revised Copy

**Customer Account:** WMWGASAPEB

**Sample Date:** 10/8/19 12:08

**Customer ID:**

**Delivery Date:** 10/8/19 14:10

**Description:** Gaston Ash Pond Equipment Blank

**Laboratory ID Number:** AZ22917

| Sample  | Analysis          | Units | MB     | MB<br>Limit | Spike | MS | Sample<br>Duplicate | Standard | Standard<br>Limit | Rec | Limit | Prec  | Limit |
|---------|-------------------|-------|--------|-------------|-------|----|---------------------|----------|-------------------|-----|-------|-------|-------|
| AZ22916 | Solids, Dissolved | mg/L  | 0.0000 | 25          |       |    | 206                 | 52.0     | 40 to 60          |     |       | 0.242 | 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:** Revised Copy: Revising QC Batch Summary pages for TDS recovery information. Also, updating "LCS" and "LCS Limit" columns to "Standard" and "Standard Limit". LBM 10/31/19

## Definitions

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

| Qualifier | Description                                           |
|-----------|-------------------------------------------------------|
| FA        | Field results were reviewed by the Water Field Group. |
| U         | Compound was analyzed, but not detected.              |



# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA 10/08/2019 13:30

|                         |                   |              |                                         |
|-------------------------|-------------------|--------------|-----------------------------------------|
| Requested Complete Date | Routine           | Results To   | Dustin Brooks, Greg Dyer, Lauren Parker |
| Site Representative     | Tanisha Fenderson | Requested By | Lauren Parker                           |
| Collector               | Anthony Goggins   | Location     | Gaston Ash Pond                         |

|         |   |     |        |   |     |     |   |     |     |   |     |     |
|---------|---|-----|--------|---|-----|-----|---|-----|-----|---|-----|-----|
| Bottles | 1 | TDS | 500 mL | 3 | N/A | N/A | 5 | N/A | N/A | 7 | N/A | N/A |
|         | 2 | N/A | N/A    | 4 | N/A | N/A | 6 | N/A | N/A | 8 | N/A | N/A |

Comments

| Sample # | Date       | Time  | Bottle Count | Description      | Lab Filter | Lab Id  |
|----------|------------|-------|--------------|------------------|------------|---------|
| MW-10    | 10/8/19    | 10:55 | 1            | Groundwater      |            | AZ22913 |
| MW-10Dup | 10/08/2019 | 10:55 | 1            | Sample Duplicate |            | AZ22914 |
| FB-1     | 10/08/2019 | 11:05 | 1            | Field Blank      |            | AZ22915 |
| MW-11    | 10/08/2019 | 12:05 | 1            | Groundwater      |            | AZ22916 |
| EB-1     | 10/08/2019 | 12:08 | 1            | Equipment Blank  |            | AZ22917 |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |
|          |            |       |              |                  |            |         |

|                 |             |                  |
|-----------------|-------------|------------------|
| Relinquished By | Received By | Date/Time        |
|                 |             | 10/08/2019 13:51 |
|                 |             |                  |
|                 |             |                  |

|              |                |                                                                          |
|--------------|----------------|--------------------------------------------------------------------------|
| SmarTroll ID | 7586-41442-5-1 | All metals and radiological bottles have pH < 2 <input type="checkbox"/> |
| Turbidity ID | 5160-26211-1-1 | Cooler Temp                                                              |
| Sample Event | 1247           | Thermometer ID                                                           |
|              |                | pH Strip ID                                                              |
|              |                | 0.4 degrees C                                                            |
|              |                | 5408-27568-2-2                                                           |
|              |                | N/A                                                                      |

**Alabama Power Company  
Plant Gaston Ash Pond**

| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-5     | 9/18/2019 15:23     | Conductivity                  | 659.4        | uS/cm       |
| GN-AP-MW-5     | 9/18/2019 15:23     | DO                            | 0.38         | mg/L        |
| GN-AP-MW-5     | 9/18/2019 15:23     | Depth to Water Detail         | 18.07        | ft          |
| GN-AP-MW-5     | 9/18/2019 15:23     | Oxidation Reduction Potention | 1.6          | mv          |
| GN-AP-MW-5     | 9/18/2019 15:23     | pH                            | 7.51         | pH          |
| GN-AP-MW-5     | 9/18/2019 15:23     | Temperature                   | 22.92        | C           |
| GN-AP-MW-5     | 9/18/2019 15:23     | Turbidity                     | 0.36         | NTU         |
| GN-AP-MW-5     | 9/18/2019 15:28     | Conductivity                  | 650.8        | uS/cm       |
| GN-AP-MW-5     | 9/18/2019 15:28     | DO                            | 0.22         | mg/L        |
| GN-AP-MW-5     | 9/18/2019 15:28     | Depth to Water Detail         | 18.07        | ft          |
| GN-AP-MW-5     | 9/18/2019 15:28     | Oxidation Reduction Potention | -5.38        | mv          |
| GN-AP-MW-5     | 9/18/2019 15:28     | pH                            | 7.51         | pH          |
| GN-AP-MW-5     | 9/18/2019 15:28     | Temperature                   | 22.61        | C           |
| GN-AP-MW-5     | 9/18/2019 15:28     | Turbidity                     | 0.75         | NTU         |
| GN-AP-MW-5     | 9/18/2019 15:33     | Conductivity                  | 651.28       | uS/cm       |
| GN-AP-MW-5     | 9/18/2019 15:33     | DO                            | 0.23         | mg/L        |
| GN-AP-MW-5     | 9/18/2019 15:33     | Depth to Water Detail         | 18.07        | ft          |
| GN-AP-MW-5     | 9/18/2019 15:33     | Oxidation Reduction Potention | -11.17       | mv          |
| GN-AP-MW-5     | 9/18/2019 15:33     | pH                            | 7.5          | pH          |
| GN-AP-MW-5     | 9/18/2019 15:33     | Temperature                   | 22.66        | C           |
| GN-AP-MW-5     | 9/18/2019 15:33     | Turbidity                     | 0.59         | NTU         |
| GN-AP-MW-5     | 9/18/2019 15:38     | Conductivity                  | 654.97       | uS/cm       |
| GN-AP-MW-5     | 9/18/2019 15:38     | DO                            | 0.17         | mg/L        |
| GN-AP-MW-5     | 9/18/2019 15:38     | Depth to Water Detail         | 18.07        | ft          |
| GN-AP-MW-5     | 9/18/2019 15:38     | Oxidation Reduction Potention | -17.2        | mv          |
| GN-AP-MW-5     | 9/18/2019 15:38     | pH                            | 7.53         | pH          |
| GN-AP-MW-5     | 9/18/2019 15:38     | Temperature                   | 22.55        | C           |
| GN-AP-MW-5     | 9/18/2019 15:38     | Turbidity                     | 0.51         | NTU         |

**Alabama Power Company  
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| WELL ID    | READING TIME    | DESCRIPTION                   | VALUE  | UNIT  |
|------------|-----------------|-------------------------------|--------|-------|
| GN-AP-MW-6 | 9/18/2019 11:42 | Conductivity                  | 591.94 | uS/cm |
| GN-AP-MW-6 | 9/18/2019 11:42 | DO                            | 0.14   | mg/L  |
| GN-AP-MW-6 | 9/18/2019 11:42 | Depth to Water Detail         | 14.59  | ft    |
| GN-AP-MW-6 | 9/18/2019 11:42 | Oxidation Reduction Potention | 76.66  | mv    |
| GN-AP-MW-6 | 9/18/2019 11:42 | pH                            | 7.85   | pH    |
| GN-AP-MW-6 | 9/18/2019 11:42 | Temperature                   | 20.56  | C     |
| GN-AP-MW-6 | 9/18/2019 11:42 | Turbidity                     | 0.62   | NTU   |
| GN-AP-MW-6 | 9/18/2019 11:47 | Conductivity                  | 603.98 | uS/cm |
| GN-AP-MW-6 | 9/18/2019 11:47 | DO                            | 0.13   | mg/L  |
| GN-AP-MW-6 | 9/18/2019 11:47 | Depth to Water Detail         | 14.59  | ft    |
| GN-AP-MW-6 | 9/18/2019 11:47 | Oxidation Reduction Potention | 71.41  | mv    |
| GN-AP-MW-6 | 9/18/2019 11:47 | pH                            | 7.85   | pH    |
| GN-AP-MW-6 | 9/18/2019 11:47 | Temperature                   | 20.58  | C     |
| GN-AP-MW-6 | 9/18/2019 11:47 | Turbidity                     | 0.51   | NTU   |
| GN-AP-MW-6 | 9/18/2019 11:52 | Conductivity                  | 616.06 | uS/cm |
| GN-AP-MW-6 | 9/18/2019 11:52 | DO                            | 0.13   | mg/L  |
| GN-AP-MW-6 | 9/18/2019 11:52 | Depth to Water Detail         | 14.59  | ft    |
| GN-AP-MW-6 | 9/18/2019 11:52 | Oxidation Reduction Potention | 68.92  | mv    |
| GN-AP-MW-6 | 9/18/2019 11:52 | pH                            | 7.85   | pH    |
| GN-AP-MW-6 | 9/18/2019 11:52 | Temperature                   | 20.55  | C     |
| GN-AP-MW-6 | 9/18/2019 11:52 | Turbidity                     | 0.37   | NTU   |
| GN-AP-MW-6 | 9/18/2019 11:57 | Conductivity                  | 634.6  | uS/cm |
| GN-AP-MW-6 | 9/18/2019 11:57 | DO                            | 0.13   | mg/L  |
| GN-AP-MW-6 | 9/18/2019 11:57 | Depth to Water Detail         | 14.59  | ft    |
| GN-AP-MW-6 | 9/18/2019 11:57 | Oxidation Reduction Potention | 69.21  | mv    |
| GN-AP-MW-6 | 9/18/2019 11:57 | pH                            | 7.85   | pH    |
| GN-AP-MW-6 | 9/18/2019 11:57 | Temperature                   | 20.39  | C     |
| GN-AP-MW-6 | 9/18/2019 11:57 | Turbidity                     | 0.43   | NTU   |
| GN-AP-MW-6 | 9/18/2019 12:02 | Conductivity                  | 652.56 | uS/cm |
| GN-AP-MW-6 | 9/18/2019 12:02 | DO                            | 0.13   | mg/L  |
| GN-AP-MW-6 | 9/18/2019 12:02 | Depth to Water Detail         | 14.59  | ft    |
| GN-AP-MW-6 | 9/18/2019 12:02 | Oxidation Reduction Potention | 69.32  | mv    |
| GN-AP-MW-6 | 9/18/2019 12:02 | pH                            | 7.85   | pH    |
| GN-AP-MW-6 | 9/18/2019 12:02 | Temperature                   | 20.35  | C     |
| GN-AP-MW-6 | 9/18/2019 12:02 | Turbidity                     | 0.34   | NTU   |
| GN-AP-MW-6 | 9/18/2019 12:07 | Conductivity                  | 664.15 | uS/cm |
| GN-AP-MW-6 | 9/18/2019 12:07 | DO                            | 0.12   | mg/L  |
| GN-AP-MW-6 | 9/18/2019 12:07 | Depth to Water Detail         | 14.59  | ft    |
| GN-AP-MW-6 | 9/18/2019 12:07 | Oxidation Reduction Potention | 68.25  | mv    |
| GN-AP-MW-6 | 9/18/2019 12:07 | pH                            | 7.85   | pH    |
| GN-AP-MW-6 | 9/18/2019 12:07 | Temperature                   | 20.4   | C     |
| GN-AP-MW-6 | 9/18/2019 12:07 | Turbidity                     | 0.48   | NTU   |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-7     | 9/18/2019 10:26     | Conductivity                  | 459.23       | uS/cm       |
| GN-AP-MW-7     | 9/18/2019 10:26     | DO                            | 1.75         | mg/L        |
| GN-AP-MW-7     | 9/18/2019 10:26     | Depth to Water Detail         | 13.42        | ft          |
| GN-AP-MW-7     | 9/18/2019 10:26     | Oxidation Reduction Potention | 92.45        | mv          |
| GN-AP-MW-7     | 9/18/2019 10:26     | pH                            | 7.46         | pH          |
| GN-AP-MW-7     | 9/18/2019 10:26     | Temperature                   | 21.09        | C           |
| GN-AP-MW-7     | 9/18/2019 10:26     | Turbidity                     | 2.01         | NTU         |
| GN-AP-MW-7     | 9/18/2019 10:31     | Conductivity                  | 520.28       | uS/cm       |
| GN-AP-MW-7     | 9/18/2019 10:31     | DO                            | 1.5          | mg/L        |
| GN-AP-MW-7     | 9/18/2019 10:31     | Depth to Water Detail         | 13.42        | ft          |
| GN-AP-MW-7     | 9/18/2019 10:31     | Oxidation Reduction Potention | 94.95        | mv          |
| GN-AP-MW-7     | 9/18/2019 10:31     | pH                            | 7.5          | pH          |
| GN-AP-MW-7     | 9/18/2019 10:31     | Temperature                   | 21.11        | C           |
| GN-AP-MW-7     | 9/18/2019 10:31     | Turbidity                     | 1.24         | NTU         |
| GN-AP-MW-7     | 9/18/2019 10:36     | Conductivity                  | 586.51       | uS/cm       |
| GN-AP-MW-7     | 9/18/2019 10:36     | DO                            | 1.31         | mg/L        |
| GN-AP-MW-7     | 9/18/2019 10:36     | Depth to Water Detail         | 13.42        | ft          |
| GN-AP-MW-7     | 9/18/2019 10:36     | Oxidation Reduction Potention | 100.4        | mv          |
| GN-AP-MW-7     | 9/18/2019 10:36     | pH                            | 7.51         | pH          |
| GN-AP-MW-7     | 9/18/2019 10:36     | Temperature                   | 20.78        | C           |
| GN-AP-MW-7     | 9/18/2019 10:36     | Turbidity                     | 1.02         | NTU         |
| GN-AP-MW-7     | 9/18/2019 10:41     | Conductivity                  | 630.31       | uS/cm       |
| GN-AP-MW-7     | 9/18/2019 10:41     | DO                            | 1.23         | mg/L        |
| GN-AP-MW-7     | 9/18/2019 10:41     | Depth to Water Detail         | 13.42        | ft          |
| GN-AP-MW-7     | 9/18/2019 10:41     | Oxidation Reduction Potention | 102.75       | mv          |
| GN-AP-MW-7     | 9/18/2019 10:41     | pH                            | 7.54         | pH          |
| GN-AP-MW-7     | 9/18/2019 10:41     | Temperature                   | 20.88        | C           |
| GN-AP-MW-7     | 9/18/2019 10:41     | Turbidity                     | 0.93         | NTU         |
| GN-AP-MW-7     | 9/18/2019 10:46     | Conductivity                  | 654.72       | uS/cm       |
| GN-AP-MW-7     | 9/18/2019 10:46     | DO                            | 1.21         | mg/L        |
| GN-AP-MW-7     | 9/18/2019 10:46     | Depth to Water Detail         | 13.42        | ft          |
| GN-AP-MW-7     | 9/18/2019 10:46     | Oxidation Reduction Potention | 104.59       | mv          |
| GN-AP-MW-7     | 9/18/2019 10:46     | pH                            | 7.54         | pH          |
| GN-AP-MW-7     | 9/18/2019 10:46     | Temperature                   | 20.92        | C           |
| GN-AP-MW-7     | 9/18/2019 10:46     | Turbidity                     | 0.77         | NTU         |
| GN-AP-MW-7     | 9/18/2019 10:51     | Conductivity                  | 662.89       | uS/cm       |
| GN-AP-MW-7     | 9/18/2019 10:51     | DO                            | 1.17         | mg/L        |
| GN-AP-MW-7     | 9/18/2019 10:51     | Depth to Water Detail         | 13.42        | ft          |
| GN-AP-MW-7     | 9/18/2019 10:51     | Oxidation Reduction Potention | 105.4        | mv          |
| GN-AP-MW-7     | 9/18/2019 10:51     | pH                            | 7.55         | pH          |
| GN-AP-MW-7     | 9/18/2019 10:51     | Temperature                   | 20.94        | C           |
| GN-AP-MW-7     | 9/18/2019 10:51     | Turbidity                     | 0.85         | NTU         |
| GN-AP-MW-7     | 9/18/2019 10:56     | Conductivity                  | 683.51       | uS/cm       |
| GN-AP-MW-7     | 9/18/2019 10:56     | DO                            | 1.08         | mg/L        |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-7     | 9/18/2019 10:56     | Depth to Water Detail         | 13.42        | ft          |
| GN-AP-MW-7     | 9/18/2019 10:56     | Oxidation Reduction Potention | 108.35       | mv          |
| GN-AP-MW-7     | 9/18/2019 10:56     | pH                            | 7.52         | pH          |
| GN-AP-MW-7     | 9/18/2019 10:56     | Temperature                   | 21.1         | C           |
| GN-AP-MW-7     | 9/18/2019 10:56     | Turbidity                     | 0.88         | NTU         |

**Alabama Power Company  
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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-13    | 9/17/2019 10:23     | Conductivity                  | 385.06       | uS/cm       |
| GN-AP-MW-13    | 9/17/2019 10:23     | DO                            | 0.22         | mg/L        |
| GN-AP-MW-13    | 9/17/2019 10:23     | Depth to Water Detail         | 4.01         | ft          |
| GN-AP-MW-13    | 9/17/2019 10:23     | Oxidation Reduction Potention | 24.97        | mv          |
| GN-AP-MW-13    | 9/17/2019 10:23     | pH                            | 7.39         | pH          |
| GN-AP-MW-13    | 9/17/2019 10:23     | Temperature                   | 24.51        | C           |
| GN-AP-MW-13    | 9/17/2019 10:23     | Turbidity                     | 0.8          | NTU         |
| GN-AP-MW-13    | 9/17/2019 10:28     | Conductivity                  | 385.7        | uS/cm       |
| GN-AP-MW-13    | 9/17/2019 10:28     | DO                            | 0.21         | mg/L        |
| GN-AP-MW-13    | 9/17/2019 10:28     | Depth to Water Detail         | 5.06         | ft          |
| GN-AP-MW-13    | 9/17/2019 10:28     | Oxidation Reduction Potention | 9.91         | mv          |
| GN-AP-MW-13    | 9/17/2019 10:28     | pH                            | 7.42         | pH          |
| GN-AP-MW-13    | 9/17/2019 10:28     | Temperature                   | 24.11        | C           |
| GN-AP-MW-13    | 9/17/2019 10:28     | Turbidity                     | 0.79         | NTU         |
| GN-AP-MW-13    | 9/17/2019 10:33     | Conductivity                  | 388.06       | uS/cm       |
| GN-AP-MW-13    | 9/17/2019 10:33     | DO                            | 0.22         | mg/L        |
| GN-AP-MW-13    | 9/17/2019 10:33     | Depth to Water Detail         | 5.61         | ft          |
| GN-AP-MW-13    | 9/17/2019 10:33     | Oxidation Reduction Potention | -1.68        | mv          |
| GN-AP-MW-13    | 9/17/2019 10:33     | pH                            | 7.44         | pH          |
| GN-AP-MW-13    | 9/17/2019 10:33     | Temperature                   | 23.96        | C           |
| GN-AP-MW-13    | 9/17/2019 10:33     | Turbidity                     | 0.71         | NTU         |
| GN-AP-MW-13    | 9/17/2019 10:38     | Conductivity                  | 388.21       | uS/cm       |
| GN-AP-MW-13    | 9/17/2019 10:38     | DO                            | 0.26         | mg/L        |
| GN-AP-MW-13    | 9/17/2019 10:38     | Depth to Water Detail         | 5.77         | ft          |
| GN-AP-MW-13    | 9/17/2019 10:38     | Oxidation Reduction Potention | -10.08       | mv          |
| GN-AP-MW-13    | 9/17/2019 10:38     | pH                            | 7.45         | pH          |
| GN-AP-MW-13    | 9/17/2019 10:38     | Temperature                   | 24.66        | C           |
| GN-AP-MW-13    | 9/17/2019 10:38     | Turbidity                     | 0.69         | NTU         |
| GN-AP-MW-13    | 9/17/2019 10:43     | Conductivity                  | 387.96       | uS/cm       |
| GN-AP-MW-13    | 9/17/2019 10:43     | DO                            | 0.28         | mg/L        |
| GN-AP-MW-13    | 9/17/2019 10:43     | Depth to Water Detail         | 5.79         | ft          |
| GN-AP-MW-13    | 9/17/2019 10:43     | Oxidation Reduction Potention | -17.86       | mv          |
| GN-AP-MW-13    | 9/17/2019 10:43     | pH                            | 7.45         | pH          |
| GN-AP-MW-13    | 9/17/2019 10:43     | Temperature                   | 24.65        | C           |
| GN-AP-MW-13    | 9/17/2019 10:43     | Turbidity                     | 0.89         | NTU         |



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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-14    | 9/17/2019 12:16     | Conductivity                  | 493.02       | uS/cm       |
| GN-AP-MW-14    | 9/17/2019 12:16     | DO                            | 1.7          | mg/L        |
| GN-AP-MW-14    | 9/17/2019 12:16     | Depth to Water Detail         | 29.02        | ft          |
| GN-AP-MW-14    | 9/17/2019 12:16     | Oxidation Reduction Potention | -72.93       | mv          |
| GN-AP-MW-14    | 9/17/2019 12:16     | pH                            | 7.25         | pH          |
| GN-AP-MW-14    | 9/17/2019 12:16     | Temperature                   | 24.28        | C           |
| GN-AP-MW-14    | 9/17/2019 12:16     | Turbidity                     | 0.3          | NTU         |
| GN-AP-MW-14    | 9/17/2019 12:21     | Conductivity                  | 492.71       | uS/cm       |
| GN-AP-MW-14    | 9/17/2019 12:21     | DO                            | 0.37         | mg/L        |
| GN-AP-MW-14    | 9/17/2019 12:21     | Depth to Water Detail         | 29.09        | ft          |
| GN-AP-MW-14    | 9/17/2019 12:21     | Oxidation Reduction Potention | -93.91       | mv          |
| GN-AP-MW-14    | 9/17/2019 12:21     | pH                            | 7.21         | pH          |
| GN-AP-MW-14    | 9/17/2019 12:21     | Temperature                   | 24.32        | C           |
| GN-AP-MW-14    | 9/17/2019 12:21     | Turbidity                     | 0.16         | NTU         |
| GN-AP-MW-14    | 9/17/2019 12:26     | Conductivity                  | 493.23       | uS/cm       |
| GN-AP-MW-14    | 9/17/2019 12:26     | DO                            | 0.24         | mg/L        |
| GN-AP-MW-14    | 9/17/2019 12:26     | Depth to Water Detail         | 29.14        | ft          |
| GN-AP-MW-14    | 9/17/2019 12:26     | Oxidation Reduction Potention | -114.54      | mv          |
| GN-AP-MW-14    | 9/17/2019 12:26     | pH                            | 7.24         | pH          |
| GN-AP-MW-14    | 9/17/2019 12:26     | Temperature                   | 24.05        | C           |
| GN-AP-MW-14    | 9/17/2019 12:26     | Turbidity                     | 0.17         | NTU         |
| GN-AP-MW-14    | 9/17/2019 12:31     | Conductivity                  | 492.41       | uS/cm       |
| GN-AP-MW-14    | 9/17/2019 12:31     | DO                            | 0.17         | mg/L        |
| GN-AP-MW-14    | 9/17/2019 12:31     | Depth to Water Detail         | 29.14        | ft          |
| GN-AP-MW-14    | 9/17/2019 12:31     | Oxidation Reduction Potention | -129.08      | mv          |
| GN-AP-MW-14    | 9/17/2019 12:31     | pH                            | 7.3          | pH          |
| GN-AP-MW-14    | 9/17/2019 12:31     | Temperature                   | 24           | C           |
| GN-AP-MW-14    | 9/17/2019 12:31     | Turbidity                     | 0.32         | NTU         |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-21    | 9/18/2019 13:04     | Conductivity                  | 793.24       | uS/cm       |
| GN-AP-MW-21    | 9/18/2019 13:04     | DO                            | 0.14         | mg/L        |
| GN-AP-MW-21    | 9/18/2019 13:04     | Depth to Water Detail         | 16.82        | ft          |
| GN-AP-MW-21    | 9/18/2019 13:04     | Oxidation Reduction Potention | 72.92        | mv          |
| GN-AP-MW-21    | 9/18/2019 13:04     | pH                            | 7.39         | pH          |
| GN-AP-MW-21    | 9/18/2019 13:04     | Temperature                   | 20.96        | C           |
| GN-AP-MW-21    | 9/18/2019 13:04     | Turbidity                     | 0.92         | NTU         |
| GN-AP-MW-21    | 9/18/2019 13:09     | Conductivity                  | 762.76       | uS/cm       |
| GN-AP-MW-21    | 9/18/2019 13:09     | DO                            | 0.45         | mg/L        |
| GN-AP-MW-21    | 9/18/2019 13:09     | Depth to Water Detail         | 16.93        | ft          |
| GN-AP-MW-21    | 9/18/2019 13:09     | Oxidation Reduction Potention | 64.14        | mv          |
| GN-AP-MW-21    | 9/18/2019 13:09     | pH                            | 7.29         | pH          |
| GN-AP-MW-21    | 9/18/2019 13:09     | Temperature                   | 20.97        | C           |
| GN-AP-MW-21    | 9/18/2019 13:09     | Turbidity                     | 0.39         | NTU         |
| GN-AP-MW-21    | 9/18/2019 13:14     | Conductivity                  | 776.92       | uS/cm       |
| GN-AP-MW-21    | 9/18/2019 13:14     | DO                            | 0.26         | mg/L        |
| GN-AP-MW-21    | 9/18/2019 13:14     | Depth to Water Detail         | 16.93        | ft          |
| GN-AP-MW-21    | 9/18/2019 13:14     | Oxidation Reduction Potention | 59.15        | mv          |
| GN-AP-MW-21    | 9/18/2019 13:14     | pH                            | 7.18         | pH          |
| GN-AP-MW-21    | 9/18/2019 13:14     | Temperature                   | 20.99        | C           |
| GN-AP-MW-21    | 9/18/2019 13:14     | Turbidity                     | 0.22         | NTU         |
| GN-AP-MW-21    | 9/18/2019 13:19     | Conductivity                  | 782.62       | uS/cm       |
| GN-AP-MW-21    | 9/18/2019 13:19     | DO                            | 0.2          | mg/L        |
| GN-AP-MW-21    | 9/18/2019 13:19     | Depth to Water Detail         | 16.93        | ft          |
| GN-AP-MW-21    | 9/18/2019 13:19     | Oxidation Reduction Potention | 48.55        | mv          |
| GN-AP-MW-21    | 9/18/2019 13:19     | pH                            | 7.15         | pH          |
| GN-AP-MW-21    | 9/18/2019 13:19     | Temperature                   | 21.04        | C           |
| GN-AP-MW-21    | 9/18/2019 13:19     | Turbidity                     | 0.2          | NTU         |

**Alabama Power Company  
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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-22    | 9/18/2019 14:37     | Conductivity                  | 689.84       | uS/cm       |
| GN-AP-MW-22    | 9/18/2019 14:37     | DO                            | 0.14         | mg/L        |
| GN-AP-MW-22    | 9/18/2019 14:37     | Depth to Water Detail         | 13.89        | ft          |
| GN-AP-MW-22    | 9/18/2019 14:37     | Oxidation Reduction Potention | 23.67        | mv          |
| GN-AP-MW-22    | 9/18/2019 14:37     | pH                            | 7.34         | pH          |
| GN-AP-MW-22    | 9/18/2019 14:37     | Temperature                   | 21.11        | C           |
| GN-AP-MW-22    | 9/18/2019 14:37     | Turbidity                     | 0.18         | NTU         |
| GN-AP-MW-22    | 9/18/2019 14:42     | Conductivity                  | 696.43       | uS/cm       |
| GN-AP-MW-22    | 9/18/2019 14:42     | DO                            | 0.12         | mg/L        |
| GN-AP-MW-22    | 9/18/2019 14:42     | Depth to Water Detail         | 13.89        | ft          |
| GN-AP-MW-22    | 9/18/2019 14:42     | Oxidation Reduction Potention | 17.73        | mv          |
| GN-AP-MW-22    | 9/18/2019 14:42     | pH                            | 7.19         | pH          |
| GN-AP-MW-22    | 9/18/2019 14:42     | Temperature                   | 21.17        | C           |
| GN-AP-MW-22    | 9/18/2019 14:42     | Turbidity                     | 0.17         | NTU         |
| GN-AP-MW-22    | 9/18/2019 14:47     | Conductivity                  | 697.1        | uS/cm       |
| GN-AP-MW-22    | 9/18/2019 14:47     | DO                            | 0.12         | mg/L        |
| GN-AP-MW-22    | 9/18/2019 14:47     | Depth to Water Detail         | 13.89        | ft          |
| GN-AP-MW-22    | 9/18/2019 14:47     | Oxidation Reduction Potention | 5.16         | mv          |
| GN-AP-MW-22    | 9/18/2019 14:47     | pH                            | 7.18         | pH          |
| GN-AP-MW-22    | 9/18/2019 14:47     | Temperature                   | 20.97        | C           |
| GN-AP-MW-22    | 9/18/2019 14:47     | Turbidity                     | 0.37         | NTU         |
| GN-AP-MW-22    | 9/18/2019 14:52     | Conductivity                  | 700.38       | uS/cm       |
| GN-AP-MW-22    | 9/18/2019 14:52     | DO                            | 0.11         | mg/L        |
| GN-AP-MW-22    | 9/18/2019 14:52     | Depth to Water Detail         | 13.89        | ft          |
| GN-AP-MW-22    | 9/18/2019 14:52     | Oxidation Reduction Potention | -7.33        | mv          |
| GN-AP-MW-22    | 9/18/2019 14:52     | pH                            | 7.21         | pH          |
| GN-AP-MW-22    | 9/18/2019 14:52     | Temperature                   | 20.88        | C           |
| GN-AP-MW-22    | 9/18/2019 14:52     | Turbidity                     | 0.07         | NTU         |

**Alabama Power Company  
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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-23S   | 9/17/2019 14:44     | Conductivity                  | 617.85       | uS/cm       |
| GN-AP-MW-23S   | 9/17/2019 14:44     | DO                            | 1.03         | mg/L        |
| GN-AP-MW-23S   | 9/17/2019 14:44     | Depth to Water Detail         | 15.76        | ft          |
| GN-AP-MW-23S   | 9/17/2019 14:44     | Oxidation Reduction Potention | 54.89        | mv          |
| GN-AP-MW-23S   | 9/17/2019 14:44     | pH                            | 7.21         | pH          |
| GN-AP-MW-23S   | 9/17/2019 14:44     | Temperature                   | 25.03        | C           |
| GN-AP-MW-23S   | 9/17/2019 14:44     | Turbidity                     | 36.3         | NTU         |
| GN-AP-MW-23S   | 9/17/2019 14:49     | Conductivity                  | 566.53       | uS/cm       |
| GN-AP-MW-23S   | 9/17/2019 14:49     | DO                            | 0.92         | mg/L        |
| GN-AP-MW-23S   | 9/17/2019 14:49     | Depth to Water Detail         | 15.76        | ft          |
| GN-AP-MW-23S   | 9/17/2019 14:49     | Oxidation Reduction Potention | 41.85        | mv          |
| GN-AP-MW-23S   | 9/17/2019 14:49     | pH                            | 6.93         | pH          |
| GN-AP-MW-23S   | 9/17/2019 14:49     | Temperature                   | 24.91        | C           |
| GN-AP-MW-23S   | 9/17/2019 14:49     | Turbidity                     | 31.7         | NTU         |
| GN-AP-MW-23S   | 9/17/2019 14:54     | Conductivity                  | 547.14       | uS/cm       |
| GN-AP-MW-23S   | 9/17/2019 14:54     | DO                            | 0.81         | mg/L        |
| GN-AP-MW-23S   | 9/17/2019 14:54     | Depth to Water Detail         | 15.77        | ft          |
| GN-AP-MW-23S   | 9/17/2019 14:54     | Oxidation Reduction Potention | 32.95        | mv          |
| GN-AP-MW-23S   | 9/17/2019 14:54     | pH                            | 6.82         | pH          |
| GN-AP-MW-23S   | 9/17/2019 14:54     | Temperature                   | 25.03        | C           |
| GN-AP-MW-23S   | 9/17/2019 14:54     | Turbidity                     | 23.6         | NTU         |
| GN-AP-MW-23S   | 9/17/2019 14:59     | Conductivity                  | 541.26       | uS/cm       |
| GN-AP-MW-23S   | 9/17/2019 14:59     | DO                            | 0.72         | mg/L        |
| GN-AP-MW-23S   | 9/17/2019 14:59     | Depth to Water Detail         | 15.77        | ft          |
| GN-AP-MW-23S   | 9/17/2019 14:59     | Oxidation Reduction Potention | 23.94        | mv          |
| GN-AP-MW-23S   | 9/17/2019 14:59     | pH                            | 6.81         | pH          |
| GN-AP-MW-23S   | 9/17/2019 14:59     | Temperature                   | 25.06        | C           |
| GN-AP-MW-23S   | 9/17/2019 14:59     | Turbidity                     | 10.74        | NTU         |
| GN-AP-MW-23S   | 9/17/2019 15:04     | Conductivity                  | 550.89       | uS/cm       |
| GN-AP-MW-23S   | 9/17/2019 15:04     | DO                            | 0.65         | mg/L        |
| GN-AP-MW-23S   | 9/17/2019 15:04     | Depth to Water Detail         | 15.77        | ft          |
| GN-AP-MW-23S   | 9/17/2019 15:04     | Oxidation Reduction Potention | 16.85        | mv          |
| GN-AP-MW-23S   | 9/17/2019 15:04     | pH                            | 6.83         | pH          |
| GN-AP-MW-23S   | 9/17/2019 15:04     | Temperature                   | 24.51        | C           |
| GN-AP-MW-23S   | 9/17/2019 15:04     | Turbidity                     | 7.77         | NTU         |
| GN-AP-MW-23S   | 9/17/2019 15:09     | Conductivity                  | 559.31       | uS/cm       |
| GN-AP-MW-23S   | 9/17/2019 15:09     | DO                            | 0.6          | mg/L        |
| GN-AP-MW-23S   | 9/17/2019 15:09     | Depth to Water Detail         | 15.77        | ft          |
| GN-AP-MW-23S   | 9/17/2019 15:09     | Oxidation Reduction Potention | 12.17        | mv          |
| GN-AP-MW-23S   | 9/17/2019 15:09     | pH                            | 6.86         | pH          |
| GN-AP-MW-23S   | 9/17/2019 15:09     | Temperature                   | 24.04        | C           |
| GN-AP-MW-23S   | 9/17/2019 15:09     | Turbidity                     | 6.06         | NTU         |
| GN-AP-MW-23S   | 9/17/2019 15:14     | Conductivity                  | 560.95       | uS/cm       |
| GN-AP-MW-23S   | 9/17/2019 15:14     | DO                            | 0.58         | mg/L        |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-23S   | 9/17/2019 15:14     | Depth to Water Detail         | 15.77        | ft          |
| GN-AP-MW-23S   | 9/17/2019 15:14     | Oxidation Reduction Potention | 8.73         | mv          |
| GN-AP-MW-23S   | 9/17/2019 15:14     | pH                            | 6.87         | pH          |
| GN-AP-MW-23S   | 9/17/2019 15:14     | Temperature                   | 24.49        | C           |
| GN-AP-MW-23S   | 9/17/2019 15:14     | Turbidity                     | 5.68         | NTU         |
| GN-AP-MW-23S   | 9/17/2019 15:19     | Conductivity                  | 562.93       | uS/cm       |
| GN-AP-MW-23S   | 9/17/2019 15:19     | DO                            | 0.59         | mg/L        |
| GN-AP-MW-23S   | 9/17/2019 15:19     | Depth to Water Detail         | 15.77        | ft          |
| GN-AP-MW-23S   | 9/17/2019 15:19     | Oxidation Reduction Potention | 6.23         | mv          |
| GN-AP-MW-23S   | 9/17/2019 15:19     | pH                            | 6.88         | pH          |
| GN-AP-MW-23S   | 9/17/2019 15:19     | Temperature                   | 24.64        | C           |
| GN-AP-MW-23S   | 9/17/2019 15:19     | Turbidity                     | 4.98         | NTU         |

**Alabama Power Company  
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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-26    | 9/18/2019 15:24     | Conductivity                  | 667.57       | uS/cm       |
| GN-AP-MW-26    | 9/18/2019 15:24     | DO                            | 1.31         | mg/L        |
| GN-AP-MW-26    | 9/18/2019 15:24     | Depth to Water Detail         | 13.47        | ft          |
| GN-AP-MW-26    | 9/18/2019 15:24     | Oxidation Reduction Potention | 10.36        | mv          |
| GN-AP-MW-26    | 9/18/2019 15:24     | pH                            | 7.6          | pH          |
| GN-AP-MW-26    | 9/18/2019 15:24     | Temperature                   | 22.52        | C           |
| GN-AP-MW-26    | 9/18/2019 15:24     | Turbidity                     | 10.81        | NTU         |
| GN-AP-MW-26    | 9/18/2019 15:29     | Conductivity                  | 667.6        | uS/cm       |
| GN-AP-MW-26    | 9/18/2019 15:29     | DO                            | 0.98         | mg/L        |
| GN-AP-MW-26    | 9/18/2019 15:29     | Depth to Water Detail         | 13.65        | ft          |
| GN-AP-MW-26    | 9/18/2019 15:29     | Oxidation Reduction Potention | 5.93         | mv          |
| GN-AP-MW-26    | 9/18/2019 15:29     | pH                            | 7.57         | pH          |
| GN-AP-MW-26    | 9/18/2019 15:29     | Temperature                   | 22.17        | C           |
| GN-AP-MW-26    | 9/18/2019 15:29     | Turbidity                     | 10.01        | NTU         |
| GN-AP-MW-26    | 9/18/2019 15:34     | Conductivity                  | 667.86       | uS/cm       |
| GN-AP-MW-26    | 9/18/2019 15:34     | DO                            | 0.84         | mg/L        |
| GN-AP-MW-26    | 9/18/2019 15:34     | Depth to Water Detail         | 13.75        | ft          |
| GN-AP-MW-26    | 9/18/2019 15:34     | Oxidation Reduction Potention | 2.58         | mv          |
| GN-AP-MW-26    | 9/18/2019 15:34     | pH                            | 7.55         | pH          |
| GN-AP-MW-26    | 9/18/2019 15:34     | Temperature                   | 22.1         | C           |
| GN-AP-MW-26    | 9/18/2019 15:34     | Turbidity                     | 9.71         | NTU         |
| GN-AP-MW-26    | 9/18/2019 15:39     | Conductivity                  | 668.99       | uS/cm       |
| GN-AP-MW-26    | 9/18/2019 15:39     | DO                            | 0.75         | mg/L        |
| GN-AP-MW-26    | 9/18/2019 15:39     | Depth to Water Detail         | 13.85        | ft          |
| GN-AP-MW-26    | 9/18/2019 15:39     | Oxidation Reduction Potention | -0.74        | mv          |
| GN-AP-MW-26    | 9/18/2019 15:39     | pH                            | 7.52         | pH          |
| GN-AP-MW-26    | 9/18/2019 15:39     | Temperature                   | 22.02        | C           |
| GN-AP-MW-26    | 9/18/2019 15:39     | Turbidity                     | 9.04         | NTU         |
| GN-AP-MW-26    | 9/18/2019 15:44     | Conductivity                  | 672.05       | uS/cm       |
| GN-AP-MW-26    | 9/18/2019 15:44     | DO                            | 0.69         | mg/L        |
| GN-AP-MW-26    | 9/18/2019 15:44     | Depth to Water Detail         | 13.9         | ft          |
| GN-AP-MW-26    | 9/18/2019 15:44     | Oxidation Reduction Potention | -3.25        | mv          |
| GN-AP-MW-26    | 9/18/2019 15:44     | pH                            | 7.49         | pH          |
| GN-AP-MW-26    | 9/18/2019 15:44     | Temperature                   | 21.96        | C           |
| GN-AP-MW-26    | 9/18/2019 15:44     | Turbidity                     | 8.23         | NTU         |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-27    | 9/18/2019 17:01     | Conductivity                  | 412.93       | uS/cm       |
| GN-AP-MW-27    | 9/18/2019 17:01     | DO                            | 2.41         | mg/L        |
| GN-AP-MW-27    | 9/18/2019 17:01     | Depth to Water Detail         | 14.62        | ft          |
| GN-AP-MW-27    | 9/18/2019 17:01     | Oxidation Reduction Potention | 107.97       | mv          |
| GN-AP-MW-27    | 9/18/2019 17:01     | pH                            | 6.7          | pH          |
| GN-AP-MW-27    | 9/18/2019 17:01     | Temperature                   | 22.15        | C           |
| GN-AP-MW-27    | 9/18/2019 17:01     | Turbidity                     | 6.41         | NTU         |
| GN-AP-MW-27    | 9/18/2019 17:06     | Conductivity                  | 507.61       | uS/cm       |
| GN-AP-MW-27    | 9/18/2019 17:06     | DO                            | 2.52         | mg/L        |
| GN-AP-MW-27    | 9/18/2019 17:06     | Depth to Water Detail         | 14.62        | ft          |
| GN-AP-MW-27    | 9/18/2019 17:06     | Oxidation Reduction Potention | 125.57       | mv          |
| GN-AP-MW-27    | 9/18/2019 17:06     | pH                            | 6.43         | pH          |
| GN-AP-MW-27    | 9/18/2019 17:06     | Temperature                   | 22.06        | C           |
| GN-AP-MW-27    | 9/18/2019 17:06     | Turbidity                     | 52.2         | NTU         |
| GN-AP-MW-27    | 9/18/2019 17:11     | Conductivity                  | 555.91       | uS/cm       |
| GN-AP-MW-27    | 9/18/2019 17:11     | DO                            | 2.37         | mg/L        |
| GN-AP-MW-27    | 9/18/2019 17:11     | Depth to Water Detail         | 14.62        | ft          |
| GN-AP-MW-27    | 9/18/2019 17:11     | Oxidation Reduction Potention | 137.76       | mv          |
| GN-AP-MW-27    | 9/18/2019 17:11     | pH                            | 6.32         | pH          |
| GN-AP-MW-27    | 9/18/2019 17:11     | Temperature                   | 21.78        | C           |
| GN-AP-MW-27    | 9/18/2019 17:11     | Turbidity                     | 47.3         | NTU         |
| GN-AP-MW-27    | 9/18/2019 17:16     | Conductivity                  | 592.77       | uS/cm       |
| GN-AP-MW-27    | 9/18/2019 17:16     | DO                            | 2.15         | mg/L        |
| GN-AP-MW-27    | 9/18/2019 17:16     | Depth to Water Detail         | 14.62        | ft          |
| GN-AP-MW-27    | 9/18/2019 17:16     | Oxidation Reduction Potention | 140.61       | mv          |
| GN-AP-MW-27    | 9/18/2019 17:16     | pH                            | 6.35         | pH          |
| GN-AP-MW-27    | 9/18/2019 17:16     | Temperature                   | 21.41        | C           |
| GN-AP-MW-27    | 9/18/2019 17:16     | Turbidity                     | 31.3         | NTU         |
| GN-AP-MW-27    | 9/18/2019 17:21     | Conductivity                  | 613.55       | uS/cm       |
| GN-AP-MW-27    | 9/18/2019 17:21     | DO                            | 1.99         | mg/L        |
| GN-AP-MW-27    | 9/18/2019 17:21     | Depth to Water Detail         | 14.62        | ft          |
| GN-AP-MW-27    | 9/18/2019 17:21     | Oxidation Reduction Potention | 137.76       | mv          |
| GN-AP-MW-27    | 9/18/2019 17:21     | pH                            | 6.45         | pH          |
| GN-AP-MW-27    | 9/18/2019 17:21     | Temperature                   | 21.48        | C           |
| GN-AP-MW-27    | 9/18/2019 17:21     | Turbidity                     | 22.8         | NTU         |
| GN-AP-MW-27    | 9/18/2019 17:26     | Conductivity                  | 628.97       | uS/cm       |
| GN-AP-MW-27    | 9/18/2019 17:26     | DO                            | 1.85         | mg/L        |
| GN-AP-MW-27    | 9/18/2019 17:26     | Depth to Water Detail         | 14.62        | ft          |
| GN-AP-MW-27    | 9/18/2019 17:26     | Oxidation Reduction Potention | 133.75       | mv          |
| GN-AP-MW-27    | 9/18/2019 17:26     | pH                            | 6.55         | pH          |
| GN-AP-MW-27    | 9/18/2019 17:26     | Temperature                   | 21.39        | C           |
| GN-AP-MW-27    | 9/18/2019 17:26     | Turbidity                     | 15.8         | NTU         |
| GN-AP-MW-27    | 9/18/2019 17:31     | Conductivity                  | 639.01       | uS/cm       |
| GN-AP-MW-27    | 9/18/2019 17:31     | DO                            | 1.79         | mg/L        |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-27    | 9/18/2019 17:31     | Depth to Water Detail         | 14.62        | ft          |
| GN-AP-MW-27    | 9/18/2019 17:31     | Oxidation Reduction Potention | 132.14       | mv          |
| GN-AP-MW-27    | 9/18/2019 17:31     | pH                            | 6.61         | pH          |
| GN-AP-MW-27    | 9/18/2019 17:31     | Temperature                   | 21.35        | C           |
| GN-AP-MW-27    | 9/18/2019 17:31     | Turbidity                     | 12.4         | NTU         |
| GN-AP-MW-27    | 9/18/2019 17:36     | Conductivity                  | 653.13       | uS/cm       |
| GN-AP-MW-27    | 9/18/2019 17:36     | DO                            | 1.67         | mg/L        |
| GN-AP-MW-27    | 9/18/2019 17:36     | Depth to Water Detail         | 14.62        | ft          |
| GN-AP-MW-27    | 9/18/2019 17:36     | Oxidation Reduction Potention | 131.04       | mv          |
| GN-AP-MW-27    | 9/18/2019 17:36     | pH                            | 6.65         | pH          |
| GN-AP-MW-27    | 9/18/2019 17:36     | Temperature                   | 21.24        | C           |
| GN-AP-MW-27    | 9/18/2019 17:36     | Turbidity                     | 9.29         | NTU         |
| GN-AP-MW-27    | 9/18/2019 17:41     | Conductivity                  | 656.16       | uS/cm       |
| GN-AP-MW-27    | 9/18/2019 17:41     | DO                            | 1.64         | mg/L        |
| GN-AP-MW-27    | 9/18/2019 17:41     | Depth to Water Detail         | 14.62        | ft          |
| GN-AP-MW-27    | 9/18/2019 17:41     | Oxidation Reduction Potention | 131.15       | mv          |
| GN-AP-MW-27    | 9/18/2019 17:41     | pH                            | 6.66         | pH          |
| GN-AP-MW-27    | 9/18/2019 17:41     | Temperature                   | 21.19        | C           |
| GN-AP-MW-27    | 9/18/2019 17:41     | Turbidity                     | 6.64         | NTU         |
| GN-AP-MW-27    | 9/18/2019 17:46     | Conductivity                  | 661.96       | uS/cm       |
| GN-AP-MW-27    | 9/18/2019 17:46     | DO                            | 1.57         | mg/L        |
| GN-AP-MW-27    | 9/18/2019 17:46     | Depth to Water Detail         | 14.62        | ft          |
| GN-AP-MW-27    | 9/18/2019 17:46     | Oxidation Reduction Potention | 131.26       | mv          |
| GN-AP-MW-27    | 9/18/2019 17:46     | pH                            | 6.68         | pH          |
| GN-AP-MW-27    | 9/18/2019 17:46     | Temperature                   | 21.24        | C           |
| GN-AP-MW-27    | 9/18/2019 17:46     | Turbidity                     | 4.93         | NTU         |



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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-28H   | 9/16/2019 16:44     | Conductivity                  | 431.84       | uS/cm       |
| GN-AP-MW-28H   | 9/16/2019 16:44     | DO                            | 0.05         | mg/L        |
| GN-AP-MW-28H   | 9/16/2019 16:44     | Depth to Water Detail         | 10           | ft          |
| GN-AP-MW-28H   | 9/16/2019 16:44     | Oxidation Reduction Potention | -226.34      | mv          |
| GN-AP-MW-28H   | 9/16/2019 16:44     | pH                            | 8.36         | pH          |
| GN-AP-MW-28H   | 9/16/2019 16:44     | Temperature                   | 22.52        | C           |
| GN-AP-MW-28H   | 9/16/2019 16:44     | Turbidity                     | 10.9         | NTU         |
| GN-AP-MW-28H   | 9/16/2019 16:49     | Conductivity                  | 431.11       | uS/cm       |
| GN-AP-MW-28H   | 9/16/2019 16:49     | DO                            | 0.08         | mg/L        |
| GN-AP-MW-28H   | 9/16/2019 16:49     | Depth to Water Detail         | 10.43        | ft          |
| GN-AP-MW-28H   | 9/16/2019 16:49     | Oxidation Reduction Potention | -228.2       | mv          |
| GN-AP-MW-28H   | 9/16/2019 16:49     | pH                            | 8.3          | pH          |
| GN-AP-MW-28H   | 9/16/2019 16:49     | Temperature                   | 22.43        | C           |
| GN-AP-MW-28H   | 9/16/2019 16:49     | Turbidity                     | 8.53         | NTU         |
| GN-AP-MW-28H   | 9/16/2019 16:54     | Conductivity                  | 430.77       | uS/cm       |
| GN-AP-MW-28H   | 9/16/2019 16:54     | DO                            | 0.1          | mg/L        |
| GN-AP-MW-28H   | 9/16/2019 16:54     | Depth to Water Detail         | 10.92        | ft          |
| GN-AP-MW-28H   | 9/16/2019 16:54     | Oxidation Reduction Potention | -222.97      | mv          |
| GN-AP-MW-28H   | 9/16/2019 16:54     | pH                            | 8.24         | pH          |
| GN-AP-MW-28H   | 9/16/2019 16:54     | Temperature                   | 22.47        | C           |
| GN-AP-MW-28H   | 9/16/2019 16:54     | Turbidity                     | 9.51         | NTU         |
| GN-AP-MW-28H   | 9/16/2019 16:59     | Conductivity                  | 431.56       | uS/cm       |
| GN-AP-MW-28H   | 9/16/2019 16:59     | DO                            | 0.11         | mg/L        |
| GN-AP-MW-28H   | 9/16/2019 16:59     | Depth to Water Detail         | 10.95        | ft          |
| GN-AP-MW-28H   | 9/16/2019 16:59     | Oxidation Reduction Potention | -218.44      | mv          |
| GN-AP-MW-28H   | 9/16/2019 16:59     | pH                            | 8.2          | pH          |
| GN-AP-MW-28H   | 9/16/2019 16:59     | Temperature                   | 22.36        | C           |
| GN-AP-MW-28H   | 9/16/2019 16:59     | Turbidity                     | 7.13         | NTU         |
| GN-AP-MW-28H   | 9/16/2019 17:04     | Conductivity                  | 430.81       | uS/cm       |
| GN-AP-MW-28H   | 9/16/2019 17:04     | DO                            | 0.11         | mg/L        |
| GN-AP-MW-28H   | 9/16/2019 17:04     | Depth to Water Detail         | 11.1         | ft          |
| GN-AP-MW-28H   | 9/16/2019 17:04     | Oxidation Reduction Potention | -218.02      | mv          |
| GN-AP-MW-28H   | 9/16/2019 17:04     | pH                            | 8.22         | pH          |
| GN-AP-MW-28H   | 9/16/2019 17:04     | Temperature                   | 22.27        | C           |
| GN-AP-MW-28H   | 9/16/2019 17:04     | Turbidity                     | 6.46         | NTU         |

**Alabama Power Company  
Plant Gaston Ash Pond**

| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-20    | 9/18/2019 11:29     | Conductivity                  | 1155.11      | uS/cm       |
| GN-AP-MW-20    | 9/18/2019 11:29     | DO                            | 0.66         | mg/L        |
| GN-AP-MW-20    | 9/18/2019 11:29     | Depth to Water Detail         | 9.9          | ft          |
| GN-AP-MW-20    | 9/18/2019 11:29     | Oxidation Reduction Potention | -28.8        | mv          |
| GN-AP-MW-20    | 9/18/2019 11:29     | pH                            | 7.9          | pH          |
| GN-AP-MW-20    | 9/18/2019 11:29     | Temperature                   | 22.7         | C           |
| GN-AP-MW-20    | 9/18/2019 11:29     | Turbidity                     | 0.44         | NTU         |
| GN-AP-MW-20    | 9/18/2019 11:34     | Conductivity                  | 1145.62      | uS/cm       |
| GN-AP-MW-20    | 9/18/2019 11:34     | DO                            | 0.39         | mg/L        |
| GN-AP-MW-20    | 9/18/2019 11:34     | Depth to Water Detail         | 9.95         | ft          |
| GN-AP-MW-20    | 9/18/2019 11:34     | Oxidation Reduction Potention | -58.16       | mv          |
| GN-AP-MW-20    | 9/18/2019 11:34     | pH                            | 7.9          | pH          |
| GN-AP-MW-20    | 9/18/2019 11:34     | Temperature                   | 22.62        | C           |
| GN-AP-MW-20    | 9/18/2019 11:34     | Turbidity                     | 0.81         | NTU         |
| GN-AP-MW-20    | 9/18/2019 11:39     | Conductivity                  | 1128.85      | uS/cm       |
| GN-AP-MW-20    | 9/18/2019 11:39     | DO                            | 0.27         | mg/L        |
| GN-AP-MW-20    | 9/18/2019 11:39     | Depth to Water Detail         | 10.07        | ft          |
| GN-AP-MW-20    | 9/18/2019 11:39     | Oxidation Reduction Potention | -75.81       | mv          |
| GN-AP-MW-20    | 9/18/2019 11:39     | pH                            | 7.9          | pH          |
| GN-AP-MW-20    | 9/18/2019 11:39     | Temperature                   | 22.57        | C           |
| GN-AP-MW-20    | 9/18/2019 11:39     | Turbidity                     | 0.32         | NTU         |
| GN-AP-MW-20    | 9/18/2019 11:44     | Conductivity                  | 1130.1       | uS/cm       |
| GN-AP-MW-20    | 9/18/2019 11:44     | DO                            | 0.19         | mg/L        |
| GN-AP-MW-20    | 9/18/2019 11:44     | Depth to Water Detail         | 10.07        | ft          |
| GN-AP-MW-20    | 9/18/2019 11:44     | Oxidation Reduction Potention | -85.6        | mv          |
| GN-AP-MW-20    | 9/18/2019 11:44     | pH                            | 7.9          | pH          |
| GN-AP-MW-20    | 9/18/2019 11:44     | Temperature                   | 22.46        | C           |
| GN-AP-MW-20    | 9/18/2019 11:44     | Turbidity                     | 0.33         | NTU         |

**Alabama Power Company  
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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-20SV  | 9/18/2019 12:18     | Conductivity                  | 927.5        | uS/cm       |
| GN-AP-MW-20SV  | 9/18/2019 12:18     | DO                            | 0.06         | mg/L        |
| GN-AP-MW-20SV  | 9/18/2019 12:18     | Depth to Water Detail         | 11.2         | ft          |
| GN-AP-MW-20SV  | 9/18/2019 12:18     | Oxidation Reduction Potention | -161.08      | mv          |
| GN-AP-MW-20SV  | 9/18/2019 12:18     | pH                            | 7.23         | pH          |
| GN-AP-MW-20SV  | 9/18/2019 12:18     | Temperature                   | 21.19        | C           |
| GN-AP-MW-20SV  | 9/18/2019 12:18     | Turbidity                     | 33.3         | NTU         |
| GN-AP-MW-20SV  | 9/18/2019 12:23     | Conductivity                  | 925.69       | uS/cm       |
| GN-AP-MW-20SV  | 9/18/2019 12:23     | DO                            | 0.04         | mg/L        |
| GN-AP-MW-20SV  | 9/18/2019 12:23     | Depth to Water Detail         | 11.3         | ft          |
| GN-AP-MW-20SV  | 9/18/2019 12:23     | Oxidation Reduction Potention | -161.69      | mv          |
| GN-AP-MW-20SV  | 9/18/2019 12:23     | pH                            | 7.21         | pH          |
| GN-AP-MW-20SV  | 9/18/2019 12:23     | Temperature                   | 21.13        | C           |
| GN-AP-MW-20SV  | 9/18/2019 12:23     | Turbidity                     | 24.4         | NTU         |
| GN-AP-MW-20SV  | 9/18/2019 12:28     | Conductivity                  | 915.94       | uS/cm       |
| GN-AP-MW-20SV  | 9/18/2019 12:28     | DO                            | 0.04         | mg/L        |
| GN-AP-MW-20SV  | 9/18/2019 12:28     | Depth to Water Detail         | 11.33        | ft          |
| GN-AP-MW-20SV  | 9/18/2019 12:28     | Oxidation Reduction Potention | -161.85      | mv          |
| GN-AP-MW-20SV  | 9/18/2019 12:28     | pH                            | 7.21         | pH          |
| GN-AP-MW-20SV  | 9/18/2019 12:28     | Temperature                   | 20.93        | C           |
| GN-AP-MW-20SV  | 9/18/2019 12:28     | Turbidity                     | 14.9         | NTU         |
| GN-AP-MW-20SV  | 9/18/2019 12:33     | Conductivity                  | 913.82       | uS/cm       |
| GN-AP-MW-20SV  | 9/18/2019 12:33     | DO                            | 0.04         | mg/L        |
| GN-AP-MW-20SV  | 9/18/2019 12:33     | Depth to Water Detail         | 11.45        | ft          |
| GN-AP-MW-20SV  | 9/18/2019 12:33     | Oxidation Reduction Potention | -160.71      | mv          |
| GN-AP-MW-20SV  | 9/18/2019 12:33     | pH                            | 7.19         | pH          |
| GN-AP-MW-20SV  | 9/18/2019 12:33     | Temperature                   | 20.75        | C           |
| GN-AP-MW-20SV  | 9/18/2019 12:33     | Turbidity                     | 11.02        | NTU         |
| GN-AP-MW-20SV  | 9/18/2019 12:38     | Conductivity                  | 912.12       | uS/cm       |
| GN-AP-MW-20SV  | 9/18/2019 12:38     | DO                            | 0.04         | mg/L        |
| GN-AP-MW-20SV  | 9/18/2019 12:38     | Depth to Water Detail         | 11.45        | ft          |
| GN-AP-MW-20SV  | 9/18/2019 12:38     | Oxidation Reduction Potention | -158.43      | mv          |
| GN-AP-MW-20SV  | 9/18/2019 12:38     | pH                            | 7.16         | pH          |
| GN-AP-MW-20SV  | 9/18/2019 12:38     | Temperature                   | 20.85        | C           |
| GN-AP-MW-20SV  | 9/18/2019 12:38     | Turbidity                     | 8.12         | NTU         |
| GN-AP-MW-20SV  | 9/18/2019 12:43     | Conductivity                  | 907.19       | uS/cm       |
| GN-AP-MW-20SV  | 9/18/2019 12:43     | DO                            | 0.04         | mg/L        |
| GN-AP-MW-20SV  | 9/18/2019 12:43     | Depth to Water Detail         | 11.45        | ft          |
| GN-AP-MW-20SV  | 9/18/2019 12:43     | Oxidation Reduction Potention | -156.49      | mv          |
| GN-AP-MW-20SV  | 9/18/2019 12:43     | pH                            | 7.14         | pH          |
| GN-AP-MW-20SV  | 9/18/2019 12:43     | Temperature                   | 20.77        | C           |
| GN-AP-MW-20SV  | 9/18/2019 12:43     | Turbidity                     | 7.92         | NTU         |

**Alabama Power Company  
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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-20V   | 9/18/2019 13:11     | Conductivity                  | 1003.23      | uS/cm       |
| GN-AP-MW-20V   | 9/18/2019 13:11     | DO                            | 0.03         | mg/L        |
| GN-AP-MW-20V   | 9/18/2019 13:11     | Depth to Water Detail         | 10.88        | ft          |
| GN-AP-MW-20V   | 9/18/2019 13:11     | Oxidation Reduction Potention | -207.73      | mv          |
| GN-AP-MW-20V   | 9/18/2019 13:11     | pH                            | 8.26         | pH          |
| GN-AP-MW-20V   | 9/18/2019 13:11     | Temperature                   | 21.79        | C           |
| GN-AP-MW-20V   | 9/18/2019 13:11     | Turbidity                     | 6.32         | NTU         |
| GN-AP-MW-20V   | 9/18/2019 13:16     | Conductivity                  | 999.93       | uS/cm       |
| GN-AP-MW-20V   | 9/18/2019 13:16     | DO                            | 0.04         | mg/L        |
| GN-AP-MW-20V   | 9/18/2019 13:16     | Depth to Water Detail         | 12.67        | ft          |
| GN-AP-MW-20V   | 9/18/2019 13:16     | Oxidation Reduction Potention | -226.85      | mv          |
| GN-AP-MW-20V   | 9/18/2019 13:16     | pH                            | 8.26         | pH          |
| GN-AP-MW-20V   | 9/18/2019 13:16     | Temperature                   | 21.55        | C           |
| GN-AP-MW-20V   | 9/18/2019 13:16     | Turbidity                     | 4.67         | NTU         |
| GN-AP-MW-20V   | 9/18/2019 13:21     | Conductivity                  | 1000.89      | uS/cm       |
| GN-AP-MW-20V   | 9/18/2019 13:21     | DO                            | 0.07         | mg/L        |
| GN-AP-MW-20V   | 9/18/2019 13:21     | Depth to Water Detail         | 13.4         | ft          |
| GN-AP-MW-20V   | 9/18/2019 13:21     | Oxidation Reduction Potention | -236.41      | mv          |
| GN-AP-MW-20V   | 9/18/2019 13:21     | pH                            | 8.29         | pH          |
| GN-AP-MW-20V   | 9/18/2019 13:21     | Temperature                   | 21.59        | C           |
| GN-AP-MW-20V   | 9/18/2019 13:21     | Turbidity                     | 4.72         | NTU         |
| GN-AP-MW-20V   | 9/18/2019 13:26     | Conductivity                  | 997.81       | uS/cm       |
| GN-AP-MW-20V   | 9/18/2019 13:26     | DO                            | 0.09         | mg/L        |
| GN-AP-MW-20V   | 9/18/2019 13:26     | Depth to Water Detail         | 14.68        | ft          |
| GN-AP-MW-20V   | 9/18/2019 13:26     | Oxidation Reduction Potention | -241.32      | mv          |
| GN-AP-MW-20V   | 9/18/2019 13:26     | pH                            | 8.3          | pH          |
| GN-AP-MW-20V   | 9/18/2019 13:26     | Temperature                   | 21.37        | C           |
| GN-AP-MW-20V   | 9/18/2019 13:26     | Turbidity                     | 6.94         | NTU         |
| GN-AP-MW-20V   | 9/18/2019 13:31     | Conductivity                  | 995.73       | uS/cm       |
| GN-AP-MW-20V   | 9/18/2019 13:31     | DO                            | 0.09         | mg/L        |
| GN-AP-MW-20V   | 9/18/2019 13:31     | Depth to Water Detail         | 15.25        | ft          |
| GN-AP-MW-20V   | 9/18/2019 13:31     | Oxidation Reduction Potention | -243.99      | mv          |
| GN-AP-MW-20V   | 9/18/2019 13:31     | pH                            | 8.31         | pH          |
| GN-AP-MW-20V   | 9/18/2019 13:31     | Temperature                   | 21.2         | C           |
| GN-AP-MW-20V   | 9/18/2019 13:31     | Turbidity                     | 6.82         | NTU         |
| GN-AP-MW-20V   | 9/18/2019 13:36     | Conductivity                  | 995.47       | uS/cm       |
| GN-AP-MW-20V   | 9/18/2019 13:36     | DO                            | 0.1          | mg/L        |
| GN-AP-MW-20V   | 9/18/2019 13:36     | Depth to Water Detail         | 15.9         | ft          |
| GN-AP-MW-20V   | 9/18/2019 13:36     | Oxidation Reduction Potention | -245.85      | mv          |
| GN-AP-MW-20V   | 9/18/2019 13:36     | pH                            | 8.33         | pH          |
| GN-AP-MW-20V   | 9/18/2019 13:36     | Temperature                   | 21.24        | C           |
| GN-AP-MW-20V   | 9/18/2019 13:36     | Turbidity                     | 6.32         | NTU         |
| GN-AP-MW-20V   | 9/18/2019 13:41     | Conductivity                  | 993.01       | uS/cm       |
| GN-AP-MW-20V   | 9/18/2019 13:41     | DO                            | 0.1          | mg/L        |

**Alabama Power Company  
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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-20V   | 9/18/2019 13:41     | Depth to Water Detail         | 16.3         | ft          |
| GN-AP-MW-20V   | 9/18/2019 13:41     | Oxidation Reduction Potention | -246.23      | mv          |
| GN-AP-MW-20V   | 9/18/2019 13:41     | pH                            | 8.32         | pH          |
| GN-AP-MW-20V   | 9/18/2019 13:41     | Temperature                   | 21.04        | C           |
| GN-AP-MW-20V   | 9/18/2019 13:41     | Turbidity                     | 5.19         | NTU         |
| GN-AP-MW-20V   | 9/18/2019 13:46     | Conductivity                  | 992.39       | uS/cm       |
| GN-AP-MW-20V   | 9/18/2019 13:46     | DO                            | 0.1          | mg/L        |
| GN-AP-MW-20V   | 9/18/2019 13:46     | Depth to Water Detail         | 16.55        | ft          |
| GN-AP-MW-20V   | 9/18/2019 13:46     | Oxidation Reduction Potention | -246.61      | mv          |
| GN-AP-MW-20V   | 9/18/2019 13:46     | pH                            | 8.33         | pH          |
| GN-AP-MW-20V   | 9/18/2019 13:46     | Temperature                   | 20.83        | C           |
| GN-AP-MW-20V   | 9/18/2019 13:46     | Turbidity                     | 4.84         | NTU         |
| GN-AP-MW-20V   | 9/18/2019 13:51     | Conductivity                  | 993.92       | uS/cm       |
| GN-AP-MW-20V   | 9/18/2019 13:51     | DO                            | 0.1          | mg/L        |
| GN-AP-MW-20V   | 9/18/2019 13:51     | Depth to Water Detail         | 16.85        | ft          |
| GN-AP-MW-20V   | 9/18/2019 13:51     | Oxidation Reduction Potention | -246.42      | mv          |
| GN-AP-MW-20V   | 9/18/2019 13:51     | pH                            | 8.32         | pH          |
| GN-AP-MW-20V   | 9/18/2019 13:51     | Temperature                   | 20.79        | C           |
| GN-AP-MW-20V   | 9/18/2019 13:51     | Turbidity                     | 4.3          | NTU         |
| GN-AP-MW-20V   | 9/18/2019 13:56     | Conductivity                  | 989.99       | uS/cm       |
| GN-AP-MW-20V   | 9/18/2019 13:56     | DO                            | 0.1          | mg/L        |
| GN-AP-MW-20V   | 9/18/2019 13:56     | Depth to Water Detail         | 17           | ft          |
| GN-AP-MW-20V   | 9/18/2019 13:56     | Oxidation Reduction Potention | -246.36      | mv          |
| GN-AP-MW-20V   | 9/18/2019 13:56     | pH                            | 8.32         | pH          |
| GN-AP-MW-20V   | 9/18/2019 13:56     | Temperature                   | 21           | C           |
| GN-AP-MW-20V   | 9/18/2019 13:56     | Turbidity                     | 3.69         | NTU         |
| GN-AP-MW-20V   | 9/18/2019 14:01     | Conductivity                  | 988.02       | uS/cm       |
| GN-AP-MW-20V   | 9/18/2019 14:01     | DO                            | 0.1          | mg/L        |
| GN-AP-MW-20V   | 9/18/2019 14:01     | Depth to Water Detail         | 17.18        | ft          |
| GN-AP-MW-20V   | 9/18/2019 14:01     | Oxidation Reduction Potention | -246.08      | mv          |
| GN-AP-MW-20V   | 9/18/2019 14:01     | pH                            | 8.32         | pH          |
| GN-AP-MW-20V   | 9/18/2019 14:01     | Temperature                   | 20.99        | C           |
| GN-AP-MW-20V   | 9/18/2019 14:01     | Turbidity                     | 4.87         | NTU         |
| GN-AP-MW-20V   | 9/18/2019 14:06     | Conductivity                  | 990.21       | uS/cm       |
| GN-AP-MW-20V   | 9/18/2019 14:06     | DO                            | 0.1          | mg/L        |
| GN-AP-MW-20V   | 9/18/2019 14:06     | Depth to Water Detail         | 17.34        | ft          |
| GN-AP-MW-20V   | 9/18/2019 14:06     | Oxidation Reduction Potention | -247.23      | mv          |
| GN-AP-MW-20V   | 9/18/2019 14:06     | pH                            | 8.32         | pH          |
| GN-AP-MW-20V   | 9/18/2019 14:06     | Temperature                   | 20.74        | C           |
| GN-AP-MW-20V   | 9/18/2019 14:06     | Turbidity                     | 5.69         | NTU         |
| GN-AP-MW-20V   | 9/18/2019 14:11     | Conductivity                  | 988.18       | uS/cm       |
| GN-AP-MW-20V   | 9/18/2019 14:11     | DO                            | 0.1          | mg/L        |
| GN-AP-MW-20V   | 9/18/2019 14:11     | Depth to Water Detail         | 17.45        | ft          |
| GN-AP-MW-20V   | 9/18/2019 14:11     | Oxidation Reduction Potention | -246.87      | mv          |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-20V   | 9/18/2019 14:11     | pH                            | 8.32         | pH          |
| GN-AP-MW-20V   | 9/18/2019 14:11     | Temperature                   | 20.82        | C           |
| GN-AP-MW-20V   | 9/18/2019 14:11     | Turbidity                     | 5.11         | NTU         |
| GN-AP-MW-20V   | 9/18/2019 14:16     | Conductivity                  | 989.3        | uS/cm       |
| GN-AP-MW-20V   | 9/18/2019 14:16     | DO                            | 0.1          | mg/L        |
| GN-AP-MW-20V   | 9/18/2019 14:16     | Depth to Water Detail         | 17.52        | ft          |
| GN-AP-MW-20V   | 9/18/2019 14:16     | Oxidation Reduction Potention | -246.87      | mv          |
| GN-AP-MW-20V   | 9/18/2019 14:16     | pH                            | 8.32         | pH          |
| GN-AP-MW-20V   | 9/18/2019 14:16     | Temperature                   | 21.1         | C           |
| GN-AP-MW-20V   | 9/18/2019 14:16     | Turbidity                     | 4.38         | NTU         |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-16    | 9/16/2019 15:52     | Conductivity                  | 450.75       | uS/cm       |
| GN-AP-MW-16    | 9/16/2019 15:52     | DO                            | 0.15         | mg/L        |
| GN-AP-MW-16    | 9/16/2019 15:52     | Depth to Water Detail         | 20.38        | ft          |
| GN-AP-MW-16    | 9/16/2019 15:52     | Oxidation Reduction Potention | -132.19      | mv          |
| GN-AP-MW-16    | 9/16/2019 15:52     | pH                            | 8.12         | pH          |
| GN-AP-MW-16    | 9/16/2019 15:52     | Temperature                   | 22.2         | C           |
| GN-AP-MW-16    | 9/16/2019 15:52     | Turbidity                     | 6.45         | NTU         |
| GN-AP-MW-16    | 9/16/2019 15:57     | Conductivity                  | 448.82       | uS/cm       |
| GN-AP-MW-16    | 9/16/2019 15:57     | DO                            | 0.14         | mg/L        |
| GN-AP-MW-16    | 9/16/2019 15:57     | Depth to Water Detail         | 20.38        | ft          |
| GN-AP-MW-16    | 9/16/2019 15:57     | Oxidation Reduction Potention | -142.91      | mv          |
| GN-AP-MW-16    | 9/16/2019 15:57     | pH                            | 7.94         | pH          |
| GN-AP-MW-16    | 9/16/2019 15:57     | Temperature                   | 22.11        | C           |
| GN-AP-MW-16    | 9/16/2019 15:57     | Turbidity                     | 3.63         | NTU         |
| GN-AP-MW-16    | 9/16/2019 16:02     | Conductivity                  | 450.22       | uS/cm       |
| GN-AP-MW-16    | 9/16/2019 16:02     | DO                            | 0.14         | mg/L        |
| GN-AP-MW-16    | 9/16/2019 16:02     | Depth to Water Detail         | 20.38        | ft          |
| GN-AP-MW-16    | 9/16/2019 16:02     | Oxidation Reduction Potention | -153.37      | mv          |
| GN-AP-MW-16    | 9/16/2019 16:02     | pH                            | 7.94         | pH          |
| GN-AP-MW-16    | 9/16/2019 16:02     | Temperature                   | 22.1         | C           |
| GN-AP-MW-16    | 9/16/2019 16:02     | Turbidity                     | 2.22         | NTU         |
| GN-AP-MW-16    | 9/16/2019 16:07     | Conductivity                  | 449.9        | uS/cm       |
| GN-AP-MW-16    | 9/16/2019 16:07     | DO                            | 0.13         | mg/L        |
| GN-AP-MW-16    | 9/16/2019 16:07     | Depth to Water Detail         | 20.38        | ft          |
| GN-AP-MW-16    | 9/16/2019 16:07     | Oxidation Reduction Potention | -160.07      | mv          |
| GN-AP-MW-16    | 9/16/2019 16:07     | pH                            | 7.94         | pH          |
| GN-AP-MW-16    | 9/16/2019 16:07     | Temperature                   | 22.07        | C           |
| GN-AP-MW-16    | 9/16/2019 16:07     | Turbidity                     | 1.71         | NTU         |

**Alabama Power Company  
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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-16V   | 9/16/2019 14:38     | Conductivity                  | 446.56       | uS/cm       |
| GN-AP-MW-16V   | 9/16/2019 14:38     | DO                            | 0.92         | mg/L        |
| GN-AP-MW-16V   | 9/16/2019 14:38     | Depth to Water Detail         | 13.36        | ft          |
| GN-AP-MW-16V   | 9/16/2019 14:38     | Oxidation Reduction Potention | 58.59        | mv          |
| GN-AP-MW-16V   | 9/16/2019 14:38     | pH                            | 8.44         | pH          |
| GN-AP-MW-16V   | 9/16/2019 14:38     | Temperature                   | 24.85        | C           |
| GN-AP-MW-16V   | 9/16/2019 14:38     | Turbidity                     | 14.9         | NTU         |
| GN-AP-MW-16V   | 9/16/2019 14:43     | Conductivity                  | 447.42       | uS/cm       |
| GN-AP-MW-16V   | 9/16/2019 14:43     | DO                            | 0.9          | mg/L        |
| GN-AP-MW-16V   | 9/16/2019 14:43     | Depth to Water Detail         | 13.42        | ft          |
| GN-AP-MW-16V   | 9/16/2019 14:43     | Oxidation Reduction Potention | 19.31        | mv          |
| GN-AP-MW-16V   | 9/16/2019 14:43     | pH                            | 8.23         | pH          |
| GN-AP-MW-16V   | 9/16/2019 14:43     | Temperature                   | 24.95        | C           |
| GN-AP-MW-16V   | 9/16/2019 14:43     | Turbidity                     | 8.85         | NTU         |
| GN-AP-MW-16V   | 9/16/2019 14:48     | Conductivity                  | 446.92       | uS/cm       |
| GN-AP-MW-16V   | 9/16/2019 14:48     | DO                            | 0.89         | mg/L        |
| GN-AP-MW-16V   | 9/16/2019 14:48     | Depth to Water Detail         | 13.43        | ft          |
| GN-AP-MW-16V   | 9/16/2019 14:48     | Oxidation Reduction Potention | -3.81        | mv          |
| GN-AP-MW-16V   | 9/16/2019 14:48     | pH                            | 8.25         | pH          |
| GN-AP-MW-16V   | 9/16/2019 14:48     | Temperature                   | 24.77        | C           |
| GN-AP-MW-16V   | 9/16/2019 14:48     | Turbidity                     | 8.54         | NTU         |
| GN-AP-MW-16V   | 9/16/2019 14:53     | Conductivity                  | 446.37       | uS/cm       |
| GN-AP-MW-16V   | 9/16/2019 14:53     | DO                            | 0.87         | mg/L        |
| GN-AP-MW-16V   | 9/16/2019 14:53     | Depth to Water Detail         | 13.55        | ft          |
| GN-AP-MW-16V   | 9/16/2019 14:53     | Oxidation Reduction Potention | -22.34       | mv          |
| GN-AP-MW-16V   | 9/16/2019 14:53     | pH                            | 8.28         | pH          |
| GN-AP-MW-16V   | 9/16/2019 14:53     | Temperature                   | 24.67        | C           |
| GN-AP-MW-16V   | 9/16/2019 14:53     | Turbidity                     | 8.15         | NTU         |
| GN-AP-MW-16V   | 9/16/2019 14:58     | Conductivity                  | 445.98       | uS/cm       |
| GN-AP-MW-16V   | 9/16/2019 14:58     | DO                            | 0.87         | mg/L        |
| GN-AP-MW-16V   | 9/16/2019 14:58     | Depth to Water Detail         | 13.58        | ft          |
| GN-AP-MW-16V   | 9/16/2019 14:58     | Oxidation Reduction Potention | -34.28       | mv          |
| GN-AP-MW-16V   | 9/16/2019 14:58     | pH                            | 8.32         | pH          |
| GN-AP-MW-16V   | 9/16/2019 14:58     | Temperature                   | 24.46        | C           |
| GN-AP-MW-16V   | 9/16/2019 14:58     | Turbidity                     | 7.01         | NTU         |



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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-17    | 9/17/2019 16:51     | Conductivity                  | 847.31       | uS/cm       |
| GN-AP-MW-17    | 9/17/2019 16:51     | DO                            | 0.05         | mg/L        |
| GN-AP-MW-17    | 9/17/2019 16:51     | Depth to Water Detail         | 0            | ft          |
| GN-AP-MW-17    | 9/17/2019 16:51     | Oxidation Reduction Potention | -186.93      | mv          |
| GN-AP-MW-17    | 9/17/2019 16:51     | pH                            | 9.18         | pH          |
| GN-AP-MW-17    | 9/17/2019 16:51     | Temperature                   | 24.48        | C           |
| GN-AP-MW-17    | 9/17/2019 16:51     | Turbidity                     | 0.92         | NTU         |
| GN-AP-MW-17    | 9/17/2019 16:56     | Conductivity                  | 844.53       | uS/cm       |
| GN-AP-MW-17    | 9/17/2019 16:56     | DO                            | 0.05         | mg/L        |
| GN-AP-MW-17    | 9/17/2019 16:56     | Depth to Water Detail         | 0            | ft          |
| GN-AP-MW-17    | 9/17/2019 16:56     | Oxidation Reduction Potention | -189.3       | mv          |
| GN-AP-MW-17    | 9/17/2019 16:56     | pH                            | 9.17         | pH          |
| GN-AP-MW-17    | 9/17/2019 16:56     | Temperature                   | 24.37        | C           |
| GN-AP-MW-17    | 9/17/2019 16:56     | Turbidity                     | 0.38         | NTU         |
| GN-AP-MW-17    | 9/17/2019 17:01     | Conductivity                  | 842.3        | uS/cm       |
| GN-AP-MW-17    | 9/17/2019 17:01     | DO                            | 0.05         | mg/L        |
| GN-AP-MW-17    | 9/17/2019 17:01     | Depth to Water Detail         | 0            | ft          |
| GN-AP-MW-17    | 9/17/2019 17:01     | Oxidation Reduction Potention | -190.57      | mv          |
| GN-AP-MW-17    | 9/17/2019 17:01     | pH                            | 9.17         | pH          |
| GN-AP-MW-17    | 9/17/2019 17:01     | Temperature                   | 24.28        | C           |
| GN-AP-MW-17    | 9/17/2019 17:01     | Turbidity                     | 0.36         | NTU         |
| GN-AP-MW-17    | 9/17/2019 17:06     | Conductivity                  | 841.6        | uS/cm       |
| GN-AP-MW-17    | 9/17/2019 17:06     | DO                            | 0.05         | mg/L        |
| GN-AP-MW-17    | 9/17/2019 17:06     | Depth to Water Detail         | 0            | ft          |
| GN-AP-MW-17    | 9/17/2019 17:06     | Oxidation Reduction Potention | -192.46      | mv          |
| GN-AP-MW-17    | 9/17/2019 17:06     | pH                            | 9.18         | pH          |
| GN-AP-MW-17    | 9/17/2019 17:06     | Temperature                   | 24.24        | C           |
| GN-AP-MW-17    | 9/17/2019 17:06     | Turbidity                     | 0.32         | NTU         |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-17SV  | 9/18/2019 9:21      | Conductivity                  | 721.47       | uS/cm       |
| GN-AP-MW-17SV  | 9/18/2019 9:21      | DO                            | 0.17         | mg/L        |
| GN-AP-MW-17SV  | 9/18/2019 9:21      | Depth to Water Detail         | 8.98         | ft          |
| GN-AP-MW-17SV  | 9/18/2019 9:21      | Oxidation Reduction Potention | -102.93      | mv          |
| GN-AP-MW-17SV  | 9/18/2019 9:21      | pH                            | 7.25         | pH          |
| GN-AP-MW-17SV  | 9/18/2019 9:21      | Temperature                   | 22.07        | C           |
| GN-AP-MW-17SV  | 9/18/2019 9:21      | Turbidity                     | 5.03         | NTU         |
| GN-AP-MW-17SV  | 9/18/2019 9:26      | Conductivity                  | 722.04       | uS/cm       |
| GN-AP-MW-17SV  | 9/18/2019 9:26      | DO                            | 0.16         | mg/L        |
| GN-AP-MW-17SV  | 9/18/2019 9:26      | Depth to Water Detail         | 9            | ft          |
| GN-AP-MW-17SV  | 9/18/2019 9:26      | Oxidation Reduction Potention | -99.93       | mv          |
| GN-AP-MW-17SV  | 9/18/2019 9:26      | pH                            | 7.21         | pH          |
| GN-AP-MW-17SV  | 9/18/2019 9:26      | Temperature                   | 21.96        | C           |
| GN-AP-MW-17SV  | 9/18/2019 9:26      | Turbidity                     | 3.74         | NTU         |
| GN-AP-MW-17SV  | 9/18/2019 9:31      | Conductivity                  | 720.75       | uS/cm       |
| GN-AP-MW-17SV  | 9/18/2019 9:31      | DO                            | 0.14         | mg/L        |
| GN-AP-MW-17SV  | 9/18/2019 9:31      | Depth to Water Detail         | 9            | ft          |
| GN-AP-MW-17SV  | 9/18/2019 9:31      | Oxidation Reduction Potention | -98.68       | mv          |
| GN-AP-MW-17SV  | 9/18/2019 9:31      | pH                            | 7.17         | pH          |
| GN-AP-MW-17SV  | 9/18/2019 9:31      | Temperature                   | 21.96        | C           |
| GN-AP-MW-17SV  | 9/18/2019 9:31      | Turbidity                     | 2.79         | NTU         |
| GN-AP-MW-17SV  | 9/18/2019 9:36      | Conductivity                  | 720.21       | uS/cm       |
| GN-AP-MW-17SV  | 9/18/2019 9:36      | DO                            | 0.14         | mg/L        |
| GN-AP-MW-17SV  | 9/18/2019 9:36      | Depth to Water Detail         | 9            | ft          |
| GN-AP-MW-17SV  | 9/18/2019 9:36      | Oxidation Reduction Potention | -97.96       | mv          |
| GN-AP-MW-17SV  | 9/18/2019 9:36      | pH                            | 7.14         | pH          |
| GN-AP-MW-17SV  | 9/18/2019 9:36      | Temperature                   | 21.97        | C           |
| GN-AP-MW-17SV  | 9/18/2019 9:36      | Turbidity                     | 3.07         | NTU         |
| GN-AP-MW-17SV  | 9/18/2019 9:41      | Conductivity                  | 719.59       | uS/cm       |
| GN-AP-MW-17SV  | 9/18/2019 9:41      | DO                            | 0.14         | mg/L        |
| GN-AP-MW-17SV  | 9/18/2019 9:41      | Depth to Water Detail         | 9            | ft          |
| GN-AP-MW-17SV  | 9/18/2019 9:41      | Oxidation Reduction Potention | -98.49       | mv          |
| GN-AP-MW-17SV  | 9/18/2019 9:41      | pH                            | 7.13         | pH          |
| GN-AP-MW-17SV  | 9/18/2019 9:41      | Temperature                   | 22.03        | C           |
| GN-AP-MW-17SV  | 9/18/2019 9:41      | Turbidity                     | 2.18         | NTU         |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-17V   | 9/17/2019 13:00     | Conductivity                  | 686.77       | uS/cm       |
| GN-AP-MW-17V   | 9/17/2019 13:00     | DO                            | 0.34         | mg/L        |
| GN-AP-MW-17V   | 9/17/2019 13:00     | Depth to Water Detail         | 2.18         | ft          |
| GN-AP-MW-17V   | 9/17/2019 13:00     | Oxidation Reduction Potention | -126.45      | mv          |
| GN-AP-MW-17V   | 9/17/2019 13:00     | pH                            | 8.46         | pH          |
| GN-AP-MW-17V   | 9/17/2019 13:00     | Temperature                   | 28.96        | C           |
| GN-AP-MW-17V   | 9/17/2019 13:00     | Turbidity                     | 17.3         | NTU         |
| GN-AP-MW-17V   | 9/17/2019 13:05     | Conductivity                  | 685.42       | uS/cm       |
| GN-AP-MW-17V   | 9/17/2019 13:05     | DO                            | 0.3          | mg/L        |
| GN-AP-MW-17V   | 9/17/2019 13:05     | Depth to Water Detail         | 2.86         | ft          |
| GN-AP-MW-17V   | 9/17/2019 13:05     | Oxidation Reduction Potention | -157.86      | mv          |
| GN-AP-MW-17V   | 9/17/2019 13:05     | pH                            | 8.52         | pH          |
| GN-AP-MW-17V   | 9/17/2019 13:05     | Temperature                   | 28.76        | C           |
| GN-AP-MW-17V   | 9/17/2019 13:05     | Turbidity                     | 11.31        | NTU         |
| GN-AP-MW-17V   | 9/17/2019 13:10     | Conductivity                  | 682.98       | uS/cm       |
| GN-AP-MW-17V   | 9/17/2019 13:10     | DO                            | 0.28         | mg/L        |
| GN-AP-MW-17V   | 9/17/2019 13:10     | Depth to Water Detail         | 3.46         | ft          |
| GN-AP-MW-17V   | 9/17/2019 13:10     | Oxidation Reduction Potention | -169.46      | mv          |
| GN-AP-MW-17V   | 9/17/2019 13:10     | pH                            | 8.54         | pH          |
| GN-AP-MW-17V   | 9/17/2019 13:10     | Temperature                   | 28.29        | C           |
| GN-AP-MW-17V   | 9/17/2019 13:10     | Turbidity                     | 9.32         | NTU         |
| GN-AP-MW-17V   | 9/17/2019 13:15     | Conductivity                  | 679.45       | uS/cm       |
| GN-AP-MW-17V   | 9/17/2019 13:15     | DO                            | 0.28         | mg/L        |
| GN-AP-MW-17V   | 9/17/2019 13:15     | Depth to Water Detail         | 4.2          | ft          |
| GN-AP-MW-17V   | 9/17/2019 13:15     | Oxidation Reduction Potention | -172.25      | mv          |
| GN-AP-MW-17V   | 9/17/2019 13:15     | pH                            | 8.53         | pH          |
| GN-AP-MW-17V   | 9/17/2019 13:15     | Temperature                   | 28.04        | C           |
| GN-AP-MW-17V   | 9/17/2019 13:15     | Turbidity                     | 5.75         | NTU         |
| GN-AP-MW-17V   | 9/17/2019 13:20     | Conductivity                  | 677.22       | uS/cm       |
| GN-AP-MW-17V   | 9/17/2019 13:20     | DO                            | 0.29         | mg/L        |
| GN-AP-MW-17V   | 9/17/2019 13:20     | Depth to Water Detail         | 4.94         | ft          |
| GN-AP-MW-17V   | 9/17/2019 13:20     | Oxidation Reduction Potention | -174.98      | mv          |
| GN-AP-MW-17V   | 9/17/2019 13:20     | pH                            | 8.54         | pH          |
| GN-AP-MW-17V   | 9/17/2019 13:20     | Temperature                   | 27.46        | C           |
| GN-AP-MW-17V   | 9/17/2019 13:20     | Turbidity                     | 7.37         | NTU         |
| GN-AP-MW-17V   | 9/17/2019 13:25     | Conductivity                  | 677.25       | uS/cm       |
| GN-AP-MW-17V   | 9/17/2019 13:25     | DO                            | 0.3          | mg/L        |
| GN-AP-MW-17V   | 9/17/2019 13:25     | Depth to Water Detail         | 5.7          | ft          |
| GN-AP-MW-17V   | 9/17/2019 13:25     | Oxidation Reduction Potention | -175.1       | mv          |
| GN-AP-MW-17V   | 9/17/2019 13:25     | pH                            | 8.55         | pH          |
| GN-AP-MW-17V   | 9/17/2019 13:25     | Temperature                   | 27.19        | C           |
| GN-AP-MW-17V   | 9/17/2019 13:25     | Turbidity                     | 8.9          | NTU         |
| GN-AP-MW-17V   | 9/17/2019 13:30     | Conductivity                  | 675.69       | uS/cm       |
| GN-AP-MW-17V   | 9/17/2019 13:30     | DO                            | 0.31         | mg/L        |

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| WELL ID      | READING TIME    | DESCRIPTION                   | VALUE   | UNIT  |
|--------------|-----------------|-------------------------------|---------|-------|
| GN-AP-MW-17V | 9/17/2019 13:30 | Depth to Water Detail         | 6.46    | ft    |
| GN-AP-MW-17V | 9/17/2019 13:30 | Oxidation Reduction Potention | -174.56 | mv    |
| GN-AP-MW-17V | 9/17/2019 13:30 | pH                            | 8.56    | pH    |
| GN-AP-MW-17V | 9/17/2019 13:30 | Temperature                   | 27.07   | C     |
| GN-AP-MW-17V | 9/17/2019 13:30 | Turbidity                     | 8.37    | NTU   |
| GN-AP-MW-17V | 9/17/2019 13:35 | Conductivity                  | 672.18  | uS/cm |
| GN-AP-MW-17V | 9/17/2019 13:35 | DO                            | 0.33    | mg/L  |
| GN-AP-MW-17V | 9/17/2019 13:35 | Depth to Water Detail         | 7.35    | ft    |
| GN-AP-MW-17V | 9/17/2019 13:35 | Oxidation Reduction Potention | -173.51 | mv    |
| GN-AP-MW-17V | 9/17/2019 13:35 | pH                            | 8.55    | pH    |
| GN-AP-MW-17V | 9/17/2019 13:35 | Temperature                   | 26.8    | C     |
| GN-AP-MW-17V | 9/17/2019 13:35 | Turbidity                     | 16.2    | NTU   |
| GN-AP-MW-17V | 9/17/2019 13:40 | Conductivity                  | 674.78  | uS/cm |
| GN-AP-MW-17V | 9/17/2019 13:40 | DO                            | 0.34    | mg/L  |
| GN-AP-MW-17V | 9/17/2019 13:40 | Depth to Water Detail         | 7.55    | ft    |
| GN-AP-MW-17V | 9/17/2019 13:40 | Oxidation Reduction Potention | -174.15 | mv    |
| GN-AP-MW-17V | 9/17/2019 13:40 | pH                            | 8.56    | pH    |
| GN-AP-MW-17V | 9/17/2019 13:40 | Temperature                   | 26.45   | C     |
| GN-AP-MW-17V | 9/17/2019 13:40 | Turbidity                     | 15.8    | NTU   |
| GN-AP-MW-17V | 9/17/2019 13:45 | Conductivity                  | 674.28  | uS/cm |
| GN-AP-MW-17V | 9/17/2019 13:45 | DO                            | 0.36    | mg/L  |
| GN-AP-MW-17V | 9/17/2019 13:45 | Depth to Water Detail         | 7.95    | ft    |
| GN-AP-MW-17V | 9/17/2019 13:45 | Oxidation Reduction Potention | -174.2  | mv    |
| GN-AP-MW-17V | 9/17/2019 13:45 | pH                            | 8.57    | pH    |
| GN-AP-MW-17V | 9/17/2019 13:45 | Temperature                   | 26.35   | C     |
| GN-AP-MW-17V | 9/17/2019 13:45 | Turbidity                     | 20.4    | NTU   |
| GN-AP-MW-17V | 9/17/2019 13:50 | Conductivity                  | 672.85  | uS/cm |
| GN-AP-MW-17V | 9/17/2019 13:50 | DO                            | 0.15    | mg/L  |
| GN-AP-MW-17V | 9/17/2019 13:50 | Depth to Water Detail         | 11.7    | ft    |
| GN-AP-MW-17V | 9/17/2019 13:50 | Oxidation Reduction Potention | -196.52 | mv    |
| GN-AP-MW-17V | 9/17/2019 13:50 | pH                            | 8.6     | pH    |
| GN-AP-MW-17V | 9/17/2019 13:50 | Temperature                   | 22.89   | C     |
| GN-AP-MW-17V | 9/17/2019 13:50 | Turbidity                     | 24      | NTU   |
| GN-AP-MW-17V | 9/17/2019 13:55 | Conductivity                  | 672.61  | uS/cm |
| GN-AP-MW-17V | 9/17/2019 13:55 | DO                            | 0.13    | mg/L  |
| GN-AP-MW-17V | 9/17/2019 13:55 | Depth to Water Detail         | 12.85   | ft    |
| GN-AP-MW-17V | 9/17/2019 13:55 | Oxidation Reduction Potention | -208.39 | mv    |
| GN-AP-MW-17V | 9/17/2019 13:55 | pH                            | 8.56    | pH    |
| GN-AP-MW-17V | 9/17/2019 13:55 | Temperature                   | 22.8    | C     |
| GN-AP-MW-17V | 9/17/2019 13:55 | Turbidity                     | 22      | NTU   |
| GN-AP-MW-17V | 9/17/2019 14:00 | Conductivity                  | 672.11  | uS/cm |
| GN-AP-MW-17V | 9/17/2019 14:00 | DO                            | 0.14    | mg/L  |
| GN-AP-MW-17V | 9/17/2019 14:00 | Depth to Water Detail         | 18.3    | ft    |
| GN-AP-MW-17V | 9/17/2019 14:00 | Oxidation Reduction Potention | -209.26 | mv    |

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| WELL ID      | READING TIME    | DESCRIPTION                   | VALUE   | UNIT  |
|--------------|-----------------|-------------------------------|---------|-------|
| GN-AP-MW-17V | 9/17/2019 14:00 | pH                            | 8.51    | pH    |
| GN-AP-MW-17V | 9/17/2019 14:00 | Temperature                   | 22.29   | C     |
| GN-AP-MW-17V | 9/17/2019 14:00 | Turbidity                     | 26.9    | NTU   |
| GN-AP-MW-17V | 9/17/2019 14:05 | Conductivity                  | 671.66  | uS/cm |
| GN-AP-MW-17V | 9/17/2019 14:05 | DO                            | 0.15    | mg/L  |
| GN-AP-MW-17V | 9/17/2019 14:05 | Depth to Water Detail         | 18.75   | ft    |
| GN-AP-MW-17V | 9/17/2019 14:05 | Oxidation Reduction Potention | -206.24 | mv    |
| GN-AP-MW-17V | 9/17/2019 14:05 | pH                            | 8.43    | pH    |
| GN-AP-MW-17V | 9/17/2019 14:05 | Temperature                   | 22.24   | C     |
| GN-AP-MW-17V | 9/17/2019 14:05 | Turbidity                     | 31.5    | NTU   |
| GN-AP-MW-17V | 9/17/2019 14:10 | Conductivity                  | 671.23  | uS/cm |
| GN-AP-MW-17V | 9/17/2019 14:10 | DO                            | 0.15    | mg/L  |
| GN-AP-MW-17V | 9/17/2019 14:10 | Depth to Water Detail         | 21.3    | ft    |
| GN-AP-MW-17V | 9/17/2019 14:10 | Oxidation Reduction Potention | -203.4  | mv    |
| GN-AP-MW-17V | 9/17/2019 14:10 | pH                            | 8.36    | pH    |
| GN-AP-MW-17V | 9/17/2019 14:10 | Temperature                   | 22.2    | C     |
| GN-AP-MW-17V | 9/17/2019 14:10 | Turbidity                     | 40.2    | NTU   |
| GN-AP-MW-17V | 9/17/2019 14:15 | Conductivity                  | 671.31  | uS/cm |
| GN-AP-MW-17V | 9/17/2019 14:15 | DO                            | 0.15    | mg/L  |
| GN-AP-MW-17V | 9/17/2019 14:15 | Depth to Water Detail         | 23.23   | ft    |
| GN-AP-MW-17V | 9/17/2019 14:15 | Oxidation Reduction Potention | -201.08 | mv    |
| GN-AP-MW-17V | 9/17/2019 14:15 | pH                            | 8.29    | pH    |
| GN-AP-MW-17V | 9/17/2019 14:15 | Temperature                   | 22.25   | C     |
| GN-AP-MW-17V | 9/17/2019 14:15 | Turbidity                     | 48.9    | NTU   |
| GN-AP-MW-17V | 9/17/2019 14:20 | Conductivity                  | 673.78  | uS/cm |
| GN-AP-MW-17V | 9/17/2019 14:20 | DO                            | 0.15    | mg/L  |
| GN-AP-MW-17V | 9/17/2019 14:20 | Depth to Water Detail         | 27.52   | ft    |
| GN-AP-MW-17V | 9/17/2019 14:20 | Oxidation Reduction Potention | -200.07 | mv    |
| GN-AP-MW-17V | 9/17/2019 14:20 | pH                            | 8.26    | pH    |
| GN-AP-MW-17V | 9/17/2019 14:20 | Temperature                   | 22.04   | C     |
| GN-AP-MW-17V | 9/17/2019 14:20 | Turbidity                     | 53.1    | NTU   |
| GN-AP-MW-17V | 9/17/2019 14:25 | Conductivity                  | 675.19  | uS/cm |
| GN-AP-MW-17V | 9/17/2019 14:25 | DO                            | 0.15    | mg/L  |
| GN-AP-MW-17V | 9/17/2019 14:25 | Depth to Water Detail         | 28.5    | ft    |
| GN-AP-MW-17V | 9/17/2019 14:25 | Oxidation Reduction Potention | -199.91 | mv    |
| GN-AP-MW-17V | 9/17/2019 14:25 | pH                            | 8.25    | pH    |
| GN-AP-MW-17V | 9/17/2019 14:25 | Temperature                   | 22.13   | C     |
| GN-AP-MW-17V | 9/17/2019 14:25 | Turbidity                     | 56.1    | NTU   |
| GN-AP-MW-17V | 9/17/2019 14:30 | Conductivity                  | 678.45  | uS/cm |
| GN-AP-MW-17V | 9/17/2019 14:30 | DO                            | 0.26    | mg/L  |
| GN-AP-MW-17V | 9/17/2019 14:30 | Depth to Water Detail         | 28.72   | ft    |
| GN-AP-MW-17V | 9/17/2019 14:30 | Oxidation Reduction Potention | -185.28 | mv    |
| GN-AP-MW-17V | 9/17/2019 14:30 | pH                            | 8.23    | pH    |
| GN-AP-MW-17V | 9/17/2019 14:30 | Temperature                   | 24.45   | C     |

**Alabama Power Company  
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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-17V   | 9/17/2019 14:30     | Turbidity                     | 56           | NTU         |
| GN-AP-MW-17V   | 9/17/2019 14:35     | Conductivity                  | 677.32       | uS/cm       |
| GN-AP-MW-17V   | 9/17/2019 14:35     | DO                            | 0.36         | mg/L        |
| GN-AP-MW-17V   | 9/17/2019 14:35     | Depth to Water Detail         | 28.35        | ft          |
| GN-AP-MW-17V   | 9/17/2019 14:35     | Oxidation Reduction Potention | -170.63      | mv          |
| GN-AP-MW-17V   | 9/17/2019 14:35     | pH                            | 8.25         | pH          |
| GN-AP-MW-17V   | 9/17/2019 14:35     | Temperature                   | 25.1         | C           |
| GN-AP-MW-17V   | 9/17/2019 14:35     | Turbidity                     | 47.1         | NTU         |
| GN-AP-MW-17V   | 9/17/2019 14:40     | Conductivity                  | 678.19       | uS/cm       |
| GN-AP-MW-17V   | 9/17/2019 14:40     | DO                            | 0.49         | mg/L        |
| GN-AP-MW-17V   | 9/17/2019 14:40     | Depth to Water Detail         | 28.1         | ft          |
| GN-AP-MW-17V   | 9/17/2019 14:40     | Oxidation Reduction Potention | -161.6       | mv          |
| GN-AP-MW-17V   | 9/17/2019 14:40     | pH                            | 8.34         | pH          |
| GN-AP-MW-17V   | 9/17/2019 14:40     | Temperature                   | 25.16        | C           |
| GN-AP-MW-17V   | 9/17/2019 14:40     | Turbidity                     | 42.8         | NTU         |
| GN-AP-MW-17V   | 9/17/2019 14:45     | Conductivity                  | 678.67       | uS/cm       |
| GN-AP-MW-17V   | 9/17/2019 14:45     | DO                            | 0.55         | mg/L        |
| GN-AP-MW-17V   | 9/17/2019 14:45     | Depth to Water Detail         | 27.74        | ft          |
| GN-AP-MW-17V   | 9/17/2019 14:45     | Oxidation Reduction Potention | -159.02      | mv          |
| GN-AP-MW-17V   | 9/17/2019 14:45     | pH                            | 8.47         | pH          |
| GN-AP-MW-17V   | 9/17/2019 14:45     | Temperature                   | 25.19        | C           |
| GN-AP-MW-17V   | 9/17/2019 14:45     | Turbidity                     | 49           | NTU         |
| GN-AP-MW-17V   | 9/17/2019 14:50     | Conductivity                  | 680.15       | uS/cm       |
| GN-AP-MW-17V   | 9/17/2019 14:50     | DO                            | 0.56         | mg/L        |
| GN-AP-MW-17V   | 9/17/2019 14:50     | Depth to Water Detail         | 27.25        | ft          |
| GN-AP-MW-17V   | 9/17/2019 14:50     | Oxidation Reduction Potention | -159.28      | mv          |
| GN-AP-MW-17V   | 9/17/2019 14:50     | pH                            | 8.57         | pH          |
| GN-AP-MW-17V   | 9/17/2019 14:50     | Temperature                   | 25.31        | C           |
| GN-AP-MW-17V   | 9/17/2019 14:50     | Turbidity                     | 56.4         | NTU         |
| GN-AP-MW-17V   | 9/17/2019 14:55     | Conductivity                  | 681.12       | uS/cm       |
| GN-AP-MW-17V   | 9/17/2019 14:55     | DO                            | 0.56         | mg/L        |
| GN-AP-MW-17V   | 9/17/2019 14:55     | Depth to Water Detail         | 27.23        | ft          |
| GN-AP-MW-17V   | 9/17/2019 14:55     | Oxidation Reduction Potention | -159.13      | mv          |
| GN-AP-MW-17V   | 9/17/2019 14:55     | pH                            | 8.63         | pH          |
| GN-AP-MW-17V   | 9/17/2019 14:55     | Temperature                   | 25           | C           |
| GN-AP-MW-17V   | 9/17/2019 14:55     | Turbidity                     | 68.9         | NTU         |
| GN-AP-MW-17V   | 9/17/2019 15:00     | Conductivity                  | 685.06       | uS/cm       |
| GN-AP-MW-17V   | 9/17/2019 15:00     | DO                            | 0.67         | mg/L        |
| GN-AP-MW-17V   | 9/17/2019 15:00     | Depth to Water Detail         | 26.94        | ft          |
| GN-AP-MW-17V   | 9/17/2019 15:00     | Oxidation Reduction Potention | -154.89      | mv          |
| GN-AP-MW-17V   | 9/17/2019 15:00     | pH                            | 8.65         | pH          |
| GN-AP-MW-17V   | 9/17/2019 15:00     | Temperature                   | 25.09        | C           |
| GN-AP-MW-17V   | 9/17/2019 15:00     | Turbidity                     | 60.3         | NTU         |
| GN-AP-MW-17V   | 9/17/2019 15:05     | Conductivity                  | 685.92       | uS/cm       |

**Alabama Power Company  
Plant Gaston Ash Pond**

| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-17V   | 9/17/2019 15:05     | DO                            | 0.6          | mg/L        |
| GN-AP-MW-17V   | 9/17/2019 15:05     | Depth to Water Detail         | 26.55        | ft          |
| GN-AP-MW-17V   | 9/17/2019 15:05     | Oxidation Reduction Potention | -154.47      | mv          |
| GN-AP-MW-17V   | 9/17/2019 15:05     | pH                            | 8.66         | pH          |
| GN-AP-MW-17V   | 9/17/2019 15:05     | Temperature                   | 25.19        | C           |
| GN-AP-MW-17V   | 9/17/2019 15:05     | Turbidity                     | 55.1         | NTU         |
| GN-AP-MW-17V   | 9/17/2019 15:10     | Conductivity                  | 687.6        | uS/cm       |
| GN-AP-MW-17V   | 9/17/2019 15:10     | DO                            | 0.55         | mg/L        |
| GN-AP-MW-17V   | 9/17/2019 15:10     | Depth to Water Detail         | 26.35        | ft          |
| GN-AP-MW-17V   | 9/17/2019 15:10     | Oxidation Reduction Potention | -154.81      | mv          |
| GN-AP-MW-17V   | 9/17/2019 15:10     | pH                            | 8.65         | pH          |
| GN-AP-MW-17V   | 9/17/2019 15:10     | Temperature                   | 25.15        | C           |
| GN-AP-MW-17V   | 9/17/2019 15:10     | Turbidity                     | 62.2         | NTU         |
| GN-AP-MW-17V   | 9/17/2019 15:15     | Conductivity                  | 686.63       | uS/cm       |
| GN-AP-MW-17V   | 9/17/2019 15:15     | DO                            | 0.55         | mg/L        |
| GN-AP-MW-17V   | 9/17/2019 15:15     | Depth to Water Detail         | 26.2         | ft          |
| GN-AP-MW-17V   | 9/17/2019 15:15     | Oxidation Reduction Potention | -155.96      | mv          |
| GN-AP-MW-17V   | 9/17/2019 15:15     | pH                            | 8.66         | pH          |
| GN-AP-MW-17V   | 9/17/2019 15:15     | Temperature                   | 24.99        | C           |
| GN-AP-MW-17V   | 9/17/2019 15:15     | Turbidity                     | 59.5         | NTU         |

**Alabama Power Company  
Plant Gaston Ash Pond**

| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-18    | 9/18/2019 10:14     | Conductivity                  | 649.73       | uS/cm       |
| GN-AP-MW-18    | 9/18/2019 10:14     | DO                            | 2.04         | mg/L        |
| GN-AP-MW-18    | 9/18/2019 10:14     | Depth to Water Detail         | 19.98        | ft          |
| GN-AP-MW-18    | 9/18/2019 10:14     | Oxidation Reduction Potention | 20.24        | mv          |
| GN-AP-MW-18    | 9/18/2019 10:14     | pH                            | 7.22         | pH          |
| GN-AP-MW-18    | 9/18/2019 10:14     | Temperature                   | 24.44        | C           |
| GN-AP-MW-18    | 9/18/2019 10:14     | Turbidity                     | 9.83         | NTU         |
| GN-AP-MW-18    | 9/18/2019 10:19     | Conductivity                  | 730.16       | uS/cm       |
| GN-AP-MW-18    | 9/18/2019 10:19     | DO                            | 0.15         | mg/L        |
| GN-AP-MW-18    | 9/18/2019 10:19     | Depth to Water Detail         | 19.98        | ft          |
| GN-AP-MW-18    | 9/18/2019 10:19     | Oxidation Reduction Potention | -10.17       | mv          |
| GN-AP-MW-18    | 9/18/2019 10:19     | pH                            | 6.96         | pH          |
| GN-AP-MW-18    | 9/18/2019 10:19     | Temperature                   | 20.39        | C           |
| GN-AP-MW-18    | 9/18/2019 10:19     | Turbidity                     | 6.36         | NTU         |
| GN-AP-MW-18    | 9/18/2019 10:24     | Conductivity                  | 802.7        | uS/cm       |
| GN-AP-MW-18    | 9/18/2019 10:24     | DO                            | 0.13         | mg/L        |
| GN-AP-MW-18    | 9/18/2019 10:24     | Depth to Water Detail         | 19.98        | ft          |
| GN-AP-MW-18    | 9/18/2019 10:24     | Oxidation Reduction Potention | -6.36        | mv          |
| GN-AP-MW-18    | 9/18/2019 10:24     | pH                            | 6.91         | pH          |
| GN-AP-MW-18    | 9/18/2019 10:24     | Temperature                   | 20.23        | C           |
| GN-AP-MW-18    | 9/18/2019 10:24     | Turbidity                     | 4.82         | NTU         |
| GN-AP-MW-18    | 9/18/2019 10:29     | Conductivity                  | 833.94       | uS/cm       |
| GN-AP-MW-18    | 9/18/2019 10:29     | DO                            | 0.12         | mg/L        |
| GN-AP-MW-18    | 9/18/2019 10:29     | Depth to Water Detail         | 19.98        | ft          |
| GN-AP-MW-18    | 9/18/2019 10:29     | Oxidation Reduction Potention | -2.72        | mv          |
| GN-AP-MW-18    | 9/18/2019 10:29     | pH                            | 6.88         | pH          |
| GN-AP-MW-18    | 9/18/2019 10:29     | Temperature                   | 20.14        | C           |
| GN-AP-MW-18    | 9/18/2019 10:29     | Turbidity                     | 15.7         | NTU         |
| GN-AP-MW-18    | 9/18/2019 10:34     | Conductivity                  | 843.57       | uS/cm       |
| GN-AP-MW-18    | 9/18/2019 10:34     | DO                            | 0.11         | mg/L        |
| GN-AP-MW-18    | 9/18/2019 10:34     | Depth to Water Detail         | 19.98        | ft          |
| GN-AP-MW-18    | 9/18/2019 10:34     | Oxidation Reduction Potention | -1.34        | mv          |
| GN-AP-MW-18    | 9/18/2019 10:34     | pH                            | 6.86         | pH          |
| GN-AP-MW-18    | 9/18/2019 10:34     | Temperature                   | 20.23        | C           |
| GN-AP-MW-18    | 9/18/2019 10:34     | Turbidity                     | 1.99         | NTU         |
| GN-AP-MW-18    | 9/18/2019 10:39     | Conductivity                  | 847.45       | uS/cm       |
| GN-AP-MW-18    | 9/18/2019 10:39     | DO                            | 0.11         | mg/L        |
| GN-AP-MW-18    | 9/18/2019 10:39     | Depth to Water Detail         | 19.98        | ft          |
| GN-AP-MW-18    | 9/18/2019 10:39     | Oxidation Reduction Potention | -0.23        | mv          |
| GN-AP-MW-18    | 9/18/2019 10:39     | pH                            | 6.84         | pH          |
| GN-AP-MW-18    | 9/18/2019 10:39     | Temperature                   | 20.22        | C           |
| GN-AP-MW-18    | 9/18/2019 10:39     | Turbidity                     | 0.83         | NTU         |
| GN-AP-MW-18    | 9/18/2019 10:44     | Conductivity                  | 860.03       | uS/cm       |
| GN-AP-MW-18    | 9/18/2019 10:44     | DO                            | 0.1          | mg/L        |



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Plant Gaston Ash Pond**

| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-18    | 9/18/2019 10:44     | Depth to Water Detail         | 19.98        | ft          |
| GN-AP-MW-18    | 9/18/2019 10:44     | Oxidation Reduction Potention | 0.59         | mv          |
| GN-AP-MW-18    | 9/18/2019 10:44     | pH                            | 6.86         | pH          |
| GN-AP-MW-18    | 9/18/2019 10:44     | Temperature                   | 20.21        | C           |
| GN-AP-MW-18    | 9/18/2019 10:44     | Turbidity                     | 1.47         | NTU         |

**Alabama Power Company  
Plant Gaston Ash Pond**

| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-1     | 9/17/2019 15:11     | Conductivity                  | 558.22       | uS/cm       |
| GN-AP-MW-1     | 9/17/2019 15:11     | DO                            | 0.49         | mg/L        |
| GN-AP-MW-1     | 9/17/2019 15:11     | Depth to Water Detail         | 36.26        | ft          |
| GN-AP-MW-1     | 9/17/2019 15:11     | Oxidation Reduction Potention | -116.72      | mv          |
| GN-AP-MW-1     | 9/17/2019 15:11     | pH                            | 7.55         | pH          |
| GN-AP-MW-1     | 9/17/2019 15:11     | Temperature                   | 26.47        | C           |
| GN-AP-MW-1     | 9/17/2019 15:11     | Turbidity                     | 0.39         | NTU         |
| GN-AP-MW-1     | 9/17/2019 15:34     | Conductivity                  | 528.32       | uS/cm       |
| GN-AP-MW-1     | 9/17/2019 15:34     | DO                            | 0.22         | mg/L        |
| GN-AP-MW-1     | 9/17/2019 15:34     | Depth to Water Detail         | 39.41        | ft          |
| GN-AP-MW-1     | 9/17/2019 15:34     | Oxidation Reduction Potention | -130.11      | mv          |
| GN-AP-MW-1     | 9/17/2019 15:34     | pH                            | 7.62         | pH          |
| GN-AP-MW-1     | 9/17/2019 15:34     | Temperature                   | 27.35        | C           |
| GN-AP-MW-1     | 9/17/2019 15:34     | Turbidity                     | 0.42         | NTU         |

**Alabama Power Company  
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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-2     | 9/18/2019 7:20      | Conductivity                  | 308.53       | uS/cm       |
| GN-AP-MW-2     | 9/18/2019 7:20      | DO                            | 4.93         | mg/L        |
| GN-AP-MW-2     | 9/18/2019 7:20      | Depth to Water Detail         | 18.04        | ft          |
| GN-AP-MW-2     | 9/18/2019 7:20      | Oxidation Reduction Potention | 153.05       | mv          |
| GN-AP-MW-2     | 9/18/2019 7:20      | pH                            | 7.52         | pH          |
| GN-AP-MW-2     | 9/18/2019 7:20      | Temperature                   | 19.18        | C           |
| GN-AP-MW-2     | 9/18/2019 7:20      | Turbidity                     | 10.21        | NTU         |
| GN-AP-MW-2     | 9/18/2019 7:25      | Conductivity                  | 307.08       | uS/cm       |
| GN-AP-MW-2     | 9/18/2019 7:25      | DO                            | 4.68         | mg/L        |
| GN-AP-MW-2     | 9/18/2019 7:25      | Depth to Water Detail         | 18.63        | ft          |
| GN-AP-MW-2     | 9/18/2019 7:25      | Oxidation Reduction Potention | 119.46       | mv          |
| GN-AP-MW-2     | 9/18/2019 7:25      | pH                            | 7.53         | pH          |
| GN-AP-MW-2     | 9/18/2019 7:25      | Temperature                   | 19.14        | C           |
| GN-AP-MW-2     | 9/18/2019 7:25      | Turbidity                     | 8.04         | NTU         |
| GN-AP-MW-2     | 9/18/2019 7:30      | Conductivity                  | 305.05       | uS/cm       |
| GN-AP-MW-2     | 9/18/2019 7:30      | DO                            | 4.82         | mg/L        |
| GN-AP-MW-2     | 9/18/2019 7:30      | Depth to Water Detail         | 19.05        | ft          |
| GN-AP-MW-2     | 9/18/2019 7:30      | Oxidation Reduction Potention | 109.29       | mv          |
| GN-AP-MW-2     | 9/18/2019 7:30      | pH                            | 7.56         | pH          |
| GN-AP-MW-2     | 9/18/2019 7:30      | Temperature                   | 19.14        | C           |
| GN-AP-MW-2     | 9/18/2019 7:30      | Turbidity                     | 7.52         | NTU         |
| GN-AP-MW-2     | 9/18/2019 7:35      | Conductivity                  | 304.35       | uS/cm       |
| GN-AP-MW-2     | 9/18/2019 7:35      | DO                            | 5.1          | mg/L        |
| GN-AP-MW-2     | 9/18/2019 7:35      | Depth to Water Detail         | 19.44        | ft          |
| GN-AP-MW-2     | 9/18/2019 7:35      | Oxidation Reduction Potention | 98.26        | mv          |
| GN-AP-MW-2     | 9/18/2019 7:35      | pH                            | 7.6          | pH          |
| GN-AP-MW-2     | 9/18/2019 7:35      | Temperature                   | 19.12        | C           |
| GN-AP-MW-2     | 9/18/2019 7:35      | Turbidity                     | 7            | NTU         |
| GN-AP-MW-2     | 9/18/2019 7:40      | Conductivity                  | 302.54       | uS/cm       |
| GN-AP-MW-2     | 9/18/2019 7:40      | DO                            | 5.41         | mg/L        |
| GN-AP-MW-2     | 9/18/2019 7:40      | Depth to Water Detail         | 19.73        | ft          |
| GN-AP-MW-2     | 9/18/2019 7:40      | Oxidation Reduction Potention | 93.23        | mv          |
| GN-AP-MW-2     | 9/18/2019 7:40      | pH                            | 7.62         | pH          |
| GN-AP-MW-2     | 9/18/2019 7:40      | Temperature                   | 19.17        | C           |
| GN-AP-MW-2     | 9/18/2019 7:40      | Turbidity                     | 6.44         | NTU         |
| GN-AP-MW-2     | 9/18/2019 7:45      | Conductivity                  | 301.48       | uS/cm       |
| GN-AP-MW-2     | 9/18/2019 7:45      | DO                            | 5.66         | mg/L        |
| GN-AP-MW-2     | 9/18/2019 7:45      | Depth to Water Detail         | 19.95        | ft          |
| GN-AP-MW-2     | 9/18/2019 7:45      | Oxidation Reduction Potention | 88.64        | mv          |
| GN-AP-MW-2     | 9/18/2019 7:45      | pH                            | 7.64         | pH          |
| GN-AP-MW-2     | 9/18/2019 7:45      | Temperature                   | 19.15        | C           |
| GN-AP-MW-2     | 9/18/2019 7:45      | Turbidity                     | 6.58         | NTU         |
| GN-AP-MW-2     | 9/18/2019 7:50      | Conductivity                  | 297.44       | uS/cm       |
| GN-AP-MW-2     | 9/18/2019 7:50      | DO                            | 5.85         | mg/L        |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-2     | 9/18/2019 7:50      | Depth to Water Detail         | 20.11        | ft          |
| GN-AP-MW-2     | 9/18/2019 7:50      | Oxidation Reduction Potention | 83.8         | mv          |
| GN-AP-MW-2     | 9/18/2019 7:50      | pH                            | 7.66         | pH          |
| GN-AP-MW-2     | 9/18/2019 7:50      | Temperature                   | 19.14        | C           |
| GN-AP-MW-2     | 9/18/2019 7:50      | Turbidity                     | 5.61         | NTU         |
| GN-AP-MW-2     | 9/18/2019 7:55      | Conductivity                  | 296          | uS/cm       |
| GN-AP-MW-2     | 9/18/2019 7:55      | DO                            | 6            | mg/L        |
| GN-AP-MW-2     | 9/18/2019 7:55      | Depth to Water Detail         | 20.22        | ft          |
| GN-AP-MW-2     | 9/18/2019 7:55      | Oxidation Reduction Potention | 82.53        | mv          |
| GN-AP-MW-2     | 9/18/2019 7:55      | pH                            | 7.67         | pH          |
| GN-AP-MW-2     | 9/18/2019 7:55      | Temperature                   | 19.17        | C           |
| GN-AP-MW-2     | 9/18/2019 7:55      | Turbidity                     | 6.6          | NTU         |
| GN-AP-MW-2     | 9/18/2019 8:00      | Conductivity                  | 293.31       | uS/cm       |
| GN-AP-MW-2     | 9/18/2019 8:00      | DO                            | 6.16         | mg/L        |
| GN-AP-MW-2     | 9/18/2019 8:00      | Depth to Water Detail         | 20.35        | ft          |
| GN-AP-MW-2     | 9/18/2019 8:00      | Oxidation Reduction Potention | 82.69        | mv          |
| GN-AP-MW-2     | 9/18/2019 8:00      | pH                            | 7.69         | pH          |
| GN-AP-MW-2     | 9/18/2019 8:00      | Temperature                   | 19.19        | C           |
| GN-AP-MW-2     | 9/18/2019 8:00      | Turbidity                     | 5.81         | NTU         |
| GN-AP-MW-2     | 9/18/2019 8:05      | Conductivity                  | 290.62       | uS/cm       |
| GN-AP-MW-2     | 9/18/2019 8:05      | DO                            | 6.21         | mg/L        |
| GN-AP-MW-2     | 9/18/2019 8:05      | Depth to Water Detail         | 20.43        | ft          |
| GN-AP-MW-2     | 9/18/2019 8:05      | Oxidation Reduction Potention | 79.41        | mv          |
| GN-AP-MW-2     | 9/18/2019 8:05      | pH                            | 7.69         | pH          |
| GN-AP-MW-2     | 9/18/2019 8:05      | Temperature                   | 19.22        | C           |
| GN-AP-MW-2     | 9/18/2019 8:05      | Turbidity                     | 5.6          | NTU         |

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| WELL ID    | READING TIME    | DESCRIPTION                   | VALUE  | UNIT  |
|------------|-----------------|-------------------------------|--------|-------|
| GN-AP-MW-3 | 9/17/2019 16:35 | Conductivity                  | 273.23 | uS/cm |
| GN-AP-MW-3 | 9/17/2019 16:35 | DO                            | 3.55   | mg/L  |
| GN-AP-MW-3 | 9/17/2019 16:35 | Depth to Water Detail         | 20.95  | ft    |
| GN-AP-MW-3 | 9/17/2019 16:35 | Oxidation Reduction Potention | 40.82  | mv    |
| GN-AP-MW-3 | 9/17/2019 16:35 | pH                            | 7.71   | pH    |
| GN-AP-MW-3 | 9/17/2019 16:35 | Temperature                   | 21.63  | C     |
| GN-AP-MW-3 | 9/17/2019 16:35 | Turbidity                     | 0.3    | NTU   |
| GN-AP-MW-3 | 9/17/2019 16:40 | Conductivity                  | 271.64 | uS/cm |
| GN-AP-MW-3 | 9/17/2019 16:40 | DO                            | 3.73   | mg/L  |
| GN-AP-MW-3 | 9/17/2019 16:40 | Depth to Water Detail         | 21.73  | ft    |
| GN-AP-MW-3 | 9/17/2019 16:40 | Oxidation Reduction Potention | 36.73  | mv    |
| GN-AP-MW-3 | 9/17/2019 16:40 | pH                            | 7.75   | pH    |
| GN-AP-MW-3 | 9/17/2019 16:40 | Temperature                   | 21.47  | C     |
| GN-AP-MW-3 | 9/17/2019 16:40 | Turbidity                     | 0.36   | NTU   |
| GN-AP-MW-3 | 9/17/2019 16:45 | Conductivity                  | 270.64 | uS/cm |
| GN-AP-MW-3 | 9/17/2019 16:45 | DO                            | 4.07   | mg/L  |
| GN-AP-MW-3 | 9/17/2019 16:45 | Depth to Water Detail         | 22.42  | ft    |
| GN-AP-MW-3 | 9/17/2019 16:45 | Oxidation Reduction Potention | 35.46  | mv    |
| GN-AP-MW-3 | 9/17/2019 16:45 | pH                            | 7.8    | pH    |
| GN-AP-MW-3 | 9/17/2019 16:45 | Temperature                   | 21.47  | C     |
| GN-AP-MW-3 | 9/17/2019 16:45 | Turbidity                     | 0.28   | NTU   |
| GN-AP-MW-3 | 9/17/2019 16:50 | Conductivity                  | 270.47 | uS/cm |
| GN-AP-MW-3 | 9/17/2019 16:50 | DO                            | 4.34   | mg/L  |
| GN-AP-MW-3 | 9/17/2019 16:50 | Depth to Water Detail         | 22.97  | ft    |
| GN-AP-MW-3 | 9/17/2019 16:50 | Oxidation Reduction Potention | 37.98  | mv    |
| GN-AP-MW-3 | 9/17/2019 16:50 | pH                            | 7.8    | pH    |
| GN-AP-MW-3 | 9/17/2019 16:50 | Temperature                   | 21.29  | C     |
| GN-AP-MW-3 | 9/17/2019 16:50 | Turbidity                     | 0.3    | NTU   |
| GN-AP-MW-3 | 9/17/2019 16:55 | Conductivity                  | 272    | uS/cm |
| GN-AP-MW-3 | 9/17/2019 16:55 | DO                            | 4.39   | mg/L  |
| GN-AP-MW-3 | 9/17/2019 16:55 | Depth to Water Detail         | 23.39  | ft    |
| GN-AP-MW-3 | 9/17/2019 16:55 | Oxidation Reduction Potention | 42.37  | mv    |
| GN-AP-MW-3 | 9/17/2019 16:55 | pH                            | 7.79   | pH    |
| GN-AP-MW-3 | 9/17/2019 16:55 | Temperature                   | 21.09  | C     |
| GN-AP-MW-3 | 9/17/2019 16:55 | Turbidity                     | 0.33   | NTU   |
| GN-AP-MW-3 | 9/17/2019 17:00 | Conductivity                  | 275.09 | uS/cm |
| GN-AP-MW-3 | 9/17/2019 17:00 | DO                            | 4.36   | mg/L  |
| GN-AP-MW-3 | 9/17/2019 17:00 | Depth to Water Detail         | 23.71  | ft    |
| GN-AP-MW-3 | 9/17/2019 17:00 | Oxidation Reduction Potention | 44.56  | mv    |
| GN-AP-MW-3 | 9/17/2019 17:00 | pH                            | 7.79   | pH    |
| GN-AP-MW-3 | 9/17/2019 17:00 | Temperature                   | 21.44  | C     |
| GN-AP-MW-3 | 9/17/2019 17:00 | Turbidity                     | 0.3    | NTU   |
| GN-AP-MW-3 | 9/17/2019 17:05 | Conductivity                  | 276.48 | uS/cm |
| GN-AP-MW-3 | 9/17/2019 17:05 | DO                            | 4.3    | mg/L  |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-3     | 9/17/2019 17:05     | Depth to Water Detail         | 23.96        | ft          |
| GN-AP-MW-3     | 9/17/2019 17:05     | Oxidation Reduction Potention | 43.6         | mv          |
| GN-AP-MW-3     | 9/17/2019 17:05     | pH                            | 7.81         | pH          |
| GN-AP-MW-3     | 9/17/2019 17:05     | Temperature                   | 21.39        | C           |
| GN-AP-MW-3     | 9/17/2019 17:05     | Turbidity                     | 0.28         | NTU         |
| GN-AP-MW-3     | 9/17/2019 17:10     | Conductivity                  | 278.2        | uS/cm       |
| GN-AP-MW-3     | 9/17/2019 17:10     | DO                            | 4.26         | mg/L        |
| GN-AP-MW-3     | 9/17/2019 17:10     | Depth to Water Detail         | 24.17        | ft          |
| GN-AP-MW-3     | 9/17/2019 17:10     | Oxidation Reduction Potention | 42.23        | mv          |
| GN-AP-MW-3     | 9/17/2019 17:10     | pH                            | 7.81         | pH          |
| GN-AP-MW-3     | 9/17/2019 17:10     | Temperature                   | 21.56        | C           |
| GN-AP-MW-3     | 9/17/2019 17:10     | Turbidity                     | 0.25         | NTU         |
| GN-AP-MW-3     | 9/17/2019 17:15     | Conductivity                  | 278.15       | uS/cm       |
| GN-AP-MW-3     | 9/17/2019 17:15     | DO                            | 4.24         | mg/L        |
| GN-AP-MW-3     | 9/17/2019 17:15     | Depth to Water Detail         | 24.32        | ft          |
| GN-AP-MW-3     | 9/17/2019 17:15     | Oxidation Reduction Potention | 41.75        | mv          |
| GN-AP-MW-3     | 9/17/2019 17:15     | pH                            | 7.81         | pH          |
| GN-AP-MW-3     | 9/17/2019 17:15     | Temperature                   | 21.13        | C           |
| GN-AP-MW-3     | 9/17/2019 17:15     | Turbidity                     | 0.24         | NTU         |
| GN-AP-MW-3     | 9/17/2019 17:20     | Conductivity                  | 276.54       | uS/cm       |
| GN-AP-MW-3     | 9/17/2019 17:20     | DO                            | 4.25         | mg/L        |
| GN-AP-MW-3     | 9/17/2019 17:20     | Depth to Water Detail         | 24.44        | ft          |
| GN-AP-MW-3     | 9/17/2019 17:20     | Oxidation Reduction Potention | 41.33        | mv          |
| GN-AP-MW-3     | 9/17/2019 17:20     | pH                            | 7.8          | pH          |
| GN-AP-MW-3     | 9/17/2019 17:20     | Temperature                   | 21.16        | C           |
| GN-AP-MW-3     | 9/17/2019 17:20     | Turbidity                     | 0.27         | NTU         |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-4     | 9/17/2019 9:28      | Conductivity                  | 557.42       | uS/cm       |
| GN-AP-MW-4     | 9/17/2019 9:28      | DO                            | 0.27         | mg/L        |
| GN-AP-MW-4     | 9/17/2019 9:28      | Depth to Water Detail         | 20.56        | ft          |
| GN-AP-MW-4     | 9/17/2019 9:28      | Oxidation Reduction Potention | -25.26       | mv          |
| GN-AP-MW-4     | 9/17/2019 9:28      | pH                            | 7.68         | pH          |
| GN-AP-MW-4     | 9/17/2019 9:28      | Temperature                   | 20.69        | C           |
| GN-AP-MW-4     | 9/17/2019 9:28      | Turbidity                     | 0.39         | NTU         |
| GN-AP-MW-4     | 9/17/2019 9:33      | Conductivity                  | 559.56       | uS/cm       |
| GN-AP-MW-4     | 9/17/2019 9:33      | DO                            | 0.23         | mg/L        |
| GN-AP-MW-4     | 9/17/2019 9:33      | Depth to Water Detail         | 20.63        | ft          |
| GN-AP-MW-4     | 9/17/2019 9:33      | Oxidation Reduction Potention | -19.5        | mv          |
| GN-AP-MW-4     | 9/17/2019 9:33      | pH                            | 7.66         | pH          |
| GN-AP-MW-4     | 9/17/2019 9:33      | Temperature                   | 20.61        | C           |
| GN-AP-MW-4     | 9/17/2019 9:33      | Turbidity                     | 2.19         | NTU         |
| GN-AP-MW-4     | 9/17/2019 9:38      | Conductivity                  | 568.19       | uS/cm       |
| GN-AP-MW-4     | 9/17/2019 9:38      | DO                            | 0.21         | mg/L        |
| GN-AP-MW-4     | 9/17/2019 9:38      | Depth to Water Detail         | 20.63        | ft          |
| GN-AP-MW-4     | 9/17/2019 9:38      | Oxidation Reduction Potention | -10.96       | mv          |
| GN-AP-MW-4     | 9/17/2019 9:38      | pH                            | 7.66         | pH          |
| GN-AP-MW-4     | 9/17/2019 9:38      | Temperature                   | 20.67        | C           |
| GN-AP-MW-4     | 9/17/2019 9:38      | Turbidity                     | 1.48         | NTU         |
| GN-AP-MW-4     | 9/17/2019 9:43      | Conductivity                  | 588.15       | uS/cm       |
| GN-AP-MW-4     | 9/17/2019 9:43      | DO                            | 0.21         | mg/L        |
| GN-AP-MW-4     | 9/17/2019 9:43      | Depth to Water Detail         | 20.65        | ft          |
| GN-AP-MW-4     | 9/17/2019 9:43      | Oxidation Reduction Potention | -6.9         | mv          |
| GN-AP-MW-4     | 9/17/2019 9:43      | pH                            | 7.65         | pH          |
| GN-AP-MW-4     | 9/17/2019 9:43      | Temperature                   | 20.57        | C           |
| GN-AP-MW-4     | 9/17/2019 9:43      | Turbidity                     | 0.85         | NTU         |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-8     | 9/17/2019 13:04     | Conductivity                  | 463.27       | uS/cm       |
| GN-AP-MW-8     | 9/17/2019 13:04     | DO                            | 2.36         | mg/L        |
| GN-AP-MW-8     | 9/17/2019 13:04     | Depth to Water Detail         | 27.12        | ft          |
| GN-AP-MW-8     | 9/17/2019 13:04     | Oxidation Reduction Potention | -93.94       | mv          |
| GN-AP-MW-8     | 9/17/2019 13:04     | pH                            | 7.55         | pH          |
| GN-AP-MW-8     | 9/17/2019 13:04     | Temperature                   | 25.08        | C           |
| GN-AP-MW-8     | 9/17/2019 13:04     | Turbidity                     | 0.58         | NTU         |
| GN-AP-MW-8     | 9/17/2019 13:15     | Conductivity                  | 439.77       | uS/cm       |
| GN-AP-MW-8     | 9/17/2019 13:15     | DO                            | 0.63         | mg/L        |
| GN-AP-MW-8     | 9/17/2019 13:15     | Depth to Water Detail         | 29.18        | ft          |
| GN-AP-MW-8     | 9/17/2019 13:15     | Oxidation Reduction Potention | -118.66      | mv          |
| GN-AP-MW-8     | 9/17/2019 13:15     | pH                            | 7.55         | pH          |
| GN-AP-MW-8     | 9/17/2019 13:15     | Temperature                   | 25.12        | C           |
| GN-AP-MW-8     | 9/17/2019 13:15     | Turbidity                     | 0.54         | NTU         |



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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-10    | 9/16/2019 10:19     | Conductivity                  | 341          | uS/cm       |
| GN-AP-MW-10    | 9/16/2019 10:19     | DO                            | 0.17         | mg/L        |
| GN-AP-MW-10    | 9/16/2019 10:19     | Depth to Water Detail         | 9.81         | ft          |
| GN-AP-MW-10    | 9/16/2019 10:19     | Oxidation Reduction Potention | 72.92        | mv          |
| GN-AP-MW-10    | 9/16/2019 10:19     | pH                            | 7.51         | pH          |
| GN-AP-MW-10    | 9/16/2019 10:19     | Temperature                   | 23.18        | C           |
| GN-AP-MW-10    | 9/16/2019 10:19     | Turbidity                     | 0.17         | NTU         |
| GN-AP-MW-10    | 9/16/2019 10:24     | Conductivity                  | 340.9        | uS/cm       |
| GN-AP-MW-10    | 9/16/2019 10:24     | DO                            | 0.15         | mg/L        |
| GN-AP-MW-10    | 9/16/2019 10:24     | Depth to Water Detail         | 10.03        | ft          |
| GN-AP-MW-10    | 9/16/2019 10:24     | Oxidation Reduction Potention | 64.89        | mv          |
| GN-AP-MW-10    | 9/16/2019 10:24     | pH                            | 7.53         | pH          |
| GN-AP-MW-10    | 9/16/2019 10:24     | Temperature                   | 23.1         | C           |
| GN-AP-MW-10    | 9/16/2019 10:24     | Turbidity                     | 0.16         | NTU         |
| GN-AP-MW-10    | 9/16/2019 10:29     | Conductivity                  | 338.75       | uS/cm       |
| GN-AP-MW-10    | 9/16/2019 10:29     | DO                            | 0.32         | mg/L        |
| GN-AP-MW-10    | 9/16/2019 10:29     | Depth to Water Detail         | 10.06        | ft          |
| GN-AP-MW-10    | 9/16/2019 10:29     | Oxidation Reduction Potention | 65.72        | mv          |
| GN-AP-MW-10    | 9/16/2019 10:29     | pH                            | 7.49         | pH          |
| GN-AP-MW-10    | 9/16/2019 10:29     | Temperature                   | 22.91        | C           |
| GN-AP-MW-10    | 9/16/2019 10:29     | Turbidity                     | 0.23         | NTU         |
| GN-AP-MW-10    | 9/16/2019 10:34     | Conductivity                  | 338.19       | uS/cm       |
| GN-AP-MW-10    | 9/16/2019 10:34     | DO                            | 0.56         | mg/L        |
| GN-AP-MW-10    | 9/16/2019 10:34     | Depth to Water Detail         | 10.1         | ft          |
| GN-AP-MW-10    | 9/16/2019 10:34     | Oxidation Reduction Potention | 62.41        | mv          |
| GN-AP-MW-10    | 9/16/2019 10:34     | pH                            | 7.53         | pH          |
| GN-AP-MW-10    | 9/16/2019 10:34     | Temperature                   | 22.96        | C           |
| GN-AP-MW-10    | 9/16/2019 10:34     | Turbidity                     | 0.22         | NTU         |
| GN-AP-MW-10    | 9/16/2019 10:39     | Conductivity                  | 337.47       | uS/cm       |
| GN-AP-MW-10    | 9/16/2019 10:39     | DO                            | 0.65         | mg/L        |
| GN-AP-MW-10    | 9/16/2019 10:39     | Depth to Water Detail         | 10.12        | ft          |
| GN-AP-MW-10    | 9/16/2019 10:39     | Oxidation Reduction Potention | 59.04        | mv          |
| GN-AP-MW-10    | 9/16/2019 10:39     | pH                            | 7.57         | pH          |
| GN-AP-MW-10    | 9/16/2019 10:39     | Temperature                   | 22.77        | C           |
| GN-AP-MW-10    | 9/16/2019 10:39     | Turbidity                     | 0.22         | NTU         |
| GN-AP-MW-10    | 9/16/2019 10:44     | Conductivity                  | 336.59       | uS/cm       |
| GN-AP-MW-10    | 9/16/2019 10:44     | DO                            | 0.68         | mg/L        |
| GN-AP-MW-10    | 9/16/2019 10:44     | Depth to Water Detail         | 10.13        | ft          |
| GN-AP-MW-10    | 9/16/2019 10:44     | Oxidation Reduction Potention | 56.25        | mv          |
| GN-AP-MW-10    | 9/16/2019 10:44     | pH                            | 7.59         | pH          |
| GN-AP-MW-10    | 9/16/2019 10:44     | Temperature                   | 22.5         | C           |
| GN-AP-MW-10    | 9/16/2019 10:44     | Turbidity                     | 0.18         | NTU         |
| GN-AP-MW-10    | 9/16/2019 10:49     | Conductivity                  | 335.23       | uS/cm       |
| GN-AP-MW-10    | 9/16/2019 10:49     | DO                            | 0.68         | mg/L        |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-10    | 9/16/2019 10:49     | Depth to Water Detail         | 10.15        | ft          |
| GN-AP-MW-10    | 9/16/2019 10:49     | Oxidation Reduction Potention | 56.14        | mv          |
| GN-AP-MW-10    | 9/16/2019 10:49     | pH                            | 7.6          | pH          |
| GN-AP-MW-10    | 9/16/2019 10:49     | Temperature                   | 22.41        | C           |
| GN-AP-MW-10    | 9/16/2019 10:49     | Turbidity                     | 0.16         | NTU         |

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| WELL ID     | READING TIME    | DESCRIPTION                   | VALUE  | UNIT  |
|-------------|-----------------|-------------------------------|--------|-------|
| GN-AP-MW-11 | 9/16/2019 11:40 | Conductivity                  | 359.35 | uS/cm |
| GN-AP-MW-11 | 9/16/2019 11:40 | DO                            | 2.62   | mg/L  |
| GN-AP-MW-11 | 9/16/2019 11:40 | Depth to Water Detail         | 8.62   | ft    |
| GN-AP-MW-11 | 9/16/2019 11:40 | Oxidation Reduction Potention | 81.95  | mv    |
| GN-AP-MW-11 | 9/16/2019 11:40 | pH                            | 7.71   | pH    |
| GN-AP-MW-11 | 9/16/2019 11:40 | Temperature                   | 24.82  | C     |
| GN-AP-MW-11 | 9/16/2019 11:40 | Turbidity                     | 0.21   | NTU   |
| GN-AP-MW-11 | 9/16/2019 11:45 | Conductivity                  | 354.46 | uS/cm |
| GN-AP-MW-11 | 9/16/2019 11:45 | DO                            | 2.13   | mg/L  |
| GN-AP-MW-11 | 9/16/2019 11:45 | Depth to Water Detail         | 9.37   | ft    |
| GN-AP-MW-11 | 9/16/2019 11:45 | Oxidation Reduction Potention | 78.15  | mv    |
| GN-AP-MW-11 | 9/16/2019 11:45 | pH                            | 7.65   | pH    |
| GN-AP-MW-11 | 9/16/2019 11:45 | Temperature                   | 24.26  | C     |
| GN-AP-MW-11 | 9/16/2019 11:45 | Turbidity                     | 0.23   | NTU   |
| GN-AP-MW-11 | 9/16/2019 11:50 | Conductivity                  | 351.57 | uS/cm |
| GN-AP-MW-11 | 9/16/2019 11:50 | DO                            | 1.42   | mg/L  |
| GN-AP-MW-11 | 9/16/2019 11:50 | Depth to Water Detail         | 9.98   | ft    |
| GN-AP-MW-11 | 9/16/2019 11:50 | Oxidation Reduction Potention | 76.23  | mv    |
| GN-AP-MW-11 | 9/16/2019 11:50 | pH                            | 7.59   | pH    |
| GN-AP-MW-11 | 9/16/2019 11:50 | Temperature                   | 25.44  | C     |
| GN-AP-MW-11 | 9/16/2019 11:50 | Turbidity                     | 0.49   | NTU   |
| GN-AP-MW-11 | 9/16/2019 11:55 | Conductivity                  | 352.73 | uS/cm |
| GN-AP-MW-11 | 9/16/2019 11:55 | DO                            | 1.62   | mg/L  |
| GN-AP-MW-11 | 9/16/2019 11:55 | Depth to Water Detail         | 10.22  | ft    |
| GN-AP-MW-11 | 9/16/2019 11:55 | Oxidation Reduction Potention | 76.72  | mv    |
| GN-AP-MW-11 | 9/16/2019 11:55 | pH                            | 7.61   | pH    |
| GN-AP-MW-11 | 9/16/2019 11:55 | Temperature                   | 25.39  | C     |
| GN-AP-MW-11 | 9/16/2019 11:55 | Turbidity                     | 0.24   | NTU   |
| GN-AP-MW-11 | 9/16/2019 12:00 | Conductivity                  | 357.74 | uS/cm |
| GN-AP-MW-11 | 9/16/2019 12:00 | DO                            | 1.93   | mg/L  |
| GN-AP-MW-11 | 9/16/2019 12:00 | Depth to Water Detail         | 10.37  | ft    |
| GN-AP-MW-11 | 9/16/2019 12:00 | Oxidation Reduction Potention | 77.64  | mv    |
| GN-AP-MW-11 | 9/16/2019 12:00 | pH                            | 7.63   | pH    |
| GN-AP-MW-11 | 9/16/2019 12:00 | Temperature                   | 25.53  | C     |
| GN-AP-MW-11 | 9/16/2019 12:00 | Turbidity                     | 0.2    | NTU   |
| GN-AP-MW-11 | 9/16/2019 12:05 | Conductivity                  | 360.1  | uS/cm |
| GN-AP-MW-11 | 9/16/2019 12:05 | DO                            | 2.07   | mg/L  |
| GN-AP-MW-11 | 9/16/2019 12:05 | Depth to Water Detail         | 10.46  | ft    |
| GN-AP-MW-11 | 9/16/2019 12:05 | Oxidation Reduction Potention | 81.16  | mv    |
| GN-AP-MW-11 | 9/16/2019 12:05 | pH                            | 7.59   | pH    |
| GN-AP-MW-11 | 9/16/2019 12:05 | Temperature                   | 25.2   | C     |
| GN-AP-MW-11 | 9/16/2019 12:05 | Turbidity                     | 0.27   | NTU   |
| GN-AP-MW-11 | 9/16/2019 12:10 | Conductivity                  | 361.62 | uS/cm |
| GN-AP-MW-11 | 9/16/2019 12:10 | DO                            | 2.15   | mg/L  |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-11    | 9/16/2019 12:10     | Depth to Water Detail         | 10.61        | ft          |
| GN-AP-MW-11    | 9/16/2019 12:10     | Oxidation Reduction Potention | 81.13        | mv          |
| GN-AP-MW-11    | 9/16/2019 12:10     | pH                            | 7.62         | pH          |
| GN-AP-MW-11    | 9/16/2019 12:10     | Temperature                   | 25.06        | C           |
| GN-AP-MW-11    | 9/16/2019 12:10     | Turbidity                     | 0.3          | NTU         |
| GN-AP-MW-11    | 9/16/2019 12:15     | Conductivity                  | 359.76       | uS/cm       |
| GN-AP-MW-11    | 9/16/2019 12:15     | DO                            | 2.3          | mg/L        |
| GN-AP-MW-11    | 9/16/2019 12:15     | Depth to Water Detail         | 10.65        | ft          |
| GN-AP-MW-11    | 9/16/2019 12:15     | Oxidation Reduction Potention | 81.53        | mv          |
| GN-AP-MW-11    | 9/16/2019 12:15     | pH                            | 7.65         | pH          |
| GN-AP-MW-11    | 9/16/2019 12:15     | Temperature                   | 25.35        | C           |
| GN-AP-MW-11    | 9/16/2019 12:15     | Turbidity                     | 0.27         | NTU         |
| GN-AP-MW-11    | 9/16/2019 12:20     | Conductivity                  | 359.14       | uS/cm       |
| GN-AP-MW-11    | 9/16/2019 12:20     | DO                            | 2.4          | mg/L        |
| GN-AP-MW-11    | 9/16/2019 12:20     | Depth to Water Detail         | 10.69        | ft          |
| GN-AP-MW-11    | 9/16/2019 12:20     | Oxidation Reduction Potention | 82.51        | mv          |
| GN-AP-MW-11    | 9/16/2019 12:20     | pH                            | 7.68         | pH          |
| GN-AP-MW-11    | 9/16/2019 12:20     | Temperature                   | 25.05        | C           |
| GN-AP-MW-11    | 9/16/2019 12:20     | Turbidity                     | 0.29         | NTU         |
| GN-AP-MW-11    | 9/16/2019 12:25     | Conductivity                  | 358.81       | uS/cm       |
| GN-AP-MW-11    | 9/16/2019 12:25     | DO                            | 2.51         | mg/L        |
| GN-AP-MW-11    | 9/16/2019 12:25     | Depth to Water Detail         | 10.71        | ft          |
| GN-AP-MW-11    | 9/16/2019 12:25     | Oxidation Reduction Potention | 83.96        | mv          |
| GN-AP-MW-11    | 9/16/2019 12:25     | pH                            | 7.7          | pH          |
| GN-AP-MW-11    | 9/16/2019 12:25     | Temperature                   | 25.07        | C           |
| GN-AP-MW-11    | 9/16/2019 12:25     | Turbidity                     | 0.18         | NTU         |
| GN-AP-MW-11    | 9/16/2019 12:30     | Conductivity                  | 359.01       | uS/cm       |
| GN-AP-MW-11    | 9/16/2019 12:30     | DO                            | 2.55         | mg/L        |
| GN-AP-MW-11    | 9/16/2019 12:30     | Depth to Water Detail         | 10.74        | ft          |
| GN-AP-MW-11    | 9/16/2019 12:30     | Oxidation Reduction Potention | 84.86        | mv          |
| GN-AP-MW-11    | 9/16/2019 12:30     | pH                            | 7.71         | pH          |
| GN-AP-MW-11    | 9/16/2019 12:30     | Temperature                   | 25.17        | C           |
| GN-AP-MW-11    | 9/16/2019 12:30     | Turbidity                     | 0.19         | NTU         |

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| WELL ID     | READING TIME    | DESCRIPTION                   | VALUE   | UNIT  |
|-------------|-----------------|-------------------------------|---------|-------|
| GN-AP-MW-12 | 9/16/2019 13:44 | Conductivity                  | 618.71  | uS/cm |
| GN-AP-MW-12 | 9/16/2019 13:44 | DO                            | 0.2     | mg/L  |
| GN-AP-MW-12 | 9/16/2019 13:44 | Depth to Water Detail         | 5.58    | ft    |
| GN-AP-MW-12 | 9/16/2019 13:44 | Oxidation Reduction Potention | -64.36  | mv    |
| GN-AP-MW-12 | 9/16/2019 13:44 | pH                            | 7.15    | pH    |
| GN-AP-MW-12 | 9/16/2019 13:44 | Temperature                   | 28.13   | C     |
| GN-AP-MW-12 | 9/16/2019 13:44 | Turbidity                     | 3.86    | NTU   |
| GN-AP-MW-12 | 9/16/2019 13:49 | Conductivity                  | 607.25  | uS/cm |
| GN-AP-MW-12 | 9/16/2019 13:49 | DO                            | 0.15    | mg/L  |
| GN-AP-MW-12 | 9/16/2019 13:49 | Depth to Water Detail         | 7.12    | ft    |
| GN-AP-MW-12 | 9/16/2019 13:49 | Oxidation Reduction Potention | -86.54  | mv    |
| GN-AP-MW-12 | 9/16/2019 13:49 | pH                            | 7.15    | pH    |
| GN-AP-MW-12 | 9/16/2019 13:49 | Temperature                   | 27.48   | C     |
| GN-AP-MW-12 | 9/16/2019 13:49 | Turbidity                     | 1.46    | NTU   |
| GN-AP-MW-12 | 9/16/2019 13:54 | Conductivity                  | 592.97  | uS/cm |
| GN-AP-MW-12 | 9/16/2019 13:54 | DO                            | 0.13    | mg/L  |
| GN-AP-MW-12 | 9/16/2019 13:54 | Depth to Water Detail         | 8.32    | ft    |
| GN-AP-MW-12 | 9/16/2019 13:54 | Oxidation Reduction Potention | -104.12 | mv    |
| GN-AP-MW-12 | 9/16/2019 13:54 | pH                            | 7.21    | pH    |
| GN-AP-MW-12 | 9/16/2019 13:54 | Temperature                   | 27.39   | C     |
| GN-AP-MW-12 | 9/16/2019 13:54 | Turbidity                     | 0.97    | NTU   |
| GN-AP-MW-12 | 9/16/2019 13:59 | Conductivity                  | 583.15  | uS/cm |
| GN-AP-MW-12 | 9/16/2019 13:59 | DO                            | 0.13    | mg/L  |
| GN-AP-MW-12 | 9/16/2019 13:59 | Depth to Water Detail         | 9.48    | ft    |
| GN-AP-MW-12 | 9/16/2019 13:59 | Oxidation Reduction Potention | -118.17 | mv    |
| GN-AP-MW-12 | 9/16/2019 13:59 | pH                            | 7.29    | pH    |
| GN-AP-MW-12 | 9/16/2019 13:59 | Temperature                   | 26.62   | C     |
| GN-AP-MW-12 | 9/16/2019 13:59 | Turbidity                     | 0.95    | NTU   |
| GN-AP-MW-12 | 9/16/2019 14:04 | Conductivity                  | 573.79  | uS/cm |
| GN-AP-MW-12 | 9/16/2019 14:04 | DO                            | 0.12    | mg/L  |
| GN-AP-MW-12 | 9/16/2019 14:04 | Depth to Water Detail         | 10.41   | ft    |
| GN-AP-MW-12 | 9/16/2019 14:04 | Oxidation Reduction Potention | -129.1  | mv    |
| GN-AP-MW-12 | 9/16/2019 14:04 | pH                            | 7.36    | pH    |
| GN-AP-MW-12 | 9/16/2019 14:04 | Temperature                   | 26.52   | C     |
| GN-AP-MW-12 | 9/16/2019 14:04 | Turbidity                     | 1.14    | NTU   |
| GN-AP-MW-12 | 9/16/2019 14:09 | Conductivity                  | 568.53  | uS/cm |
| GN-AP-MW-12 | 9/16/2019 14:09 | DO                            | 0.11    | mg/L  |
| GN-AP-MW-12 | 9/16/2019 14:09 | Depth to Water Detail         | 11.31   | ft    |
| GN-AP-MW-12 | 9/16/2019 14:09 | Oxidation Reduction Potention | -137.58 | mv    |
| GN-AP-MW-12 | 9/16/2019 14:09 | pH                            | 7.41    | pH    |
| GN-AP-MW-12 | 9/16/2019 14:09 | Temperature                   | 26.48   | C     |
| GN-AP-MW-12 | 9/16/2019 14:09 | Turbidity                     | 0.68    | NTU   |
| GN-AP-MW-12 | 9/16/2019 14:14 | Conductivity                  | 556.78  | uS/cm |
| GN-AP-MW-12 | 9/16/2019 14:14 | DO                            | 0.11    | mg/L  |

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| WELL ID     | READING TIME    | DESCRIPTION                   | VALUE   | UNIT  |
|-------------|-----------------|-------------------------------|---------|-------|
| GN-AP-MW-12 | 9/16/2019 14:14 | Depth to Water Detail         | 12.11   | ft    |
| GN-AP-MW-12 | 9/16/2019 14:14 | Oxidation Reduction Potention | -142.24 | mv    |
| GN-AP-MW-12 | 9/16/2019 14:14 | pH                            | 7.42    | pH    |
| GN-AP-MW-12 | 9/16/2019 14:14 | Temperature                   | 25.88   | C     |
| GN-AP-MW-12 | 9/16/2019 14:14 | Turbidity                     | 1.29    | NTU   |
| GN-AP-MW-12 | 9/16/2019 14:19 | Conductivity                  | 554.01  | uS/cm |
| GN-AP-MW-12 | 9/16/2019 14:19 | DO                            | 0.11    | mg/L  |
| GN-AP-MW-12 | 9/16/2019 14:19 | Depth to Water Detail         | 12.92   | ft    |
| GN-AP-MW-12 | 9/16/2019 14:19 | Oxidation Reduction Potention | -146.48 | mv    |
| GN-AP-MW-12 | 9/16/2019 14:19 | pH                            | 7.43    | pH    |
| GN-AP-MW-12 | 9/16/2019 14:19 | Temperature                   | 26.15   | C     |
| GN-AP-MW-12 | 9/16/2019 14:19 | Turbidity                     | 1.51    | NTU   |
| GN-AP-MW-12 | 9/16/2019 14:24 | Conductivity                  | 545.85  | uS/cm |
| GN-AP-MW-12 | 9/16/2019 14:24 | DO                            | 0.11    | mg/L  |
| GN-AP-MW-12 | 9/16/2019 14:24 | Depth to Water Detail         | 13.71   | ft    |
| GN-AP-MW-12 | 9/16/2019 14:24 | Oxidation Reduction Potention | -148.4  | mv    |
| GN-AP-MW-12 | 9/16/2019 14:24 | pH                            | 7.44    | pH    |
| GN-AP-MW-12 | 9/16/2019 14:24 | Temperature                   | 26.02   | C     |
| GN-AP-MW-12 | 9/16/2019 14:24 | Turbidity                     | 1.12    | NTU   |
| GN-AP-MW-12 | 9/16/2019 14:29 | Conductivity                  | 538.04  | uS/cm |
| GN-AP-MW-12 | 9/16/2019 14:29 | DO                            | 0.11    | mg/L  |
| GN-AP-MW-12 | 9/16/2019 14:29 | Depth to Water Detail         | 14.33   | ft    |
| GN-AP-MW-12 | 9/16/2019 14:29 | Oxidation Reduction Potention | -150.6  | mv    |
| GN-AP-MW-12 | 9/16/2019 14:29 | pH                            | 7.45    | pH    |
| GN-AP-MW-12 | 9/16/2019 14:29 | Temperature                   | 25.9    | C     |
| GN-AP-MW-12 | 9/16/2019 14:29 | Turbidity                     | 0.96    | NTU   |
| GN-AP-MW-12 | 9/16/2019 14:34 | Conductivity                  | 530.11  | uS/cm |
| GN-AP-MW-12 | 9/16/2019 14:34 | DO                            | 0.11    | mg/L  |
| GN-AP-MW-12 | 9/16/2019 14:34 | Depth to Water Detail         | 15.01   | ft    |
| GN-AP-MW-12 | 9/16/2019 14:34 | Oxidation Reduction Potention | -151.13 | mv    |
| GN-AP-MW-12 | 9/16/2019 14:34 | pH                            | 7.45    | pH    |
| GN-AP-MW-12 | 9/16/2019 14:34 | Temperature                   | 25.73   | C     |
| GN-AP-MW-12 | 9/16/2019 14:34 | Turbidity                     | 1.53    | NTU   |
| GN-AP-MW-12 | 9/16/2019 14:39 | Conductivity                  | 536.66  | uS/cm |
| GN-AP-MW-12 | 9/16/2019 14:39 | DO                            | 0.1     | mg/L  |
| GN-AP-MW-12 | 9/16/2019 14:39 | Depth to Water Detail         | 15.43   | ft    |
| GN-AP-MW-12 | 9/16/2019 14:39 | Oxidation Reduction Potention | -151.81 | mv    |
| GN-AP-MW-12 | 9/16/2019 14:39 | pH                            | 7.46    | pH    |
| GN-AP-MW-12 | 9/16/2019 14:39 | Temperature                   | 25.34   | C     |
| GN-AP-MW-12 | 9/16/2019 14:39 | Turbidity                     | 1.43    | NTU   |
| GN-AP-MW-12 | 9/16/2019 14:44 | Conductivity                  | 530.64  | uS/cm |
| GN-AP-MW-12 | 9/16/2019 14:44 | DO                            | 0.1     | mg/L  |
| GN-AP-MW-12 | 9/16/2019 14:44 | Depth to Water Detail         | 15.96   | ft    |
| GN-AP-MW-12 | 9/16/2019 14:44 | Oxidation Reduction Potention | -151.43 | mv    |

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| WELL ID     | READING TIME    | DESCRIPTION                   | VALUE   | UNIT  |
|-------------|-----------------|-------------------------------|---------|-------|
| GN-AP-MW-12 | 9/16/2019 14:44 | pH                            | 7.46    | pH    |
| GN-AP-MW-12 | 9/16/2019 14:44 | Temperature                   | 25.15   | C     |
| GN-AP-MW-12 | 9/16/2019 14:44 | Turbidity                     | 1.79    | NTU   |
| GN-AP-MW-12 | 9/16/2019 14:49 | Conductivity                  | 528.89  | uS/cm |
| GN-AP-MW-12 | 9/16/2019 14:49 | DO                            | 0.1     | mg/L  |
| GN-AP-MW-12 | 9/16/2019 14:49 | Depth to Water Detail         | 16.1    | ft    |
| GN-AP-MW-12 | 9/16/2019 14:49 | Oxidation Reduction Potention | -151.6  | mv    |
| GN-AP-MW-12 | 9/16/2019 14:49 | pH                            | 7.46    | pH    |
| GN-AP-MW-12 | 9/16/2019 14:49 | Temperature                   | 25.26   | C     |
| GN-AP-MW-12 | 9/16/2019 14:49 | Turbidity                     | 1.05    | NTU   |
| GN-AP-MW-12 | 9/16/2019 14:54 | Conductivity                  | 521.65  | uS/cm |
| GN-AP-MW-12 | 9/16/2019 14:54 | DO                            | 0.1     | mg/L  |
| GN-AP-MW-12 | 9/16/2019 14:54 | Depth to Water Detail         | 16.28   | ft    |
| GN-AP-MW-12 | 9/16/2019 14:54 | Oxidation Reduction Potention | -149.23 | mv    |
| GN-AP-MW-12 | 9/16/2019 14:54 | pH                            | 7.42    | pH    |
| GN-AP-MW-12 | 9/16/2019 14:54 | Temperature                   | 25.07   | C     |
| GN-AP-MW-12 | 9/16/2019 14:54 | Turbidity                     | 1.2     | NTU   |
| GN-AP-MW-12 | 9/16/2019 14:59 | Conductivity                  | 509.5   | uS/cm |
| GN-AP-MW-12 | 9/16/2019 14:59 | DO                            | 0.1     | mg/L  |
| GN-AP-MW-12 | 9/16/2019 14:59 | Depth to Water Detail         | 16.42   | ft    |
| GN-AP-MW-12 | 9/16/2019 14:59 | Oxidation Reduction Potention | -149.06 | mv    |
| GN-AP-MW-12 | 9/16/2019 14:59 | pH                            | 7.43    | pH    |
| GN-AP-MW-12 | 9/16/2019 14:59 | Temperature                   | 24.95   | C     |
| GN-AP-MW-12 | 9/16/2019 14:59 | Turbidity                     | 1.13    | NTU   |
| GN-AP-MW-12 | 9/16/2019 15:04 | Conductivity                  | 507.23  | uS/cm |
| GN-AP-MW-12 | 9/16/2019 15:04 | DO                            | 0.1     | mg/L  |
| GN-AP-MW-12 | 9/16/2019 15:04 | Depth to Water Detail         | 16.54   | ft    |
| GN-AP-MW-12 | 9/16/2019 15:04 | Oxidation Reduction Potention | -149.38 | mv    |
| GN-AP-MW-12 | 9/16/2019 15:04 | pH                            | 7.44    | pH    |
| GN-AP-MW-12 | 9/16/2019 15:04 | Temperature                   | 24.98   | C     |
| GN-AP-MW-12 | 9/16/2019 15:04 | Turbidity                     | 1.12    | NTU   |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-15R   | 9/18/2019 13:46     | Conductivity                  | 1149.36      | uS/cm       |
| GN-AP-MW-15R   | 9/18/2019 13:46     | DO                            | 1.34         | mg/L        |
| GN-AP-MW-15R   | 9/18/2019 13:46     | Depth to Water Detail         | 41.7         | ft          |
| GN-AP-MW-15R   | 9/18/2019 13:46     | Oxidation Reduction Potention | 41.23        | mv          |
| GN-AP-MW-15R   | 9/18/2019 13:46     | pH                            | 7.36         | pH          |
| GN-AP-MW-15R   | 9/18/2019 13:46     | Temperature                   | 23.42        | C           |
| GN-AP-MW-15R   | 9/18/2019 13:46     | Turbidity                     | 0.62         | NTU         |
| GN-AP-MW-15R   | 9/18/2019 13:51     | Conductivity                  | 1133.51      | uS/cm       |
| GN-AP-MW-15R   | 9/18/2019 13:51     | DO                            | 0.88         | mg/L        |
| GN-AP-MW-15R   | 9/18/2019 13:51     | Depth to Water Detail         | 42.21        | ft          |
| GN-AP-MW-15R   | 9/18/2019 13:51     | Oxidation Reduction Potention | 33.38        | mv          |
| GN-AP-MW-15R   | 9/18/2019 13:51     | pH                            | 7.47         | pH          |
| GN-AP-MW-15R   | 9/18/2019 13:51     | Temperature                   | 23.52        | C           |
| GN-AP-MW-15R   | 9/18/2019 13:51     | Turbidity                     | 0.56         | NTU         |
| GN-AP-MW-15R   | 9/18/2019 13:56     | Conductivity                  | 1129.89      | uS/cm       |
| GN-AP-MW-15R   | 9/18/2019 13:56     | DO                            | 0.71         | mg/L        |
| GN-AP-MW-15R   | 9/18/2019 13:56     | Depth to Water Detail         | 42.47        | ft          |
| GN-AP-MW-15R   | 9/18/2019 13:56     | Oxidation Reduction Potention | 30.03        | mv          |
| GN-AP-MW-15R   | 9/18/2019 13:56     | pH                            | 7.49         | pH          |
| GN-AP-MW-15R   | 9/18/2019 13:56     | Temperature                   | 23.47        | C           |
| GN-AP-MW-15R   | 9/18/2019 13:56     | Turbidity                     | 0.46         | NTU         |
| GN-AP-MW-15R   | 9/18/2019 14:01     | Conductivity                  | 1128.04      | uS/cm       |
| GN-AP-MW-15R   | 9/18/2019 14:01     | DO                            | 0.63         | mg/L        |
| GN-AP-MW-15R   | 9/18/2019 14:01     | Depth to Water Detail         | 42.69        | ft          |
| GN-AP-MW-15R   | 9/18/2019 14:01     | Oxidation Reduction Potention | 25.23        | mv          |
| GN-AP-MW-15R   | 9/18/2019 14:01     | pH                            | 7.5          | pH          |
| GN-AP-MW-15R   | 9/18/2019 14:01     | Temperature                   | 23.2         | C           |
| GN-AP-MW-15R   | 9/18/2019 14:01     | Turbidity                     | 0.44         | NTU         |
| GN-AP-MW-15R   | 9/18/2019 14:06     | Conductivity                  | 1125.88      | uS/cm       |
| GN-AP-MW-15R   | 9/18/2019 14:06     | DO                            | 0.58         | mg/L        |
| GN-AP-MW-15R   | 9/18/2019 14:06     | Depth to Water Detail         | 42.87        | ft          |
| GN-AP-MW-15R   | 9/18/2019 14:06     | Oxidation Reduction Potention | 22.99        | mv          |
| GN-AP-MW-15R   | 9/18/2019 14:06     | pH                            | 7.51         | pH          |
| GN-AP-MW-15R   | 9/18/2019 14:06     | Temperature                   | 23.23        | C           |
| GN-AP-MW-15R   | 9/18/2019 14:06     | Turbidity                     | 0.48         | NTU         |
| GN-AP-MW-15R   | 9/18/2019 14:11     | Conductivity                  | 1122.88      | uS/cm       |
| GN-AP-MW-15R   | 9/18/2019 14:11     | DO                            | 0.54         | mg/L        |
| GN-AP-MW-15R   | 9/18/2019 14:11     | Depth to Water Detail         | 42.98        | ft          |
| GN-AP-MW-15R   | 9/18/2019 14:11     | Oxidation Reduction Potention | 18.38        | mv          |
| GN-AP-MW-15R   | 9/18/2019 14:11     | pH                            | 7.5          | pH          |
| GN-AP-MW-15R   | 9/18/2019 14:11     | Temperature                   | 23.65        | C           |
| GN-AP-MW-15R   | 9/18/2019 14:11     | Turbidity                     | 0.42         | NTU         |
| GN-AP-MW-15R   | 9/18/2019 14:16     | Conductivity                  | 1118.66      | uS/cm       |
| GN-AP-MW-15R   | 9/18/2019 14:16     | DO                            | 0.52         | mg/L        |



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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-15R   | 9/18/2019 14:16     | Depth to Water Detail         | 43.08        | ft          |
| GN-AP-MW-15R   | 9/18/2019 14:16     | Oxidation Reduction Potention | 15.17        | mv          |
| GN-AP-MW-15R   | 9/18/2019 14:16     | pH                            | 7.5          | pH          |
| GN-AP-MW-15R   | 9/18/2019 14:16     | Temperature                   | 23.76        | C           |
| GN-AP-MW-15R   | 9/18/2019 14:16     | Turbidity                     | 0.52         | NTU         |
| GN-AP-MW-15R   | 9/18/2019 14:21     | Conductivity                  | 1116.45      | uS/cm       |
| GN-AP-MW-15R   | 9/18/2019 14:21     | DO                            | 0.51         | mg/L        |
| GN-AP-MW-15R   | 9/18/2019 14:21     | Depth to Water Detail         | 43.15        | ft          |
| GN-AP-MW-15R   | 9/18/2019 14:21     | Oxidation Reduction Potention | 12.94        | mv          |
| GN-AP-MW-15R   | 9/18/2019 14:21     | pH                            | 7.5          | pH          |
| GN-AP-MW-15R   | 9/18/2019 14:21     | Temperature                   | 23.41        | C           |
| GN-AP-MW-15R   | 9/18/2019 14:21     | Turbidity                     | 0.54         | NTU         |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-19    | 9/18/2019 10:17     | Conductivity                  | 407.53       | uS/cm       |
| GN-AP-MW-19    | 9/18/2019 10:17     | DO                            | 0.7          | mg/L        |
| GN-AP-MW-19    | 9/18/2019 10:17     | Depth to Water Detail         | 49.98        | ft          |
| GN-AP-MW-19    | 9/18/2019 10:17     | Oxidation Reduction Potention | -108.69      | mv          |
| GN-AP-MW-19    | 9/18/2019 10:17     | pH                            | 7.57         | pH          |
| GN-AP-MW-19    | 9/18/2019 10:17     | Temperature                   | 23.52        | C           |
| GN-AP-MW-19    | 9/18/2019 10:17     | Turbidity                     | 2.16         | NTU         |
| GN-AP-MW-19    | 9/18/2019 10:22     | Conductivity                  | 408.28       | uS/cm       |
| GN-AP-MW-19    | 9/18/2019 10:22     | DO                            | 0.62         | mg/L        |
| GN-AP-MW-19    | 9/18/2019 10:22     | Depth to Water Detail         | 50.26        | ft          |
| GN-AP-MW-19    | 9/18/2019 10:22     | Oxidation Reduction Potention | -118.83      | mv          |
| GN-AP-MW-19    | 9/18/2019 10:22     | pH                            | 7.58         | pH          |
| GN-AP-MW-19    | 9/18/2019 10:22     | Temperature                   | 23.47        | C           |
| GN-AP-MW-19    | 9/18/2019 10:22     | Turbidity                     | 0.52         | NTU         |
| GN-AP-MW-19    | 9/18/2019 10:27     | Conductivity                  | 407.55       | uS/cm       |
| GN-AP-MW-19    | 9/18/2019 10:27     | DO                            | 0.56         | mg/L        |
| GN-AP-MW-19    | 9/18/2019 10:27     | Depth to Water Detail         | 50.51        | ft          |
| GN-AP-MW-19    | 9/18/2019 10:27     | Oxidation Reduction Potention | -122.72      | mv          |
| GN-AP-MW-19    | 9/18/2019 10:27     | pH                            | 7.53         | pH          |
| GN-AP-MW-19    | 9/18/2019 10:27     | Temperature                   | 23.33        | C           |
| GN-AP-MW-19    | 9/18/2019 10:27     | Turbidity                     | 0.76         | NTU         |
| GN-AP-MW-19    | 9/18/2019 10:32     | Conductivity                  | 407.53       | uS/cm       |
| GN-AP-MW-19    | 9/18/2019 10:32     | DO                            | 0.56         | mg/L        |
| GN-AP-MW-19    | 9/18/2019 10:32     | Depth to Water Detail         | 50.7         | ft          |
| GN-AP-MW-19    | 9/18/2019 10:32     | Oxidation Reduction Potention | -128.66      | mv          |
| GN-AP-MW-19    | 9/18/2019 10:32     | pH                            | 7.56         | pH          |
| GN-AP-MW-19    | 9/18/2019 10:32     | Temperature                   | 23.24        | C           |
| GN-AP-MW-19    | 9/18/2019 10:32     | Turbidity                     | 0.51         | NTU         |
| GN-AP-MW-19    | 9/18/2019 10:37     | Conductivity                  | 406.03       | uS/cm       |
| GN-AP-MW-19    | 9/18/2019 10:37     | DO                            | 0.55         | mg/L        |
| GN-AP-MW-19    | 9/18/2019 10:37     | Depth to Water Detail         | 50.98        | ft          |
| GN-AP-MW-19    | 9/18/2019 10:37     | Oxidation Reduction Potention | -132.31      | mv          |
| GN-AP-MW-19    | 9/18/2019 10:37     | pH                            | 7.58         | pH          |
| GN-AP-MW-19    | 9/18/2019 10:37     | Temperature                   | 23.39        | C           |
| GN-AP-MW-19    | 9/18/2019 10:37     | Turbidity                     | 0.45         | NTU         |
| GN-AP-MW-19    | 9/18/2019 10:42     | Conductivity                  | 407.34       | uS/cm       |
| GN-AP-MW-19    | 9/18/2019 10:42     | DO                            | 0.53         | mg/L        |
| GN-AP-MW-19    | 9/18/2019 10:42     | Depth to Water Detail         | 51.12        | ft          |
| GN-AP-MW-19    | 9/18/2019 10:42     | Oxidation Reduction Potention | -134.6       | mv          |
| GN-AP-MW-19    | 9/18/2019 10:42     | pH                            | 7.58         | pH          |
| GN-AP-MW-19    | 9/18/2019 10:42     | Temperature                   | 23.48        | C           |
| GN-AP-MW-19    | 9/18/2019 10:42     | Turbidity                     | 0.48         | NTU         |
| GN-AP-MW-19    | 9/18/2019 10:47     | Conductivity                  | 407.37       | uS/cm       |
| GN-AP-MW-19    | 9/18/2019 10:47     | DO                            | 0.51         | mg/L        |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-19    | 9/18/2019 10:47     | Depth to Water Detail         | 51.28        | ft          |
| GN-AP-MW-19    | 9/18/2019 10:47     | Oxidation Reduction Potention | -137.2       | mv          |
| GN-AP-MW-19    | 9/18/2019 10:47     | pH                            | 7.59         | pH          |
| GN-AP-MW-19    | 9/18/2019 10:47     | Temperature                   | 23.58        | C           |
| GN-AP-MW-19    | 9/18/2019 10:47     | Turbidity                     | 0.62         | NTU         |
| GN-AP-MW-19    | 9/18/2019 10:52     | Conductivity                  | 407.41       | uS/cm       |
| GN-AP-MW-19    | 9/18/2019 10:52     | DO                            | 0.5          | mg/L        |
| GN-AP-MW-19    | 9/18/2019 10:52     | Depth to Water Detail         | 51.4         | ft          |
| GN-AP-MW-19    | 9/18/2019 10:52     | Oxidation Reduction Potention | -138.57      | mv          |
| GN-AP-MW-19    | 9/18/2019 10:52     | pH                            | 7.6          | pH          |
| GN-AP-MW-19    | 9/18/2019 10:52     | Temperature                   | 23.45        | C           |
| GN-AP-MW-19    | 9/18/2019 10:52     | Turbidity                     | 0.42         | NTU         |

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| WELL ID      | READING TIME    | DESCRIPTION                   | VALUE   | UNIT  |
|--------------|-----------------|-------------------------------|---------|-------|
| GN-AP-MW-23D | 9/18/2019 15:51 | Conductivity                  | 662     | uS/cm |
| GN-AP-MW-23D | 9/18/2019 15:51 | DO                            | 1.44    | mg/L  |
| GN-AP-MW-23D | 9/18/2019 15:51 | Depth to Water Detail         | 16.38   | ft    |
| GN-AP-MW-23D | 9/18/2019 15:51 | Oxidation Reduction Potention | -89.35  | mv    |
| GN-AP-MW-23D | 9/18/2019 15:51 | pH                            | 7.56    | pH    |
| GN-AP-MW-23D | 9/18/2019 15:51 | Temperature                   | 25.03   | C     |
| GN-AP-MW-23D | 9/18/2019 15:51 | Turbidity                     | 12      | NTU   |
| GN-AP-MW-23D | 9/18/2019 15:56 | Conductivity                  | 660.91  | uS/cm |
| GN-AP-MW-23D | 9/18/2019 15:56 | DO                            | 1.01    | mg/L  |
| GN-AP-MW-23D | 9/18/2019 15:56 | Depth to Water Detail         | 16.71   | ft    |
| GN-AP-MW-23D | 9/18/2019 15:56 | Oxidation Reduction Potention | -130.69 | mv    |
| GN-AP-MW-23D | 9/18/2019 15:56 | pH                            | 7.58    | pH    |
| GN-AP-MW-23D | 9/18/2019 15:56 | Temperature                   | 24.74   | C     |
| GN-AP-MW-23D | 9/18/2019 15:56 | Turbidity                     | 9.81    | NTU   |
| GN-AP-MW-23D | 9/18/2019 16:01 | Conductivity                  | 661.72  | uS/cm |
| GN-AP-MW-23D | 9/18/2019 16:01 | DO                            | 0.87    | mg/L  |
| GN-AP-MW-23D | 9/18/2019 16:01 | Depth to Water Detail         | 16.95   | ft    |
| GN-AP-MW-23D | 9/18/2019 16:01 | Oxidation Reduction Potention | -183.12 | mv    |
| GN-AP-MW-23D | 9/18/2019 16:01 | pH                            | 7.6     | pH    |
| GN-AP-MW-23D | 9/18/2019 16:01 | Temperature                   | 24.81   | C     |
| GN-AP-MW-23D | 9/18/2019 16:01 | Turbidity                     | 9.34    | NTU   |
| GN-AP-MW-23D | 9/18/2019 16:06 | Conductivity                  | 660.39  | uS/cm |
| GN-AP-MW-23D | 9/18/2019 16:06 | DO                            | 0.8     | mg/L  |
| GN-AP-MW-23D | 9/18/2019 16:06 | Depth to Water Detail         | 17.07   | ft    |
| GN-AP-MW-23D | 9/18/2019 16:06 | Oxidation Reduction Potention | -211.07 | mv    |
| GN-AP-MW-23D | 9/18/2019 16:06 | pH                            | 7.64    | pH    |
| GN-AP-MW-23D | 9/18/2019 16:06 | Temperature                   | 24.35   | C     |
| GN-AP-MW-23D | 9/18/2019 16:06 | Turbidity                     | 9.35    | NTU   |
| GN-AP-MW-23D | 9/18/2019 16:11 | Conductivity                  | 659.3   | uS/cm |
| GN-AP-MW-23D | 9/18/2019 16:11 | DO                            | 0.77    | mg/L  |
| GN-AP-MW-23D | 9/18/2019 16:11 | Depth to Water Detail         | 17.13   | ft    |
| GN-AP-MW-23D | 9/18/2019 16:11 | Oxidation Reduction Potention | -224.14 | mv    |
| GN-AP-MW-23D | 9/18/2019 16:11 | pH                            | 7.68    | pH    |
| GN-AP-MW-23D | 9/18/2019 16:11 | Temperature                   | 24.68   | C     |
| GN-AP-MW-23D | 9/18/2019 16:11 | Turbidity                     | 8.38    | NTU   |
| GN-AP-MW-23D | 9/18/2019 16:16 | Conductivity                  | 658.81  | uS/cm |
| GN-AP-MW-23D | 9/18/2019 16:16 | DO                            | 0.74    | mg/L  |
| GN-AP-MW-23D | 9/18/2019 16:16 | Depth to Water Detail         | 17.18   | ft    |
| GN-AP-MW-23D | 9/18/2019 16:16 | Oxidation Reduction Potention | -230.71 | mv    |
| GN-AP-MW-23D | 9/18/2019 16:16 | pH                            | 7.72    | pH    |
| GN-AP-MW-23D | 9/18/2019 16:16 | Temperature                   | 24.39   | C     |
| GN-AP-MW-23D | 9/18/2019 16:16 | Turbidity                     | 8.86    | NTU   |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-9     | 9/17/2019 11:21     | Conductivity                  | 382.21       | uS/cm       |
| GN-AP-MW-9     | 9/17/2019 11:21     | DO                            | 0.36         | mg/L        |
| GN-AP-MW-9     | 9/17/2019 11:21     | Depth to Water Detail         | 12.55        | ft          |
| GN-AP-MW-9     | 9/17/2019 11:21     | Oxidation Reduction Potention | -121.06      | mv          |
| GN-AP-MW-9     | 9/17/2019 11:21     | pH                            | 8.07         | pH          |
| GN-AP-MW-9     | 9/17/2019 11:21     | Temperature                   | 27.26        | C           |
| GN-AP-MW-9     | 9/17/2019 11:21     | Turbidity                     | 0.42         | NTU         |
| GN-AP-MW-9     | 9/17/2019 11:37     | Conductivity                  | 374.17       | uS/cm       |
| GN-AP-MW-9     | 9/17/2019 11:37     | DO                            | 0.22         | mg/L        |
| GN-AP-MW-9     | 9/17/2019 11:37     | Depth to Water Detail         | 14.98        | ft          |
| GN-AP-MW-9     | 9/17/2019 11:37     | Oxidation Reduction Potention | -148.06      | mv          |
| GN-AP-MW-9     | 9/17/2019 11:37     | pH                            | 8.07         | pH          |
| GN-AP-MW-9     | 9/17/2019 11:37     | Temperature                   | 27.34        | C           |
| GN-AP-MW-9     | 9/17/2019 11:37     | Turbidity                     | 0.38         | NTU         |

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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-29H   | 9/26/2019 10:33     | Conductivity                  | 512.59       | uS/cm       |
| GN-AP-MW-29H   | 9/26/2019 10:33     | DO                            | 0.22         | mg/L        |
| GN-AP-MW-29H   | 9/26/2019 10:33     | Depth to Water Detail         | 3.49         | ft          |
| GN-AP-MW-29H   | 9/26/2019 10:33     | Oxidation Reduction Potention | 56.2         | mv          |
| GN-AP-MW-29H   | 9/26/2019 10:33     | pH                            | 8.44         | pH          |
| GN-AP-MW-29H   | 9/26/2019 10:33     | Temperature                   | 22.99        | C           |
| GN-AP-MW-29H   | 9/26/2019 10:33     | Turbidity                     | 4.34         | NTU         |
| GN-AP-MW-29H   | 9/26/2019 10:38     | Conductivity                  | 511.46       | uS/cm       |
| GN-AP-MW-29H   | 9/26/2019 10:38     | DO                            | 0.17         | mg/L        |
| GN-AP-MW-29H   | 9/26/2019 10:38     | Depth to Water Detail         | 6.92         | ft          |
| GN-AP-MW-29H   | 9/26/2019 10:38     | Oxidation Reduction Potention | 49.34        | mv          |
| GN-AP-MW-29H   | 9/26/2019 10:38     | pH                            | 8.48         | pH          |
| GN-AP-MW-29H   | 9/26/2019 10:38     | Temperature                   | 22.89        | C           |
| GN-AP-MW-29H   | 9/26/2019 10:38     | Turbidity                     | 0.7          | NTU         |
| GN-AP-MW-29H   | 9/26/2019 10:43     | Conductivity                  | 510.8        | uS/cm       |
| GN-AP-MW-29H   | 9/26/2019 10:43     | DO                            | 0.17         | mg/L        |
| GN-AP-MW-29H   | 9/26/2019 10:43     | Depth to Water Detail         | 9.43         | ft          |
| GN-AP-MW-29H   | 9/26/2019 10:43     | Oxidation Reduction Potention | 43.61        | mv          |
| GN-AP-MW-29H   | 9/26/2019 10:43     | pH                            | 8.5          | pH          |
| GN-AP-MW-29H   | 9/26/2019 10:43     | Temperature                   | 22.81        | C           |
| GN-AP-MW-29H   | 9/26/2019 10:43     | Turbidity                     | 0.52         | NTU         |
| GN-AP-MW-29H   | 9/26/2019 10:48     | Conductivity                  | 510.7        | uS/cm       |
| GN-AP-MW-29H   | 9/26/2019 10:48     | DO                            | 0.18         | mg/L        |
| GN-AP-MW-29H   | 9/26/2019 10:48     | Depth to Water Detail         | 12.3         | ft          |
| GN-AP-MW-29H   | 9/26/2019 10:48     | Oxidation Reduction Potention | 44.24        | mv          |
| GN-AP-MW-29H   | 9/26/2019 10:48     | pH                            | 8.41         | pH          |
| GN-AP-MW-29H   | 9/26/2019 10:48     | Temperature                   | 22.7         | C           |
| GN-AP-MW-29H   | 9/26/2019 10:48     | Turbidity                     | 0.54         | NTU         |
| GN-AP-MW-29H   | 9/26/2019 10:53     | Conductivity                  | 510.9        | uS/cm       |
| GN-AP-MW-29H   | 9/26/2019 10:53     | DO                            | 0.17         | mg/L        |
| GN-AP-MW-29H   | 9/26/2019 10:53     | Depth to Water Detail         | 14.87        | ft          |
| GN-AP-MW-29H   | 9/26/2019 10:53     | Oxidation Reduction Potention | 35.56        | mv          |
| GN-AP-MW-29H   | 9/26/2019 10:53     | pH                            | 8.45         | pH          |
| GN-AP-MW-29H   | 9/26/2019 10:53     | Temperature                   | 22.54        | C           |
| GN-AP-MW-29H   | 9/26/2019 10:53     | Turbidity                     | 0.57         | NTU         |
| GN-AP-MW-29H   | 9/26/2019 10:58     | Conductivity                  | 509.51       | uS/cm       |
| GN-AP-MW-29H   | 9/26/2019 10:58     | DO                            | 0.17         | mg/L        |
| GN-AP-MW-29H   | 9/26/2019 10:58     | Depth to Water Detail         | 17.83        | ft          |
| GN-AP-MW-29H   | 9/26/2019 10:58     | Oxidation Reduction Potention | 26.27        | mv          |
| GN-AP-MW-29H   | 9/26/2019 10:58     | pH                            | 8.5          | pH          |
| GN-AP-MW-29H   | 9/26/2019 10:58     | Temperature                   | 22.47        | C           |
| GN-AP-MW-29H   | 9/26/2019 10:58     | Turbidity                     | 0.54         | NTU         |
| GN-AP-MW-29H   | 9/26/2019 11:03     | Conductivity                  | 510.31       | uS/cm       |
| GN-AP-MW-29H   | 9/26/2019 11:03     | DO                            | 0.17         | mg/L        |

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| WELL ID      | READING TIME    | DESCRIPTION                   | VALUE  | UNIT  |
|--------------|-----------------|-------------------------------|--------|-------|
| GN-AP-MW-29H | 9/26/2019 11:03 | Depth to Water Detail         | 20.24  | ft    |
| GN-AP-MW-29H | 9/26/2019 11:03 | Oxidation Reduction Potention | 19.79  | mv    |
| GN-AP-MW-29H | 9/26/2019 11:03 | pH                            | 8.51   | pH    |
| GN-AP-MW-29H | 9/26/2019 11:03 | Temperature                   | 22.34  | C     |
| GN-AP-MW-29H | 9/26/2019 11:03 | Turbidity                     | 0.64   | NTU   |
| GN-AP-MW-29H | 9/26/2019 11:08 | Conductivity                  | 510.19 | uS/cm |
| GN-AP-MW-29H | 9/26/2019 11:08 | DO                            | 0.17   | mg/L  |
| GN-AP-MW-29H | 9/26/2019 11:08 | Depth to Water Detail         | 22.65  | ft    |
| GN-AP-MW-29H | 9/26/2019 11:08 | Oxidation Reduction Potention | 13.21  | mv    |
| GN-AP-MW-29H | 9/26/2019 11:08 | pH                            | 8.51   | pH    |
| GN-AP-MW-29H | 9/26/2019 11:08 | Temperature                   | 22.31  | C     |
| GN-AP-MW-29H | 9/26/2019 11:08 | Turbidity                     | 0.59   | NTU   |
| GN-AP-MW-29H | 9/26/2019 11:13 | Conductivity                  | 510.09 | uS/cm |
| GN-AP-MW-29H | 9/26/2019 11:13 | DO                            | 0.17   | mg/L  |
| GN-AP-MW-29H | 9/26/2019 11:13 | Depth to Water Detail         | 24.94  | ft    |
| GN-AP-MW-29H | 9/26/2019 11:13 | Oxidation Reduction Potention | 6.45   | mv    |
| GN-AP-MW-29H | 9/26/2019 11:13 | pH                            | 8.49   | pH    |
| GN-AP-MW-29H | 9/26/2019 11:13 | Temperature                   | 22.24  | C     |
| GN-AP-MW-29H | 9/26/2019 11:13 | Turbidity                     | 0.68   | NTU   |
| GN-AP-MW-29H | 9/26/2019 11:18 | Conductivity                  | 509.94 | uS/cm |
| GN-AP-MW-29H | 9/26/2019 11:18 | DO                            | 0.17   | mg/L  |
| GN-AP-MW-29H | 9/26/2019 11:18 | Depth to Water Detail         | 27.39  | ft    |
| GN-AP-MW-29H | 9/26/2019 11:18 | Oxidation Reduction Potention | 1.48   | mv    |
| GN-AP-MW-29H | 9/26/2019 11:18 | pH                            | 8.44   | pH    |
| GN-AP-MW-29H | 9/26/2019 11:18 | Temperature                   | 22.21  | C     |
| GN-AP-MW-29H | 9/26/2019 11:18 | Turbidity                     | 0.81   | NTU   |
| GN-AP-MW-29H | 9/26/2019 11:23 | Conductivity                  | 510.76 | uS/cm |
| GN-AP-MW-29H | 9/26/2019 11:23 | DO                            | 0.17   | mg/L  |
| GN-AP-MW-29H | 9/26/2019 11:23 | Depth to Water Detail         | 29.29  | ft    |
| GN-AP-MW-29H | 9/26/2019 11:23 | Oxidation Reduction Potention | -13.63 | mv    |
| GN-AP-MW-29H | 9/26/2019 11:23 | pH                            | 8.49   | pH    |
| GN-AP-MW-29H | 9/26/2019 11:23 | Temperature                   | 22.28  | C     |
| GN-AP-MW-29H | 9/26/2019 11:23 | Turbidity                     | 0.72   | NTU   |
| GN-AP-MW-29H | 9/26/2019 11:28 | Conductivity                  | 510.71 | uS/cm |
| GN-AP-MW-29H | 9/26/2019 11:28 | DO                            | 0.19   | mg/L  |
| GN-AP-MW-29H | 9/26/2019 11:28 | Depth to Water Detail         | 31.3   | ft    |
| GN-AP-MW-29H | 9/26/2019 11:28 | Oxidation Reduction Potention | -27.28 | mv    |
| GN-AP-MW-29H | 9/26/2019 11:28 | pH                            | 8.49   | pH    |
| GN-AP-MW-29H | 9/26/2019 11:28 | Temperature                   | 22.64  | C     |
| GN-AP-MW-29H | 9/26/2019 11:28 | Turbidity                     | 0.75   | NTU   |
| GN-AP-MW-29H | 9/26/2019 11:33 | Conductivity                  | 511.56 | uS/cm |
| GN-AP-MW-29H | 9/26/2019 11:33 | DO                            | 0.29   | mg/L  |
| GN-AP-MW-29H | 9/26/2019 11:33 | Depth to Water Detail         | 31.85  | ft    |
| GN-AP-MW-29H | 9/26/2019 11:33 | Oxidation Reduction Potention | -34.27 | mv    |

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| WELL ID      | READING TIME    | DESCRIPTION                   | VALUE  | UNIT  |
|--------------|-----------------|-------------------------------|--------|-------|
| GN-AP-MW-29H | 9/26/2019 11:33 | pH                            | 8.49   | pH    |
| GN-AP-MW-29H | 9/26/2019 11:33 | Temperature                   | 23.74  | C     |
| GN-AP-MW-29H | 9/26/2019 11:33 | Turbidity                     | 0.71   | NTU   |
| GN-AP-MW-29H | 9/26/2019 11:38 | Conductivity                  | 511.22 | uS/cm |
| GN-AP-MW-29H | 9/26/2019 11:38 | DO                            | 0.39   | mg/L  |
| GN-AP-MW-29H | 9/26/2019 11:38 | Depth to Water Detail         | 32.1   | ft    |
| GN-AP-MW-29H | 9/26/2019 11:38 | Oxidation Reduction Potention | -41.36 | mv    |
| GN-AP-MW-29H | 9/26/2019 11:38 | pH                            | 8.49   | pH    |
| GN-AP-MW-29H | 9/26/2019 11:38 | Temperature                   | 23.89  | C     |
| GN-AP-MW-29H | 9/26/2019 11:38 | Turbidity                     | 0.59   | NTU   |
| GN-AP-MW-29H | 9/26/2019 11:43 | Conductivity                  | 511.2  | uS/cm |
| GN-AP-MW-29H | 9/26/2019 11:43 | DO                            | 0.49   | mg/L  |
| GN-AP-MW-29H | 9/26/2019 11:43 | Depth to Water Detail         | 32.16  | ft    |
| GN-AP-MW-29H | 9/26/2019 11:43 | Oxidation Reduction Potention | -39.92 | mv    |
| GN-AP-MW-29H | 9/26/2019 11:43 | pH                            | 8.45   | pH    |
| GN-AP-MW-29H | 9/26/2019 11:43 | Temperature                   | 24.46  | C     |
| GN-AP-MW-29H | 9/26/2019 11:43 | Turbidity                     | 0.61   | NTU   |
| GN-AP-MW-29H | 9/26/2019 11:48 | Conductivity                  | 511.1  | uS/cm |
| GN-AP-MW-29H | 9/26/2019 11:48 | DO                            | 0.53   | mg/L  |
| GN-AP-MW-29H | 9/26/2019 11:48 | Depth to Water Detail         | 32.22  | ft    |
| GN-AP-MW-29H | 9/26/2019 11:48 | Oxidation Reduction Potention | -44.89 | mv    |
| GN-AP-MW-29H | 9/26/2019 11:48 | pH                            | 8.47   | pH    |
| GN-AP-MW-29H | 9/26/2019 11:48 | Temperature                   | 24.35  | C     |
| GN-AP-MW-29H | 9/26/2019 11:48 | Turbidity                     | 0.59   | NTU   |
| GN-AP-MW-29H | 9/26/2019 11:53 | Conductivity                  | 511.31 | uS/cm |
| GN-AP-MW-29H | 9/26/2019 11:53 | DO                            | 0.53   | mg/L  |
| GN-AP-MW-29H | 9/26/2019 11:53 | Depth to Water Detail         | 32.24  | ft    |
| GN-AP-MW-29H | 9/26/2019 11:53 | Oxidation Reduction Potention | -48.12 | mv    |
| GN-AP-MW-29H | 9/26/2019 11:53 | pH                            | 8.47   | pH    |
| GN-AP-MW-29H | 9/26/2019 11:53 | Temperature                   | 24.52  | C     |
| GN-AP-MW-29H | 9/26/2019 11:53 | Turbidity                     | 0.52   | NTU   |



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| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-10    | 10/8/2019 10:34     | Conductivity                  | 328.63       | uS/cm       |
| GN-AP-MW-10    | 10/8/2019 10:34     | DO                            | 0.43         | mg/L        |
| GN-AP-MW-10    | 10/8/2019 10:34     | Depth to Water Detail         | 8.9          | ft          |
| GN-AP-MW-10    | 10/8/2019 10:34     | Oxidation Reduction Potention | 84.24        | mv          |
| GN-AP-MW-10    | 10/8/2019 10:34     | pH                            | 7.56         | pH          |
| GN-AP-MW-10    | 10/8/2019 10:34     | Temperature                   | 23.49        | C           |
| GN-AP-MW-10    | 10/8/2019 10:34     | Turbidity                     | 1.57         | NTU         |
| GN-AP-MW-10    | 10/8/2019 10:39     | Conductivity                  | 327.95       | uS/cm       |
| GN-AP-MW-10    | 10/8/2019 10:39     | DO                            | 0.34         | mg/L        |
| GN-AP-MW-10    | 10/8/2019 10:39     | Depth to Water Detail         | 9.07         | ft          |
| GN-AP-MW-10    | 10/8/2019 10:39     | Oxidation Reduction Potention | 82.65        | mv          |
| GN-AP-MW-10    | 10/8/2019 10:39     | pH                            | 7.58         | pH          |
| GN-AP-MW-10    | 10/8/2019 10:39     | Temperature                   | 23.22        | C           |
| GN-AP-MW-10    | 10/8/2019 10:39     | Turbidity                     | 1.21         | NTU         |
| GN-AP-MW-10    | 10/8/2019 10:44     | Conductivity                  | 328.07       | uS/cm       |
| GN-AP-MW-10    | 10/8/2019 10:44     | DO                            | 0.27         | mg/L        |
| GN-AP-MW-10    | 10/8/2019 10:44     | Depth to Water Detail         | 9.09         | ft          |
| GN-AP-MW-10    | 10/8/2019 10:44     | Oxidation Reduction Potention | 79.26        | mv          |
| GN-AP-MW-10    | 10/8/2019 10:44     | pH                            | 7.59         | pH          |
| GN-AP-MW-10    | 10/8/2019 10:44     | Temperature                   | 23.16        | C           |
| GN-AP-MW-10    | 10/8/2019 10:44     | Turbidity                     | 1.21         | NTU         |
| GN-AP-MW-10    | 10/8/2019 10:49     | Conductivity                  | 326.11       | uS/cm       |
| GN-AP-MW-10    | 10/8/2019 10:49     | DO                            | 0.39         | mg/L        |
| GN-AP-MW-10    | 10/8/2019 10:49     | Depth to Water Detail         | 9.13         | ft          |
| GN-AP-MW-10    | 10/8/2019 10:49     | Oxidation Reduction Potention | 77.39        | mv          |
| GN-AP-MW-10    | 10/8/2019 10:49     | pH                            | 7.59         | pH          |
| GN-AP-MW-10    | 10/8/2019 10:49     | Temperature                   | 23.11        | C           |
| GN-AP-MW-10    | 10/8/2019 10:49     | Turbidity                     | 1.04         | NTU         |

**Alabama Power Company  
Plant Gaston Ash Pond**

| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-11    | 10/8/2019 11:25     | Conductivity                  | 347.18       | uS/cm       |
| GN-AP-MW-11    | 10/8/2019 11:25     | DO                            | 2.7          | mg/L        |
| GN-AP-MW-11    | 10/8/2019 11:25     | Depth to Water Detail         | 9.36         | ft          |
| GN-AP-MW-11    | 10/8/2019 11:25     | Oxidation Reduction Potention | 132.47       | mv          |
| GN-AP-MW-11    | 10/8/2019 11:25     | pH                            | 7.79         | pH          |
| GN-AP-MW-11    | 10/8/2019 11:25     | Temperature                   | 23.98        | C           |
| GN-AP-MW-11    | 10/8/2019 11:25     | Turbidity                     | 1.19         | NTU         |
| GN-AP-MW-11    | 10/8/2019 11:30     | Conductivity                  | 346.54       | uS/cm       |
| GN-AP-MW-11    | 10/8/2019 11:30     | DO                            | 2.48         | mg/L        |
| GN-AP-MW-11    | 10/8/2019 11:30     | Depth to Water Detail         | 10.11        | ft          |
| GN-AP-MW-11    | 10/8/2019 11:30     | Oxidation Reduction Potention | 134.7        | mv          |
| GN-AP-MW-11    | 10/8/2019 11:30     | pH                            | 7.76         | pH          |
| GN-AP-MW-11    | 10/8/2019 11:30     | Temperature                   | 23.84        | C           |
| GN-AP-MW-11    | 10/8/2019 11:30     | Turbidity                     | 1.17         | NTU         |
| GN-AP-MW-11    | 10/8/2019 11:35     | Conductivity                  | 346.98       | uS/cm       |
| GN-AP-MW-11    | 10/8/2019 11:35     | DO                            | 2.47         | mg/L        |
| GN-AP-MW-11    | 10/8/2019 11:35     | Depth to Water Detail         | 10.55        | ft          |
| GN-AP-MW-11    | 10/8/2019 11:35     | Oxidation Reduction Potention | 136.21       | mv          |
| GN-AP-MW-11    | 10/8/2019 11:35     | pH                            | 7.77         | pH          |
| GN-AP-MW-11    | 10/8/2019 11:35     | Temperature                   | 23.99        | C           |
| GN-AP-MW-11    | 10/8/2019 11:35     | Turbidity                     | 1.04         | NTU         |
| GN-AP-MW-11    | 10/8/2019 11:40     | Conductivity                  | 346.81       | uS/cm       |
| GN-AP-MW-11    | 10/8/2019 11:40     | DO                            | 2.5          | mg/L        |
| GN-AP-MW-11    | 10/8/2019 11:40     | Depth to Water Detail         | 10.82        | ft          |
| GN-AP-MW-11    | 10/8/2019 11:40     | Oxidation Reduction Potention | 139.63       | mv          |
| GN-AP-MW-11    | 10/8/2019 11:40     | pH                            | 7.74         | pH          |
| GN-AP-MW-11    | 10/8/2019 11:40     | Temperature                   | 23.81        | C           |
| GN-AP-MW-11    | 10/8/2019 11:40     | Turbidity                     | 1.1          | NTU         |
| GN-AP-MW-11    | 10/8/2019 11:45     | Conductivity                  | 347.97       | uS/cm       |
| GN-AP-MW-11    | 10/8/2019 11:45     | DO                            | 2.51         | mg/L        |
| GN-AP-MW-11    | 10/8/2019 11:45     | Depth to Water Detail         | 11.1         | ft          |
| GN-AP-MW-11    | 10/8/2019 11:45     | Oxidation Reduction Potention | 140.77       | mv          |
| GN-AP-MW-11    | 10/8/2019 11:45     | pH                            | 7.75         | pH          |
| GN-AP-MW-11    | 10/8/2019 11:45     | Temperature                   | 23.64        | C           |
| GN-AP-MW-11    | 10/8/2019 11:45     | Turbidity                     | 1.12         | NTU         |
| GN-AP-MW-11    | 10/8/2019 11:50     | Conductivity                  | 348.02       | uS/cm       |
| GN-AP-MW-11    | 10/8/2019 11:50     | DO                            | 2.55         | mg/L        |
| GN-AP-MW-11    | 10/8/2019 11:50     | Depth to Water Detail         | 11.41        | ft          |
| GN-AP-MW-11    | 10/8/2019 11:50     | Oxidation Reduction Potention | 141.96       | mv          |
| GN-AP-MW-11    | 10/8/2019 11:50     | pH                            | 7.75         | pH          |
| GN-AP-MW-11    | 10/8/2019 11:50     | Temperature                   | 23.6         | C           |
| GN-AP-MW-11    | 10/8/2019 11:50     | Turbidity                     | 1.02         | NTU         |
| GN-AP-MW-11    | 10/8/2019 11:55     | Conductivity                  | 348.82       | uS/cm       |
| GN-AP-MW-11    | 10/8/2019 11:55     | DO                            | 2.57         | mg/L        |

**Alabama Power Company  
Plant Gaston Ash Pond**

| <b>WELL ID</b> | <b>READING TIME</b> | <b>DESCRIPTION</b>            | <b>VALUE</b> | <b>UNIT</b> |
|----------------|---------------------|-------------------------------|--------------|-------------|
| GN-AP-MW-11    | 10/8/2019 11:55     | Depth to Water Detail         | 11.55        | ft          |
| GN-AP-MW-11    | 10/8/2019 11:55     | Oxidation Reduction Potention | 143.24       | mv          |
| GN-AP-MW-11    | 10/8/2019 11:55     | pH                            | 7.75         | pH          |
| GN-AP-MW-11    | 10/8/2019 11:55     | Temperature                   | 23.54        | C           |
| GN-AP-MW-11    | 10/8/2019 11:55     | Turbidity                     | 1.41         | NTU         |
| GN-AP-MW-11    | 10/8/2019 12:00     | Conductivity                  | 346.47       | uS/cm       |
| GN-AP-MW-11    | 10/8/2019 12:00     | DO                            | 2.65         | mg/L        |
| GN-AP-MW-11    | 10/8/2019 12:00     | Depth to Water Detail         | 11.62        | ft          |
| GN-AP-MW-11    | 10/8/2019 12:00     | Oxidation Reduction Potention | 145.75       | mv          |
| GN-AP-MW-11    | 10/8/2019 12:00     | pH                            | 7.74         | pH          |
| GN-AP-MW-11    | 10/8/2019 12:00     | Temperature                   | 23.48        | C           |
| GN-AP-MW-11    | 10/8/2019 12:00     | Turbidity                     | 1.1          | NTU         |

# Appendix D

**1st**  
**Semi-Annual**  
**Monitoring Event**

# Interwell Prediction Limits - Significant Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 7/18/2019, 12:44 PM

| Constituent     | Well         | Upper Lim. | Lower Lim. | Date     | Observ. | Sig. | Bg N | %NDs  | Transform | Alpha    | Method                   |
|-----------------|--------------|------------|------------|----------|---------|------|------|-------|-----------|----------|--------------------------|
| Boron (mg/L)    | GN-AP-MW-4   | 0.1        | n/a        | 4/2/2019 | 0.271   | Yes  | 36   | 94.44 | n/a       | 0.001291 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-5   | 0.1        | n/a        | 4/2/2019 | 1.78    | Yes  | 36   | 94.44 | n/a       | 0.001291 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-6   | 0.1        | n/a        | 4/2/2019 | 2.7     | Yes  | 36   | 94.44 | n/a       | 0.001291 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-7   | 0.1        | n/a        | 4/2/2019 | 1.64    | Yes  | 36   | 94.44 | n/a       | 0.001291 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-11  | 0.1        | n/a        | 4/3/2019 | 0.216   | Yes  | 36   | 94.44 | n/a       | 0.001291 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-12  | 0.1        | n/a        | 4/3/2019 | 0.401   | Yes  | 36   | 94.44 | n/a       | 0.001291 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-15R | 0.1        | n/a        | 5/7/2019 | 4.13    | Yes  | 36   | 94.44 | n/a       | 0.001291 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-16  | 0.1        | n/a        | 4/3/2019 | 1.32    | Yes  | 36   | 94.44 | n/a       | 0.001291 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-17  | 0.1        | n/a        | 4/3/2019 | 2.92    | Yes  | 36   | 94.44 | n/a       | 0.001291 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-18  | 0.1        | n/a        | 4/3/2019 | 1.27    | Yes  | 36   | 94.44 | n/a       | 0.001291 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-20  | 0.1        | n/a        | 4/3/2019 | 3.77    | Yes  | 36   | 94.44 | n/a       | 0.001291 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-21  | 0.1        | n/a        | 4/2/2019 | 1.5     | Yes  | 36   | 94.44 | n/a       | 0.001291 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-22  | 0.1        | n/a        | 4/2/2019 | 2.03    | Yes  | 36   | 94.44 | n/a       | 0.001291 | NP Inter (NDs) 1 of 2    |
| Calcium (mg/L)  | GN-AP-MW-5   | 59.2       | n/a        | 4/2/2019 | 69.8    | Yes  | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-6   | 59.2       | n/a        | 4/2/2019 | 80      | Yes  | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-7   | 59.2       | n/a        | 4/2/2019 | 115     | Yes  | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-12  | 59.2       | n/a        | 4/3/2019 | 67.8    | Yes  | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-14  | 59.2       | n/a        | 4/3/2019 | 63.1    | Yes  | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-15R | 59.2       | n/a        | 5/7/2019 | 175     | Yes  | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-17  | 59.2       | n/a        | 4/3/2019 | 116     | Yes  | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-18  | 59.2       | n/a        | 4/3/2019 | 139     | Yes  | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-20  | 59.2       | n/a        | 4/3/2019 | 206     | Yes  | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-21  | 59.2       | n/a        | 4/2/2019 | 61.1    | Yes  | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-22  | 59.2       | n/a        | 4/2/2019 | 134     | Yes  | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Chloride (mg/L) | GN-AP-MW-4   | 4.746      | n/a        | 4/2/2019 | 18.3    | Yes  | 36   | 2.778 | sqrt(x)   | 0.000396 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-5   | 4.746      | n/a        | 4/2/2019 | 39.9    | Yes  | 36   | 2.778 | sqrt(x)   | 0.000396 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-6   | 4.746      | n/a        | 4/2/2019 | 66.4    | Yes  | 36   | 2.778 | sqrt(x)   | 0.000396 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-7   | 4.746      | n/a        | 4/2/2019 | 15.7    | Yes  | 36   | 2.778 | sqrt(x)   | 0.000396 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-9   | 4.746      | n/a        | 4/1/2019 | 8.42    | Yes  | 36   | 2.778 | sqrt(x)   | 0.000396 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-11  | 4.746      | n/a        | 4/3/2019 | 6.35    | Yes  | 36   | 2.778 | sqrt(x)   | 0.000396 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-12  | 4.746      | n/a        | 4/3/2019 | 19.7    | Yes  | 36   | 2.778 | sqrt(x)   | 0.000396 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-13  | 4.746      | n/a        | 4/3/2019 | 4.85    | Yes  | 36   | 2.778 | sqrt(x)   | 0.000396 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-14  | 4.746      | n/a        | 4/3/2019 | 5.72    | Yes  | 36   | 2.778 | sqrt(x)   | 0.000396 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-15R | 4.746      | n/a        | 5/7/2019 | 180     | Yes  | 36   | 2.778 | sqrt(x)   | 0.000396 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-16  | 4.746      | n/a        | 4/3/2019 | 15.9    | Yes  | 36   | 2.778 | sqrt(x)   | 0.000396 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-17  | 4.746      | n/a        | 4/3/2019 | 38      | Yes  | 36   | 2.778 | sqrt(x)   | 0.000396 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-18  | 4.746      | n/a        | 4/3/2019 | 12.1    | Yes  | 36   | 2.778 | sqrt(x)   | 0.000396 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-19  | 4.746      | n/a        | 4/1/2019 | 11.9    | Yes  | 36   | 2.778 | sqrt(x)   | 0.000396 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-20  | 4.746      | n/a        | 4/3/2019 | 17.9    | Yes  | 36   | 2.778 | sqrt(x)   | 0.000396 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-21  | 4.746      | n/a        | 4/2/2019 | 27      | Yes  | 36   | 2.778 | sqrt(x)   | 0.000396 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-22  | 4.746      | n/a        | 4/2/2019 | 67.3    | Yes  | 36   | 2.778 | sqrt(x)   | 0.000396 | Param Inter 1 of 2       |
| Fluoride (mg/L) | GN-AP-MW-9   | 0.1        | n/a        | 4/1/2019 | 0.136   | Yes  | 39   | 46.15 | n/a       | 0.001121 | NP Inter (normality) ... |
| Fluoride (mg/L) | GN-AP-MW-14  | 0.1        | n/a        | 4/3/2019 | 0.106   | Yes  | 39   | 46.15 | n/a       | 0.001121 | NP Inter (normality) ... |
| Fluoride (mg/L) | GN-AP-MW-16  | 0.1        | n/a        | 4/3/2019 | 0.13    | Yes  | 39   | 46.15 | n/a       | 0.001121 | NP Inter (normality) ... |
| Fluoride (mg/L) | GN-AP-MW-17  | 0.1        | n/a        | 4/3/2019 | 0.182   | Yes  | 39   | 46.15 | n/a       | 0.001121 | NP Inter (normality) ... |
| pH (pH)         | GN-AP-MW-16  | 8.015      | 7.114      | 4/3/2019 | 8.3     | Yes  | 40   | 0     | x^5       | 0.000198 | Param Inter 1 of 2       |
| pH (pH)         | GN-AP-MW-17  | 8.015      | 7.114      | 4/3/2019 | 9.56    | Yes  | 40   | 0     | x^5       | 0.000198 | Param Inter 1 of 2       |
| pH (pH)         | GN-AP-MW-18  | 8.015      | 7.114      | 4/3/2019 | 6.9     | Yes  | 40   | 0     | x^5       | 0.000198 | Param Inter 1 of 2       |
| Sulfate (mg/L)  | GN-AP-MW-5   | 33.1       | n/a        | 4/2/2019 | 122     | Yes  | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Sulfate (mg/L)  | GN-AP-MW-6   | 33.1       | n/a        | 4/2/2019 | 200     | Yes  | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Sulfate (mg/L)  | GN-AP-MW-7   | 33.1       | n/a        | 4/2/2019 | 186     | Yes  | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Sulfate (mg/L)  | GN-AP-MW-11  | 33.1       | n/a        | 4/3/2019 | 44.2    | Yes  | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Sulfate (mg/L)  | GN-AP-MW-12  | 33.1       | n/a        | 4/3/2019 | 102     | Yes  | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Sulfate (mg/L)  | GN-AP-MW-14  | 33.1       | n/a        | 4/3/2019 | 75.2    | Yes  | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Sulfate (mg/L)  | GN-AP-MW-15R | 33.1       | n/a        | 5/7/2019 | 351     | Yes  | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Sulfate (mg/L)  | GN-AP-MW-16  | 33.1       | n/a        | 4/3/2019 | 150     | Yes  | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Sulfate (mg/L)  | GN-AP-MW-17  | 33.1       | n/a        | 4/3/2019 | 346     | Yes  | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Sulfate (mg/L)  | GN-AP-MW-18  | 33.1       | n/a        | 4/3/2019 | 168     | Yes  | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Sulfate (mg/L)  | GN-AP-MW-20  | 33.1       | n/a        | 4/3/2019 | 577     | Yes  | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Sulfate (mg/L)  | GN-AP-MW-21  | 33.1       | n/a        | 4/2/2019 | 189     | Yes  | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Sulfate (mg/L)  | GN-AP-MW-22  | 33.1       | n/a        | 4/2/2019 | 212     | Yes  | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| TDS (mg/L)      | GN-AP-MW-5   | 302        | n/a        | 4/2/2019 | 390     | Yes  | 37   | 0     | n/a       | 0.001235 | NP Inter (normality) ... |
| TDS (mg/L)      | GN-AP-MW-6   | 302        | n/a        | 4/2/2019 | 445     | Yes  | 37   | 0     | n/a       | 0.001235 | NP Inter (normality) ... |
| TDS (mg/L)      | GN-AP-MW-7   | 302        | n/a        | 4/2/2019 | 428     | Yes  | 37   | 0     | n/a       | 0.001235 | NP Inter (normality) ... |
| TDS (mg/L)      | GN-AP-MW-12  | 302        | n/a        | 4/3/2019 | 372     | Yes  | 37   | 0     | n/a       | 0.001235 | NP Inter (normality) ... |
| TDS (mg/L)      | GN-AP-MW-14  | 302        | n/a        | 4/3/2019 | 336     | Yes  | 37   | 0     | n/a       | 0.001235 | NP Inter (normality) ... |
| TDS (mg/L)      | GN-AP-MW-15R | 302        | n/a        | 5/7/2019 | 810     | Yes  | 37   | 0     | n/a       | 0.001235 | NP Inter (normality) ... |
| TDS (mg/L)      | GN-AP-MW-17  | 302        | n/a        | 4/3/2019 | 536     | Yes  | 37   | 0     | n/a       | 0.001235 | NP Inter (normality) ... |

# Interwell Prediction Limits - Significant Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 7/18/2019, 12:44 PM

| Constituent | Well        | Upper Lim. | Lower Lim. | Date     | Obsrv. | Sig. | Bg.N | %NDs | Transform | Alpha    | Method                   |
|-------------|-------------|------------|------------|----------|--------|------|------|------|-----------|----------|--------------------------|
| TDS (mg/L)  | GN-AP-MW-18 | 302        | n/a        | 4/3/2019 | 560    | Yes  | 37   | 0    | n/a       | 0.001235 | NP Inter (normality) ... |
| TDS (mg/L)  | GN-AP-MW-20 | 302        | n/a        | 4/3/2019 | 910    | Yes  | 37   | 0    | n/a       | 0.001235 | NP Inter (normality) ... |
| TDS (mg/L)  | GN-AP-MW-21 | 302        | n/a        | 4/2/2019 | 401    | Yes  | 37   | 0    | n/a       | 0.001235 | NP Inter (normality) ... |
| TDS (mg/L)  | GN-AP-MW-22 | 302        | n/a        | 4/2/2019 | 522    | Yes  | 37   | 0    | n/a       | 0.001235 | NP Inter (normality) ... |

# Interwell Prediction Limits - All Results

Plant Gaston    Client: Southern Company    Data: Gaston Ash Pond    Printed 7/18/2019, 12:44 PM

| Constituent     | Well         | Upper Lim. | Lower Lim. | Date     | Observ. | Sig. | Bg N | %NDs  | Transform | Alpha    | Method                   |
|-----------------|--------------|------------|------------|----------|---------|------|------|-------|-----------|----------|--------------------------|
| Boron (mg/L)    | GN-AP-MW-4   | 0.1        | n/a        | 4/2/2019 | 0.271   | Yes  | 36   | 94.44 | n/a       | 0.001291 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-5   | 0.1        | n/a        | 4/2/2019 | 1.78    | Yes  | 36   | 94.44 | n/a       | 0.001291 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-6   | 0.1        | n/a        | 4/2/2019 | 2.7     | Yes  | 36   | 94.44 | n/a       | 0.001291 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-7   | 0.1        | n/a        | 4/2/2019 | 1.64    | Yes  | 36   | 94.44 | n/a       | 0.001291 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-8   | 0.1        | n/a        | 4/1/2019 | 0.0345  | No   | 36   | 94.44 | n/a       | 0.001291 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-9   | 0.1        | n/a        | 4/1/2019 | 0.1ND   | No   | 36   | 94.44 | n/a       | 0.001291 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-10  | 0.1        | n/a        | 4/3/2019 | 0.1ND   | No   | 36   | 94.44 | n/a       | 0.001291 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-11  | 0.1        | n/a        | 4/3/2019 | 0.216   | Yes  | 36   | 94.44 | n/a       | 0.001291 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-12  | 0.1        | n/a        | 4/3/2019 | 0.401   | Yes  | 36   | 94.44 | n/a       | 0.001291 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-13  | 0.1        | n/a        | 4/3/2019 | 0.1ND   | No   | 36   | 94.44 | n/a       | 0.001291 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-14  | 0.1        | n/a        | 4/3/2019 | 0.1ND   | No   | 36   | 94.44 | n/a       | 0.001291 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-15R | 0.1        | n/a        | 5/7/2019 | 4.13    | Yes  | 36   | 94.44 | n/a       | 0.001291 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-16  | 0.1        | n/a        | 4/3/2019 | 1.32    | Yes  | 36   | 94.44 | n/a       | 0.001291 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-17  | 0.1        | n/a        | 4/3/2019 | 2.92    | Yes  | 36   | 94.44 | n/a       | 0.001291 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-18  | 0.1        | n/a        | 4/3/2019 | 1.27    | Yes  | 36   | 94.44 | n/a       | 0.001291 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-19  | 0.1        | n/a        | 4/1/2019 | 0.1ND   | No   | 36   | 94.44 | n/a       | 0.001291 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-20  | 0.1        | n/a        | 4/3/2019 | 3.77    | Yes  | 36   | 94.44 | n/a       | 0.001291 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-21  | 0.1        | n/a        | 4/2/2019 | 1.5     | Yes  | 36   | 94.44 | n/a       | 0.001291 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-22  | 0.1        | n/a        | 4/2/2019 | 2.03    | Yes  | 36   | 94.44 | n/a       | 0.001291 | NP Inter (NDs) 1 of 2    |
| Calcium (mg/L)  | GN-AP-MW-4   | 59.2       | n/a        | 4/2/2019 | 56.9    | No   | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-5   | 59.2       | n/a        | 4/2/2019 | 69.8    | Yes  | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-6   | 59.2       | n/a        | 4/2/2019 | 80      | Yes  | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-7   | 59.2       | n/a        | 4/2/2019 | 115     | Yes  | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-8   | 59.2       | n/a        | 4/1/2019 | 50.5    | No   | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-9   | 59.2       | n/a        | 4/1/2019 | 32.3    | No   | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-10  | 59.2       | n/a        | 4/3/2019 | 39.9    | No   | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-11  | 59.2       | n/a        | 4/3/2019 | 44.1    | No   | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-12  | 59.2       | n/a        | 4/3/2019 | 67.8    | Yes  | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-13  | 59.2       | n/a        | 4/3/2019 | 46.9    | No   | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-14  | 59.2       | n/a        | 4/3/2019 | 63.1    | Yes  | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-15R | 59.2       | n/a        | 5/7/2019 | 175     | Yes  | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-16  | 59.2       | n/a        | 4/3/2019 | 45.8    | No   | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-17  | 59.2       | n/a        | 4/3/2019 | 116     | Yes  | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-18  | 59.2       | n/a        | 4/3/2019 | 139     | Yes  | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-19  | 59.2       | n/a        | 4/1/2019 | 45.6    | No   | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-20  | 59.2       | n/a        | 4/3/2019 | 206     | Yes  | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-21  | 59.2       | n/a        | 4/2/2019 | 61.1    | Yes  | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-22  | 59.2       | n/a        | 4/2/2019 | 134     | Yes  | 36   | 2.778 | n/a       | 0.001291 | NP Inter (normality) ... |
| Chloride (mg/L) | GN-AP-MW-4   | 4.746      | n/a        | 4/2/2019 | 18.3    | Yes  | 36   | 2.778 | sqrt(x)   | 0.000396 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-5   | 4.746      | n/a        | 4/2/2019 | 39.9    | Yes  | 36   | 2.778 | sqrt(x)   | 0.000396 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-6   | 4.746      | n/a        | 4/2/2019 | 66.4    | Yes  | 36   | 2.778 | sqrt(x)   | 0.000396 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-7   | 4.746      | n/a        | 4/2/2019 | 15.7    | Yes  | 36   | 2.778 | sqrt(x)   | 0.000396 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-8   | 4.746      | n/a        | 4/1/2019 | 3.9     | No   | 36   | 2.778 | sqrt(x)   | 0.000396 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-9   | 4.746      | n/a        | 4/1/2019 | 8.42    | Yes  | 36   | 2.778 | sqrt(x)   | 0.000396 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-10  | 4.746      | n/a        | 4/3/2019 | 2.64    | No   | 36   | 2.778 | sqrt(x)   | 0.000396 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-11  | 4.746      | n/a        | 4/3/2019 | 6.35    | Yes  | 36   | 2.778 | sqrt(x)   | 0.000396 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-12  | 4.746      | n/a        | 4/3/2019 | 19.7    | Yes  | 36   | 2.778 | sqrt(x)   | 0.000396 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-13  | 4.746      | n/a        | 4/3/2019 | 4.85    | Yes  | 36   | 2.778 | sqrt(x)   | 0.000396 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-14  | 4.746      | n/a        | 4/3/2019 | 5.72    | Yes  | 36   | 2.778 | sqrt(x)   | 0.000396 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-15R | 4.746      | n/a        | 5/7/2019 | 180     | Yes  | 36   | 2.778 | sqrt(x)   | 0.000396 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-16  | 4.746      | n/a        | 4/3/2019 | 15.9    | Yes  | 36   | 2.778 | sqrt(x)   | 0.000396 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-17  | 4.746      | n/a        | 4/3/2019 | 38      | Yes  | 36   | 2.778 | sqrt(x)   | 0.000396 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-18  | 4.746      | n/a        | 4/3/2019 | 12.1    | Yes  | 36   | 2.778 | sqrt(x)   | 0.000396 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-19  | 4.746      | n/a        | 4/1/2019 | 11.9    | Yes  | 36   | 2.778 | sqrt(x)   | 0.000396 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-20  | 4.746      | n/a        | 4/3/2019 | 17.9    | Yes  | 36   | 2.778 | sqrt(x)   | 0.000396 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-21  | 4.746      | n/a        | 4/2/2019 | 27      | Yes  | 36   | 2.778 | sqrt(x)   | 0.000396 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-22  | 4.746      | n/a        | 4/2/2019 | 67.3    | Yes  | 36   | 2.778 | sqrt(x)   | 0.000396 | Param Inter 1 of 2       |
| Fluoride (mg/L) | GN-AP-MW-4   | 0.1        | n/a        | 4/2/2019 | 0.1ND   | No   | 39   | 46.15 | n/a       | 0.001121 | NP Inter (normality) ... |
| Fluoride (mg/L) | GN-AP-MW-5   | 0.1        | n/a        | 4/2/2019 | 0.0555  | No   | 39   | 46.15 | n/a       | 0.001121 | NP Inter (normality) ... |
| Fluoride (mg/L) | GN-AP-MW-6   | 0.1        | n/a        | 4/2/2019 | 0.06    | No   | 39   | 46.15 | n/a       | 0.001121 | NP Inter (normality) ... |
| Fluoride (mg/L) | GN-AP-MW-7   | 0.1        | n/a        | 4/2/2019 | 0.052   | No   | 39   | 46.15 | n/a       | 0.001121 | NP Inter (normality) ... |
| Fluoride (mg/L) | GN-AP-MW-8   | 0.1        | n/a        | 4/1/2019 | 0.0956  | No   | 39   | 46.15 | n/a       | 0.001121 | NP Inter (normality) ... |
| Fluoride (mg/L) | GN-AP-MW-9   | 0.1        | n/a        | 4/1/2019 | 0.136   | Yes  | 39   | 46.15 | n/a       | 0.001121 | NP Inter (normality) ... |
| Fluoride (mg/L) | GN-AP-MW-10  | 0.1        | n/a        | 4/3/2019 | 0.1ND   | No   | 39   | 46.15 | n/a       | 0.001121 | NP Inter (normality) ... |
| Fluoride (mg/L) | GN-AP-MW-11  | 0.1        | n/a        | 4/3/2019 | 0.1ND   | No   | 39   | 46.15 | n/a       | 0.001121 | NP Inter (normality) ... |
| Fluoride (mg/L) | GN-AP-MW-12  | 0.1        | n/a        | 4/3/2019 | 0.1ND   | No   | 39   | 46.15 | n/a       | 0.001121 | NP Inter (normality) ... |
| Fluoride (mg/L) | GN-AP-MW-13  | 0.1        | n/a        | 4/3/2019 | 0.1ND   | No   | 39   | 46.15 | n/a       | 0.001121 | NP Inter (normality) ... |
| Fluoride (mg/L) | GN-AP-MW-14  | 0.1        | n/a        | 4/3/2019 | 0.106   | Yes  | 39   | 46.15 | n/a       | 0.001121 | NP Inter (normality) ... |



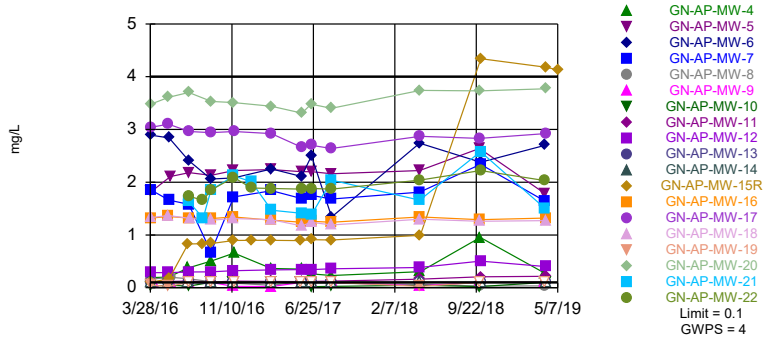
# Interwell Prediction Limits - All Results

Plant Gaston    Client: Southern Company    Data: Gaston Ash Pond    Printed 7/18/2019, 12:44 PM

| Constituent            | Well                | Upper Lim.   | Lower Lim.   | Date            | Obsev.       | Sig.       | Bg.N      | %NDs         | Transform  | Alpha           | Method                          |
|------------------------|---------------------|--------------|--------------|-----------------|--------------|------------|-----------|--------------|------------|-----------------|---------------------------------|
| Fluoride (mg/L)        | GN-AP-MW-15R        | 0.1          | n/a          | 5/7/2019        | 0.0937       | No         | 39        | 46.15        | n/a        | 0.001121        | NP Inter (normality) ...        |
| <b>Fluoride (mg/L)</b> | <b>GN-AP-MW-16</b>  | <b>0.1</b>   | <b>n/a</b>   | <b>4/3/2019</b> | <b>0.13</b>  | <b>Yes</b> | <b>39</b> | <b>46.15</b> | <b>n/a</b> | <b>0.001121</b> | <b>NP Inter (normality) ...</b> |
| <b>Fluoride (mg/L)</b> | <b>GN-AP-MW-17</b>  | <b>0.1</b>   | <b>n/a</b>   | <b>4/3/2019</b> | <b>0.182</b> | <b>Yes</b> | <b>39</b> | <b>46.15</b> | <b>n/a</b> | <b>0.001121</b> | <b>NP Inter (normality) ...</b> |
| Fluoride (mg/L)        | GN-AP-MW-18         | 0.1          | n/a          | 4/3/2019        | 0.0678       | No         | 39        | 46.15        | n/a        | 0.001121        | NP Inter (normality) ...        |
| Fluoride (mg/L)        | GN-AP-MW-19         | 0.1          | n/a          | 4/1/2019        | 0.0563       | No         | 39        | 46.15        | n/a        | 0.001121        | NP Inter (normality) ...        |
| Fluoride (mg/L)        | GN-AP-MW-20         | 0.1          | n/a          | 4/3/2019        | 0.0657       | No         | 39        | 46.15        | n/a        | 0.001121        | NP Inter (normality) ...        |
| Fluoride (mg/L)        | GN-AP-MW-21         | 0.1          | n/a          | 4/2/2019        | 0.1ND        | No         | 39        | 46.15        | n/a        | 0.001121        | NP Inter (normality) ...        |
| Fluoride (mg/L)        | GN-AP-MW-22         | 0.1          | n/a          | 4/2/2019        | 0.0613       | No         | 39        | 46.15        | n/a        | 0.001121        | NP Inter (normality) ...        |
| pH (pH)                | GN-AP-MW-4          | 8.015        | 7.114        | 4/2/2019        | 7.34         | No         | 40        | 0            | x^5        | 0.000198        | Param Inter 1 of 2              |
| pH (pH)                | GN-AP-MW-5          | 8.015        | 7.114        | 4/2/2019        | 7.47         | No         | 40        | 0            | x^5        | 0.000198        | Param Inter 1 of 2              |
| pH (pH)                | GN-AP-MW-6          | 8.015        | 7.114        | 4/2/2019        | 7.73         | No         | 40        | 0            | x^5        | 0.000198        | Param Inter 1 of 2              |
| pH (pH)                | GN-AP-MW-7          | 8.015        | 7.114        | 4/2/2019        | 7.24         | No         | 40        | 0            | x^5        | 0.000198        | Param Inter 1 of 2              |
| pH (pH)                | GN-AP-MW-8          | 8.015        | 7.114        | 4/1/2019        | 7.4          | No         | 40        | 0            | x^5        | 0.000198        | Param Inter 1 of 2              |
| pH (pH)                | GN-AP-MW-9          | 8.015        | 7.114        | 4/1/2019        | 7.64         | No         | 40        | 0            | x^5        | 0.000198        | Param Inter 1 of 2              |
| pH (pH)                | GN-AP-MW-10         | 8.015        | 7.114        | 4/3/2019        | 7.6          | No         | 40        | 0            | x^5        | 0.000198        | Param Inter 1 of 2              |
| pH (pH)                | GN-AP-MW-11         | 8.015        | 7.114        | 4/3/2019        | 7.75         | No         | 40        | 0            | x^5        | 0.000198        | Param Inter 1 of 2              |
| pH (pH)                | GN-AP-MW-12         | 8.015        | 7.114        | 4/3/2019        | 7.37         | No         | 40        | 0            | x^5        | 0.000198        | Param Inter 1 of 2              |
| pH (pH)                | GN-AP-MW-13         | 8.015        | 7.114        | 4/3/2019        | 7.41         | No         | 40        | 0            | x^5        | 0.000198        | Param Inter 1 of 2              |
| pH (pH)                | GN-AP-MW-14         | 8.015        | 7.114        | 4/3/2019        | 7.43         | No         | 40        | 0            | x^5        | 0.000198        | Param Inter 1 of 2              |
| pH (pH)                | GN-AP-MW-15R        | 8.015        | 7.114        | 5/7/2019        | 7.57         | No         | 40        | 0            | x^5        | 0.000198        | Param Inter 1 of 2              |
| <b>pH (pH)</b>         | <b>GN-AP-MW-16</b>  | <b>8.015</b> | <b>7.114</b> | <b>4/3/2019</b> | <b>8.3</b>   | <b>Yes</b> | <b>40</b> | <b>0</b>     | <b>x^5</b> | <b>0.000198</b> | <b>Param Inter 1 of 2</b>       |
| <b>pH (pH)</b>         | <b>GN-AP-MW-17</b>  | <b>8.015</b> | <b>7.114</b> | <b>4/3/2019</b> | <b>9.56</b>  | <b>Yes</b> | <b>40</b> | <b>0</b>     | <b>x^5</b> | <b>0.000198</b> | <b>Param Inter 1 of 2</b>       |
| <b>pH (pH)</b>         | <b>GN-AP-MW-18</b>  | <b>8.015</b> | <b>7.114</b> | <b>4/3/2019</b> | <b>6.9</b>   | <b>Yes</b> | <b>40</b> | <b>0</b>     | <b>x^5</b> | <b>0.000198</b> | <b>Param Inter 1 of 2</b>       |
| pH (pH)                | GN-AP-MW-19         | 8.015        | 7.114        | 4/1/2019        | 7.58         | No         | 40        | 0            | x^5        | 0.000198        | Param Inter 1 of 2              |
| pH (pH)                | GN-AP-MW-20         | 8.015        | 7.114        | 4/3/2019        | 7.45         | No         | 40        | 0            | x^5        | 0.000198        | Param Inter 1 of 2              |
| pH (pH)                | GN-AP-MW-21         | 8.015        | 7.114        | 4/2/2019        | 7.67         | No         | 40        | 0            | x^5        | 0.000198        | Param Inter 1 of 2              |
| pH (pH)                | GN-AP-MW-22         | 8.015        | 7.114        | 4/2/2019        | 7.33         | No         | 40        | 0            | x^5        | 0.000198        | Param Inter 1 of 2              |
| Sulfate (mg/L)         | GN-AP-MW-4          | 33.1         | n/a          | 4/2/2019        | 22.4         | No         | 36        | 2.778        | n/a        | 0.001291        | NP Inter (normality) ...        |
| <b>Sulfate (mg/L)</b>  | <b>GN-AP-MW-5</b>   | <b>33.1</b>  | <b>n/a</b>   | <b>4/2/2019</b> | <b>122</b>   | <b>Yes</b> | <b>36</b> | <b>2.778</b> | <b>n/a</b> | <b>0.001291</b> | <b>NP Inter (normality) ...</b> |
| <b>Sulfate (mg/L)</b>  | <b>GN-AP-MW-6</b>   | <b>33.1</b>  | <b>n/a</b>   | <b>4/2/2019</b> | <b>200</b>   | <b>Yes</b> | <b>36</b> | <b>2.778</b> | <b>n/a</b> | <b>0.001291</b> | <b>NP Inter (normality) ...</b> |
| <b>Sulfate (mg/L)</b>  | <b>GN-AP-MW-7</b>   | <b>33.1</b>  | <b>n/a</b>   | <b>4/2/2019</b> | <b>186</b>   | <b>Yes</b> | <b>36</b> | <b>2.778</b> | <b>n/a</b> | <b>0.001291</b> | <b>NP Inter (normality) ...</b> |
| Sulfate (mg/L)         | GN-AP-MW-8          | 33.1         | n/a          | 4/1/2019        | 1.8          | No         | 36        | 2.778        | n/a        | 0.001291        | NP Inter (normality) ...        |
| Sulfate (mg/L)         | GN-AP-MW-9          | 33.1         | n/a          | 4/1/2019        | 14.3         | No         | 36        | 2.778        | n/a        | 0.001291        | NP Inter (normality) ...        |
| Sulfate (mg/L)         | GN-AP-MW-10         | 33.1         | n/a          | 4/3/2019        | 3.81         | No         | 36        | 2.778        | n/a        | 0.001291        | NP Inter (normality) ...        |
| <b>Sulfate (mg/L)</b>  | <b>GN-AP-MW-11</b>  | <b>33.1</b>  | <b>n/a</b>   | <b>4/3/2019</b> | <b>44.2</b>  | <b>Yes</b> | <b>36</b> | <b>2.778</b> | <b>n/a</b> | <b>0.001291</b> | <b>NP Inter (normality) ...</b> |
| <b>Sulfate (mg/L)</b>  | <b>GN-AP-MW-12</b>  | <b>33.1</b>  | <b>n/a</b>   | <b>4/3/2019</b> | <b>102</b>   | <b>Yes</b> | <b>36</b> | <b>2.778</b> | <b>n/a</b> | <b>0.001291</b> | <b>NP Inter (normality) ...</b> |
| Sulfate (mg/L)         | GN-AP-MW-13         | 33.1         | n/a          | 4/3/2019        | 0.925        | No         | 36        | 2.778        | n/a        | 0.001291        | NP Inter (normality) ...        |
| <b>Sulfate (mg/L)</b>  | <b>GN-AP-MW-14</b>  | <b>33.1</b>  | <b>n/a</b>   | <b>4/3/2019</b> | <b>75.2</b>  | <b>Yes</b> | <b>36</b> | <b>2.778</b> | <b>n/a</b> | <b>0.001291</b> | <b>NP Inter (normality) ...</b> |
| <b>Sulfate (mg/L)</b>  | <b>GN-AP-MW-15R</b> | <b>33.1</b>  | <b>n/a</b>   | <b>5/7/2019</b> | <b>351</b>   | <b>Yes</b> | <b>36</b> | <b>2.778</b> | <b>n/a</b> | <b>0.001291</b> | <b>NP Inter (normality) ...</b> |
| <b>Sulfate (mg/L)</b>  | <b>GN-AP-MW-16</b>  | <b>33.1</b>  | <b>n/a</b>   | <b>4/3/2019</b> | <b>150</b>   | <b>Yes</b> | <b>36</b> | <b>2.778</b> | <b>n/a</b> | <b>0.001291</b> | <b>NP Inter (normality) ...</b> |
| <b>Sulfate (mg/L)</b>  | <b>GN-AP-MW-17</b>  | <b>33.1</b>  | <b>n/a</b>   | <b>4/3/2019</b> | <b>346</b>   | <b>Yes</b> | <b>36</b> | <b>2.778</b> | <b>n/a</b> | <b>0.001291</b> | <b>NP Inter (normality) ...</b> |
| <b>Sulfate (mg/L)</b>  | <b>GN-AP-MW-18</b>  | <b>33.1</b>  | <b>n/a</b>   | <b>4/3/2019</b> | <b>168</b>   | <b>Yes</b> | <b>36</b> | <b>2.778</b> | <b>n/a</b> | <b>0.001291</b> | <b>NP Inter (normality) ...</b> |
| Sulfate (mg/L)         | GN-AP-MW-19         | 33.1         | n/a          | 4/1/2019        | 24.4         | No         | 36        | 2.778        | n/a        | 0.001291        | NP Inter (normality) ...        |
| <b>Sulfate (mg/L)</b>  | <b>GN-AP-MW-20</b>  | <b>33.1</b>  | <b>n/a</b>   | <b>4/3/2019</b> | <b>577</b>   | <b>Yes</b> | <b>36</b> | <b>2.778</b> | <b>n/a</b> | <b>0.001291</b> | <b>NP Inter (normality) ...</b> |
| <b>Sulfate (mg/L)</b>  | <b>GN-AP-MW-21</b>  | <b>33.1</b>  | <b>n/a</b>   | <b>4/2/2019</b> | <b>189</b>   | <b>Yes</b> | <b>36</b> | <b>2.778</b> | <b>n/a</b> | <b>0.001291</b> | <b>NP Inter (normality) ...</b> |
| <b>Sulfate (mg/L)</b>  | <b>GN-AP-MW-22</b>  | <b>33.1</b>  | <b>n/a</b>   | <b>4/2/2019</b> | <b>212</b>   | <b>Yes</b> | <b>36</b> | <b>2.778</b> | <b>n/a</b> | <b>0.001291</b> | <b>NP Inter (normality) ...</b> |
| TDS (mg/L)             | GN-AP-MW-4          | 302          | n/a          | 4/2/2019        | 270          | No         | 37        | 0            | n/a        | 0.001235        | NP Inter (normality) ...        |
| <b>TDS (mg/L)</b>      | <b>GN-AP-MW-5</b>   | <b>302</b>   | <b>n/a</b>   | <b>4/2/2019</b> | <b>390</b>   | <b>Yes</b> | <b>37</b> | <b>0</b>     | <b>n/a</b> | <b>0.001235</b> | <b>NP Inter (normality) ...</b> |
| <b>TDS (mg/L)</b>      | <b>GN-AP-MW-6</b>   | <b>302</b>   | <b>n/a</b>   | <b>4/2/2019</b> | <b>445</b>   | <b>Yes</b> | <b>37</b> | <b>0</b>     | <b>n/a</b> | <b>0.001235</b> | <b>NP Inter (normality) ...</b> |
| <b>TDS (mg/L)</b>      | <b>GN-AP-MW-7</b>   | <b>302</b>   | <b>n/a</b>   | <b>4/2/2019</b> | <b>428</b>   | <b>Yes</b> | <b>37</b> | <b>0</b>     | <b>n/a</b> | <b>0.001235</b> | <b>NP Inter (normality) ...</b> |
| TDS (mg/L)             | GN-AP-MW-8          | 302          | n/a          | 4/1/2019        | 268          | No         | 37        | 0            | n/a        | 0.001235        | NP Inter (normality) ...        |
| TDS (mg/L)             | GN-AP-MW-9          | 302          | n/a          | 4/1/2019        | 205          | No         | 37        | 0            | n/a        | 0.001235        | NP Inter (normality) ...        |
| TDS (mg/L)             | GN-AP-MW-10         | 302          | n/a          | 4/3/2019        | 166          | No         | 37        | 0            | n/a        | 0.001235        | NP Inter (normality) ...        |
| TDS (mg/L)             | GN-AP-MW-11         | 302          | n/a          | 4/3/2019        | 200          | No         | 37        | 0            | n/a        | 0.001235        | NP Inter (normality) ...        |
| <b>TDS (mg/L)</b>      | <b>GN-AP-MW-12</b>  | <b>302</b>   | <b>n/a</b>   | <b>4/3/2019</b> | <b>372</b>   | <b>Yes</b> | <b>37</b> | <b>0</b>     | <b>n/a</b> | <b>0.001235</b> | <b>NP Inter (normality) ...</b> |
| TDS (mg/L)             | GN-AP-MW-13         | 302          | n/a          | 4/3/2019        | 201          | No         | 37        | 0            | n/a        | 0.001235        | NP Inter (normality) ...        |
| <b>TDS (mg/L)</b>      | <b>GN-AP-MW-14</b>  | <b>302</b>   | <b>n/a</b>   | <b>4/3/2019</b> | <b>336</b>   | <b>Yes</b> | <b>37</b> | <b>0</b>     | <b>n/a</b> | <b>0.001235</b> | <b>NP Inter (normality) ...</b> |
| <b>TDS (mg/L)</b>      | <b>GN-AP-MW-15R</b> | <b>302</b>   | <b>n/a</b>   | <b>5/7/2019</b> | <b>810</b>   | <b>Yes</b> | <b>37</b> | <b>0</b>     | <b>n/a</b> | <b>0.001235</b> | <b>NP Inter (normality) ...</b> |
| TDS (mg/L)             | GN-AP-MW-16         | 302          | n/a          | 4/3/2019        | 275          | No         | 37        | 0            | n/a        | 0.001235        | NP Inter (normality) ...        |
| <b>TDS (mg/L)</b>      | <b>GN-AP-MW-17</b>  | <b>302</b>   | <b>n/a</b>   | <b>4/3/2019</b> | <b>536</b>   | <b>Yes</b> | <b>37</b> | <b>0</b>     | <b>n/a</b> | <b>0.001235</b> | <b>NP Inter (normality) ...</b> |
| <b>TDS (mg/L)</b>      | <b>GN-AP-MW-18</b>  | <b>302</b>   | <b>n/a</b>   | <b>4/3/2019</b> | <b>560</b>   | <b>Yes</b> | <b>37</b> | <b>0</b>     | <b>n/a</b> | <b>0.001235</b> | <b>NP Inter (normality) ...</b> |
| TDS (mg/L)             | GN-AP-MW-19         | 302          | n/a          | 4/1/2019        | 225          | No         | 37        | 0            | n/a        | 0.001235        | NP Inter (normality) ...        |
| <b>TDS (mg/L)</b>      | <b>GN-AP-MW-20</b>  | <b>302</b>   | <b>n/a</b>   | <b>4/3/2019</b> | <b>910</b>   | <b>Yes</b> | <b>37</b> | <b>0</b>     | <b>n/a</b> | <b>0.001235</b> | <b>NP Inter (normality) ...</b> |
| <b>TDS (mg/L)</b>      | <b>GN-AP-MW-21</b>  | <b>302</b>   | <b>n/a</b>   | <b>4/2/2019</b> | <b>401</b>   | <b>Yes</b> | <b>37</b> | <b>0</b>     | <b>n/a</b> | <b>0.001235</b> | <b>NP Inter (normality) ...</b> |
| <b>TDS (mg/L)</b>      | <b>GN-AP-MW-22</b>  | <b>302</b>   | <b>n/a</b>   | <b>4/2/2019</b> | <b>522</b>   | <b>Yes</b> | <b>37</b> | <b>0</b>     | <b>n/a</b> | <b>0.001235</b> | <b>NP Inter (normality) ...</b> |

Exceeds Limit: GN-AP-MW-4, GN-AP-MW-5, GN-AP-MW-6, GN-AP-MW-7, GN-AP-MW

Prediction Limit  
Interwell Non-parametric

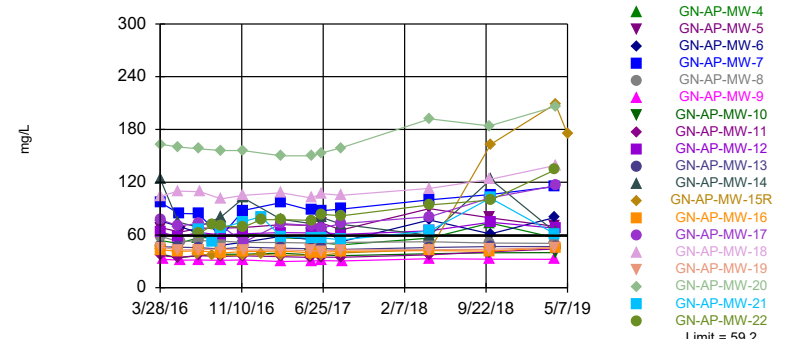


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 36 background values. 94.44% NDs. Annual per-constituent alpha = 0.04792. Individual comparison alpha = 0.001291 (1 of 2). Comparing 19 points to limit.

Constituent: Boron Analysis Run 7/18/2019 12:42 PM View: PLs - Interwell  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Exceeds Limit: GN-AP-MW-5, GN-AP-MW-6, GN-AP-MW-7, GN-AP-MW-12, GN-AP-M

Prediction Limit  
Interwell Non-parametric

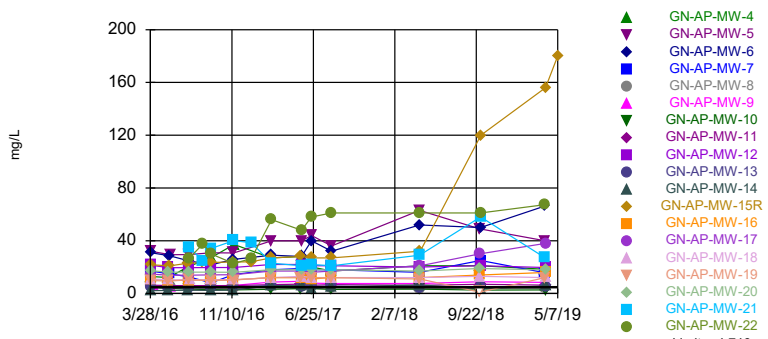


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 36 background values. 2.778% NDs. Annual per-constituent alpha = 0.04792. Individual comparison alpha = 0.001291 (1 of 2). Comparing 19 points to limit.

Constituent: Calcium Analysis Run 7/18/2019 12:42 PM View: PLs - Interwell  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Exceeds Limit: GN-AP-MW-4, GN-AP-MW-5, GN-AP-MW-6, GN-AP-MW-7, GN-AP-MW

Prediction Limit  
Interwell Parametric

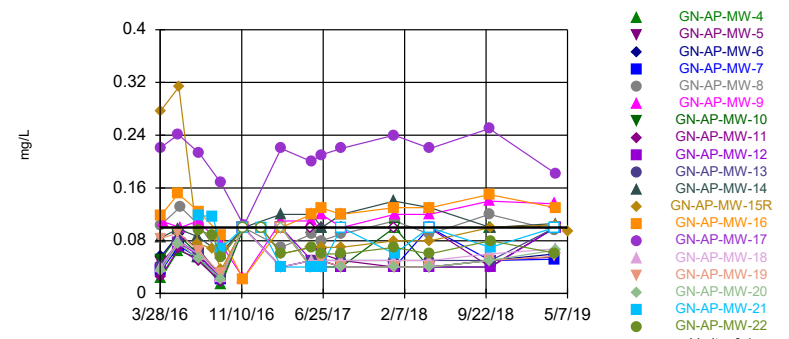


Background Data Summary (based on square root transformation): Mean=1.537, Std. Dev.=0.2841, n=36, 2.778% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9466, critical = 0.912. Kappa = 2.26 (c=7, w=19, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.000396. Comparing 19 points to limit.

Constituent: Chloride Analysis Run 7/18/2019 12:42 PM View: PLs - Interwell  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Exceeds Limit: GN-AP-MW-9, GN-AP-MW-14, GN-AP-MW-16, GN-AP-MW-17

Prediction Limit  
Interwell Non-parametric

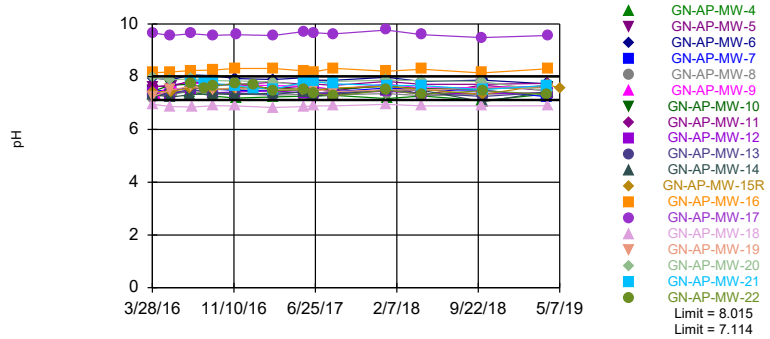


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 39 background values. 46.15% NDs. Annual per-constituent alpha = 0.04174. Individual comparison alpha = 0.001121 (1 of 2). Comparing 19 points to limit.

Constituent: Fluoride Analysis Run 7/18/2019 12:42 PM View: PLs - Interwell  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Exceeds Limits: GN-AP-MW-16, GN-AP-MW-17, GN-AP-MW-18

Prediction Limit  
Interwell Parametric

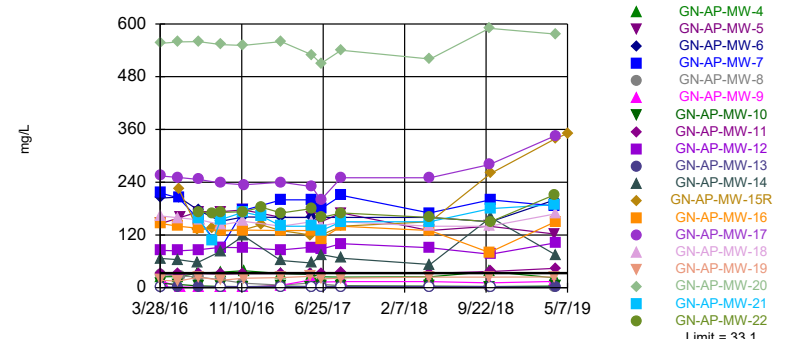


Background Data Summary (based on  $x^45$  transformation): Mean=25656, Std. Dev.=3326, n=40. Normality test: Shapiro Wilk @ $\alpha = 0.01$ , calculated = 0.9204, critical = 0.919. Kappa = 2.234 (c=7, w=19, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.000198. Comparing 19 points to limit.

Constituent: pH Analysis Run 7/18/2019 12:42 PM View: PLs - Interwell  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Exceeds Limit: GN-AP-MW-5, GN-AP-MW-6, GN-AP-MW-7, GN-AP-MW-11, GN-AP-M

Prediction Limit  
Interwell Non-parametric

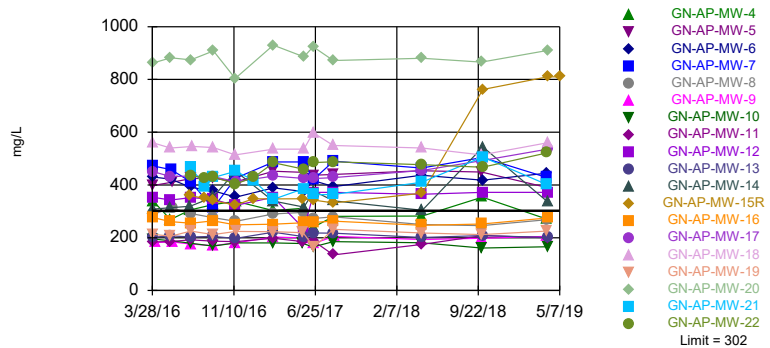


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 36 background values. 2.778% NDs. Annual per-constituent alpha = 0.04792. Individual comparison alpha = 0.001291 (1 of 2). Comparing 19 points to limit.

Constituent: Sulfate Analysis Run 7/18/2019 12:42 PM View: PLs - Interwell  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Exceeds Limit: GN-AP-MW-5, GN-AP-MW-6, GN-AP-MW-7, GN-AP-MW-12, GN-AP-M

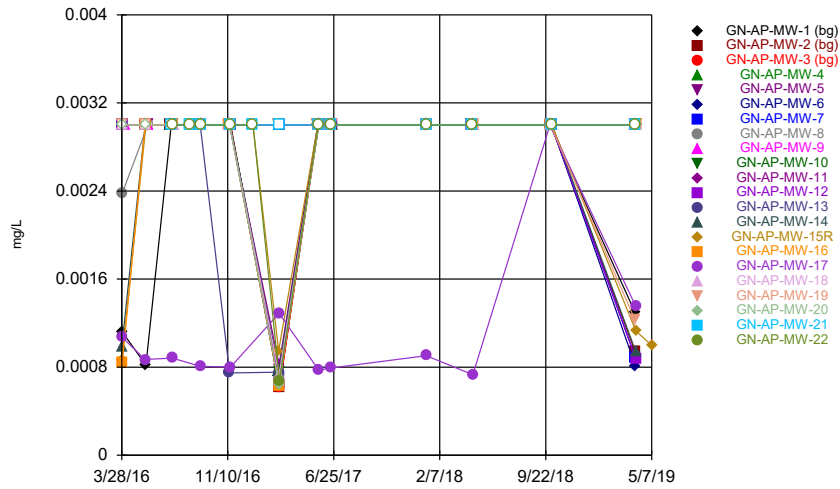
Prediction Limit  
Interwell Non-parametric



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 37 background values. Annual per-constituent alpha = 0.04586. Individual comparison alpha = 0.001235 (1 of 2). Comparing 19 points to limit.

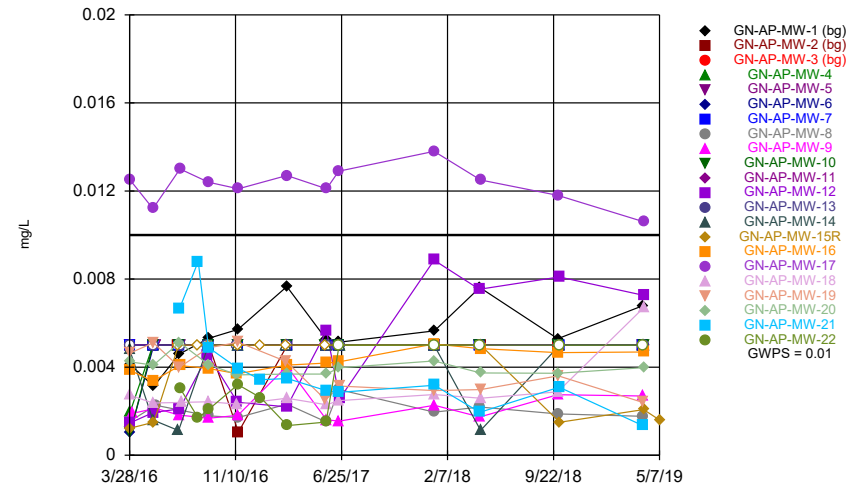
Constituent: TDS Analysis Run 7/18/2019 12:42 PM View: PLs - Interwell  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



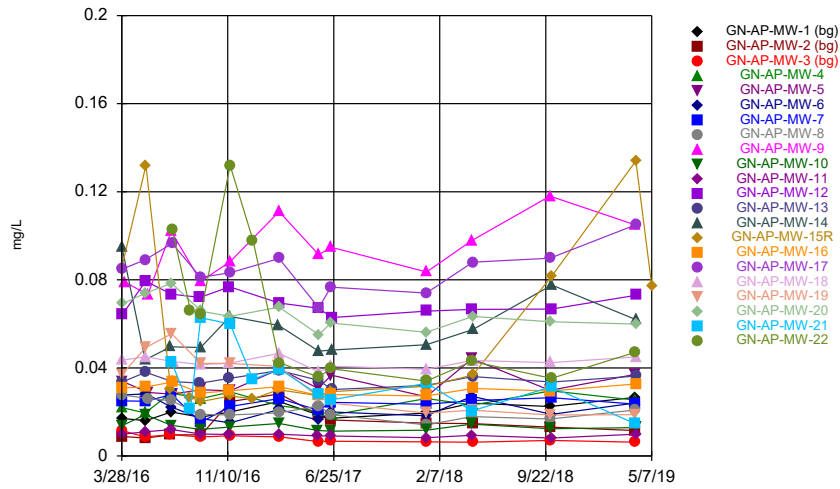
Constituent: Antimony Analysis Run 7/18/2019 12:45 PM View: Time Series - All Data  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



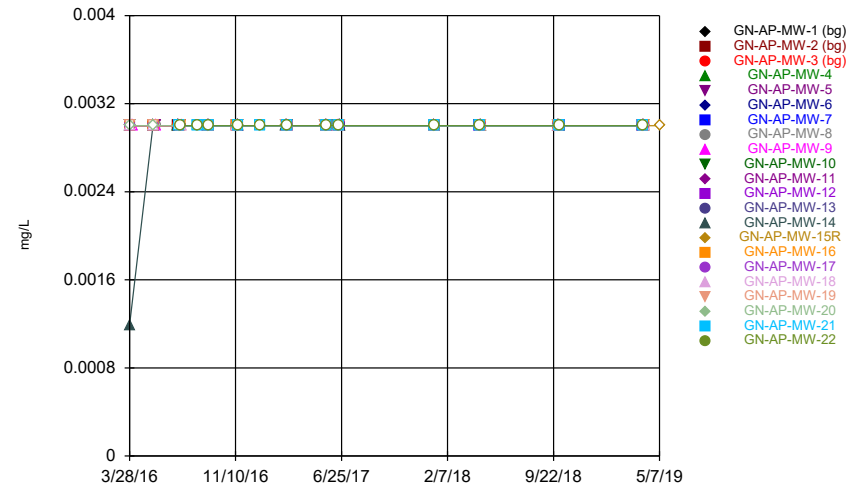
Constituent: Arsenic Analysis Run 7/18/2019 12:45 PM View: Time Series - All Data  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



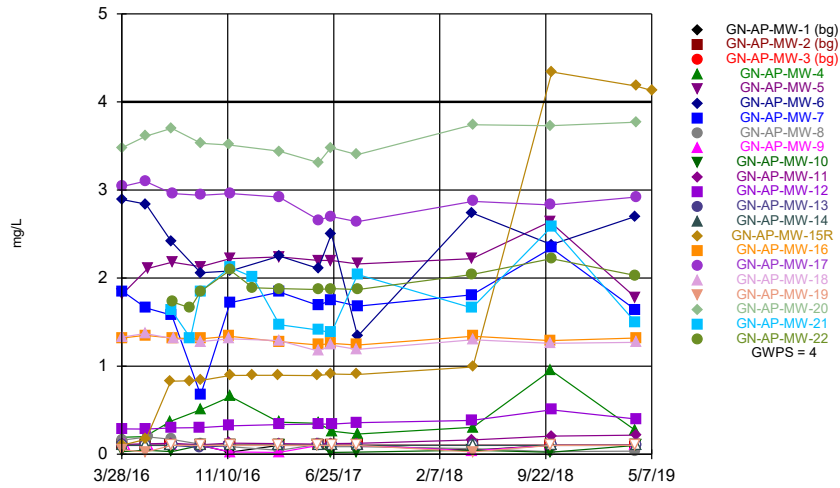
Constituent: Barium Analysis Run 7/18/2019 12:45 PM View: Time Series - All Data  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



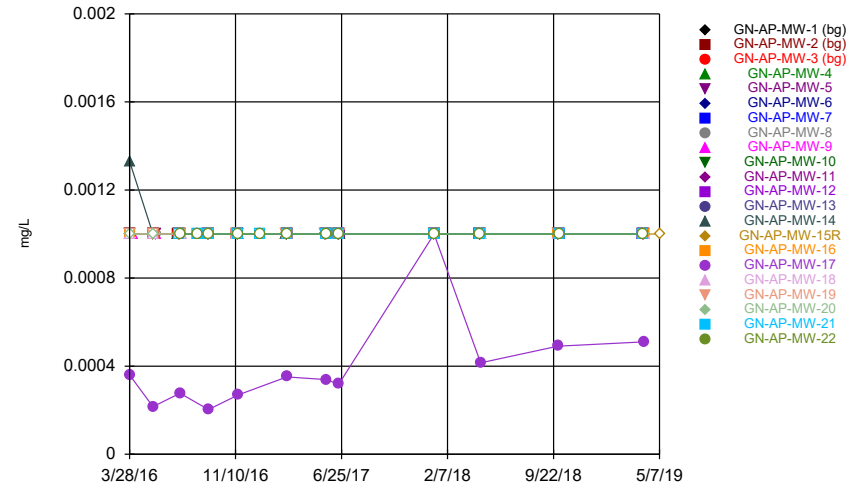
Constituent: Beryllium Analysis Run 7/18/2019 12:46 PM View: Time Series - All Data  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



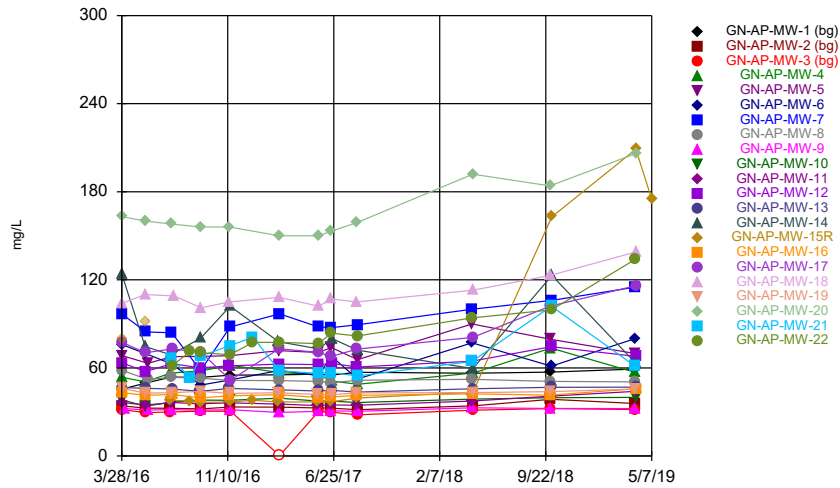
Constituent: Boron Analysis Run 7/18/2019 12:46 PM View: Time Series - All Data  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



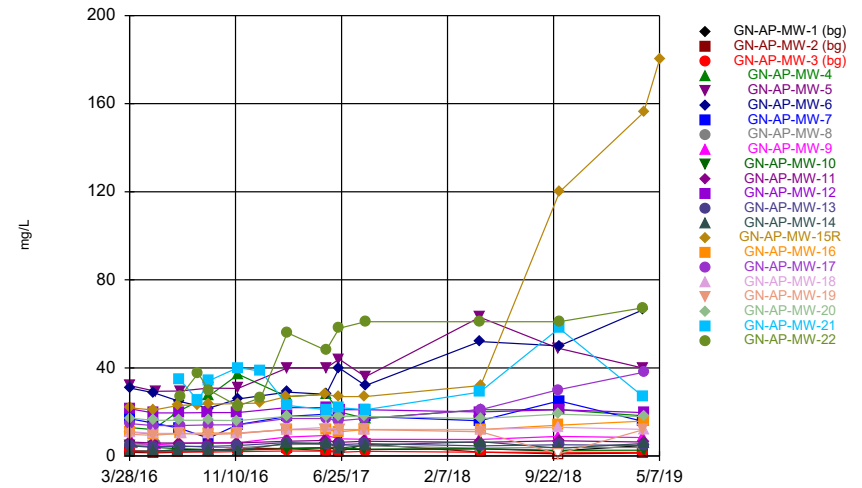
Constituent: Cadmium Analysis Run 7/18/2019 12:46 PM View: Time Series - All Data  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



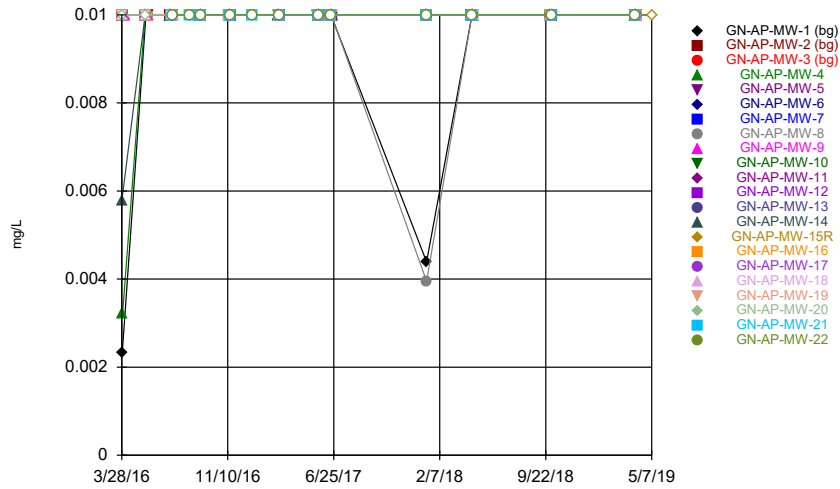
Constituent: Calcium Analysis Run 7/18/2019 12:46 PM View: Time Series - All Data  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



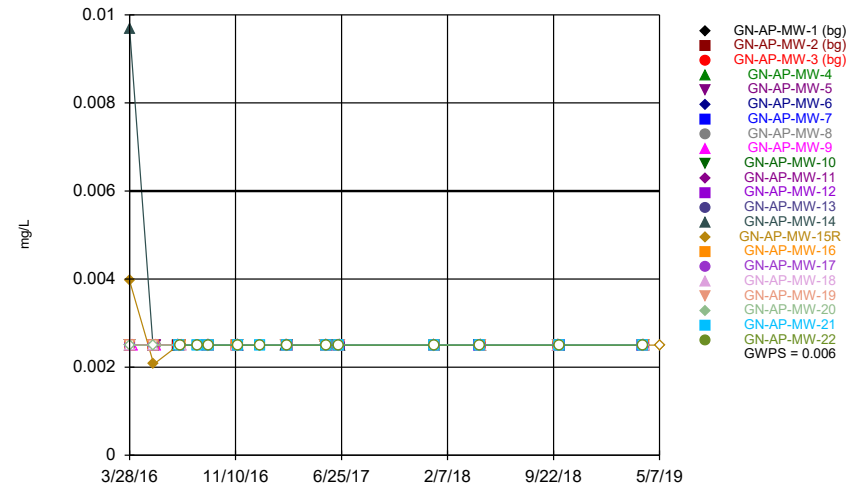
Constituent: Chloride Analysis Run 7/18/2019 12:46 PM View: Time Series - All Data  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



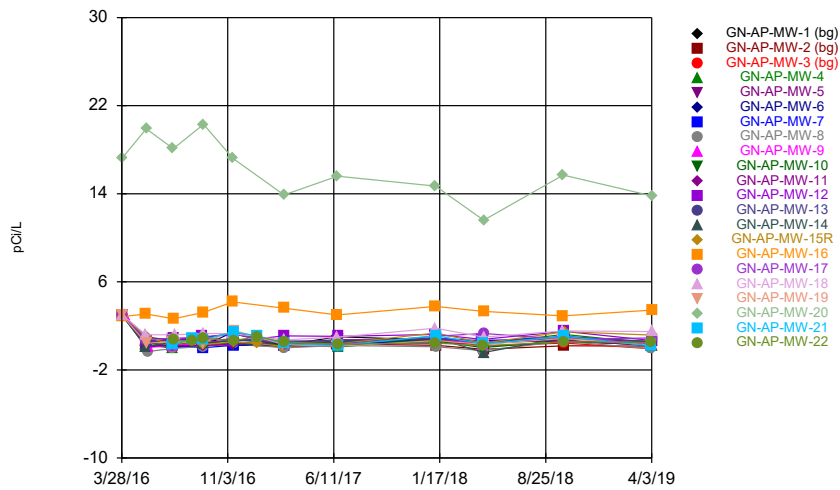
Constituent: Chromium Analysis Run 7/18/2019 12:46 PM View: Time Series - All Data  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



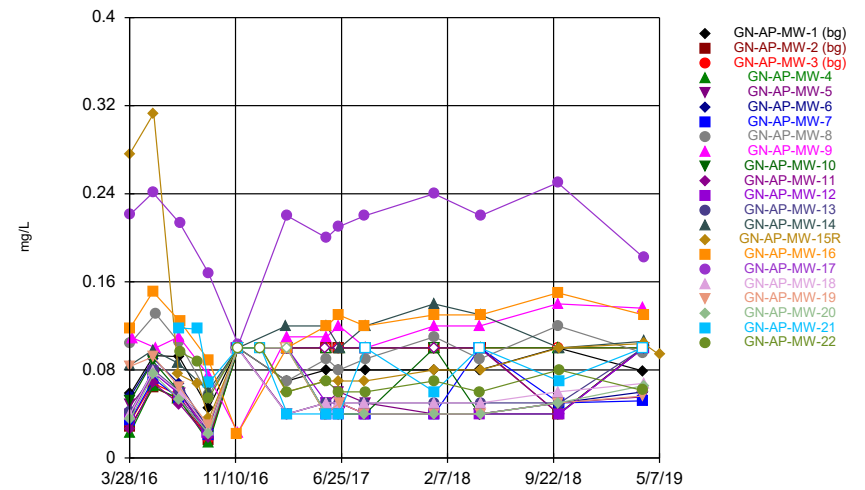
Constituent: Cobalt Analysis Run 7/18/2019 12:46 PM View: Time Series - All Data  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



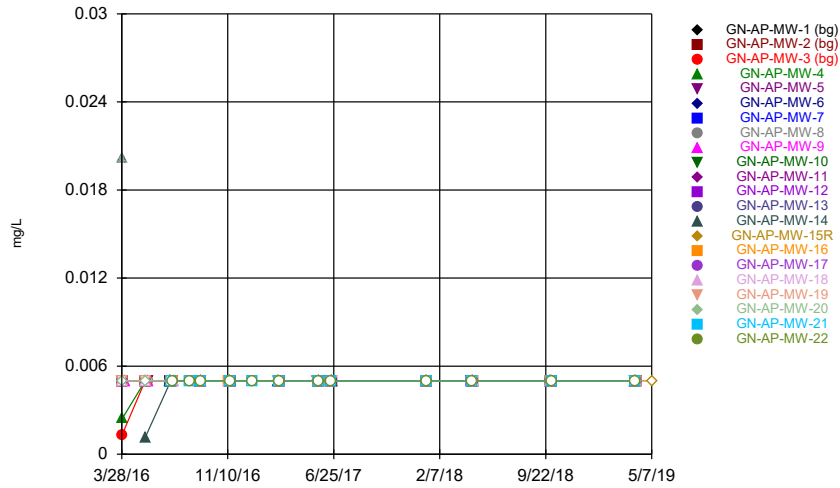
Constituent: Combined Radium 226 + 228 Analysis Run 7/18/2019 12:46 PM View: Time Series - All Data  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



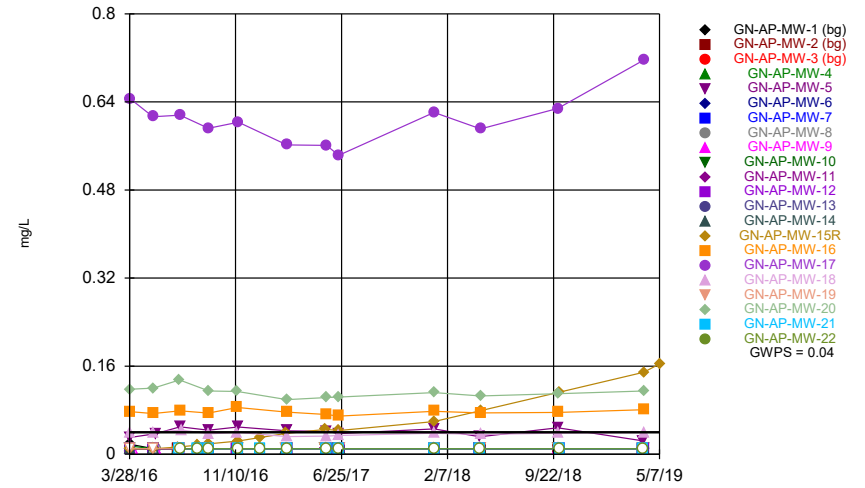
Constituent: Fluoride Analysis Run 7/18/2019 12:46 PM View: Time Series - All Data  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



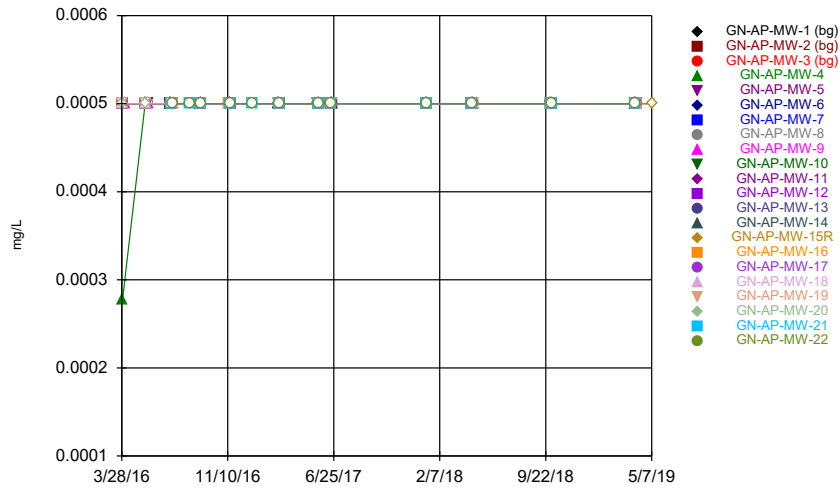
Constituent: Lead Analysis Run 7/18/2019 12:46 PM View: Time Series - All Data  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



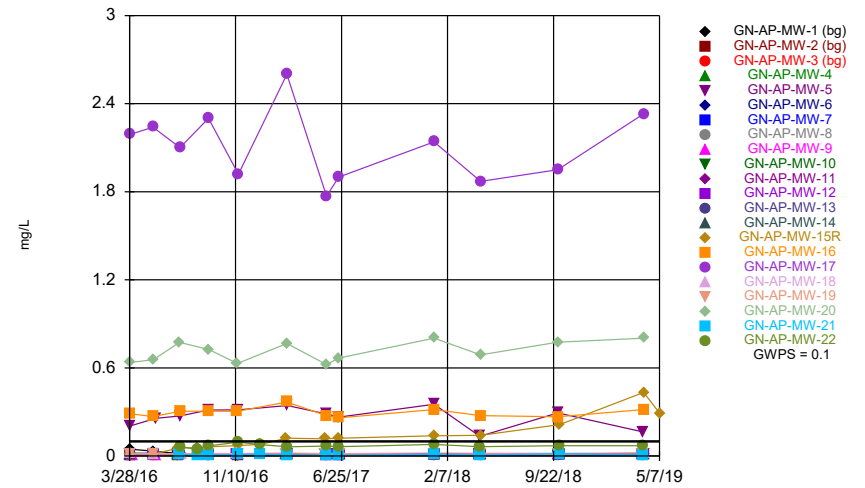
Constituent: Lithium Analysis Run 7/18/2019 12:46 PM View: Time Series - All Data  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



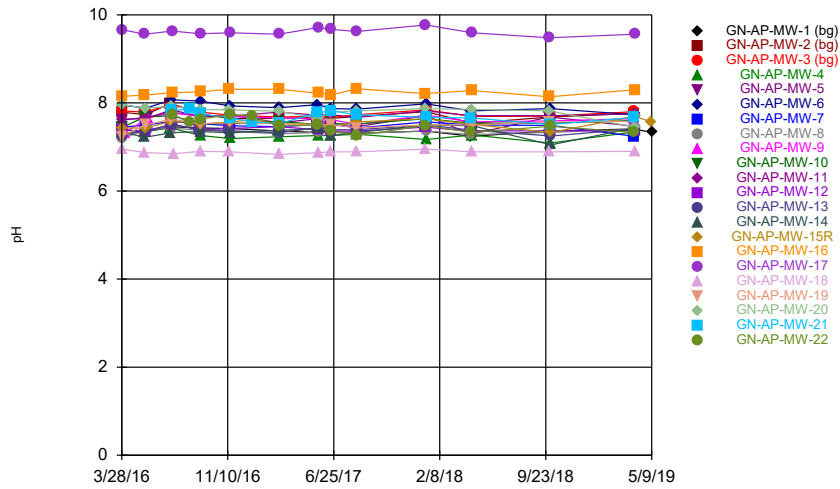
Constituent: Mercury Analysis Run 7/18/2019 12:46 PM View: Time Series - All Data  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



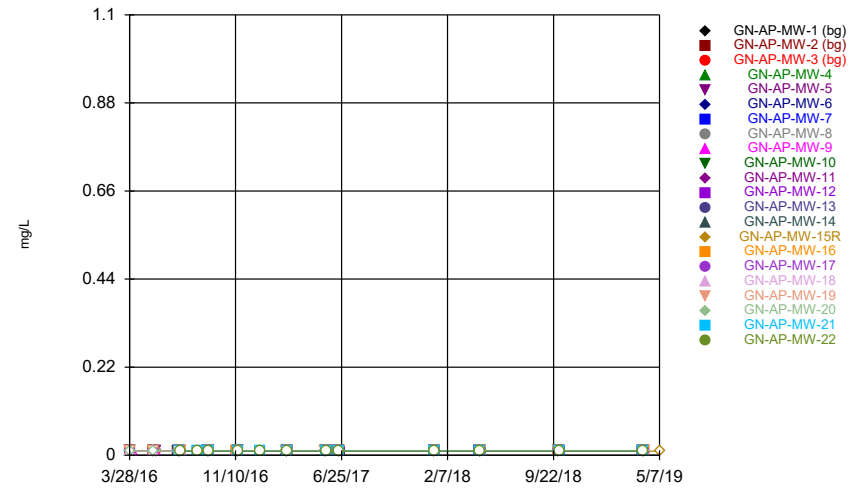
Constituent: Molybdenum Analysis Run 7/18/2019 12:46 PM View: Time Series - All Data  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



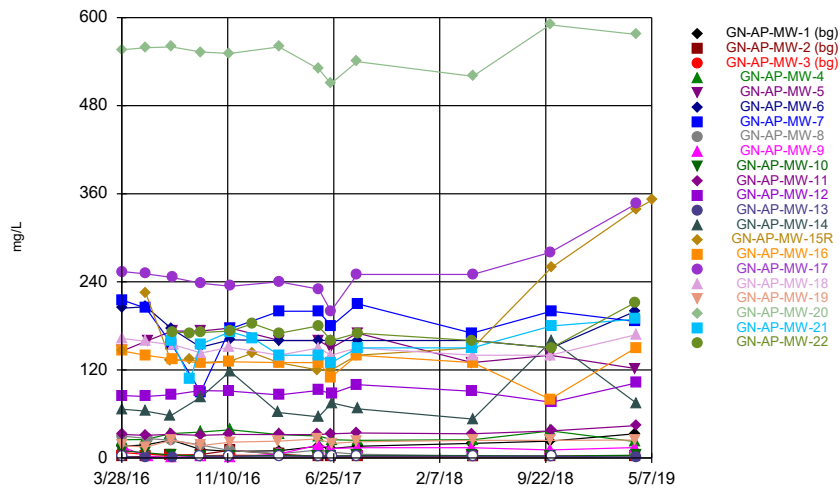
Constituent: pH Analysis Run 7/18/2019 12:46 PM View: Time Series - All Data  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



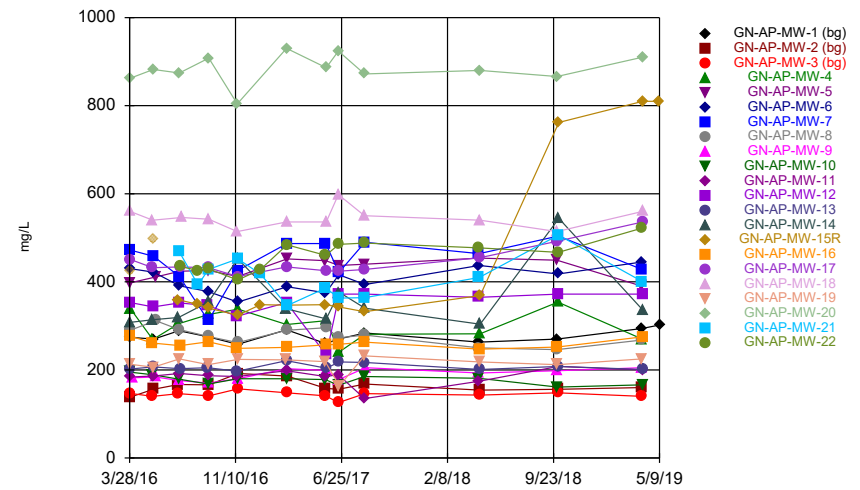
Constituent: Selenium Analysis Run 7/18/2019 12:46 PM View: Time Series - All Data  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



Constituent: Sulfate Analysis Run 7/18/2019 12:46 PM View: Time Series - All Data  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

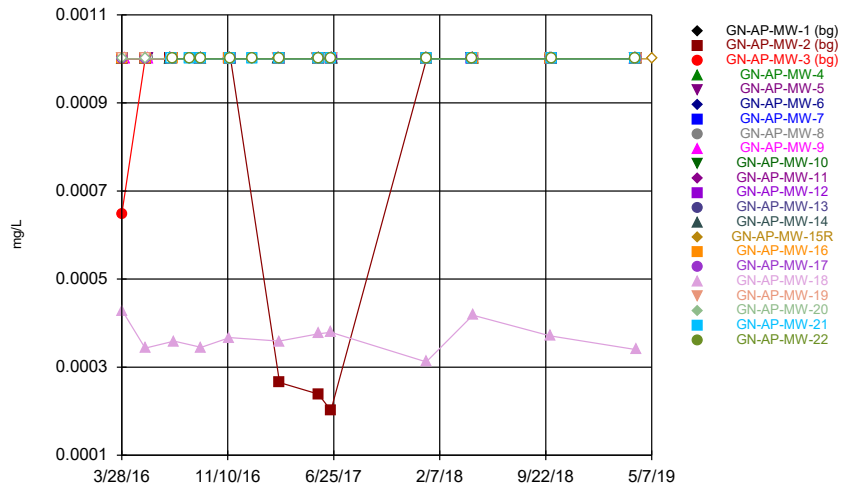
Time Series



Constituent: TDS Analysis Run 7/18/2019 12:46 PM View: Time Series - All Data  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond



### Time Series



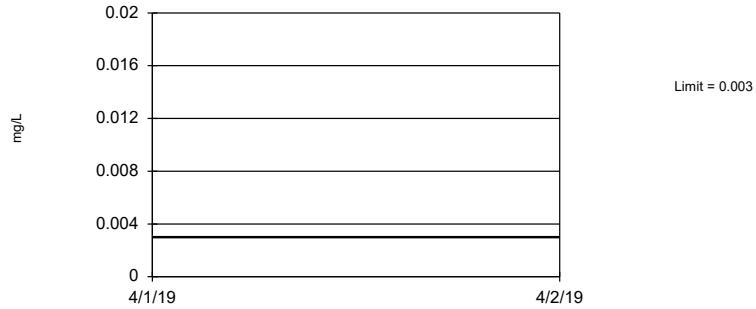
Constituent: Thallium Analysis Run 7/18/2019 12:47 PM View: Time Series - All Data  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

# Upper Tolerance Limits

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 7/18/2019, 12:51 PM

| <u>Constituent</u>                | <u>Upper Lim.</u> | <u>Bg N</u> | <u>Bg Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u>      |
|-----------------------------------|-------------------|-------------|----------------|------------------|-------------|----------------|------------------|--------------|--------------------|
| Antimony (mg/L)                   | 0.003             | 36          | n/a            | n/a              | 80.56       | n/a            | n/a              | 0.1578       | NP Inter(NDs)      |
| Arsenic (mg/L)                    | 0.00766           | 36          | n/a            | n/a              | 63.89       | n/a            | n/a              | 0.1578       | NP Inter(normal... |
| Barium (mg/L)                     | 0.02861           | 36          | 0.0144         | 0.006585         | 0           | None           | No               | 0.05         | Inter              |
| Beryllium (mg/L)                  | 0.003             | 36          | n/a            | n/a              | 100         | n/a            | n/a              | 0.1578       | NP Inter(NDs)      |
| Cadmium (mg/L)                    | 0.001             | 36          | n/a            | n/a              | 100         | n/a            | n/a              | 0.1578       | NP Inter(NDs)      |
| Chromium (mg/L)                   | 0.01              | 36          | n/a            | n/a              | 94.44       | n/a            | n/a              | 0.1578       | NP Inter(NDs)      |
| Cobalt (mg/L)                     | 0.0025            | 36          | n/a            | n/a              | 100         | n/a            | n/a              | 0.1578       | NP Inter(NDs)      |
| Combined Radium 226 + 228 (pCi/L) | 3                 | 34          | n/a            | n/a              | 0           | n/a            | n/a              | 0.1748       | NP Inter(normal... |
| Fluoride (mg/L)                   | 0.1               | 39          | n/a            | n/a              | 46.15       | n/a            | n/a              | 0.1353       | NP Inter(normal... |
| Lead (mg/L)                       | 0.005             | 36          | n/a            | n/a              | 97.22       | n/a            | n/a              | 0.1578       | NP Inter(NDs)      |
| Lithium (mg/L)                    | 0.0182            | 36          | n/a            | n/a              | 97.22       | n/a            | n/a              | 0.1578       | NP Inter(NDs)      |
| Mercury (mg/L)                    | 0.0005            | 36          | n/a            | n/a              | 100         | n/a            | n/a              | 0.1578       | NP Inter(NDs)      |
| Molybdenum (mg/L)                 | 0.0463            | 36          | n/a            | n/a              | 27.78       | n/a            | n/a              | 0.1578       | NP Inter(normal... |
| Selenium (mg/L)                   | 0.01              | 36          | n/a            | n/a              | 100         | n/a            | n/a              | 0.1578       | NP Inter(NDs)      |
| Thallium (mg/L)                   | 0.001             | 36          | n/a            | n/a              | 88.89       | n/a            | n/a              | 0.1578       | NP Inter(NDs)      |

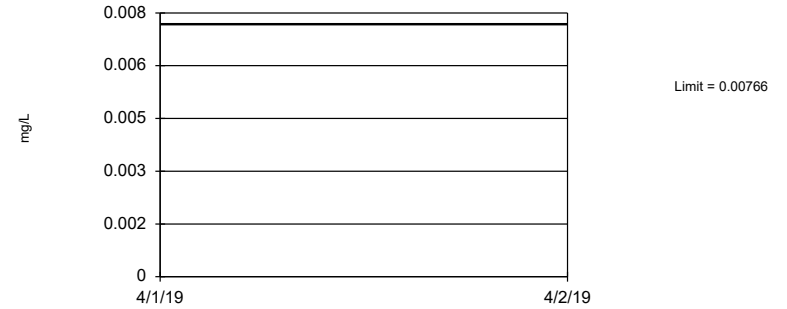
Tolerance Limit  
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 36 background values. 80.56% NDs. 88.09% coverage at alpha=0.01; 91.99% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1578.

Constituent: Antimony Analysis Run 7/18/2019 12:50 PM View: UTL's - App IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

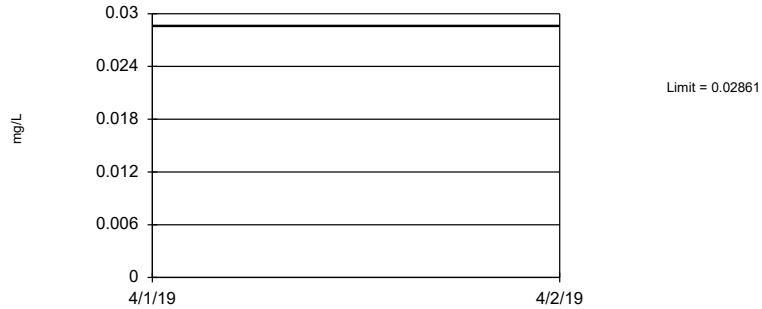
Tolerance Limit  
Interwell Non-parametric



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 36 background values. 63.89% NDs. 88.09% coverage at alpha=0.01; 91.99% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1578.

Constituent: Arsenic Analysis Run 7/18/2019 12:50 PM View: UTL's - App IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

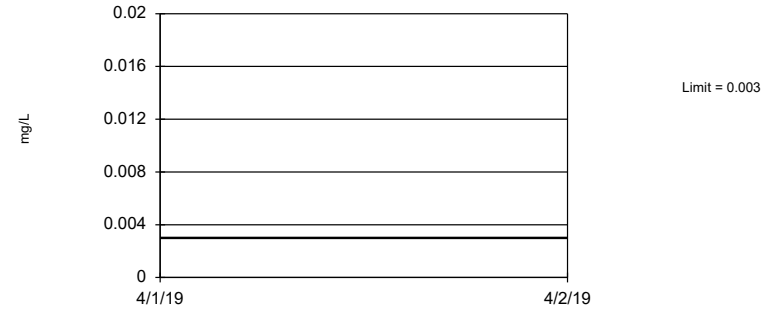
Tolerance Limit  
Interwell Parametric



95% coverage. Background Data Summary: Mean=0.0144, Std. Dev.=0.006585, n=36. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9128, critical = 0.912. Report alpha = 0.05.

Constituent: Barium Analysis Run 7/18/2019 12:50 PM View: UTL's - App IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

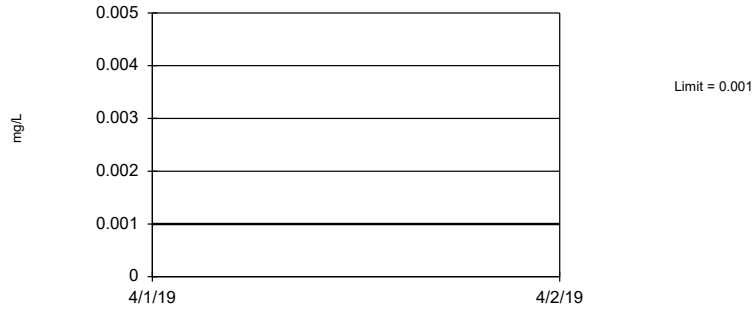
Tolerance Limit  
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 88.09% coverage at alpha=0.01; 91.99% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1578.

Constituent: Beryllium Analysis Run 7/18/2019 12:50 PM View: UTL's - App IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 88.09% coverage at alpha=0.01; 91.99% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1578.

Constituent: Cadmium Analysis Run 7/18/2019 12:50 PM View: UTL's - App IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

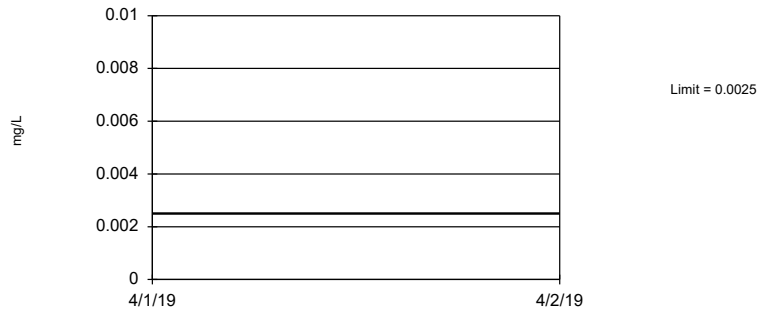
### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 36 background values. 94.44% NDs. 88.09% coverage at alpha=0.01; 91.99% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1578.

Constituent: Chromium Analysis Run 7/18/2019 12:50 PM View: UTL's - App IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 88.09% coverage at alpha=0.01; 91.99% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1578.

Constituent: Cobalt Analysis Run 7/18/2019 12:50 PM View: UTL's - App IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

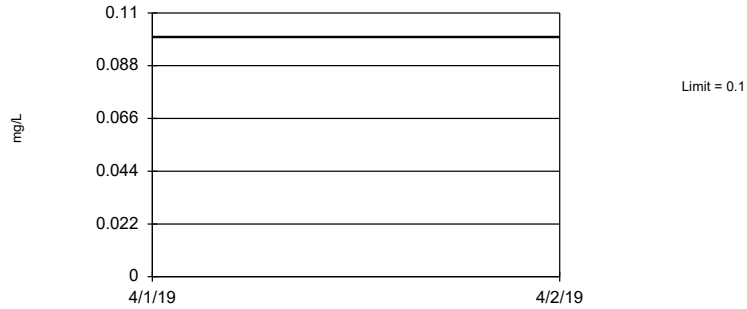
### Tolerance Limit Interwell Non-parametric



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 34 background values. 87.3% coverage at alpha=0.01; 91.6% coverage at alpha=0.05; 97.85% coverage at alpha=0.5. Report alpha = 0.1748.

Constituent: Combined Radium 226 + 228 Analysis Run 7/18/2019 12:50 PM View: UTL's - App IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

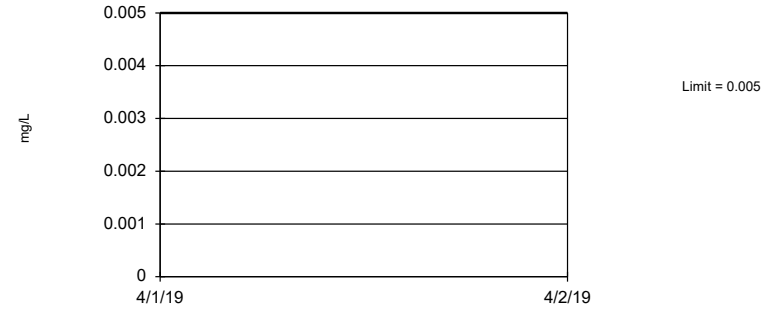
### Tolerance Limit Interwell Non-parametric



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 39 background values. 46.15% NDs. 88.87% coverage at alpha=0.01; 92.77% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1353.

Constituent: Fluoride Analysis Run 7/18/2019 12:50 PM View: UTL's - App IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

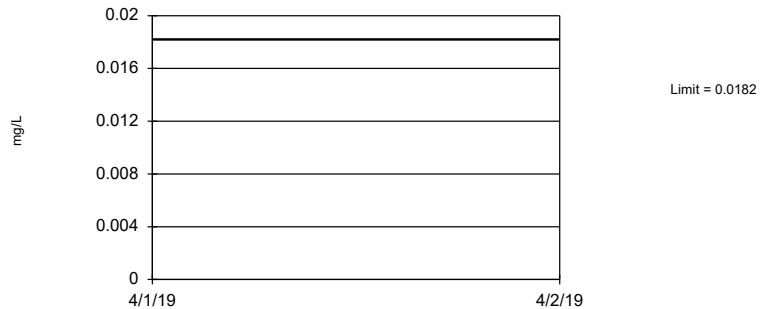
### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 36 background values. 97.22% NDs. 88.09% coverage at alpha=0.01; 91.99% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1578.

Constituent: Lead Analysis Run 7/18/2019 12:50 PM View: UTL's - App IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

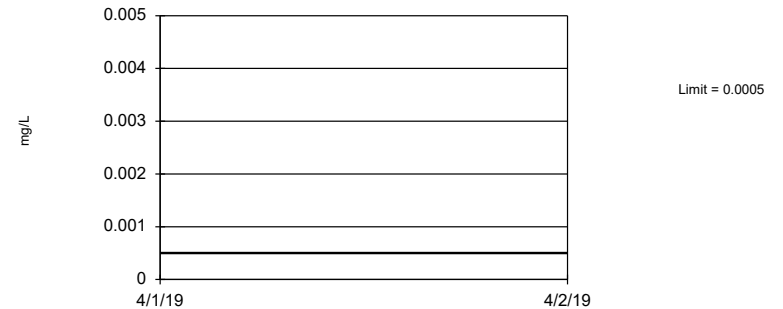
### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 36 background values. 97.22% NDs. 88.09% coverage at alpha=0.01; 91.99% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1578.

Constituent: Lithium Analysis Run 7/18/2019 12:50 PM View: UTL's - App IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

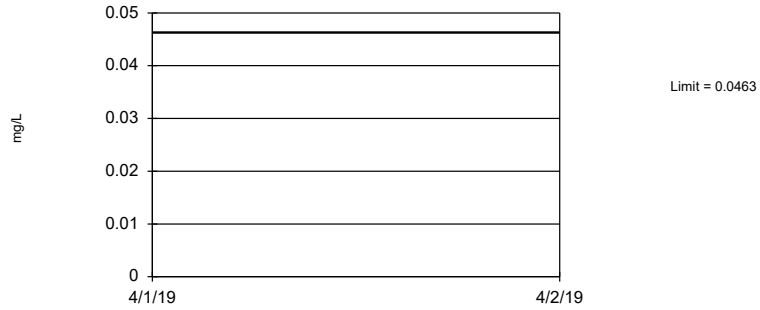
### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 88.09% coverage at alpha=0.01; 91.99% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1578.

Constituent: Mercury Analysis Run 7/18/2019 12:50 PM View: UTL's - App IV  
Plant Gaston Client: Southern Company Data: Gaston 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 36 background values. 27.78% NDs. 88.09% coverage at alpha=0.01; 91.99% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1578.

Constituent: Molybdenum Analysis Run 7/18/2019 12:50 PM View: UTL's - App IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 88.09% coverage at alpha=0.01; 91.99% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1578.

Constituent: Selenium Analysis Run 7/18/2019 12:50 PM View: UTL's - App IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 36 background values. 88.89% NDs. 88.09% coverage at alpha=0.01; 91.99% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1578.

Constituent: Thallium Analysis Run 7/18/2019 12:50 PM View: UTL's - App IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

# Confidence Intervals - Significant Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 7/18/2019, 1:03 PM

| Constituent                       | Well        | Upper Lim. | Lower Lim. | Compliance | Sig. | N  | %NDs | Transform | Alpha | Method |
|-----------------------------------|-------------|------------|------------|------------|------|----|------|-----------|-------|--------|
| Arsenic (mg/L)                    | GN-AP-MW-17 | 0.01296    | 0.01164    | 0.01       | Yes  | 12 | 0    | No        | 0.01  | Param. |
| Combined Radium 226 + 228 (pCi/L) | GN-AP-MW-20 | 18.41      | 13.96      | 5          | Yes  | 11 | 0    | No        | 0.01  | Param. |
| Lithium (mg/L)                    | GN-AP-MW-16 | 0.07971    | 0.0733     | 0.04       | Yes  | 12 | 0    | No        | 0.01  | Param. |
| Lithium (mg/L)                    | GN-AP-MW-17 | 0.6435     | 0.5719     | 0.04       | Yes  | 12 | 0    | No        | 0.01  | Param. |
| Lithium (mg/L)                    | GN-AP-MW-20 | 0.1201     | 0.1051     | 0.04       | Yes  | 12 | 0    | No        | 0.01  | Param. |
| Molybdenum (mg/L)                 | GN-AP-MW-5  | 0.3201     | 0.2137     | 0.1        | Yes  | 12 | 0    | No        | 0.01  | Param. |
| Molybdenum (mg/L)                 | GN-AP-MW-16 | 0.3197     | 0.2721     | 0.1        | Yes  | 12 | 0    | No        | 0.01  | Param. |
| Molybdenum (mg/L)                 | GN-AP-MW-17 | 2.297      | 1.922      | 0.1        | Yes  | 12 | 0    | No        | 0.01  | Param. |
| Molybdenum (mg/L)                 | GN-AP-MW-20 | 0.7672     | 0.6578     | 0.1        | Yes  | 12 | 0    | No        | 0.01  | Param. |

# Confidence Intervals - All Results

Plant Gaston    Client: Southern Company    Data: Gaston Ash Pond    Printed 7/18/2019, 1:03 PM

| Constituent           | Well               | Upper Lim.     | Lower Lim.     | Compliance  | Sig.       | N         | %NDs     | Transform | Alpha       | Method         |
|-----------------------|--------------------|----------------|----------------|-------------|------------|-----------|----------|-----------|-------------|----------------|
| Antimony (mg/L)       | GN-AP-MW-4         | 0.003          | 0.003          | 0.006       | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Antimony (mg/L)       | GN-AP-MW-5         | 0.003          | 0.000689       | 0.006       | No         | 12        | 91.67    | No        | 0.01        | NP (NDs)       |
| Antimony (mg/L)       | GN-AP-MW-6         | 0.003          | 0.000812       | 0.006       | No         | 12        | 91.67    | No        | 0.01        | NP (NDs)       |
| Antimony (mg/L)       | GN-AP-MW-7         | 0.003          | 0.00089        | 0.006       | No         | 12        | 91.67    | No        | 0.01        | NP (NDs)       |
| Antimony (mg/L)       | GN-AP-MW-8         | 0.003          | 0.00238        | 0.006       | No         | 12        | 83.33    | No        | 0.01        | NP (NDs)       |
| Antimony (mg/L)       | GN-AP-MW-9         | 0.003          | 0.000662       | 0.006       | No         | 12        | 91.67    | No        | 0.01        | NP (NDs)       |
| Antimony (mg/L)       | GN-AP-MW-10        | 0.003          | 0.000753       | 0.006       | No         | 12        | 91.67    | No        | 0.01        | NP (NDs)       |
| Antimony (mg/L)       | GN-AP-MW-11        | 0.003          | 0.000823       | 0.006       | No         | 12        | 91.67    | No        | 0.01        | NP (NDs)       |
| Antimony (mg/L)       | GN-AP-MW-12        | 0.003          | 0.000871       | 0.006       | No         | 12        | 83.33    | No        | 0.01        | NP (NDs)       |
| Antimony (mg/L)       | GN-AP-MW-13        | 0.003          | 0.000755       | 0.006       | No         | 12        | 83.33    | No        | 0.01        | NP (NDs)       |
| Antimony (mg/L)       | GN-AP-MW-14        | 0.003          | 0.000939       | 0.006       | No         | 12        | 75       | No        | 0.01        | NP (normality) |
| Antimony (mg/L)       | GN-AP-MW-15R       | 0.003          | 0.000998       | 0.006       | No         | 15        | 73.33    | No        | 0.01        | NP (normality) |
| Antimony (mg/L)       | GN-AP-MW-16        | 0.003          | 0.000838       | 0.006       | No         | 12        | 83.33    | No        | 0.01        | NP (NDs)       |
| Antimony (mg/L)       | GN-AP-MW-17        | 0.00135        | 0.000774       | 0.006       | No         | 12        | 8.333    | No        | 0.01        | NP (normality) |
| Antimony (mg/L)       | GN-AP-MW-18        | 0.003          | 0.000728       | 0.006       | No         | 12        | 91.67    | No        | 0.01        | NP (NDs)       |
| Antimony (mg/L)       | GN-AP-MW-19        | 0.003          | 0.00123        | 0.006       | No         | 12        | 91.67    | No        | 0.01        | NP (NDs)       |
| Antimony (mg/L)       | GN-AP-MW-20        | 0.003          | 0.000643       | 0.006       | No         | 12        | 91.67    | No        | 0.01        | NP (NDs)       |
| Antimony (mg/L)       | GN-AP-MW-21        | 0.003          | 0.003          | 0.006       | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Antimony (mg/L)       | GN-AP-MW-22        | 0.003          | 0.000678       | 0.006       | No         | 12        | 91.67    | No        | 0.01        | NP (NDs)       |
| Arsenic (mg/L)        | GN-AP-MW-4         | 0.005          | 0.002          | 0.01        | No         | 12        | 91.67    | No        | 0.01        | NP (NDs)       |
| Arsenic (mg/L)        | GN-AP-MW-5         | 0.005          | 0.005          | 0.01        | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Arsenic (mg/L)        | GN-AP-MW-6         | 0.005          | 0.00105        | 0.01        | No         | 12        | 91.67    | No        | 0.01        | NP (NDs)       |
| Arsenic (mg/L)        | GN-AP-MW-7         | 0.005          | 0.005          | 0.01        | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Arsenic (mg/L)        | GN-AP-MW-8         | 0.002318       | 0.00168        | 0.01        | No         | 12        | 0        | No        | 0.01        | Param.         |
| Arsenic (mg/L)        | GN-AP-MW-9         | 0.002596       | 0.001671       | 0.01        | No         | 12        | 0        | ln(x)     | 0.01        | Param.         |
| Arsenic (mg/L)        | GN-AP-MW-10        | 0.005          | 0.00105        | 0.01        | No         | 12        | 91.67    | No        | 0.01        | NP (NDs)       |
| Arsenic (mg/L)        | GN-AP-MW-11        | 0.005          | 0.005          | 0.01        | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Arsenic (mg/L)        | GN-AP-MW-12        | 0.00653        | 0.00232        | 0.01        | No         | 12        | 0        | sqrt(x)   | 0.01        | Param.         |
| Arsenic (mg/L)        | GN-AP-MW-13        | 0.005          | 0.005          | 0.01        | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Arsenic (mg/L)        | GN-AP-MW-14        | 0.005          | 0.00113        | 0.01        | No         | 12        | 66.67    | No        | 0.01        | NP (normality) |
| Arsenic (mg/L)        | GN-AP-MW-15R       | 0.005          | 0.0015         | 0.01        | No         | 15        | 66.67    | No        | 0.01        | NP (normality) |
| Arsenic (mg/L)        | GN-AP-MW-16        | 0.004616       | 0.003833       | 0.01        | No         | 12        | 0        | No        | 0.01        | Param.         |
| <b>Arsenic (mg/L)</b> | <b>GN-AP-MW-17</b> | <b>0.01296</b> | <b>0.01164</b> | <b>0.01</b> | <b>Yes</b> | <b>12</b> | <b>0</b> | <b>No</b> | <b>0.01</b> | <b>Param.</b>  |
| Arsenic (mg/L)        | GN-AP-MW-18        | 0.00288        | 0.00232        | 0.01        | No         | 12        | 0        | No        | 0.01        | NP (normality) |
| Arsenic (mg/L)        | GN-AP-MW-19        | 0.004586       | 0.003012       | 0.01        | No         | 12        | 0        | No        | 0.01        | Param.         |
| Arsenic (mg/L)        | GN-AP-MW-20        | 0.00428        | 0.00369        | 0.01        | No         | 12        | 0        | No        | 0.01        | NP (normality) |
| Arsenic (mg/L)        | GN-AP-MW-21        | 0.005495       | 0.002267       | 0.01        | No         | 12        | 0        | No        | 0.01        | Param.         |
| Arsenic (mg/L)        | GN-AP-MW-22        | 0.005          | 0.00151        | 0.01        | No         | 12        | 41.67    | No        | 0.01        | NP (normality) |
| Barium (mg/L)         | GN-AP-MW-4         | 0.02724        | 0.02129        | 2           | No         | 12        | 0        | No        | 0.01        | Param.         |
| Barium (mg/L)         | GN-AP-MW-5         | 0.03712        | 0.02878        | 2           | No         | 12        | 0        | No        | 0.01        | Param.         |
| Barium (mg/L)         | GN-AP-MW-6         | 0.02492        | 0.01774        | 2           | No         | 12        | 0        | No        | 0.01        | Param.         |
| Barium (mg/L)         | GN-AP-MW-7         | 0.02637        | 0.02124        | 2           | No         | 12        | 0        | No        | 0.01        | Param.         |
| Barium (mg/L)         | GN-AP-MW-8         | 0.02379        | 0.01743        | 2           | No         | 12        | 0        | No        | 0.01        | Param.         |
| Barium (mg/L)         | GN-AP-MW-9         | 0.1044         | 0.08281        | 2           | No         | 12        | 0        | No        | 0.01        | Param.         |
| Barium (mg/L)         | GN-AP-MW-10        | 0.01494        | 0.01186        | 2           | No         | 12        | 0        | sqrt(x)   | 0.01        | Param.         |
| Barium (mg/L)         | GN-AP-MW-11        | 0.01054        | 0.008886       | 2           | No         | 12        | 0        | No        | 0.01        | Param.         |
| Barium (mg/L)         | GN-AP-MW-12        | 0.07384        | 0.06578        | 2           | No         | 12        | 0        | No        | 0.01        | Param.         |
| Barium (mg/L)         | GN-AP-MW-13        | 0.03653        | 0.03271        | 2           | No         | 12        | 0        | No        | 0.01        | Param.         |
| Barium (mg/L)         | GN-AP-MW-14        | 0.06926        | 0.04751        | 2           | No         | 12        | 0        | sqrt(x)   | 0.01        | Param.         |
| Barium (mg/L)         | GN-AP-MW-15R       | 0.0856         | 0.0267         | 2           | No         | 15        | 0        | No        | 0.01        | NP (normality) |
| Barium (mg/L)         | GN-AP-MW-16        | 0.0317         | 0.0285         | 2           | No         | 12        | 0        | No        | 0.01        | Param.         |
| Barium (mg/L)         | GN-AP-MW-17        | 0.09337        | 0.07753        | 2           | No         | 12        | 0        | No        | 0.01        | Param.         |
| Barium (mg/L)         | GN-AP-MW-18        | 0.04446        | 0.04069        | 2           | No         | 12        | 0        | No        | 0.01        | Param.         |
| Barium (mg/L)         | GN-AP-MW-19        | 0.04315        | 0.02273        | 2           | No         | 12        | 0        | No        | 0.01        | Param.         |
| Barium (mg/L)         | GN-AP-MW-20        | 0.06995        | 0.0591         | 2           | No         | 12        | 0        | No        | 0.01        | Param.         |
| Barium (mg/L)         | GN-AP-MW-21        | 0.04618        | 0.0228         | 2           | No         | 12        | 0        | No        | 0.01        | Param.         |
| Barium (mg/L)         | GN-AP-MW-22        | 0.0824         | 0.03794        | 2           | No         | 12        | 0        | x^(1/3)   | 0.01        | Param.         |
| Beryllium (mg/L)      | GN-AP-MW-4         | 0.003          | 0.003          | 0.004       | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Beryllium (mg/L)      | GN-AP-MW-5         | 0.003          | 0.003          | 0.004       | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Beryllium (mg/L)      | GN-AP-MW-6         | 0.003          | 0.003          | 0.004       | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Beryllium (mg/L)      | GN-AP-MW-7         | 0.003          | 0.003          | 0.004       | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Beryllium (mg/L)      | GN-AP-MW-8         | 0.003          | 0.003          | 0.004       | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Beryllium (mg/L)      | GN-AP-MW-9         | 0.003          | 0.003          | 0.004       | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Beryllium (mg/L)      | GN-AP-MW-10        | 0.003          | 0.003          | 0.004       | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Beryllium (mg/L)      | GN-AP-MW-11        | 0.003          | 0.003          | 0.004       | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Beryllium (mg/L)      | GN-AP-MW-12        | 0.003          | 0.003          | 0.004       | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Beryllium (mg/L)      | GN-AP-MW-13        | 0.003          | 0.003          | 0.004       | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Beryllium (mg/L)      | GN-AP-MW-14        | 0.003          | 0.00119        | 0.004       | No         | 12        | 91.67    | No        | 0.01        | NP (NDs)       |



# Confidence Intervals - All Results

Plant Gaston    Client: Southern Company    Data: Gaston Ash Pond    Printed 7/18/2019, 1:03 PM

| Constituent                       | Well         | Upper Lim. | Lower Lim. | Compliance | Sig. | N  | %NDs  | Transform | Alpha | Method         |
|-----------------------------------|--------------|------------|------------|------------|------|----|-------|-----------|-------|----------------|
| Beryllium (mg/L)                  | GN-AP-MW-15R | 0.003      | 0.003      | 0.004      | No   | 15 | 100   | No        | 0.01  | NP (NDs)       |
| Beryllium (mg/L)                  | GN-AP-MW-16  | 0.003      | 0.003      | 0.004      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Beryllium (mg/L)                  | GN-AP-MW-17  | 0.003      | 0.003      | 0.004      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Beryllium (mg/L)                  | GN-AP-MW-18  | 0.003      | 0.003      | 0.004      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Beryllium (mg/L)                  | GN-AP-MW-19  | 0.003      | 0.003      | 0.004      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Beryllium (mg/L)                  | GN-AP-MW-20  | 0.003      | 0.003      | 0.004      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Beryllium (mg/L)                  | GN-AP-MW-21  | 0.003      | 0.003      | 0.004      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Beryllium (mg/L)                  | GN-AP-MW-22  | 0.003      | 0.003      | 0.004      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Cadmium (mg/L)                    | GN-AP-MW-4   | 0.001      | 0.001      | 0.005      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Cadmium (mg/L)                    | GN-AP-MW-5   | 0.001      | 0.001      | 0.005      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Cadmium (mg/L)                    | GN-AP-MW-6   | 0.001      | 0.001      | 0.005      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Cadmium (mg/L)                    | GN-AP-MW-7   | 0.001      | 0.001      | 0.005      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Cadmium (mg/L)                    | GN-AP-MW-8   | 0.001      | 0.001      | 0.005      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Cadmium (mg/L)                    | GN-AP-MW-9   | 0.001      | 0.001      | 0.005      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Cadmium (mg/L)                    | GN-AP-MW-10  | 0.001      | 0.001      | 0.005      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Cadmium (mg/L)                    | GN-AP-MW-11  | 0.001      | 0.001      | 0.005      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Cadmium (mg/L)                    | GN-AP-MW-12  | 0.001      | 0.001      | 0.005      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Cadmium (mg/L)                    | GN-AP-MW-13  | 0.001      | 0.001      | 0.005      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Cadmium (mg/L)                    | GN-AP-MW-14  | 0.00133    | 0.001      | 0.005      | No   | 12 | 91.67 | No        | 0.01  | NP (NDs)       |
| Cadmium (mg/L)                    | GN-AP-MW-15R | 0.001      | 0.001      | 0.005      | No   | 15 | 100   | No        | 0.01  | NP (NDs)       |
| Cadmium (mg/L)                    | GN-AP-MW-16  | 0.001      | 0.001      | 0.005      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Cadmium (mg/L)                    | GN-AP-MW-17  | 0.0005207  | 0.0002515  | 0.005      | No   | 12 | 8.333 | x^(1/3)   | 0.01  | Param.         |
| Cadmium (mg/L)                    | GN-AP-MW-18  | 0.001      | 0.001      | 0.005      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Cadmium (mg/L)                    | GN-AP-MW-19  | 0.001      | 0.001      | 0.005      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Cadmium (mg/L)                    | GN-AP-MW-20  | 0.001      | 0.001      | 0.005      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Cadmium (mg/L)                    | GN-AP-MW-21  | 0.001      | 0.001      | 0.005      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Cadmium (mg/L)                    | GN-AP-MW-22  | 0.001      | 0.001      | 0.005      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Chromium (mg/L)                   | GN-AP-MW-4   | 0.01       | 0.00322    | 0.1        | No   | 12 | 91.67 | No        | 0.01  | NP (NDs)       |
| Chromium (mg/L)                   | GN-AP-MW-5   | 0.01       | 0.01       | 0.1        | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Chromium (mg/L)                   | GN-AP-MW-6   | 0.01       | 0.01       | 0.1        | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Chromium (mg/L)                   | GN-AP-MW-7   | 0.01       | 0.01       | 0.1        | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Chromium (mg/L)                   | GN-AP-MW-8   | 0.01       | 0.00395    | 0.1        | No   | 12 | 91.67 | No        | 0.01  | NP (NDs)       |
| Chromium (mg/L)                   | GN-AP-MW-9   | 0.01       | 0.01       | 0.1        | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Chromium (mg/L)                   | GN-AP-MW-10  | 0.01       | 0.01       | 0.1        | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Chromium (mg/L)                   | GN-AP-MW-11  | 0.01       | 0.01       | 0.1        | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Chromium (mg/L)                   | GN-AP-MW-12  | 0.01       | 0.01       | 0.1        | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Chromium (mg/L)                   | GN-AP-MW-13  | 0.01       | 0.01       | 0.1        | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Chromium (mg/L)                   | GN-AP-MW-14  | 0.01       | 0.00577    | 0.1        | No   | 12 | 91.67 | No        | 0.01  | NP (NDs)       |
| Chromium (mg/L)                   | GN-AP-MW-15R | 0.01       | 0.01       | 0.1        | No   | 15 | 100   | No        | 0.01  | NP (NDs)       |
| Chromium (mg/L)                   | GN-AP-MW-16  | 0.01       | 0.01       | 0.1        | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Chromium (mg/L)                   | GN-AP-MW-17  | 0.01       | 0.01       | 0.1        | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Chromium (mg/L)                   | GN-AP-MW-18  | 0.01       | 0.01       | 0.1        | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Chromium (mg/L)                   | GN-AP-MW-19  | 0.01       | 0.01       | 0.1        | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Chromium (mg/L)                   | GN-AP-MW-20  | 0.01       | 0.01       | 0.1        | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Chromium (mg/L)                   | GN-AP-MW-21  | 0.01       | 0.01       | 0.1        | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Chromium (mg/L)                   | GN-AP-MW-22  | 0.01       | 0.01       | 0.1        | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Cobalt (mg/L)                     | GN-AP-MW-4   | 0.0025     | 0.0025     | 0.006      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Cobalt (mg/L)                     | GN-AP-MW-5   | 0.0025     | 0.0025     | 0.006      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Cobalt (mg/L)                     | GN-AP-MW-6   | 0.0025     | 0.0025     | 0.006      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Cobalt (mg/L)                     | GN-AP-MW-7   | 0.0025     | 0.0025     | 0.006      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Cobalt (mg/L)                     | GN-AP-MW-8   | 0.0025     | 0.0025     | 0.006      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Cobalt (mg/L)                     | GN-AP-MW-9   | 0.0025     | 0.0025     | 0.006      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Cobalt (mg/L)                     | GN-AP-MW-10  | 0.0025     | 0.0025     | 0.006      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Cobalt (mg/L)                     | GN-AP-MW-11  | 0.0025     | 0.0025     | 0.006      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Cobalt (mg/L)                     | GN-AP-MW-12  | 0.0025     | 0.0025     | 0.006      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Cobalt (mg/L)                     | GN-AP-MW-13  | 0.0025     | 0.0025     | 0.006      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Cobalt (mg/L)                     | GN-AP-MW-14  | 0.00969    | 0.0025     | 0.006      | No   | 12 | 91.67 | No        | 0.01  | NP (NDs)       |
| Cobalt (mg/L)                     | GN-AP-MW-15R | 0.00396    | 0.00207    | 0.006      | No   | 15 | 86.67 | No        | 0.01  | NP (NDs)       |
| Cobalt (mg/L)                     | GN-AP-MW-16  | 0.0025     | 0.0025     | 0.006      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Cobalt (mg/L)                     | GN-AP-MW-17  | 0.0025     | 0.0025     | 0.006      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Cobalt (mg/L)                     | GN-AP-MW-18  | 0.0025     | 0.0025     | 0.006      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Cobalt (mg/L)                     | GN-AP-MW-19  | 0.0025     | 0.0025     | 0.006      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Cobalt (mg/L)                     | GN-AP-MW-20  | 0.0025     | 0.0025     | 0.006      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Cobalt (mg/L)                     | GN-AP-MW-21  | 0.0025     | 0.0025     | 0.006      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Cobalt (mg/L)                     | GN-AP-MW-22  | 0.0025     | 0.0025     | 0.006      | No   | 12 | 100   | No        | 0.01  | NP (NDs)       |
| Combined Radium 226 + 228 (pCi/L) | GN-AP-MW-4   | 1.309      | 0.05755    | 5          | No   | 11 | 0     | x^(1/3)   | 0.01  | Param.         |
| Combined Radium 226 + 228 (pCi/L) | GN-AP-MW-5   | 0.84       | 0.245      | 5          | No   | 11 | 0     | No        | 0.006 | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | GN-AP-MW-6   | 1.22       | 0.1722     | 5          | No   | 11 | 0     | sqrt(x)   | 0.01  | Param.         |

# Confidence Intervals - All Results

Plant Gaston    Client: Southern Company    Data: Gaston Ash Pond    Printed 7/18/2019, 1:03 PM

| Constituent                              | Well               | Upper Lim.     | Lower Lim.    | Compliance  | Sig.       | N         | %NDs     | Transform | Alpha       | Method           |
|------------------------------------------|--------------------|----------------|---------------|-------------|------------|-----------|----------|-----------|-------------|------------------|
| Combined Radium 226 + 228 (pCi/L)        | GN-AP-MW-7         | 0.6359         | 0.09614       | 5           | No         | 10        | 0        | sqrt(x)   | 0.01        | Param.           |
| Combined Radium 226 + 228 (pCi/L)        | GN-AP-MW-8         | 0.4997         | -0.05068      | 5           | No         | 11        | 0        | x^(1/3)   | 0.01        | Param.           |
| Combined Radium 226 + 228 (pCi/L)        | GN-AP-MW-9         | 1.2            | 0.1883        | 5           | No         | 11        | 0        | sqrt(x)   | 0.01        | Param.           |
| Combined Radium 226 + 228 (pCi/L)        | GN-AP-MW-10        | 0.9681         | 0.1711        | 5           | No         | 11        | 0        | ln(x)     | 0.01        | Param.           |
| Combined Radium 226 + 228 (pCi/L)        | GN-AP-MW-11        | 0.703          | 0.177         | 5           | No         | 11        | 0        | No        | 0.006       | NP (normality)   |
| Combined Radium 226 + 228 (pCi/L)        | GN-AP-MW-12        | 1.472          | 0.6724        | 5           | No         | 11        | 0        | ln(x)     | 0.01        | Param.           |
| Combined Radium 226 + 228 (pCi/L)        | GN-AP-MW-13        | 1.04           | 0.325         | 5           | No         | 11        | 0        | No        | 0.006       | NP (normality)   |
| Combined Radium 226 + 228 (pCi/L)        | GN-AP-MW-14        | 0.955          | -0.42         | 5           | No         | 11        | 0        | No        | 0.006       | NP (normality)   |
| Combined Radium 226 + 228 (pCi/L)        | GN-AP-MW-15R       | 1.265          | 0.3266        | 5           | No         | 13        | 0        | sqrt(x)   | 0.01        | Param.           |
| Combined Radium 226 + 228 (pCi/L)        | GN-AP-MW-16        | 3.648          | 2.9           | 5           | No         | 11        | 0        | No        | 0.01        | Param.           |
| Combined Radium 226 + 228 (pCi/L)        | GN-AP-MW-17        | 1.552          | 0.5305        | 5           | No         | 11        | 0        | sqrt(x)   | 0.01        | Param.           |
| Combined Radium 226 + 228 (pCi/L)        | GN-AP-MW-18        | 1.845          | 0.9497        | 5           | No         | 11        | 0        | sqrt(x)   | 0.01        | Param.           |
| Combined Radium 226 + 228 (pCi/L)        | GN-AP-MW-19        | 1.271          | 0.2321        | 5           | No         | 11        | 0        | sqrt(x)   | 0.01        | Param.           |
| <b>Combined Radium 226 + 228 (pCi/L)</b> | <b>GN-AP-MW-20</b> | <b>18.41</b>   | <b>13.96</b>  | <b>5</b>    | <b>Yes</b> | <b>11</b> | <b>0</b> | <b>No</b> | <b>0.01</b> | <b>Param.</b>    |
| Combined Radium 226 + 228 (pCi/L)        | GN-AP-MW-21        | 1.065          | 0.3504        | 5           | No         | 11        | 0        | No        | 0.01        | Param.           |
| Combined Radium 226 + 228 (pCi/L)        | GN-AP-MW-22        | 0.7788         | 0.396         | 5           | No         | 11        | 0        | No        | 0.01        | Param.           |
| Fluoride (mg/L)                          | GN-AP-MW-4         | 0.1            | 0.023         | 4           | No         | 13        | 69.23    | No        | 0.01        | NP (normality)   |
| Fluoride (mg/L)                          | GN-AP-MW-5         | 0.06711        | 0.03942       | 4           | No         | 13        | 7.692    | No        | 0.01        | Param.           |
| Fluoride (mg/L)                          | GN-AP-MW-6         | 0.08088        | 0.03972       | 4           | No         | 13        | 15.38    | No        | 0.01        | Param.           |
| Fluoride (mg/L)                          | GN-AP-MW-7         | 0.1            | 0.034         | 4           | No         | 13        | 23.08    | No        | 0.01        | NP (Cohens/xfrm) |
| Fluoride (mg/L)                          | GN-AP-MW-8         | 0.1103         | 0.08084       | 4           | No         | 13        | 7.692    | No        | 0.01        | Param.           |
| Fluoride (mg/L)                          | GN-AP-MW-9         | 0.1252         | 0.09094       | 4           | No         | 13        | 7.692    | x^2       | 0.01        | Param.           |
| Fluoride (mg/L)                          | GN-AP-MW-10        | 0.1            | 0.019         | 4           | No         | 13        | 30.77    | No        | 0.01        | NP (normality)   |
| Fluoride (mg/L)                          | GN-AP-MW-11        | 0.1            | 0.026         | 4           | No         | 13        | 61.54    | No        | 0.01        | NP (normality)   |
| Fluoride (mg/L)                          | GN-AP-MW-12        | 0.1            | 0.039         | 4           | No         | 13        | 23.08    | No        | 0.01        | NP (Cohens/xfrm) |
| Fluoride (mg/L)                          | GN-AP-MW-13        | 0.08           | 0.04          | 4           | No         | 13        | 15.38    | No        | 0.01        | NP (Cohens/xfrm) |
| Fluoride (mg/L)                          | GN-AP-MW-14        | 0.1208         | 0.08924       | 4           | No         | 13        | 7.692    | No        | 0.01        | Param.           |
| Fluoride (mg/L)                          | GN-AP-MW-15R       | 0.104          | 0.067         | 4           | No         | 16        | 12.5     | No        | 0.01        | NP (normality)   |
| Fluoride (mg/L)                          | GN-AP-MW-16        | 0.1377         | 0.1009        | 4           | No         | 13        | 0        | x^2       | 0.01        | Param.           |
| Fluoride (mg/L)                          | GN-AP-MW-17        | 0.2333         | 0.1839        | 4           | No         | 13        | 0        | x^2       | 0.01        | Param.           |
| Fluoride (mg/L)                          | GN-AP-MW-18        | 0.0694         | 0.04134       | 4           | No         | 13        | 7.692    | No        | 0.01        | Param.           |
| Fluoride (mg/L)                          | GN-AP-MW-19        | 0.092          | 0.04          | 4           | No         | 13        | 15.38    | No        | 0.01        | NP (Cohens/xfrm) |
| Fluoride (mg/L)                          | GN-AP-MW-20        | 0.076          | 0.035         | 4           | No         | 13        | 15.38    | No        | 0.01        | NP (Cohens/xfrm) |
| Fluoride (mg/L)                          | GN-AP-MW-21        | 0.117          | 0.04          | 4           | No         | 13        | 38.46    | No        | 0.01        | NP (Cohens/xfrm) |
| Fluoride (mg/L)                          | GN-AP-MW-22        | 0.096          | 0.06          | 4           | No         | 13        | 15.38    | No        | 0.01        | NP (Cohens/xfrm) |
| Lead (mg/L)                              | GN-AP-MW-4         | 0.005          | 0.00247       | 0.015       | No         | 12        | 91.67    | No        | 0.01        | NP (NDs)         |
| Lead (mg/L)                              | GN-AP-MW-5         | 0.005          | 0.005         | 0.015       | No         | 12        | 100      | No        | 0.01        | NP (NDs)         |
| Lead (mg/L)                              | GN-AP-MW-6         | 0.005          | 0.005         | 0.015       | No         | 12        | 100      | No        | 0.01        | NP (NDs)         |
| Lead (mg/L)                              | GN-AP-MW-7         | 0.005          | 0.005         | 0.015       | No         | 12        | 100      | No        | 0.01        | NP (NDs)         |
| Lead (mg/L)                              | GN-AP-MW-8         | 0.005          | 0.005         | 0.015       | No         | 12        | 100      | No        | 0.01        | NP (NDs)         |
| Lead (mg/L)                              | GN-AP-MW-9         | 0.005          | 0.005         | 0.015       | No         | 12        | 100      | No        | 0.01        | NP (NDs)         |
| Lead (mg/L)                              | GN-AP-MW-10        | 0.005          | 0.005         | 0.015       | No         | 12        | 100      | No        | 0.01        | NP (NDs)         |
| Lead (mg/L)                              | GN-AP-MW-11        | 0.005          | 0.005         | 0.015       | No         | 12        | 100      | No        | 0.01        | NP (NDs)         |
| Lead (mg/L)                              | GN-AP-MW-12        | 0.005          | 0.005         | 0.015       | No         | 12        | 100      | No        | 0.01        | NP (NDs)         |
| Lead (mg/L)                              | GN-AP-MW-13        | 0.005          | 0.005         | 0.015       | No         | 12        | 100      | No        | 0.01        | NP (NDs)         |
| Lead (mg/L)                              | GN-AP-MW-14        | 0.005          | 0.00114       | 0.015       | No         | 11        | 90.91    | No        | 0.006       | NP (NDs)         |
| Lead (mg/L)                              | GN-AP-MW-15R       | 0.005          | 0.005         | 0.015       | No         | 15        | 100      | No        | 0.01        | NP (NDs)         |
| Lead (mg/L)                              | GN-AP-MW-16        | 0.005          | 0.005         | 0.015       | No         | 12        | 100      | No        | 0.01        | NP (NDs)         |
| Lead (mg/L)                              | GN-AP-MW-17        | 0.005          | 0.005         | 0.015       | No         | 12        | 100      | No        | 0.01        | NP (NDs)         |
| Lead (mg/L)                              | GN-AP-MW-18        | 0.005          | 0.005         | 0.015       | No         | 12        | 100      | No        | 0.01        | NP (NDs)         |
| Lead (mg/L)                              | GN-AP-MW-19        | 0.005          | 0.005         | 0.015       | No         | 12        | 100      | No        | 0.01        | NP (NDs)         |
| Lead (mg/L)                              | GN-AP-MW-20        | 0.005          | 0.005         | 0.015       | No         | 12        | 100      | No        | 0.01        | NP (NDs)         |
| Lead (mg/L)                              | GN-AP-MW-21        | 0.005          | 0.005         | 0.015       | No         | 12        | 100      | No        | 0.01        | NP (NDs)         |
| Lead (mg/L)                              | GN-AP-MW-22        | 0.005          | 0.005         | 0.015       | No         | 12        | 100      | No        | 0.01        | NP (NDs)         |
| Lithium (mg/L)                           | GN-AP-MW-4         | 0.015          | 0.01          | 0.04        | No         | 12        | 91.67    | No        | 0.01        | NP (NDs)         |
| Lithium (mg/L)                           | GN-AP-MW-5         | 0.04667        | 0.0339        | 0.04        | No         | 12        | 0        | No        | 0.01        | Param.           |
| Lithium (mg/L)                           | GN-AP-MW-6         | 0.01           | 0.01          | 0.04        | No         | 12        | 100      | No        | 0.01        | NP (NDs)         |
| Lithium (mg/L)                           | GN-AP-MW-7         | 0.01           | 0.01          | 0.04        | No         | 12        | 100      | No        | 0.01        | NP (NDs)         |
| Lithium (mg/L)                           | GN-AP-MW-8         | 0.01           | 0.01          | 0.04        | No         | 12        | 100      | No        | 0.01        | NP (NDs)         |
| Lithium (mg/L)                           | GN-AP-MW-9         | 0.01           | 0.01          | 0.04        | No         | 12        | 100      | No        | 0.01        | NP (NDs)         |
| Lithium (mg/L)                           | GN-AP-MW-10        | 0.01           | 0.01          | 0.04        | No         | 12        | 100      | No        | 0.01        | NP (NDs)         |
| Lithium (mg/L)                           | GN-AP-MW-11        | 0.01           | 0.01          | 0.04        | No         | 12        | 100      | No        | 0.01        | NP (NDs)         |
| Lithium (mg/L)                           | GN-AP-MW-12        | 0.01           | 0.01          | 0.04        | No         | 12        | 100      | No        | 0.01        | NP (NDs)         |
| Lithium (mg/L)                           | GN-AP-MW-13        | 0.01           | 0.01          | 0.04        | No         | 12        | 100      | No        | 0.01        | NP (NDs)         |
| Lithium (mg/L)                           | GN-AP-MW-14        | 0.0107         | 0.01          | 0.04        | No         | 12        | 91.67    | No        | 0.01        | NP (NDs)         |
| Lithium (mg/L)                           | GN-AP-MW-15R       | 0.07831        | 0.02075       | 0.04        | No         | 15        | 13.33    | sqrt(x)   | 0.01        | Param.           |
| <b>Lithium (mg/L)</b>                    | <b>GN-AP-MW-16</b> | <b>0.07971</b> | <b>0.0733</b> | <b>0.04</b> | <b>Yes</b> | <b>12</b> | <b>0</b> | <b>No</b> | <b>0.01</b> | <b>Param.</b>    |
| <b>Lithium (mg/L)</b>                    | <b>GN-AP-MW-17</b> | <b>0.6435</b>  | <b>0.5719</b> | <b>0.04</b> | <b>Yes</b> | <b>12</b> | <b>0</b> | <b>No</b> | <b>0.01</b> | <b>Param.</b>    |

# Confidence Intervals - All Results

Plant Gaston    Client: Southern Company    Data: Gaston Ash Pond    Printed 7/18/2019, 1:03 PM

| Constituent              | Well               | Upper Lim.    | Lower Lim.    | Compliance  | Sig.       | N         | %NDs     | Transform | Alpha       | Method         |
|--------------------------|--------------------|---------------|---------------|-------------|------------|-----------|----------|-----------|-------------|----------------|
| Lithium (mg/L)           | GN-AP-MW-18        | 0.04028       | 0.03499       | 0.04        | No         | 12        | 0        | No        | 0.01        | Param.         |
| Lithium (mg/L)           | GN-AP-MW-19        | 0.01          | 0.01          | 0.04        | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| <b>Lithium (mg/L)</b>    | <b>GN-AP-MW-20</b> | <b>0.1201</b> | <b>0.1051</b> | <b>0.04</b> | <b>Yes</b> | <b>12</b> | <b>0</b> | <b>No</b> | <b>0.01</b> | <b>Param.</b>  |
| Lithium (mg/L)           | GN-AP-MW-21        | 0.01          | 0.01          | 0.04        | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Lithium (mg/L)           | GN-AP-MW-22        | 0.01          | 0.01          | 0.04        | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-4         | 0.0005        | 0.000278      | 0.002       | No         | 12        | 91.67    | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-5         | 0.0005        | 0.0005        | 0.002       | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-6         | 0.0005        | 0.0005        | 0.002       | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-7         | 0.0005        | 0.0005        | 0.002       | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-8         | 0.0005        | 0.0005        | 0.002       | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-9         | 0.0005        | 0.0005        | 0.002       | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-10        | 0.0005        | 0.0005        | 0.002       | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-11        | 0.0005        | 0.0005        | 0.002       | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-12        | 0.0005        | 0.0005        | 0.002       | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-13        | 0.0005        | 0.0005        | 0.002       | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-14        | 0.0005        | 0.0005        | 0.002       | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-15R       | 0.0005        | 0.0005        | 0.002       | No         | 15        | 100      | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-16        | 0.0005        | 0.0005        | 0.002       | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-17        | 0.0005        | 0.0005        | 0.002       | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-18        | 0.0005        | 0.0005        | 0.002       | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-19        | 0.0005        | 0.0005        | 0.002       | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-20        | 0.0005        | 0.0005        | 0.002       | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-21        | 0.0005        | 0.0005        | 0.002       | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-22        | 0.0005        | 0.0005        | 0.002       | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Molybdenum (mg/L)        | GN-AP-MW-4         | 0.01          | 0.01          | 0.1         | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| <b>Molybdenum (mg/L)</b> | <b>GN-AP-MW-5</b>  | <b>0.3201</b> | <b>0.2137</b> | <b>0.1</b>  | <b>Yes</b> | <b>12</b> | <b>0</b> | <b>No</b> | <b>0.01</b> | <b>Param.</b>  |
| Molybdenum (mg/L)        | GN-AP-MW-6         | 0.0167        | 0.0107        | 0.1         | No         | 12        | 0        | No        | 0.01        | Param.         |
| Molybdenum (mg/L)        | GN-AP-MW-7         | 0.01          | 0.01          | 0.1         | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Molybdenum (mg/L)        | GN-AP-MW-8         | 0.01          | 0.0042        | 0.1         | No         | 12        | 83.33    | No        | 0.01        | NP (NDs)       |
| Molybdenum (mg/L)        | GN-AP-MW-9         | 0.01          | 0.00306       | 0.1         | No         | 12        | 66.67    | No        | 0.01        | NP (normality) |
| Molybdenum (mg/L)        | GN-AP-MW-10        | 0.01          | 0.01          | 0.1         | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Molybdenum (mg/L)        | GN-AP-MW-11        | 0.01          | 0.01          | 0.1         | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Molybdenum (mg/L)        | GN-AP-MW-12        | 0.01          | 0.01          | 0.1         | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Molybdenum (mg/L)        | GN-AP-MW-13        | 0.01          | 0.01          | 0.1         | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Molybdenum (mg/L)        | GN-AP-MW-14        | 0.01          | 0.00361       | 0.1         | No         | 12        | 91.67    | No        | 0.01        | NP (NDs)       |
| Molybdenum (mg/L)        | GN-AP-MW-15R       | 0.1836        | 0.05351       | 0.1         | No         | 15        | 0        | sqrt(x)   | 0.01        | Param.         |
| <b>Molybdenum (mg/L)</b> | <b>GN-AP-MW-16</b> | <b>0.3197</b> | <b>0.2721</b> | <b>0.1</b>  | <b>Yes</b> | <b>12</b> | <b>0</b> | <b>No</b> | <b>0.01</b> | <b>Param.</b>  |
| <b>Molybdenum (mg/L)</b> | <b>GN-AP-MW-17</b> | <b>2.297</b>  | <b>1.922</b>  | <b>0.1</b>  | <b>Yes</b> | <b>12</b> | <b>0</b> | <b>No</b> | <b>0.01</b> | <b>Param.</b>  |
| Molybdenum (mg/L)        | GN-AP-MW-18        | 0.01985       | 0.0169        | 0.1         | No         | 12        | 0        | No        | 0.01        | Param.         |
| Molybdenum (mg/L)        | GN-AP-MW-19        | 0.01386       | 0.01178       | 0.1         | No         | 12        | 0        | No        | 0.01        | Param.         |
| <b>Molybdenum (mg/L)</b> | <b>GN-AP-MW-20</b> | <b>0.7672</b> | <b>0.6578</b> | <b>0.1</b>  | <b>Yes</b> | <b>12</b> | <b>0</b> | <b>No</b> | <b>0.01</b> | <b>Param.</b>  |
| Molybdenum (mg/L)        | GN-AP-MW-21        | 0.01167       | 0.004987      | 0.1         | No         | 12        | 0        | No        | 0.01        | Param.         |
| Molybdenum (mg/L)        | GN-AP-MW-22        | 0.07823       | 0.0594        | 0.1         | No         | 12        | 0        | No        | 0.01        | Param.         |
| Selenium (mg/L)          | GN-AP-MW-4         | 0.01          | 0.01          | 0.05        | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Selenium (mg/L)          | GN-AP-MW-5         | 0.01          | 0.01          | 0.05        | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Selenium (mg/L)          | GN-AP-MW-6         | 0.01          | 0.01          | 0.05        | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Selenium (mg/L)          | GN-AP-MW-7         | 0.01          | 0.01          | 0.05        | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Selenium (mg/L)          | GN-AP-MW-8         | 0.01          | 0.01          | 0.05        | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Selenium (mg/L)          | GN-AP-MW-9         | 0.01          | 0.01          | 0.05        | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Selenium (mg/L)          | GN-AP-MW-10        | 0.01          | 0.01          | 0.05        | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Selenium (mg/L)          | GN-AP-MW-11        | 0.01          | 0.01          | 0.05        | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Selenium (mg/L)          | GN-AP-MW-12        | 0.01          | 0.01          | 0.05        | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Selenium (mg/L)          | GN-AP-MW-13        | 0.01          | 0.01          | 0.05        | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Selenium (mg/L)          | GN-AP-MW-14        | 0.01          | 0.01          | 0.05        | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Selenium (mg/L)          | GN-AP-MW-15R       | 0.01          | 0.01          | 0.05        | No         | 15        | 100      | No        | 0.01        | NP (NDs)       |
| Selenium (mg/L)          | GN-AP-MW-16        | 0.01          | 0.01          | 0.05        | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Selenium (mg/L)          | GN-AP-MW-17        | 0.01          | 0.01          | 0.05        | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Selenium (mg/L)          | GN-AP-MW-18        | 0.01          | 0.01          | 0.05        | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Selenium (mg/L)          | GN-AP-MW-19        | 0.01          | 0.01          | 0.05        | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Selenium (mg/L)          | GN-AP-MW-20        | 0.01          | 0.01          | 0.05        | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Selenium (mg/L)          | GN-AP-MW-21        | 0.01          | 0.01          | 0.05        | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Selenium (mg/L)          | GN-AP-MW-22        | 0.01          | 0.01          | 0.05        | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Thallium (mg/L)          | GN-AP-MW-4         | 0.001         | 0.001         | 0.002       | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Thallium (mg/L)          | GN-AP-MW-5         | 0.001         | 0.001         | 0.002       | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Thallium (mg/L)          | GN-AP-MW-6         | 0.001         | 0.001         | 0.002       | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Thallium (mg/L)          | GN-AP-MW-7         | 0.001         | 0.001         | 0.002       | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Thallium (mg/L)          | GN-AP-MW-8         | 0.001         | 0.001         | 0.002       | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |
| Thallium (mg/L)          | GN-AP-MW-9         | 0.001         | 0.001         | 0.002       | No         | 12        | 100      | No        | 0.01        | NP (NDs)       |

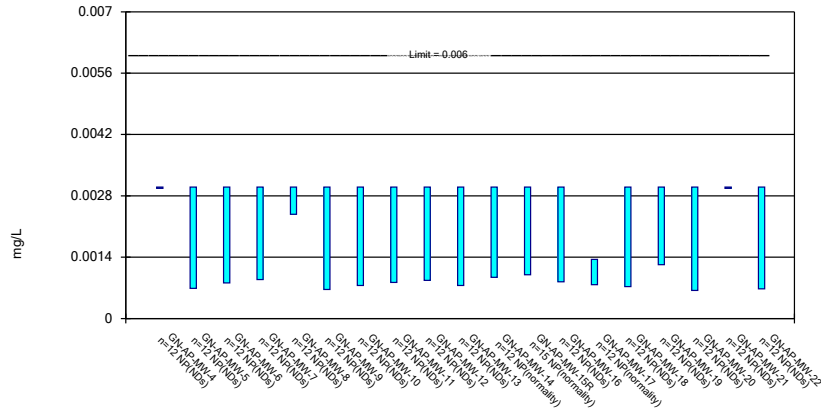
# Confidence Intervals - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 7/18/2019, 1:03 PM

| Constituent     | Well         | Upper Lim. | Lower Lim. | Compliance | Sig. | N  | %NDs | Transform | Alpha | Method   |
|-----------------|--------------|------------|------------|------------|------|----|------|-----------|-------|----------|
| Thallium (mg/L) | GN-AP-MW-10  | 0.001      | 0.001      | 0.002      | No   | 12 | 100  | No        | 0.01  | NP (NDs) |
| Thallium (mg/L) | GN-AP-MW-11  | 0.001      | 0.001      | 0.002      | No   | 12 | 100  | No        | 0.01  | NP (NDs) |
| Thallium (mg/L) | GN-AP-MW-12  | 0.001      | 0.001      | 0.002      | No   | 12 | 100  | No        | 0.01  | NP (NDs) |
| Thallium (mg/L) | GN-AP-MW-13  | 0.001      | 0.001      | 0.002      | No   | 12 | 100  | No        | 0.01  | NP (NDs) |
| Thallium (mg/L) | GN-AP-MW-14  | 0.001      | 0.001      | 0.002      | No   | 12 | 100  | No        | 0.01  | NP (NDs) |
| Thallium (mg/L) | GN-AP-MW-15R | 0.001      | 0.001      | 0.002      | No   | 15 | 100  | No        | 0.01  | NP (NDs) |
| Thallium (mg/L) | GN-AP-MW-16  | 0.001      | 0.001      | 0.002      | No   | 12 | 100  | No        | 0.01  | NP (NDs) |
| Thallium (mg/L) | GN-AP-MW-17  | 0.001      | 0.001      | 0.002      | No   | 12 | 100  | No        | 0.01  | NP (NDs) |
| Thallium (mg/L) | GN-AP-MW-18  | 0.0003918  | 0.000341   | 0.002      | No   | 12 | 0    | No        | 0.01  | Param.   |
| Thallium (mg/L) | GN-AP-MW-19  | 0.001      | 0.001      | 0.002      | No   | 12 | 100  | No        | 0.01  | NP (NDs) |
| Thallium (mg/L) | GN-AP-MW-20  | 0.001      | 0.001      | 0.002      | No   | 12 | 100  | No        | 0.01  | NP (NDs) |
| Thallium (mg/L) | GN-AP-MW-21  | 0.001      | 0.001      | 0.002      | No   | 12 | 100  | No        | 0.01  | NP (NDs) |
| Thallium (mg/L) | GN-AP-MW-22  | 0.001      | 0.001      | 0.002      | No   | 12 | 100  | No        | 0.01  | NP (NDs) |

### Non-Parametric Confidence Interval

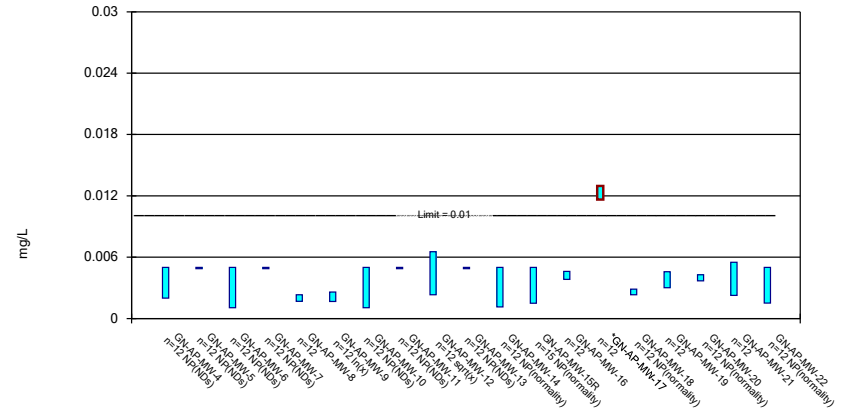
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 7/18/2019 12:59 PM View: Confidence Intervals  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

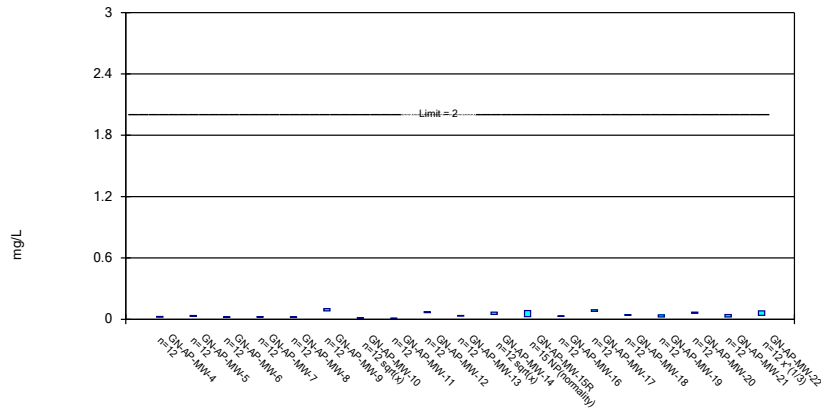
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 7/18/2019 1:00 PM View: Confidence Intervals  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

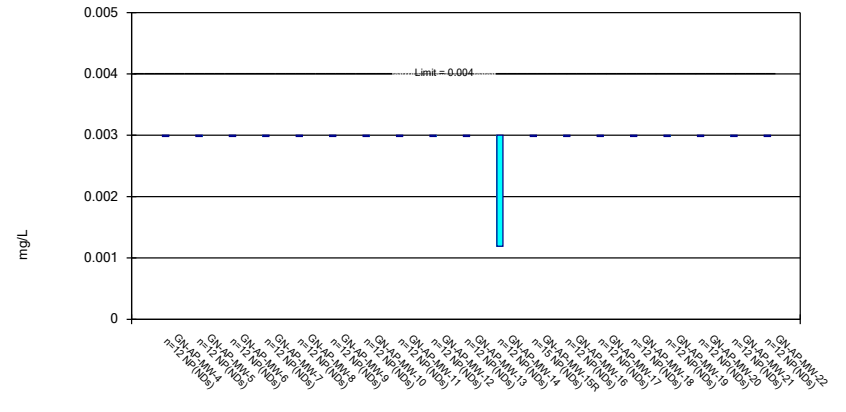
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 7/18/2019 1:00 PM View: Confidence Intervals  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Non-Parametric Confidence Interval

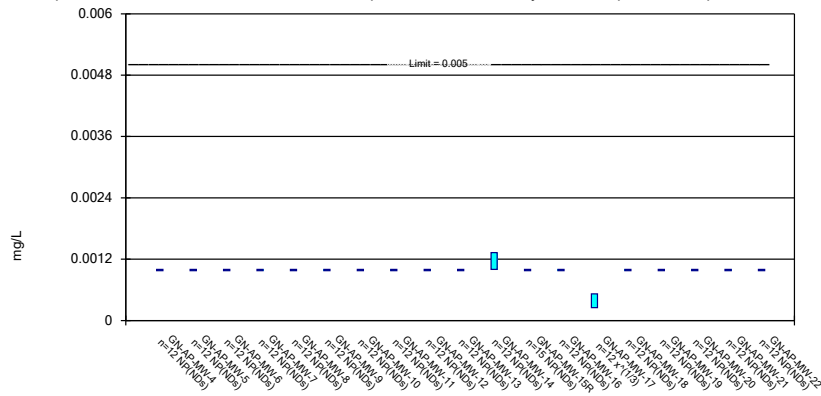
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 7/18/2019 1:00 PM View: Confidence Intervals  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

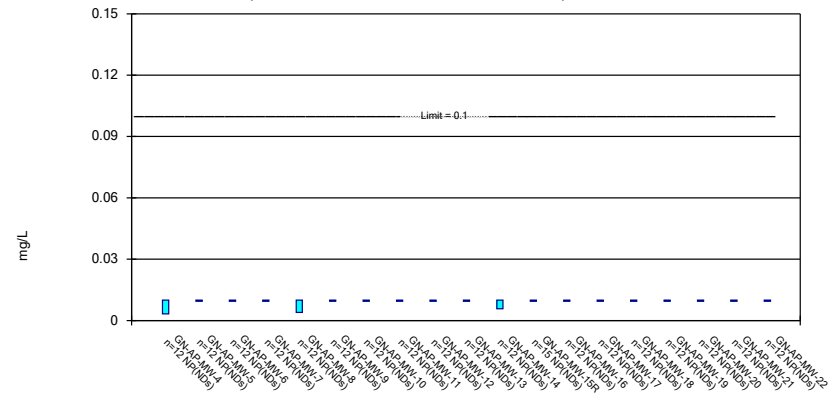
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 7/18/2019 1:00 PM View: Confidence Intervals  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Non-Parametric Confidence Interval

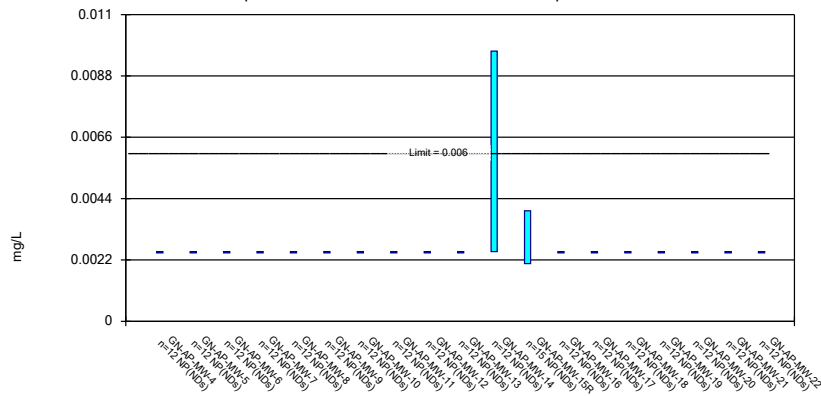
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 7/18/2019 1:00 PM View: Confidence Intervals  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Non-Parametric Confidence Interval

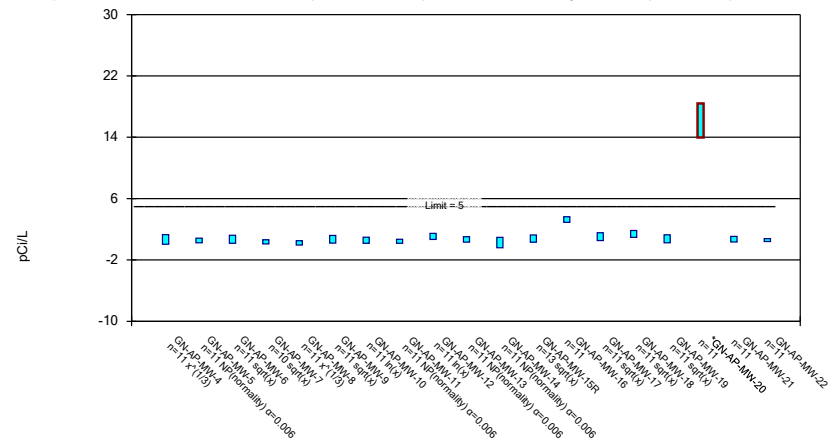
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cobalt Analysis Run 7/18/2019 1:00 PM View: Confidence Intervals  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

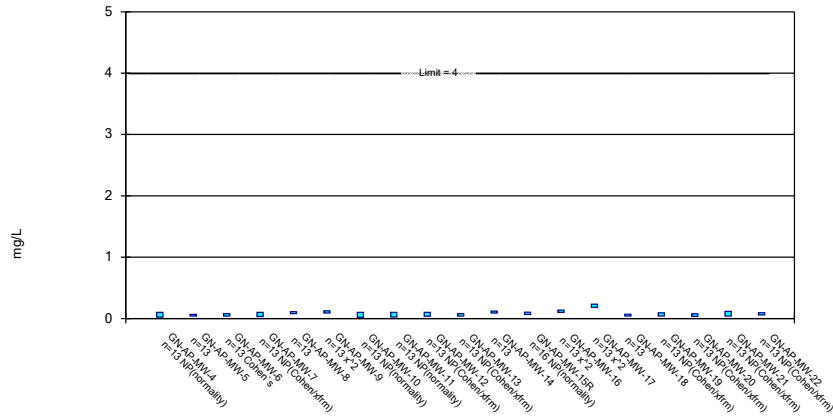
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 7/18/2019 1:00 PM View: Confidence Intervals  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

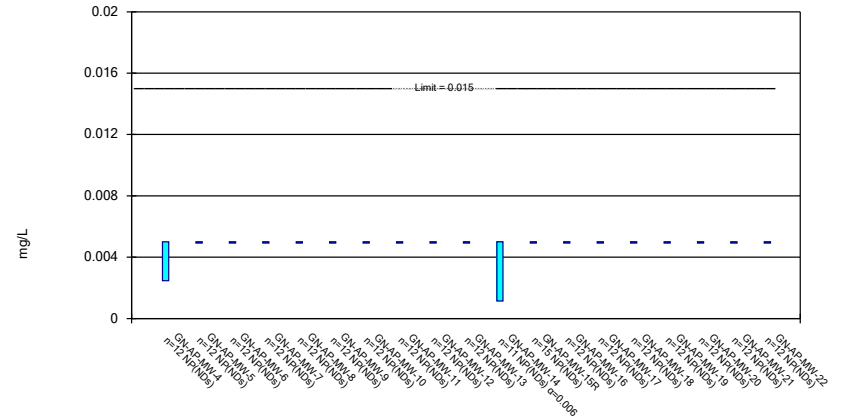
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 7/18/2019 1:00 PM View: Confidence Intervals  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Non-Parametric Confidence Interval

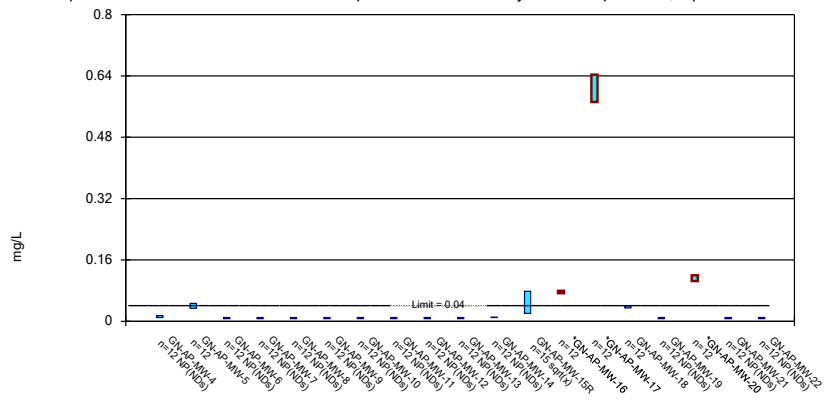
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Lead Analysis Run 7/18/2019 1:00 PM View: Confidence Intervals  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

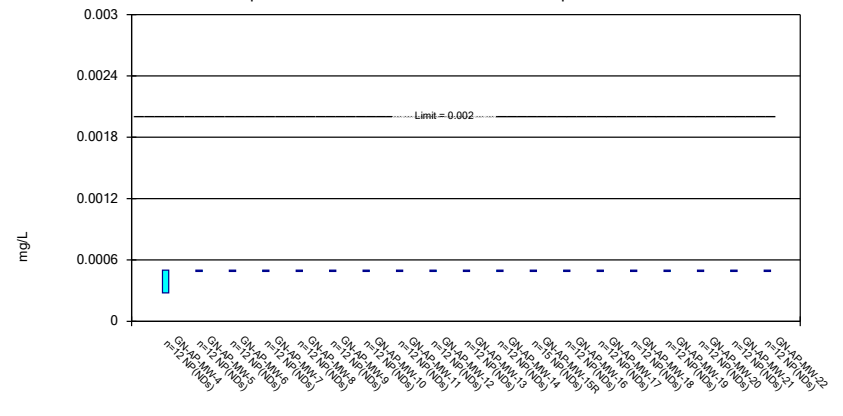
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 7/18/2019 1:00 PM View: Confidence Intervals  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Non-Parametric Confidence Interval

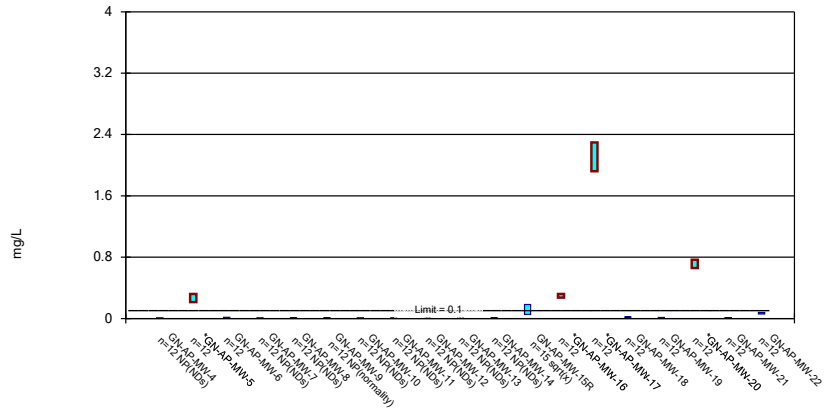
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 7/18/2019 1:00 PM View: Confidence Intervals  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

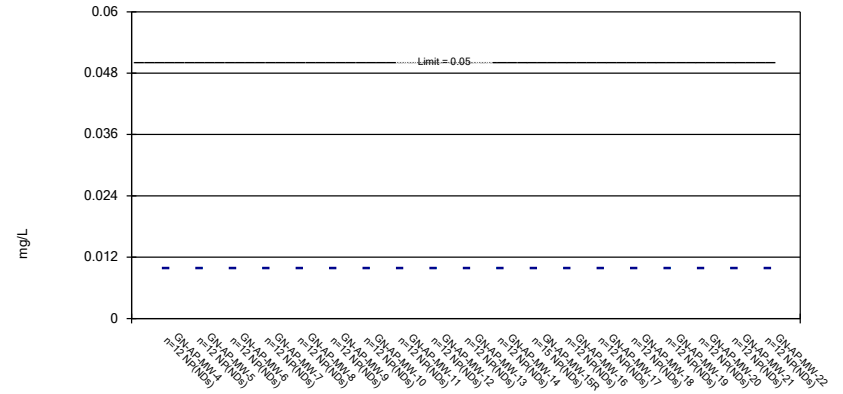
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 7/18/2019 1:00 PM View: Confidence Intervals  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Non-Parametric Confidence Interval

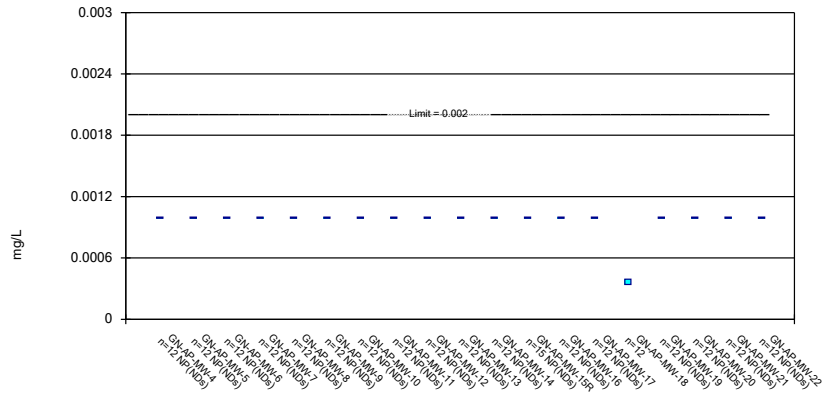
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 7/18/2019 1:01 PM View: Confidence Intervals  
Plant Gaston Client: Southern Company Data: Gaston 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: Thallium Analysis Run 7/18/2019 1:01 PM View: Confidence Intervals  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond



**2nd**  
**Semi-Annual**  
**Monitoring Event**

# Interwell Prediction Limit - Significant Results

Plant Gaston    Client: Southern Company    Data: Gaston Ash Pond    Printed 1/17/2020, 12:24 PM

| Constituent     | Well         | Upper Lim. | Lower Lim. | Date      | Observ. | Sig. | Bg N | %NDs  | Transform | Alpha    | Method                   |
|-----------------|--------------|------------|------------|-----------|---------|------|------|-------|-----------|----------|--------------------------|
| Boron (mg/L)    | GN-AP-MW-4   | 0.1        | n/a        | 9/17/2019 | 0.619   | Yes  | 39   | 94.87 | n/a       | 0.001211 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-5   | 0.1        | n/a        | 9/18/2019 | 2.31    | Yes  | 39   | 94.87 | n/a       | 0.001211 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-6   | 0.1        | n/a        | 9/18/2019 | 2.68    | Yes  | 39   | 94.87 | n/a       | 0.001211 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-7   | 0.1        | n/a        | 9/18/2019 | 2.16    | Yes  | 39   | 94.87 | n/a       | 0.001211 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-11  | 0.1        | n/a        | 9/16/2019 | 0.207   | Yes  | 39   | 94.87 | n/a       | 0.001211 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-12  | 0.1        | n/a        | 9/16/2019 | 0.423   | Yes  | 39   | 94.87 | n/a       | 0.001211 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-15R | 0.1        | n/a        | 9/18/2019 | 3.47    | Yes  | 39   | 94.87 | n/a       | 0.001211 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-16  | 0.1        | n/a        | 9/16/2019 | 1.4     | Yes  | 39   | 94.87 | n/a       | 0.001211 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-17  | 0.1        | n/a        | 9/17/2019 | 3.25    | Yes  | 39   | 94.87 | n/a       | 0.001211 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-18  | 0.1        | n/a        | 9/18/2019 | 1.47    | Yes  | 39   | 94.87 | n/a       | 0.001211 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-20  | 0.1        | n/a        | 9/18/2019 | 4.12    | Yes  | 39   | 94.87 | n/a       | 0.001211 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-21  | 0.1        | n/a        | 9/18/2019 | 2.51    | Yes  | 39   | 94.87 | n/a       | 0.001211 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-22  | 0.1        | n/a        | 9/18/2019 | 2.1     | Yes  | 39   | 94.87 | n/a       | 0.001211 | NP Inter (NDs) 1 of 2    |
| Calcium (mg/L)  | GN-AP-MW-4   | 60.7       | n/a        | 9/17/2019 | 69.3    | Yes  | 39   | 2.564 | n/a       | 0.001211 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-5   | 60.7       | n/a        | 9/18/2019 | 79.9    | Yes  | 39   | 2.564 | n/a       | 0.001211 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-6   | 60.7       | n/a        | 9/18/2019 | 83.9    | Yes  | 39   | 2.564 | n/a       | 0.001211 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-7   | 60.7       | n/a        | 9/18/2019 | 99.1    | Yes  | 39   | 2.564 | n/a       | 0.001211 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-12  | 60.7       | n/a        | 9/16/2019 | 69.5    | Yes  | 39   | 2.564 | n/a       | 0.001211 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-14  | 60.7       | n/a        | 9/17/2019 | 74.9    | Yes  | 39   | 2.564 | n/a       | 0.001211 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-15R | 60.7       | n/a        | 9/18/2019 | 139     | Yes  | 39   | 2.564 | n/a       | 0.001211 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-16  | 60.7       | n/a        | 9/16/2019 | 61.3    | Yes  | 39   | 2.564 | n/a       | 0.001211 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-17  | 60.7       | n/a        | 9/17/2019 | 131     | Yes  | 39   | 2.564 | n/a       | 0.001211 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-18  | 60.7       | n/a        | 9/18/2019 | 126     | Yes  | 39   | 2.564 | n/a       | 0.001211 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-20  | 60.7       | n/a        | 9/18/2019 | 172     | Yes  | 39   | 2.564 | n/a       | 0.001211 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-21  | 60.7       | n/a        | 9/18/2019 | 98.3    | Yes  | 39   | 2.564 | n/a       | 0.001211 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-22  | 60.7       | n/a        | 9/18/2019 | 102     | Yes  | 39   | 2.564 | n/a       | 0.001211 | NP Inter (normality) ... |
| Chloride (mg/L) | GN-AP-MW-4   | 4.184      | n/a        | 9/17/2019 | 37.5    | Yes  | 39   | 2.564 | sqrt(x)   | 0.002505 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-5   | 4.184      | n/a        | 9/18/2019 | 42.8    | Yes  | 39   | 2.564 | sqrt(x)   | 0.002505 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-6   | 4.184      | n/a        | 9/18/2019 | 65.3    | Yes  | 39   | 2.564 | sqrt(x)   | 0.002505 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-7   | 4.184      | n/a        | 9/18/2019 | 29.5    | Yes  | 39   | 2.564 | sqrt(x)   | 0.002505 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-9   | 4.184      | n/a        | 9/17/2019 | 8.59    | Yes  | 39   | 2.564 | sqrt(x)   | 0.002505 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-11  | 4.184      | n/a        | 9/16/2019 | 6.49    | Yes  | 39   | 2.564 | sqrt(x)   | 0.002505 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-12  | 4.184      | n/a        | 9/16/2019 | 19.8    | Yes  | 39   | 2.564 | sqrt(x)   | 0.002505 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-13  | 4.184      | n/a        | 9/17/2019 | 4.83    | Yes  | 39   | 2.564 | sqrt(x)   | 0.002505 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-15R | 4.184      | n/a        | 9/18/2019 | 142     | Yes  | 39   | 2.564 | sqrt(x)   | 0.002505 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-16  | 4.184      | n/a        | 9/16/2019 | 20.4    | Yes  | 39   | 2.564 | sqrt(x)   | 0.002505 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-17  | 4.184      | n/a        | 9/17/2019 | 43.2    | Yes  | 39   | 2.564 | sqrt(x)   | 0.002505 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-18  | 4.184      | n/a        | 9/18/2019 | 12.2    | Yes  | 39   | 2.564 | sqrt(x)   | 0.002505 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-19  | 4.184      | n/a        | 9/18/2019 | 11.6    | Yes  | 39   | 2.564 | sqrt(x)   | 0.002505 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-20  | 4.184      | n/a        | 9/18/2019 | 18.7    | Yes  | 39   | 2.564 | sqrt(x)   | 0.002505 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-21  | 4.184      | n/a        | 9/18/2019 | 64      | Yes  | 39   | 2.564 | sqrt(x)   | 0.002505 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-22  | 4.184      | n/a        | 9/18/2019 | 46.3    | Yes  | 39   | 2.564 | sqrt(x)   | 0.002505 | Param Inter 1 of 2       |
| Fluoride (mg/L) | GN-AP-MW-9   | 0.1        | n/a        | 9/17/2019 | 0.128   | Yes  | 42   | 47.62 | n/a       | 0.001066 | NP Inter (normality) ... |
| Fluoride (mg/L) | GN-AP-MW-14  | 0.1        | n/a        | 9/17/2019 | 0.116   | Yes  | 42   | 47.62 | n/a       | 0.001066 | NP Inter (normality) ... |
| Fluoride (mg/L) | GN-AP-MW-16  | 0.1        | n/a        | 9/16/2019 | 0.126   | Yes  | 42   | 47.62 | n/a       | 0.001066 | NP Inter (normality) ... |
| Fluoride (mg/L) | GN-AP-MW-17  | 0.1        | n/a        | 9/17/2019 | 0.187   | Yes  | 42   | 47.62 | n/a       | 0.001066 | NP Inter (normality) ... |
| pH (pH)         | GN-AP-MW-9   | 7.928      | 7.25       | 9/17/2019 | 8.07    | Yes  | 43   | 0     | x^6       | 0.001253 | Param Inter 1 of 2       |
| pH (pH)         | GN-AP-MW-16  | 7.928      | 7.25       | 9/16/2019 | 7.94    | Yes  | 43   | 0     | x^6       | 0.001253 | Param Inter 1 of 2       |
| pH (pH)         | GN-AP-MW-17  | 7.928      | 7.25       | 9/17/2019 | 9.18    | Yes  | 43   | 0     | x^6       | 0.001253 | Param Inter 1 of 2       |
| pH (pH)         | GN-AP-MW-18  | 7.928      | 7.25       | 9/18/2019 | 6.86    | Yes  | 43   | 0     | x^6       | 0.001253 | Param Inter 1 of 2       |
| pH (pH)         | GN-AP-MW-21  | 7.928      | 7.25       | 9/18/2019 | 7.15    | Yes  | 43   | 0     | x^6       | 0.001253 | Param Inter 1 of 2       |
| pH (pH)         | GN-AP-MW-22  | 7.928      | 7.25       | 9/18/2019 | 7.21    | Yes  | 43   | 0     | x^6       | 0.001253 | Param Inter 1 of 2       |
| Sulfate (mg/L)  | GN-AP-MW-4   | 30.21      | n/a        | 9/17/2019 | 39.8    | Yes  | 39   | 2.564 | ln(x)     | 0.002505 | Param Inter 1 of 2       |
| Sulfate (mg/L)  | GN-AP-MW-5   | 30.21      | n/a        | 9/18/2019 | 167     | Yes  | 39   | 2.564 | ln(x)     | 0.002505 | Param Inter 1 of 2       |
| Sulfate (mg/L)  | GN-AP-MW-6   | 30.21      | n/a        | 9/18/2019 | 177     | Yes  | 39   | 2.564 | ln(x)     | 0.002505 | Param Inter 1 of 2       |
| Sulfate (mg/L)  | GN-AP-MW-7   | 30.21      | n/a        | 9/18/2019 | 199     | Yes  | 39   | 2.564 | ln(x)     | 0.002505 | Param Inter 1 of 2       |
| Sulfate (mg/L)  | GN-AP-MW-11  | 30.21      | n/a        | 9/16/2019 | 49.2    | Yes  | 39   | 2.564 | ln(x)     | 0.002505 | Param Inter 1 of 2       |
| Sulfate (mg/L)  | GN-AP-MW-12  | 30.21      | n/a        | 9/16/2019 | 108     | Yes  | 39   | 2.564 | ln(x)     | 0.002505 | Param Inter 1 of 2       |
| Sulfate (mg/L)  | GN-AP-MW-14  | 30.21      | n/a        | 9/17/2019 | 131     | Yes  | 39   | 2.564 | ln(x)     | 0.002505 | Param Inter 1 of 2       |
| Sulfate (mg/L)  | GN-AP-MW-15R | 30.21      | n/a        | 9/18/2019 | 283     | Yes  | 39   | 2.564 | ln(x)     | 0.002505 | Param Inter 1 of 2       |
| Sulfate (mg/L)  | GN-AP-MW-16  | 30.21      | n/a        | 9/16/2019 | 147     | Yes  | 39   | 2.564 | ln(x)     | 0.002505 | Param Inter 1 of 2       |
| Sulfate (mg/L)  | GN-AP-MW-17  | 30.21      | n/a        | 9/17/2019 | 322     | Yes  | 39   | 2.564 | ln(x)     | 0.002505 | Param Inter 1 of 2       |
| Sulfate (mg/L)  | GN-AP-MW-18  | 30.21      | n/a        | 9/18/2019 | 173     | Yes  | 39   | 2.564 | ln(x)     | 0.002505 | Param Inter 1 of 2       |
| Sulfate (mg/L)  | GN-AP-MW-20  | 30.21      | n/a        | 9/18/2019 | 526     | Yes  | 39   | 2.564 | ln(x)     | 0.002505 | Param Inter 1 of 2       |
| Sulfate (mg/L)  | GN-AP-MW-21  | 30.21      | n/a        | 9/18/2019 | 197     | Yes  | 39   | 2.564 | ln(x)     | 0.002505 | Param Inter 1 of 2       |
| Sulfate (mg/L)  | GN-AP-MW-22  | 30.21      | n/a        | 9/18/2019 | 180     | Yes  | 39   | 2.564 | ln(x)     | 0.002505 | Param Inter 1 of 2       |
| TDS (mg/L)      | GN-AP-MW-4   | 302        | n/a        | 9/17/2019 | 332     | Yes  | 40   | 0     | n/a       | 0.001146 | NP Inter (normality) ... |
| TDS (mg/L)      | GN-AP-MW-5   | 302        | n/a        | 9/18/2019 | 434     | Yes  | 40   | 0     | n/a       | 0.001146 | NP Inter (normality) ... |

# Interwell Prediction Limit - Significant Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 1/17/2020, 12:24 PM

| Constituent | Well         | Upper Lim. | Lower Lim. | Date      | Observ. | Sig. | Bg N | %NDs | Transform | Alpha    | Method                   |
|-------------|--------------|------------|------------|-----------|---------|------|------|------|-----------|----------|--------------------------|
| TDS (mg/L)  | GN-AP-MW-6   | 302        | n/a        | 9/18/2019 | 445     | Yes  | 40   | 0    | n/a       | 0.001146 | NP Inter (normality) ... |
| TDS (mg/L)  | GN-AP-MW-7   | 302        | n/a        | 9/18/2019 | 489     | Yes  | 40   | 0    | n/a       | 0.001146 | NP Inter (normality) ... |
| TDS (mg/L)  | GN-AP-MW-12  | 302        | n/a        | 9/16/2019 | 377     | Yes  | 40   | 0    | n/a       | 0.001146 | NP Inter (normality) ... |
| TDS (mg/L)  | GN-AP-MW-14  | 302        | n/a        | 9/17/2019 | 439     | Yes  | 40   | 0    | n/a       | 0.001146 | NP Inter (normality) ... |
| TDS (mg/L)  | GN-AP-MW-15R | 302        | n/a        | 9/18/2019 | 704     | Yes  | 40   | 0    | n/a       | 0.001146 | NP Inter (normality) ... |
| TDS (mg/L)  | GN-AP-MW-17  | 302        | n/a        | 9/17/2019 | 592     | Yes  | 40   | 0    | n/a       | 0.001146 | NP Inter (normality) ... |
| TDS (mg/L)  | GN-AP-MW-18  | 302        | n/a        | 9/18/2019 | 592     | Yes  | 40   | 0    | n/a       | 0.001146 | NP Inter (normality) ... |
| TDS (mg/L)  | GN-AP-MW-20  | 302        | n/a        | 9/18/2019 | 908     | Yes  | 40   | 0    | n/a       | 0.001146 | NP Inter (normality) ... |
| TDS (mg/L)  | GN-AP-MW-21  | 302        | n/a        | 9/18/2019 | 504     | Yes  | 40   | 0    | n/a       | 0.001146 | NP Inter (normality) ... |
| TDS (mg/L)  | GN-AP-MW-22  | 302        | n/a        | 9/18/2019 | 460     | Yes  | 40   | 0    | n/a       | 0.001146 | NP Inter (normality) ... |

# Interwell Prediction Limit - All Results

Plant Gaston    Client: Southern Company    Data: Gaston Ash Pond    Printed 1/17/2020, 12:24 PM

| Constituent     | Well         | Upper Lim. | Lower Lim. | Date      | Observ. | Sig. | Bg N | %NDs  | Transform | Alpha    | Method                   |
|-----------------|--------------|------------|------------|-----------|---------|------|------|-------|-----------|----------|--------------------------|
| Boron (mg/L)    | GN-AP-MW-4   | 0.1        | n/a        | 9/17/2019 | 0.619   | Yes  | 39   | 94.87 | n/a       | 0.001211 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-5   | 0.1        | n/a        | 9/18/2019 | 2.31    | Yes  | 39   | 94.87 | n/a       | 0.001211 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-6   | 0.1        | n/a        | 9/18/2019 | 2.68    | Yes  | 39   | 94.87 | n/a       | 0.001211 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-7   | 0.1        | n/a        | 9/18/2019 | 2.16    | Yes  | 39   | 94.87 | n/a       | 0.001211 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-8   | 0.1        | n/a        | 9/17/2019 | 0.0439  | No   | 39   | 94.87 | n/a       | 0.001211 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-9   | 0.1        | n/a        | 9/17/2019 | 0.1ND   | No   | 39   | 94.87 | n/a       | 0.001211 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-10  | 0.1        | n/a        | 9/16/2019 | 0.1ND   | No   | 39   | 94.87 | n/a       | 0.001211 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-11  | 0.1        | n/a        | 9/16/2019 | 0.207   | Yes  | 39   | 94.87 | n/a       | 0.001211 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-12  | 0.1        | n/a        | 9/16/2019 | 0.423   | Yes  | 39   | 94.87 | n/a       | 0.001211 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-13  | 0.1        | n/a        | 9/17/2019 | 0.1ND   | No   | 39   | 94.87 | n/a       | 0.001211 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-14  | 0.1        | n/a        | 9/17/2019 | 0.1ND   | No   | 39   | 94.87 | n/a       | 0.001211 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-15R | 0.1        | n/a        | 9/18/2019 | 3.47    | Yes  | 39   | 94.87 | n/a       | 0.001211 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-16  | 0.1        | n/a        | 9/16/2019 | 1.4     | Yes  | 39   | 94.87 | n/a       | 0.001211 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-17  | 0.1        | n/a        | 9/17/2019 | 3.25    | Yes  | 39   | 94.87 | n/a       | 0.001211 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-18  | 0.1        | n/a        | 9/18/2019 | 1.47    | Yes  | 39   | 94.87 | n/a       | 0.001211 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-19  | 0.1        | n/a        | 9/18/2019 | 0.1ND   | No   | 39   | 94.87 | n/a       | 0.001211 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-20  | 0.1        | n/a        | 9/18/2019 | 4.12    | Yes  | 39   | 94.87 | n/a       | 0.001211 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-21  | 0.1        | n/a        | 9/18/2019 | 2.51    | Yes  | 39   | 94.87 | n/a       | 0.001211 | NP Inter (NDs) 1 of 2    |
| Boron (mg/L)    | GN-AP-MW-22  | 0.1        | n/a        | 9/18/2019 | 2.1     | Yes  | 39   | 94.87 | n/a       | 0.001211 | NP Inter (NDs) 1 of 2    |
| Calcium (mg/L)  | GN-AP-MW-4   | 60.7       | n/a        | 9/17/2019 | 69.3    | Yes  | 39   | 2.564 | n/a       | 0.001211 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-5   | 60.7       | n/a        | 9/18/2019 | 79.9    | Yes  | 39   | 2.564 | n/a       | 0.001211 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-6   | 60.7       | n/a        | 9/18/2019 | 83.9    | Yes  | 39   | 2.564 | n/a       | 0.001211 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-7   | 60.7       | n/a        | 9/18/2019 | 99.1    | Yes  | 39   | 2.564 | n/a       | 0.001211 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-8   | 60.7       | n/a        | 9/17/2019 | 54.5    | No   | 39   | 2.564 | n/a       | 0.001211 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-9   | 60.7       | n/a        | 9/17/2019 | 32.7    | No   | 39   | 2.564 | n/a       | 0.001211 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-10  | 60.7       | n/a        | 9/16/2019 | 39.1    | No   | 39   | 2.564 | n/a       | 0.001211 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-11  | 60.7       | n/a        | 9/16/2019 | 40.2    | No   | 39   | 2.564 | n/a       | 0.001211 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-12  | 60.7       | n/a        | 9/16/2019 | 69.5    | Yes  | 39   | 2.564 | n/a       | 0.001211 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-13  | 60.7       | n/a        | 9/17/2019 | 48.3    | No   | 39   | 2.564 | n/a       | 0.001211 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-14  | 60.7       | n/a        | 9/17/2019 | 74.9    | Yes  | 39   | 2.564 | n/a       | 0.001211 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-15R | 60.7       | n/a        | 9/18/2019 | 139     | Yes  | 39   | 2.564 | n/a       | 0.001211 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-16  | 60.7       | n/a        | 9/16/2019 | 61.3    | Yes  | 39   | 2.564 | n/a       | 0.001211 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-17  | 60.7       | n/a        | 9/17/2019 | 131     | Yes  | 39   | 2.564 | n/a       | 0.001211 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-18  | 60.7       | n/a        | 9/18/2019 | 126     | Yes  | 39   | 2.564 | n/a       | 0.001211 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-19  | 60.7       | n/a        | 9/18/2019 | 45.6    | No   | 39   | 2.564 | n/a       | 0.001211 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-20  | 60.7       | n/a        | 9/18/2019 | 172     | Yes  | 39   | 2.564 | n/a       | 0.001211 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-21  | 60.7       | n/a        | 9/18/2019 | 98.3    | Yes  | 39   | 2.564 | n/a       | 0.001211 | NP Inter (normality) ... |
| Calcium (mg/L)  | GN-AP-MW-22  | 60.7       | n/a        | 9/18/2019 | 102     | Yes  | 39   | 2.564 | n/a       | 0.001211 | NP Inter (normality) ... |
| Chloride (mg/L) | GN-AP-MW-4   | 4.184      | n/a        | 9/17/2019 | 37.5    | Yes  | 39   | 2.564 | sqrt(x)   | 0.002505 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-5   | 4.184      | n/a        | 9/18/2019 | 42.8    | Yes  | 39   | 2.564 | sqrt(x)   | 0.002505 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-6   | 4.184      | n/a        | 9/18/2019 | 65.3    | Yes  | 39   | 2.564 | sqrt(x)   | 0.002505 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-7   | 4.184      | n/a        | 9/18/2019 | 29.5    | Yes  | 39   | 2.564 | sqrt(x)   | 0.002505 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-8   | 4.184      | n/a        | 9/17/2019 | 3.96    | No   | 39   | 2.564 | sqrt(x)   | 0.002505 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-9   | 4.184      | n/a        | 9/17/2019 | 8.59    | Yes  | 39   | 2.564 | sqrt(x)   | 0.002505 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-10  | 4.184      | n/a        | 9/16/2019 | 2.54    | No   | 39   | 2.564 | sqrt(x)   | 0.002505 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-11  | 4.184      | n/a        | 9/16/2019 | 6.49    | Yes  | 39   | 2.564 | sqrt(x)   | 0.002505 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-12  | 4.184      | n/a        | 9/16/2019 | 19.8    | Yes  | 39   | 2.564 | sqrt(x)   | 0.002505 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-13  | 4.184      | n/a        | 9/17/2019 | 4.83    | Yes  | 39   | 2.564 | sqrt(x)   | 0.002505 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-14  | 4.184      | n/a        | 9/17/2019 | 4.16    | No   | 39   | 2.564 | sqrt(x)   | 0.002505 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-15R | 4.184      | n/a        | 9/18/2019 | 142     | Yes  | 39   | 2.564 | sqrt(x)   | 0.002505 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-16  | 4.184      | n/a        | 9/16/2019 | 20.4    | Yes  | 39   | 2.564 | sqrt(x)   | 0.002505 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-17  | 4.184      | n/a        | 9/17/2019 | 43.2    | Yes  | 39   | 2.564 | sqrt(x)   | 0.002505 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-18  | 4.184      | n/a        | 9/18/2019 | 12.2    | Yes  | 39   | 2.564 | sqrt(x)   | 0.002505 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-19  | 4.184      | n/a        | 9/18/2019 | 11.6    | Yes  | 39   | 2.564 | sqrt(x)   | 0.002505 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-20  | 4.184      | n/a        | 9/18/2019 | 18.7    | Yes  | 39   | 2.564 | sqrt(x)   | 0.002505 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-21  | 4.184      | n/a        | 9/18/2019 | 64      | Yes  | 39   | 2.564 | sqrt(x)   | 0.002505 | Param Inter 1 of 2       |
| Chloride (mg/L) | GN-AP-MW-22  | 4.184      | n/a        | 9/18/2019 | 46.3    | Yes  | 39   | 2.564 | sqrt(x)   | 0.002505 | Param Inter 1 of 2       |
| Fluoride (mg/L) | GN-AP-MW-4   | 0.1        | n/a        | 9/17/2019 | 0.1ND   | No   | 42   | 47.62 | n/a       | 0.001066 | NP Inter (normality) ... |
| Fluoride (mg/L) | GN-AP-MW-5   | 0.1        | n/a        | 9/18/2019 | 0.0568  | No   | 42   | 47.62 | n/a       | 0.001066 | NP Inter (normality) ... |
| Fluoride (mg/L) | GN-AP-MW-6   | 0.1        | n/a        | 9/18/2019 | 0.0634  | No   | 42   | 47.62 | n/a       | 0.001066 | NP Inter (normality) ... |
| Fluoride (mg/L) | GN-AP-MW-7   | 0.1        | n/a        | 9/18/2019 | 0.0578  | No   | 42   | 47.62 | n/a       | 0.001066 | NP Inter (normality) ... |
| Fluoride (mg/L) | GN-AP-MW-8   | 0.1        | n/a        | 9/17/2019 | 0.0971  | No   | 42   | 47.62 | n/a       | 0.001066 | NP Inter (normality) ... |
| Fluoride (mg/L) | GN-AP-MW-9   | 0.1        | n/a        | 9/17/2019 | 0.128   | Yes  | 42   | 47.62 | n/a       | 0.001066 | NP Inter (normality) ... |
| Fluoride (mg/L) | GN-AP-MW-10  | 0.1        | n/a        | 9/16/2019 | 0.1ND   | No   | 42   | 47.62 | n/a       | 0.001066 | NP Inter (normality) ... |
| Fluoride (mg/L) | GN-AP-MW-11  | 0.1        | n/a        | 9/16/2019 | 0.1ND   | No   | 42   | 47.62 | n/a       | 0.001066 | NP Inter (normality) ... |
| Fluoride (mg/L) | GN-AP-MW-12  | 0.1        | n/a        | 9/16/2019 | 0.0538  | No   | 42   | 47.62 | n/a       | 0.001066 | NP Inter (normality) ... |
| Fluoride (mg/L) | GN-AP-MW-13  | 0.1        | n/a        | 9/17/2019 | 0.0753  | No   | 42   | 47.62 | n/a       | 0.001066 | NP Inter (normality) ... |
| Fluoride (mg/L) | GN-AP-MW-14  | 0.1        | n/a        | 9/17/2019 | 0.116   | Yes  | 42   | 47.62 | n/a       | 0.001066 | NP Inter (normality) ... |

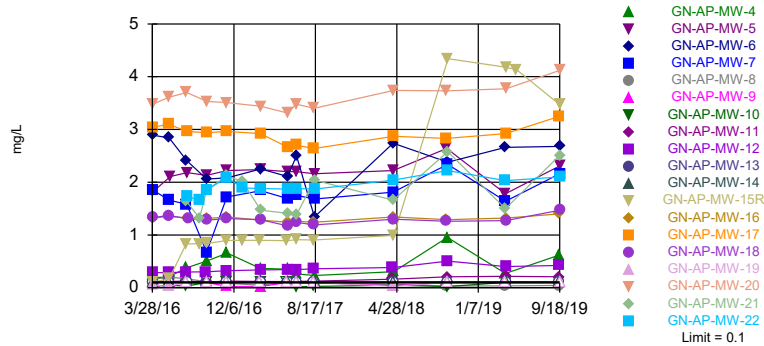
## Interwell Prediction Limit - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 1/17/2020, 12:24 PM

| Constituent            | Well                | Upper Lim.   | Lower Lim.  | Date             | Observ.      | Sig.       | Bg N      | %NDs         | Transform    | Alpha           | Method                          |
|------------------------|---------------------|--------------|-------------|------------------|--------------|------------|-----------|--------------|--------------|-----------------|---------------------------------|
| Fluoride (mg/L)        | GN-AP-MW-15R        | 0.1          | n/a         | 9/18/2019        | 0.094        | No         | 42        | 47.62        | n/a          | 0.001066        | NP Inter (normality) ...        |
| <b>Fluoride (mg/L)</b> | <b>GN-AP-MW-16</b>  | <b>0.1</b>   | <b>n/a</b>  | <b>9/16/2019</b> | <b>0.126</b> | <b>Yes</b> | <b>42</b> | <b>47.62</b> | <b>n/a</b>   | <b>0.001066</b> | <b>NP Inter (normality) ...</b> |
| <b>Fluoride (mg/L)</b> | <b>GN-AP-MW-17</b>  | <b>0.1</b>   | <b>n/a</b>  | <b>9/17/2019</b> | <b>0.187</b> | <b>Yes</b> | <b>42</b> | <b>47.62</b> | <b>n/a</b>   | <b>0.001066</b> | <b>NP Inter (normality) ...</b> |
| Fluoride (mg/L)        | GN-AP-MW-18         | 0.1          | n/a         | 9/18/2019        | 0.0551       | No         | 42        | 47.62        | n/a          | 0.001066        | NP Inter (normality) ...        |
| Fluoride (mg/L)        | GN-AP-MW-19         | 0.1          | n/a         | 9/18/2019        | 0.0507       | No         | 42        | 47.62        | n/a          | 0.001066        | NP Inter (normality) ...        |
| Fluoride (mg/L)        | GN-AP-MW-20         | 0.1          | n/a         | 9/18/2019        | 0.1ND        | No         | 42        | 47.62        | n/a          | 0.001066        | NP Inter (normality) ...        |
| Fluoride (mg/L)        | GN-AP-MW-21         | 0.1          | n/a         | 9/18/2019        | 0.0749       | No         | 42        | 47.62        | n/a          | 0.001066        | NP Inter (normality) ...        |
| Fluoride (mg/L)        | GN-AP-MW-22         | 0.1          | n/a         | 9/18/2019        | 0.065        | No         | 42        | 47.62        | n/a          | 0.001066        | NP Inter (normality) ...        |
| pH (pH)                | GN-AP-MW-4          | 7.928        | 7.25        | 9/17/2019        | 7.65         | No         | 43        | 0            | x^6          | 0.001253        | Param Inter 1 of 2              |
| pH (pH)                | GN-AP-MW-5          | 7.928        | 7.25        | 9/18/2019        | 7.53         | No         | 43        | 0            | x^6          | 0.001253        | Param Inter 1 of 2              |
| pH (pH)                | GN-AP-MW-6          | 7.928        | 7.25        | 9/18/2019        | 7.85         | No         | 43        | 0            | x^6          | 0.001253        | Param Inter 1 of 2              |
| pH (pH)                | GN-AP-MW-7          | 7.928        | 7.25        | 9/18/2019        | 7.52         | No         | 43        | 0            | x^6          | 0.001253        | Param Inter 1 of 2              |
| pH (pH)                | GN-AP-MW-8          | 7.928        | 7.25        | 9/17/2019        | 7.55         | No         | 43        | 0            | x^6          | 0.001253        | Param Inter 1 of 2              |
| <b>pH (pH)</b>         | <b>GN-AP-MW-9</b>   | <b>7.928</b> | <b>7.25</b> | <b>9/17/2019</b> | <b>8.07</b>  | <b>Yes</b> | <b>43</b> | <b>0</b>     | <b>x^6</b>   | <b>0.001253</b> | <b>Param Inter 1 of 2</b>       |
| pH (pH)                | GN-AP-MW-10         | 7.928        | 7.25        | 10/8/2019        | 7.59         | No         | 43        | 0            | x^6          | 0.001253        | Param Inter 1 of 2              |
| pH (pH)                | GN-AP-MW-11         | 7.928        | 7.25        | 10/8/2019        | 7.74         | No         | 43        | 0            | x^6          | 0.001253        | Param Inter 1 of 2              |
| pH (pH)                | GN-AP-MW-12         | 7.928        | 7.25        | 9/16/2019        | 7.44         | No         | 43        | 0            | x^6          | 0.001253        | Param Inter 1 of 2              |
| pH (pH)                | GN-AP-MW-13         | 7.928        | 7.25        | 9/17/2019        | 7.45         | No         | 43        | 0            | x^6          | 0.001253        | Param Inter 1 of 2              |
| pH (pH)                | GN-AP-MW-14         | 7.928        | 7.25        | 9/17/2019        | 7.3          | No         | 43        | 0            | x^6          | 0.001253        | Param Inter 1 of 2              |
| pH (pH)                | GN-AP-MW-15R        | 7.928        | 7.25        | 9/18/2019        | 7.5          | No         | 43        | 0            | x^6          | 0.001253        | Param Inter 1 of 2              |
| <b>pH (pH)</b>         | <b>GN-AP-MW-16</b>  | <b>7.928</b> | <b>7.25</b> | <b>9/16/2019</b> | <b>7.94</b>  | <b>Yes</b> | <b>43</b> | <b>0</b>     | <b>x^6</b>   | <b>0.001253</b> | <b>Param Inter 1 of 2</b>       |
| <b>pH (pH)</b>         | <b>GN-AP-MW-17</b>  | <b>7.928</b> | <b>7.25</b> | <b>9/17/2019</b> | <b>9.18</b>  | <b>Yes</b> | <b>43</b> | <b>0</b>     | <b>x^6</b>   | <b>0.001253</b> | <b>Param Inter 1 of 2</b>       |
| <b>pH (pH)</b>         | <b>GN-AP-MW-18</b>  | <b>7.928</b> | <b>7.25</b> | <b>9/18/2019</b> | <b>6.86</b>  | <b>Yes</b> | <b>43</b> | <b>0</b>     | <b>x^6</b>   | <b>0.001253</b> | <b>Param Inter 1 of 2</b>       |
| pH (pH)                | GN-AP-MW-19         | 7.928        | 7.25        | 9/18/2019        | 7.6          | No         | 43        | 0            | x^6          | 0.001253        | Param Inter 1 of 2              |
| pH (pH)                | GN-AP-MW-20         | 7.928        | 7.25        | 9/18/2019        | 7.9          | No         | 43        | 0            | x^6          | 0.001253        | Param Inter 1 of 2              |
| <b>pH (pH)</b>         | <b>GN-AP-MW-21</b>  | <b>7.928</b> | <b>7.25</b> | <b>9/18/2019</b> | <b>7.15</b>  | <b>Yes</b> | <b>43</b> | <b>0</b>     | <b>x^6</b>   | <b>0.001253</b> | <b>Param Inter 1 of 2</b>       |
| <b>pH (pH)</b>         | <b>GN-AP-MW-22</b>  | <b>7.928</b> | <b>7.25</b> | <b>9/18/2019</b> | <b>7.21</b>  | <b>Yes</b> | <b>43</b> | <b>0</b>     | <b>x^6</b>   | <b>0.001253</b> | <b>Param Inter 1 of 2</b>       |
| <b>Sulfate (mg/L)</b>  | <b>GN-AP-MW-4</b>   | <b>30.21</b> | <b>n/a</b>  | <b>9/17/2019</b> | <b>39.8</b>  | <b>Yes</b> | <b>39</b> | <b>2.564</b> | <b>ln(x)</b> | <b>0.002505</b> | <b>Param Inter 1 of 2</b>       |
| <b>Sulfate (mg/L)</b>  | <b>GN-AP-MW-5</b>   | <b>30.21</b> | <b>n/a</b>  | <b>9/18/2019</b> | <b>167</b>   | <b>Yes</b> | <b>39</b> | <b>2.564</b> | <b>ln(x)</b> | <b>0.002505</b> | <b>Param Inter 1 of 2</b>       |
| <b>Sulfate (mg/L)</b>  | <b>GN-AP-MW-6</b>   | <b>30.21</b> | <b>n/a</b>  | <b>9/18/2019</b> | <b>177</b>   | <b>Yes</b> | <b>39</b> | <b>2.564</b> | <b>ln(x)</b> | <b>0.002505</b> | <b>Param Inter 1 of 2</b>       |
| <b>Sulfate (mg/L)</b>  | <b>GN-AP-MW-7</b>   | <b>30.21</b> | <b>n/a</b>  | <b>9/18/2019</b> | <b>199</b>   | <b>Yes</b> | <b>39</b> | <b>2.564</b> | <b>ln(x)</b> | <b>0.002505</b> | <b>Param Inter 1 of 2</b>       |
| Sulfate (mg/L)         | GN-AP-MW-8          | 30.21        | n/a         | 9/17/2019        | 4.62         | No         | 39        | 2.564        | ln(x)        | 0.002505        | Param Inter 1 of 2              |
| Sulfate (mg/L)         | GN-AP-MW-9          | 30.21        | n/a         | 9/17/2019        | 13.9         | No         | 39        | 2.564        | ln(x)        | 0.002505        | Param Inter 1 of 2              |
| Sulfate (mg/L)         | GN-AP-MW-10         | 30.21        | n/a         | 9/16/2019        | 3.39         | No         | 39        | 2.564        | ln(x)        | 0.002505        | Param Inter 1 of 2              |
| <b>Sulfate (mg/L)</b>  | <b>GN-AP-MW-11</b>  | <b>30.21</b> | <b>n/a</b>  | <b>9/16/2019</b> | <b>49.2</b>  | <b>Yes</b> | <b>39</b> | <b>2.564</b> | <b>ln(x)</b> | <b>0.002505</b> | <b>Param Inter 1 of 2</b>       |
| <b>Sulfate (mg/L)</b>  | <b>GN-AP-MW-12</b>  | <b>30.21</b> | <b>n/a</b>  | <b>9/16/2019</b> | <b>108</b>   | <b>Yes</b> | <b>39</b> | <b>2.564</b> | <b>ln(x)</b> | <b>0.002505</b> | <b>Param Inter 1 of 2</b>       |
| Sulfate (mg/L)         | GN-AP-MW-13         | 30.21        | n/a         | 9/17/2019        | 0.5ND        | No         | 39        | 2.564        | ln(x)        | 0.002505        | Param Inter 1 of 2              |
| <b>Sulfate (mg/L)</b>  | <b>GN-AP-MW-14</b>  | <b>30.21</b> | <b>n/a</b>  | <b>9/17/2019</b> | <b>131</b>   | <b>Yes</b> | <b>39</b> | <b>2.564</b> | <b>ln(x)</b> | <b>0.002505</b> | <b>Param Inter 1 of 2</b>       |
| <b>Sulfate (mg/L)</b>  | <b>GN-AP-MW-15R</b> | <b>30.21</b> | <b>n/a</b>  | <b>9/18/2019</b> | <b>283</b>   | <b>Yes</b> | <b>39</b> | <b>2.564</b> | <b>ln(x)</b> | <b>0.002505</b> | <b>Param Inter 1 of 2</b>       |
| <b>Sulfate (mg/L)</b>  | <b>GN-AP-MW-16</b>  | <b>30.21</b> | <b>n/a</b>  | <b>9/16/2019</b> | <b>147</b>   | <b>Yes</b> | <b>39</b> | <b>2.564</b> | <b>ln(x)</b> | <b>0.002505</b> | <b>Param Inter 1 of 2</b>       |
| <b>Sulfate (mg/L)</b>  | <b>GN-AP-MW-17</b>  | <b>30.21</b> | <b>n/a</b>  | <b>9/17/2019</b> | <b>322</b>   | <b>Yes</b> | <b>39</b> | <b>2.564</b> | <b>ln(x)</b> | <b>0.002505</b> | <b>Param Inter 1 of 2</b>       |
| <b>Sulfate (mg/L)</b>  | <b>GN-AP-MW-18</b>  | <b>30.21</b> | <b>n/a</b>  | <b>9/18/2019</b> | <b>173</b>   | <b>Yes</b> | <b>39</b> | <b>2.564</b> | <b>ln(x)</b> | <b>0.002505</b> | <b>Param Inter 1 of 2</b>       |
| Sulfate (mg/L)         | GN-AP-MW-19         | 30.21        | n/a         | 9/18/2019        | 23.6         | No         | 39        | 2.564        | ln(x)        | 0.002505        | Param Inter 1 of 2              |
| <b>Sulfate (mg/L)</b>  | <b>GN-AP-MW-20</b>  | <b>30.21</b> | <b>n/a</b>  | <b>9/18/2019</b> | <b>526</b>   | <b>Yes</b> | <b>39</b> | <b>2.564</b> | <b>ln(x)</b> | <b>0.002505</b> | <b>Param Inter 1 of 2</b>       |
| <b>Sulfate (mg/L)</b>  | <b>GN-AP-MW-21</b>  | <b>30.21</b> | <b>n/a</b>  | <b>9/18/2019</b> | <b>197</b>   | <b>Yes</b> | <b>39</b> | <b>2.564</b> | <b>ln(x)</b> | <b>0.002505</b> | <b>Param Inter 1 of 2</b>       |
| <b>Sulfate (mg/L)</b>  | <b>GN-AP-MW-22</b>  | <b>30.21</b> | <b>n/a</b>  | <b>9/18/2019</b> | <b>180</b>   | <b>Yes</b> | <b>39</b> | <b>2.564</b> | <b>ln(x)</b> | <b>0.002505</b> | <b>Param Inter 1 of 2</b>       |
| <b>TDS (mg/L)</b>      | <b>GN-AP-MW-4</b>   | <b>302</b>   | <b>n/a</b>  | <b>9/17/2019</b> | <b>332</b>   | <b>Yes</b> | <b>40</b> | <b>0</b>     | <b>n/a</b>   | <b>0.001146</b> | <b>NP Inter (normality) ...</b> |
| <b>TDS (mg/L)</b>      | <b>GN-AP-MW-5</b>   | <b>302</b>   | <b>n/a</b>  | <b>9/18/2019</b> | <b>434</b>   | <b>Yes</b> | <b>40</b> | <b>0</b>     | <b>n/a</b>   | <b>0.001146</b> | <b>NP Inter (normality) ...</b> |
| <b>TDS (mg/L)</b>      | <b>GN-AP-MW-6</b>   | <b>302</b>   | <b>n/a</b>  | <b>9/18/2019</b> | <b>445</b>   | <b>Yes</b> | <b>40</b> | <b>0</b>     | <b>n/a</b>   | <b>0.001146</b> | <b>NP Inter (normality) ...</b> |
| <b>TDS (mg/L)</b>      | <b>GN-AP-MW-7</b>   | <b>302</b>   | <b>n/a</b>  | <b>9/18/2019</b> | <b>489</b>   | <b>Yes</b> | <b>40</b> | <b>0</b>     | <b>n/a</b>   | <b>0.001146</b> | <b>NP Inter (normality) ...</b> |
| TDS (mg/L)             | GN-AP-MW-8          | 302          | n/a         | 9/17/2019        | 257          | No         | 40        | 0            | n/a          | 0.001146        | NP Inter (normality) ...        |
| TDS (mg/L)             | GN-AP-MW-9          | 302          | n/a         | 9/17/2019        | 207          | No         | 40        | 0            | n/a          | 0.001146        | NP Inter (normality) ...        |
| TDS (mg/L)             | GN-AP-MW-10         | 302          | n/a         | 10/8/2019        | 172          | No         | 40        | 0            | n/a          | 0.001146        | NP Inter (normality) ...        |
| TDS (mg/L)             | GN-AP-MW-11         | 302          | n/a         | 10/8/2019        | 207          | No         | 40        | 0            | n/a          | 0.001146        | NP Inter (normality) ...        |
| <b>TDS (mg/L)</b>      | <b>GN-AP-MW-12</b>  | <b>302</b>   | <b>n/a</b>  | <b>9/16/2019</b> | <b>377</b>   | <b>Yes</b> | <b>40</b> | <b>0</b>     | <b>n/a</b>   | <b>0.001146</b> | <b>NP Inter (normality) ...</b> |
| TDS (mg/L)             | GN-AP-MW-13         | 302          | n/a         | 9/17/2019        | 204          | No         | 40        | 0            | n/a          | 0.001146        | NP Inter (normality) ...        |
| <b>TDS (mg/L)</b>      | <b>GN-AP-MW-14</b>  | <b>302</b>   | <b>n/a</b>  | <b>9/17/2019</b> | <b>439</b>   | <b>Yes</b> | <b>40</b> | <b>0</b>     | <b>n/a</b>   | <b>0.001146</b> | <b>NP Inter (normality) ...</b> |
| <b>TDS (mg/L)</b>      | <b>GN-AP-MW-15R</b> | <b>302</b>   | <b>n/a</b>  | <b>9/18/2019</b> | <b>704</b>   | <b>Yes</b> | <b>40</b> | <b>0</b>     | <b>n/a</b>   | <b>0.001146</b> | <b>NP Inter (normality) ...</b> |
| TDS (mg/L)             | GN-AP-MW-16         | 302          | n/a         | 9/16/2019        | 293          | No         | 40        | 0            | n/a          | 0.001146        | NP Inter (normality) ...        |
| <b>TDS (mg/L)</b>      | <b>GN-AP-MW-17</b>  | <b>302</b>   | <b>n/a</b>  | <b>9/17/2019</b> | <b>592</b>   | <b>Yes</b> | <b>40</b> | <b>0</b>     | <b>n/a</b>   | <b>0.001146</b> | <b>NP Inter (normality) ...</b> |
| <b>TDS (mg/L)</b>      | <b>GN-AP-MW-18</b>  | <b>302</b>   | <b>n/a</b>  | <b>9/18/2019</b> | <b>592</b>   | <b>Yes</b> | <b>40</b> | <b>0</b>     | <b>n/a</b>   | <b>0.001146</b> | <b>NP Inter (normality) ...</b> |
| TDS (mg/L)             | GN-AP-MW-19         | 302          | n/a         | 9/18/2019        | 222          | No         | 40        | 0            | n/a          | 0.001146        | NP Inter (normality) ...        |
| <b>TDS (mg/L)</b>      | <b>GN-AP-MW-20</b>  | <b>302</b>   | <b>n/a</b>  | <b>9/18/2019</b> | <b>908</b>   | <b>Yes</b> | <b>40</b> | <b>0</b>     | <b>n/a</b>   | <b>0.001146</b> | <b>NP Inter (normality) ...</b> |
| <b>TDS (mg/L)</b>      | <b>GN-AP-MW-21</b>  | <b>302</b>   | <b>n/a</b>  | <b>9/18/2019</b> | <b>504</b>   | <b>Yes</b> | <b>40</b> | <b>0</b>     | <b>n/a</b>   | <b>0.001146</b> | <b>NP Inter (normality) ...</b> |
| <b>TDS (mg/L)</b>      | <b>GN-AP-MW-22</b>  | <b>302</b>   | <b>n/a</b>  | <b>9/18/2019</b> | <b>460</b>   | <b>Yes</b> | <b>40</b> | <b>0</b>     | <b>n/a</b>   | <b>0.001146</b> | <b>NP Inter (normality) ...</b> |

Exceeds Limit: GN-AP-MW-4, GN-AP-MW-5, GN-AP-MW-6, GN-AP-MW-7, GN-AP-MW-11, GN-AP-MW-12, GN-AP-MW-15R,...

Prediction Limit  
Interwell Non-parametric

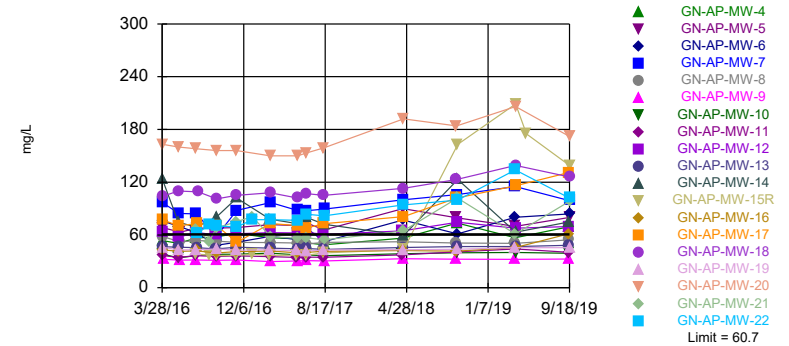


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 39 background values. 94.87% NDs. Annual per-constituent alpha = 0.007247. Individual comparison alpha = 0.001211 (1 of 2). Comparing 19 points to limit.

Constituent: Boron Analysis Run 1/17/2020 12:22 PM View: Interwell PL  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Exceeds Limit: GN-AP-MW-4, GN-AP-MW-5, GN-AP-MW-6, GN-AP-MW-7, GN-AP-MW-12, GN-AP-MW-14, GN-AP-MW-15R,...

Prediction Limit  
Interwell Non-parametric

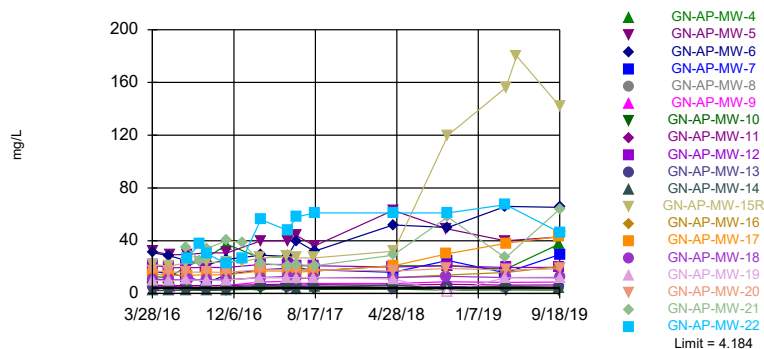


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 39 background values. 2.564% NDs. Annual per-constituent alpha = 0.007247. Individual comparison alpha = 0.001211 (1 of 2). Comparing 19 points to limit.

Constituent: Calcium Analysis Run 1/17/2020 12:22 PM View: Interwell PL  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Exceeds Limit: GN-AP-MW-4, GN-AP-MW-5, GN-AP-MW-6, GN-AP-MW-7, GN-AP-MW-9, GN-AP-MW-11, GN-AP-MW-12,...

Prediction Limit  
Interwell Parametric

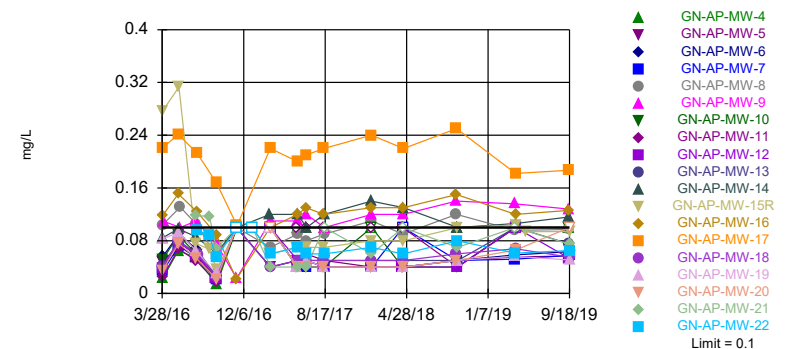


Background Data Summary (based on square root transformation): Mean=1.538, Std. Dev.=0.2895, n=39, 2.564% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9448, critical = 0.917. Kappa = 1.754 (c=7, w=3, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.002505. Comparing 19 points to limit.

Constituent: Chloride Analysis Run 1/17/2020 12:22 PM View: Interwell PL  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Exceeds Limit: GN-AP-MW-9, GN-AP-MW-14, GN-AP-MW-16, GN-AP-MW-17

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 42 background values. 47.62% NDs. Annual per-constituent alpha = 0.006378. Individual comparison alpha = 0.001066 (1 of 2). Comparing 19 points to limit.

Constituent: Fluoride Analysis Run 1/17/2020 12:22 PM View: Interwell PL  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 1/17/2020 12:24 PM View: Interwell PL

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

|            | GN-AP-MW-14 | GN-AP-MW-2 (bg) | GN-AP-MW-3 (bg) | GN-AP-MW-19 | GN-AP-MW-15R | GN-AP-MW-1 (bg) | GN-AP-MW-16 | GN-AP-MW-8 | GN-AP-MW-17 |
|------------|-------------|-----------------|-----------------|-------------|--------------|-----------------|-------------|------------|-------------|
| 3/28/2016  | <0.1        | <0.1            | <0.1            | 0.0538 (J)  | 0.103        |                 |             |            |             |
| 3/29/2016  |             |                 |                 |             |              | <0.1            | 1.32        | 0.161      | 3.04        |
| 3/30/2016  |             |                 |                 |             |              |                 |             |            |             |
| 4/4/2016   |             |                 |                 |             |              |                 |             |            |             |
| 5/17/2016  | <0.1        |                 | <0.1            |             |              |                 | 1.35        |            | 3.1         |
| 5/18/2016  |             | <0.1            |                 | 0.0252 (J)  |              |                 |             |            |             |
| 5/19/2016  |             |                 |                 |             | 0.169        | <0.1            |             |            |             |
| 5/23/2016  |             |                 |                 |             |              |                 |             | 0.197      |             |
| 7/11/2016  | <0.1        | <0.1            | <0.1            |             | 0.829        |                 |             |            |             |
| 7/12/2016  |             |                 |                 |             |              | <0.1            |             | 0.17       |             |
| 7/13/2016  |             |                 |                 | <0.1        |              |                 |             |            |             |
| 7/14/2016  |             |                 |                 |             |              |                 | 1.32        |            | 2.96        |
| 7/18/2016  |             |                 |                 |             |              |                 |             |            |             |
| 8/22/2016  |             |                 |                 |             | 0.835        |                 |             |            |             |
| 9/12/2016  |             |                 |                 |             |              |                 |             |            |             |
| 9/13/2016  | <0.1        |                 |                 | <0.1        |              | <0.1            | 1.31        | 0.114      | 2.94        |
| 9/14/2016  |             | <0.1            | <0.1            |             | 0.838        |                 |             |            |             |
| 11/14/2016 |             |                 |                 |             |              |                 | 1.34        |            |             |
| 11/15/2016 | <0.1        |                 |                 |             | 0.894        | 0.0246 (J)      |             | 0.0853 (J) |             |
| 11/16/2016 |             | <0.1            | <0.1            | <0.1        |              |                 |             |            | 2.96        |
| 1/3/2017   |             |                 |                 |             | 0.897        |                 |             |            |             |
| 2/27/2017  | <0.1        |                 |                 | <0.1        | 0.897        |                 |             |            |             |
| 2/28/2017  |             |                 |                 |             |              | <0.1            | 1.28        | 0.0452 (J) | 2.92        |
| 3/1/2017   |             | <0.1            | <0.1            |             |              |                 |             |            |             |
| 5/22/2017  |             |                 |                 | <0.1        | 0.892        |                 |             |            |             |
| 5/23/2017  |             | <0.1            | <0.1            |             |              | <0.1            |             |            |             |
| 5/24/2017  | <0.1        |                 |                 |             |              |                 | 1.24        | 0.113      | 2.66        |
| 6/19/2017  |             | <0.1            | <0.1            |             |              | <0.1            | 1.26        |            | 2.7         |
| 6/20/2017  |             |                 |                 |             | 0.91         |                 |             | 0.0853 (J) |             |
| 6/21/2017  | <0.1        |                 |                 | <0.1        |              |                 |             |            |             |
| 8/14/2017  |             |                 |                 | <0.1        | 0.906        |                 | 1.24        |            | 2.64        |
| 8/15/2017  | <0.1        | <0.1            | <0.1            |             |              | <0.1            |             | 0.0862 (J) |             |
| 8/16/2017  |             |                 |                 |             |              |                 |             |            |             |
| 4/16/2018  |             |                 |                 |             |              |                 |             |            |             |
| 4/17/2018  |             |                 |                 |             |              | 0.0459 (J)      |             | 0.0649 (J) |             |
| 4/19/2018  | <0.1        | <0.1            | <0.1            | 0.0258 (J)  | 0.991        |                 | 1.34        |            | 2.87        |
| 10/1/2018  |             |                 |                 |             |              | <0.1            | 1.29        | 0.03 (J)   | 2.83        |
| 10/2/2018  |             |                 |                 | <0.1        |              |                 |             |            |             |
| 10/3/2018  |             | <0.1            | <0.1            |             |              |                 |             |            |             |
| 10/4/2018  |             |                 |                 |             |              |                 |             |            |             |
| 10/5/2018  | <0.1        |                 |                 |             | 4.34         |                 |             |            |             |
| 4/1/2019   |             | <0.1            |                 | <0.1        |              | <0.1            |             | 0.0345 (J) |             |
| 4/2/2019   |             |                 | <0.1            |             |              |                 |             |            |             |
| 4/3/2019   | <0.1        |                 |                 |             | 4.18         |                 | 1.32        |            | 2.92        |
| 5/7/2019   |             |                 |                 |             | 4.13         |                 |             |            |             |
| 9/16/2019  |             |                 |                 |             |              |                 | 1.4         |            |             |
| 9/17/2019  | <0.1        |                 | <0.1            |             |              | <0.1            |             | 0.0439 (J) | 3.25        |
| 9/18/2019  |             | <0.1            |                 | <0.1        | 3.47         |                 |             |            |             |

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 1/17/2020 12:24 PM View: Interwell PL

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

|            | GN-AP-MW-18 | GN-AP-MW-20 | GN-AP-MW-7 | GN-AP-MW-6 | GN-AP-MW-10 | GN-AP-MW-5 | GN-AP-MW-11 | GN-AP-MW-12 | GN-AP-MW-4 |
|------------|-------------|-------------|------------|------------|-------------|------------|-------------|-------------|------------|
| 3/28/2016  |             |             |            |            |             |            |             |             |            |
| 3/29/2016  | 1.33        | 3.48        |            |            |             |            |             |             |            |
| 3/30/2016  |             |             | 1.85       | 2.89       | 0.0291 (J)  | 1.82       | 0.112       | 0.287       | 0.193      |
| 4/4/2016   |             |             |            |            |             |            |             |             |            |
| 5/17/2016  | 1.37        |             |            |            | 0.0466 (J)  |            |             |             | 0.201      |
| 5/18/2016  |             | 3.61        |            |            |             |            | 0.118       | 0.286       |            |
| 5/19/2016  |             |             | 1.66       | 2.84       |             |            |             |             |            |
| 5/23/2016  |             |             |            |            |             | 2.11       |             |             |            |
| 7/11/2016  |             |             |            |            |             |            |             |             | 0.375      |
| 7/12/2016  |             |             |            |            |             |            |             |             |            |
| 7/13/2016  |             | 3.7         | 1.58       | 2.41       | 0.0305 (J)  |            | 0.125       | 0.299       |            |
| 7/14/2016  |             |             |            |            |             | 2.18       |             |             |            |
| 7/18/2016  | 1.31        |             |            |            |             |            |             |             |            |
| 8/22/2016  |             |             |            |            |             |            |             |             |            |
| 9/12/2016  |             |             |            |            |             |            |             | 0.302       |            |
| 9/13/2016  |             |             | 0.674      | 2.06       | <0.1        | 2.13       | 0.108       |             |            |
| 9/14/2016  | 1.28        | 3.53        |            |            |             |            |             |             | 0.507      |
| 11/14/2016 | 1.31        | 3.51        |            |            |             |            | 0.126       | 0.323       |            |
| 11/15/2016 |             |             | 1.72       | 2.08       | <0.1        | 2.22       |             |             |            |
| 11/16/2016 |             |             |            |            |             |            |             |             | 0.655      |
| 1/3/2017   |             |             |            |            |             |            |             |             |            |
| 2/27/2017  |             |             |            |            |             |            |             |             |            |
| 2/28/2017  | 1.29        | 3.44        |            |            | <0.1        |            | 0.12        | 0.336       | 0.364      |
| 3/1/2017   |             |             | 1.84       | 2.25       |             | 2.24       |             |             |            |
| 5/22/2017  |             |             |            |            | <0.1        |            | 0.116       |             |            |
| 5/23/2017  |             |             | 1.69       | 2.11       |             | 2.2        |             |             |            |
| 5/24/2017  | 1.17        | 3.31        |            |            |             |            |             | 0.342       | 0.352      |
| 6/19/2017  | 1.24        | 3.48        |            |            | 0.0204 (J)  |            | 0.12        |             |            |
| 6/20/2017  |             |             | 1.75       | 2.5        |             | 2.2        |             |             |            |
| 6/21/2017  |             |             |            |            |             |            |             | 0.342       | 0.263      |
| 8/14/2017  | 1.19        | 3.4         |            |            | 0.0242 (J)  |            | 0.124       | 0.359       |            |
| 8/15/2017  |             |             | 1.68       | 1.34       |             | 2.16       |             |             | 0.23       |
| 8/16/2017  |             |             |            |            |             |            |             |             |            |
| 4/16/2018  |             |             |            |            | 0.0466 (J)  |            | 0.163       | 0.384       |            |
| 4/17/2018  |             |             | 1.81       | 2.74       |             | 2.22       |             |             |            |
| 4/19/2018  | 1.3         | 3.74        |            |            |             |            |             |             | 0.305      |
| 10/1/2018  | 1.26        | 3.73        |            |            |             | 2.64       |             |             |            |
| 10/2/2018  |             |             |            |            | 0.0228 (J)  |            |             |             |            |
| 10/3/2018  |             |             |            |            |             |            |             |             | 0.952      |
| 10/4/2018  |             |             | 2.34       | 2.38       |             |            | 0.206       | 0.503       |            |
| 10/5/2018  |             |             |            |            |             |            |             |             |            |
| 4/1/2019   |             |             |            |            |             |            |             |             |            |
| 4/2/2019   |             |             | 1.64       | 2.66       |             | 1.78       |             |             | 0.271      |
| 4/3/2019   | 1.27        | 3.77        |            |            | <0.1        |            | 0.216       | 0.401       |            |
| 5/7/2019   |             |             |            |            |             |            |             |             |            |
| 9/16/2019  |             |             |            |            | <0.1        |            | 0.207       | 0.423       |            |
| 9/17/2019  |             |             |            |            |             |            |             |             | 0.619      |
| 9/18/2019  | 1.47        | 4.12        | 2.16       | 2.68       |             | 2.31       |             |             |            |



# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 1/17/2020 12:24 PM View: Interwell PL  
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

|            | GN-AP-MW-13 | GN-AP-MW-9 | GN-AP-MW-21 | GN-AP-MW-22 |
|------------|-------------|------------|-------------|-------------|
| 3/28/2016  |             |            |             |             |
| 3/29/2016  |             |            |             |             |
| 3/30/2016  | <0.1        |            |             |             |
| 4/4/2016   |             | <0.1       |             |             |
| 5/17/2016  |             |            |             |             |
| 5/18/2016  | <0.1        |            |             |             |
| 5/19/2016  |             |            |             |             |
| 5/23/2016  |             | <0.1       |             |             |
| 7/11/2016  |             |            |             |             |
| 7/12/2016  |             | <0.1       |             |             |
| 7/13/2016  |             |            | 1.63        |             |
| 7/14/2016  | <0.1        |            |             | 1.73        |
| 7/18/2016  |             |            |             |             |
| 8/22/2016  |             |            | 1.32        | 1.66        |
| 9/12/2016  | 0.0762 (J)  |            |             |             |
| 9/13/2016  |             | <0.1       | 1.85        | 1.85        |
| 9/14/2016  |             |            |             |             |
| 11/14/2016 | <0.1        |            |             |             |
| 11/15/2016 |             | 0.0256 (J) | 2.12        | 2.09        |
| 11/16/2016 |             |            |             |             |
| 1/3/2017   |             |            | 2.01        | 1.89        |
| 2/27/2017  |             |            |             |             |
| 2/28/2017  | <0.1        | 0.021 (J)  |             |             |
| 3/1/2017   |             |            | 1.47        | 1.88        |
| 5/22/2017  |             |            |             |             |
| 5/23/2017  |             |            | 1.41        | 1.87        |
| 5/24/2017  | <0.1        | <0.1       |             |             |
| 6/19/2017  |             |            |             |             |
| 6/20/2017  |             | <0.1       | 1.38        | 1.88        |
| 6/21/2017  | <0.1        |            |             |             |
| 8/14/2017  | <0.1        |            |             |             |
| 8/15/2017  |             |            | 2.04        | 1.87        |
| 8/16/2017  |             | <0.1 (U*)  |             |             |
| 4/16/2018  |             |            |             |             |
| 4/17/2018  |             | 0.0386 (J) | 1.66        | 2.04        |
| 4/19/2018  | <0.1        |            |             |             |
| 10/1/2018  |             | <0.1       |             |             |
| 10/2/2018  |             |            |             |             |
| 10/3/2018  |             |            |             |             |
| 10/4/2018  |             |            | 2.58        | 2.22        |
| 10/5/2018  | <0.1        |            |             |             |
| 4/1/2019   |             | <0.1       |             |             |
| 4/2/2019   |             |            | 1.5         | 2.03        |
| 4/3/2019   | <0.1        |            |             |             |
| 5/7/2019   |             |            |             |             |
| 9/16/2019  |             |            |             |             |
| 9/17/2019  | <0.1        | <0.1       |             |             |
| 9/18/2019  |             |            | 2.51        | 2.1         |

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/17/2020 12:24 PM View: Interwell PL

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

|            | GN-AP-MW-3 (bg) | GN-AP-MW-2 (bg) | GN-AP-MW-19 | GN-AP-MW-14 | GN-AP-MW-8 | GN-AP-MW-1 (bg) | GN-AP-MW-17 | GN-AP-MW-18 | GN-AP-MW-20 |
|------------|-----------------|-----------------|-------------|-------------|------------|-----------------|-------------|-------------|-------------|
| 3/28/2016  | 31.6            | 34.2            | 46          | 124         |            |                 |             |             |             |
| 3/29/2016  |                 |                 |             |             | 58.2       | 45.6            | 77.4        | 104         | 163         |
| 3/30/2016  |                 |                 |             |             |            |                 |             |             |             |
| 4/4/2016   |                 |                 |             |             |            |                 |             |             |             |
| 5/17/2016  | 29.6            |                 |             | 74.6        |            |                 | 70.3        | 110         |             |
| 5/18/2016  |                 | 32.6            | 42.9        |             |            |                 |             |             | 160         |
| 5/19/2016  |                 |                 |             |             |            | 49.7            |             |             |             |
| 5/23/2016  |                 |                 |             |             | 52.1       |                 |             |             |             |
| 7/11/2016  | 30              | 32.5            |             | 68.9        |            |                 |             |             |             |
| 7/12/2016  |                 |                 |             |             | 53.6       | 53.8            |             |             |             |
| 7/13/2016  |                 |                 | 43.1        |             |            |                 |             |             | 158         |
| 7/14/2016  |                 |                 |             |             |            |                 | 73          |             |             |
| 7/18/2016  |                 |                 |             |             |            |                 |             | 109         |             |
| 8/22/2016  |                 |                 |             |             |            |                 |             |             |             |
| 9/12/2016  |                 |                 |             |             |            |                 |             |             |             |
| 9/13/2016  |                 |                 | 44.1        | 80.3        | 53         | 53.5            | 70.7        |             |             |
| 9/14/2016  | 30.6            | 32.1            |             |             |            |                 |             | 101         | 156         |
| 11/14/2016 |                 |                 |             |             |            |                 |             | 105         | 156         |
| 11/15/2016 |                 |                 |             | 102         | 51.5       | 55.1            |             |             |             |
| 11/16/2016 | 30.4            | 33.4            | 42.7        |             |            |                 | 51.7        |             |             |
| 1/3/2017   |                 |                 |             |             |            |                 |             |             |             |
| 2/27/2017  |                 |                 | 43.1        | 77.9        |            |                 |             |             |             |
| 2/28/2017  |                 |                 |             |             | 51.4       | 55.3            | 73.1        | 108         | 150         |
| 3/1/2017   | <0.5            | 33.3            |             |             |            |                 |             |             |             |
| 5/22/2017  |                 |                 | 41.9        |             |            |                 |             |             |             |
| 5/23/2017  | 30.1            | 32.7            |             |             |            | 55.7            |             |             |             |
| 5/24/2017  |                 |                 |             | 72.9        | 50.8       |                 | 70.6        | 102         | 150         |
| 6/19/2017  | 29.9            | 32.6            |             |             |            | 55.1            | 67.7        | 107         | 153         |
| 6/20/2017  |                 |                 |             |             | 49.8       |                 |             |             |             |
| 6/21/2017  |                 |                 | 41.8        | 80          |            |                 |             |             |             |
| 8/14/2017  |                 |                 | 43          |             |            |                 | 72.8        | 105         | 159         |
| 8/15/2017  | 28.1            | 31.5            |             | 72.1        | 51.6       | 57              |             |             |             |
| 8/16/2017  |                 |                 |             |             |            |                 |             |             |             |
| 4/16/2018  |                 |                 |             |             |            |                 |             |             |             |
| 4/17/2018  |                 |                 |             |             | 52.2       | 56.4            |             |             |             |
| 4/19/2018  | 31.2            | 34.2            | 43.2        | 59.6        |            |                 | 80.8        | 113         | 192         |
| 10/1/2018  |                 |                 |             |             | 50.8       | 57.2            | 102         | 123         | 184         |
| 10/2/2018  |                 |                 | 43.8        |             |            |                 |             |             |             |
| 10/3/2018  | 32.3            | 38.6            |             |             |            |                 |             |             |             |
| 10/4/2018  |                 |                 |             |             |            |                 |             |             |             |
| 10/5/2018  |                 |                 |             | 123         |            |                 |             |             |             |
| 4/1/2019   |                 | 35.8            | 45.6        |             | 50.5       | 59.2            |             |             |             |
| 4/2/2019   | 31.6            |                 |             |             |            |                 |             |             |             |
| 4/3/2019   |                 |                 |             | 63.1        |            |                 | 116         | 139         | 206         |
| 5/7/2019   |                 |                 |             |             |            |                 |             |             |             |
| 9/16/2019  |                 |                 |             |             |            |                 |             |             |             |
| 9/17/2019  | 31.7            |                 |             | 74.9        | 54.5       | 60.7            | 131         |             |             |
| 9/18/2019  |                 | 35              | 45.6        |             |            |                 |             | 126         | 172         |

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/17/2020 12:24 PM View: Interwell PL

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

|            | GN-AP-MW-16 | GN-AP-MW-13 | GN-AP-MW-4 | GN-AP-MW-10 | GN-AP-MW-7 | GN-AP-MW-6 | GN-AP-MW-5 | GN-AP-MW-11 | GN-AP-MW-12 |
|------------|-------------|-------------|------------|-------------|------------|------------|------------|-------------|-------------|
| 3/28/2016  |             |             |            |             |            |            |            |             |             |
| 3/29/2016  | 43.2        |             |            |             |            |            |            |             |             |
| 3/30/2016  |             | 46.6        | 53.6       | 38.2        | 96.4       | 75.7       | 68.3       | 36.4        | 63.4        |
| 4/4/2016   |             |             |            |             |            |            |            |             |             |
| 5/17/2016  | 41.4        |             | 50.5       | 33.9        |            |            |            |             |             |
| 5/18/2016  |             | 46.1        |            |             |            |            |            | 34.7        | 57.5        |
| 5/19/2016  |             |             |            |             | 84.5       | 69.7       |            |             |             |
| 5/23/2016  |             |             |            |             |            |            | 63.1       |             |             |
| 7/11/2016  |             |             | 56.5       |             |            |            |            |             |             |
| 7/12/2016  |             |             |            |             |            |            |            |             |             |
| 7/13/2016  |             |             |            | 36.7        | 84         | 62.7       |            | 36.4        | 62.9        |
| 7/14/2016  | 41.9        | 45.6        |            |             |            |            | 67.7       |             |             |
| 7/18/2016  |             |             |            |             |            |            |            |             |             |
| 8/22/2016  |             |             |            |             |            |            |            |             |             |
| 9/12/2016  |             | 44.1        |            |             |            |            |            |             | 60.1        |
| 9/13/2016  | 39.6        |             |            | 38.1        | 58.2       | 48.3       | 67.8       | 35.6        |             |
| 9/14/2016  |             |             | 58         |             |            |            |            |             |             |
| 11/14/2016 | 41          | 46          |            |             |            |            |            | 36.2        | 61.4        |
| 11/15/2016 |             |             |            | 38          | 87.9       | 51.8       | 68.4       |             |             |
| 11/16/2016 |             |             | 61.8       |             |            |            |            |             |             |
| 1/3/2017   |             |             |            |             |            |            |            |             |             |
| 2/27/2017  |             |             |            |             |            |            |            |             |             |
| 2/28/2017  | 41.8        | 45          | 56.8       | 39.4        |            |            |            | 35.4        | 62.6        |
| 3/1/2017   |             |             |            |             | 96.8       | 58.4       | 71.8       |             |             |
| 5/22/2017  |             |             |            | 37.4        |            |            |            | 34.4        |             |
| 5/23/2017  |             |             |            |             | 88         | 54.8       | 70.6       |             |             |
| 5/24/2017  | 39.8        | 44.3        | 55.5       |             |            |            |            |             | 62.3        |
| 6/19/2017  | 40.2        |             |            | 37.4        |            |            |            | 34.8        |             |
| 6/20/2017  |             |             |            |             | 87.5       | 67.9       | 73.8       |             |             |
| 6/21/2017  |             | 44.7        | 51         |             |            |            |            |             | 63          |
| 8/14/2017  | 41.3        | 43.5        |            | 36.4        |            |            |            | 34.6        | 60.6        |
| 8/15/2017  |             |             | 48.9       |             | 89.4       | 52.5       | 65.7       |             |             |
| 8/16/2017  |             |             |            |             |            |            |            |             |             |
| 4/16/2018  |             |             |            | 38.7        |            |            |            | 37.4        | 64.6        |
| 4/17/2018  |             |             |            |             | 100        | 77.1       | 90         |             |             |
| 4/19/2018  | 42.3        | 45.8        | 56.5       |             |            |            |            |             |             |
| 10/1/2018  | 41.5        |             |            |             |            |            | 79.6       |             |             |
| 10/2/2018  |             |             |            | 39.7        |            |            |            |             |             |
| 10/3/2018  |             |             | 73.5       |             |            |            |            |             |             |
| 10/4/2018  |             |             |            |             | 106        | 61.2       |            | 40.8        | 74.5        |
| 10/5/2018  |             | 46.8        |            |             |            |            |            |             |             |
| 4/1/2019   |             |             |            |             |            |            |            |             |             |
| 4/2/2019   |             |             | 56.9       |             | 115        | 80.1       | 69.8       |             |             |
| 4/3/2019   | 45.7        | 46.9        |            | 40          |            |            |            | 44.1        | 67.8        |
| 5/7/2019   |             |             |            |             |            |            |            |             |             |
| 9/16/2019  | 61.3        |             |            | 39.1        |            |            |            | 40.2        | 69.5        |
| 9/17/2019  |             | 48.3        | 69.3       |             |            |            |            |             |             |
| 9/18/2019  |             |             |            |             | 99.1       | 83.9       | 79.9       |             |             |

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/17/2020 12:24 PM View: Interwell PL  
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

|            | GN-AP-MW-9 | GN-AP-MW-15R | GN-AP-MW-21 | GN-AP-MW-22 |
|------------|------------|--------------|-------------|-------------|
| 3/28/2016  |            | 79.7 (o)     |             |             |
| 3/29/2016  |            |              |             |             |
| 3/30/2016  |            |              |             |             |
| 4/4/2016   | 32.3       |              |             |             |
| 5/17/2016  |            |              |             |             |
| 5/18/2016  |            |              |             |             |
| 5/19/2016  |            | 91.5 (o)     |             |             |
| 5/23/2016  | 31.3       |              |             |             |
| 7/11/2016  |            | 38.1         |             |             |
| 7/12/2016  | 31.6       |              |             |             |
| 7/13/2016  |            |              | 66.6        |             |
| 7/14/2016  |            |              |             | 61.5        |
| 7/18/2016  |            |              |             |             |
| 8/22/2016  |            | 37.3         | 52.8        | 71.3        |
| 9/12/2016  |            |              |             |             |
| 9/13/2016  | 31.2       |              | 68          | 70.3        |
| 9/14/2016  |            | 36.5         |             |             |
| 11/14/2016 |            |              |             |             |
| 11/15/2016 | 31.5       | 36.8         | 75.2        | 69          |
| 11/16/2016 |            |              |             |             |
| 1/3/2017   |            | 38           | 80.9        | 77.4        |
| 2/27/2017  |            | 36.8         |             |             |
| 2/28/2017  | 29.7       |              |             |             |
| 3/1/2017   |            |              | 58          | 77.4        |
| 5/22/2017  |            | 36.9         |             |             |
| 5/23/2017  |            |              | 56.3        | 76.6        |
| 5/24/2017  | 30.4       |              |             |             |
| 6/19/2017  |            |              |             |             |
| 6/20/2017  | 30.8       | 36.9         | 56.8        | 83.6        |
| 6/21/2017  |            |              |             |             |
| 8/14/2017  |            | 39.5         |             |             |
| 8/15/2017  |            |              | 54.5        | 81.8        |
| 8/16/2017  | 30.5       |              |             |             |
| 4/16/2018  |            |              |             |             |
| 4/17/2018  | 32.9       |              | 64.5        | 94.1        |
| 4/19/2018  |            | 43.4         |             |             |
| 10/1/2018  | 32.4       |              |             |             |
| 10/2/2018  |            |              |             |             |
| 10/3/2018  |            |              |             |             |
| 10/4/2018  |            |              | 102         | 99.5        |
| 10/5/2018  |            | 163          |             |             |
| 4/1/2019   | 32.3       |              |             |             |
| 4/2/2019   |            |              | 61.1        | 134         |
| 4/3/2019   |            | 209          |             |             |
| 5/7/2019   |            | 175          |             |             |
| 9/16/2019  |            |              |             |             |
| 9/17/2019  | 32.7       |              |             |             |
| 9/18/2019  |            | 139          | 98.3        | 102         |

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/17/2020 12:24 PM View: Interwell PL

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

|            | GN-AP-MW-14 | GN-AP-MW-2 (bg) | GN-AP-MW-3 (bg) | GN-AP-MW-19 | GN-AP-MW-15R | GN-AP-MW-1 (bg) | GN-AP-MW-16 | GN-AP-MW-8 | GN-AP-MW-17 |
|------------|-------------|-----------------|-----------------|-------------|--------------|-----------------|-------------|------------|-------------|
| 3/28/2016  | 2.11        | 1.73            | 2.48            | 9.86        | 21.9         |                 |             |            |             |
| 3/29/2016  |             |                 |                 |             |              | 2.16            | 10.8        | 5.14       | 14.7        |
| 3/30/2016  |             |                 |                 |             |              |                 |             |            |             |
| 4/4/2016   |             |                 |                 |             |              |                 |             |            |             |
| 5/17/2016  | 2.38        |                 | 1.9             |             |              |                 | 10          |            | 13.8        |
| 5/18/2016  |             | 1.4             |                 | 9.4         |              |                 |             |            |             |
| 5/19/2016  |             |                 |                 |             | 20.9         | 2.11            |             |            |             |
| 5/23/2016  |             |                 |                 |             |              |                 |             | 5.03       |             |
| 7/11/2016  | 2.42        | 1.73            | 1.93            |             | 23           |                 |             |            |             |
| 7/12/2016  |             |                 |                 |             |              | 2.93            |             | 4.66       |             |
| 7/13/2016  |             |                 |                 | 10.3        |              |                 |             |            |             |
| 7/14/2016  |             |                 |                 |             |              |                 | 10.1        |            | 13.8        |
| 7/18/2016  |             |                 |                 |             |              |                 |             |            |             |
| 8/22/2016  |             |                 |                 |             | 23.3         |                 |             |            |             |
| 9/12/2016  |             |                 |                 |             |              |                 |             |            |             |
| 9/13/2016  | 2.34        |                 |                 | 9.68        |              | 2.91            | 10.4        | 3.98       | 14.1        |
| 9/14/2016  |             | 2.24            | 1.77            |             | 23.6         |                 |             |            |             |
| 11/14/2016 |             |                 |                 |             |              |                 | 10.4        |            |             |
| 11/15/2016 | 2.55        |                 |                 |             | 23.8         | 2.72            |             | 3.71       |             |
| 11/16/2016 |             | 3.57            | 1.98            | 10.2        |              |                 |             |            | 14.2        |
| 1/3/2017   |             |                 |                 |             | 24.1         |                 |             |            |             |
| 2/27/2017  | 5.8         |                 |                 | 12          | 27           |                 |             |            |             |
| 2/28/2017  |             |                 |                 |             |              | 3.5             | 12          | 5.2        | 17          |
| 3/1/2017   |             | 3.4             | 2.3             |             |              |                 |             |            |             |
| 5/22/2017  |             |                 |                 | 12          | 28           |                 |             |            |             |
| 5/23/2017  |             | 2.4             | 2.2             |             |              | 3.7             |             |            |             |
| 5/24/2017  | 5.9         |                 |                 |             |              |                 | 12          | 5.4        | 17          |
| 6/19/2017  |             | 1.9 (J)         | 1.7 (J)         |             |              | 3.2             | 11          |            | 16          |
| 6/20/2017  |             |                 |                 |             | 27           |                 |             | 5          |             |
| 6/21/2017  | 3.6         |                 |                 | 12          |              |                 |             |            |             |
| 8/14/2017  |             |                 |                 | 12          | 27           |                 | 12          |            | 17          |
| 8/15/2017  | 4.9         | 5.4             | 2.1             |             |              | 2.9             |             | 4.6        |             |
| 8/16/2017  |             |                 |                 |             |              |                 |             |            |             |
| 4/16/2018  |             |                 |                 |             |              |                 |             |            |             |
| 4/17/2018  |             |                 |                 |             |              | 3.3             |             | 3.6        |             |
| 4/19/2018  | 6.5         | 1.8 (J)         | 1.7 (J)         | 11          | 32           |                 | 12          |            | 21          |
| 10/1/2018  |             |                 |                 |             |              | 2.3             | 14          | 3.9        | 30          |
| 10/2/2018  |             |                 |                 | <2          |              |                 |             |            |             |
| 10/3/2018  |             | <2              | 1.7 (J)         |             |              |                 |             |            |             |
| 10/4/2018  |             |                 |                 |             |              |                 |             |            |             |
| 10/5/2018  | 3.5         |                 |                 |             | 120          |                 |             |            |             |
| 4/1/2019   |             | 1.36            |                 | 11.9        |              | 4.75            |             | 3.9        |             |
| 4/2/2019   |             |                 | 1.65            |             |              |                 |             |            |             |
| 4/3/2019   | 5.72        |                 |                 |             | 156          |                 | 15.9        |            | 38          |
| 5/7/2019   |             |                 |                 |             | 180          |                 |             |            |             |
| 9/16/2019  |             |                 |                 |             |              |                 | 20.4        |            |             |
| 9/17/2019  | 4.16        |                 | 1.93            |             |              | 4.14            |             | 3.96       | 43.2        |
| 9/18/2019  |             | 1.53            |                 | 11.6        | 142          |                 |             |            |             |

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/17/2020 12:24 PM View: Interwell PL

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

|            | GN-AP-MW-18 | GN-AP-MW-20 | GN-AP-MW-7 | GN-AP-MW-6 | GN-AP-MW-10 | GN-AP-MW-5 | GN-AP-MW-11 | GN-AP-MW-12 | GN-AP-MW-4 |
|------------|-------------|-------------|------------|------------|-------------|------------|-------------|-------------|------------|
| 3/28/2016  |             |             |            |            |             |            |             |             |            |
| 3/29/2016  | 11.1        | 17.2        |            |            |             |            |             |             |            |
| 3/30/2016  |             |             | 16.9       | 30.8       | 4.59        | 31.9       | 6.36        | 21.4        | 12.9       |
| 4/4/2016   |             |             |            |            |             |            |             |             |            |
| 5/17/2016  | 10.3        |             |            |            | 3.94        |            |             |             | 12         |
| 5/18/2016  |             | 16.2        |            |            |             |            | 5.93        | 19.6        |            |
| 5/19/2016  |             |             | 14.9       | 28.7       |             |            |             |             |            |
| 5/23/2016  |             |             |            |            |             | 29.4       |             |             |            |
| 7/11/2016  |             |             |            |            |             |            |             |             | 20.3       |
| 7/12/2016  |             |             |            |            |             |            |             |             |            |
| 7/13/2016  |             | 16.2        | 12.6       | 24.8       | 3.32        |            | 5.93        | 19.6        |            |
| 7/14/2016  |             |             |            |            |             | 29.5       |             |             |            |
| 7/18/2016  | 10.3        |             |            |            |             |            |             |             |            |
| 8/22/2016  |             |             |            |            |             |            |             |             |            |
| 9/12/2016  |             |             |            |            |             |            |             | 19.7        |            |
| 9/13/2016  |             |             | 8.09       | 21.7       | 2.91        | 30.8       | 5.92        |             |            |
| 9/14/2016  | 10.3        | 16.2        |            |            |             |            |             |             | 27.3       |
| 11/14/2016 | 10.3        | 16.1        |            |            |             |            | 5.95        | 19.7        |            |
| 11/15/2016 |             |             | 14.3       | 25.9       | 2.75        | 30.7       |             |             |            |
| 11/16/2016 |             |             |            |            |             |            |             |             | 37.1       |
| 1/3/2017   |             |             |            |            |             |            |             |             |            |
| 2/27/2017  |             |             |            |            |             |            |             |             |            |
| 2/28/2017  | 12          | 18          |            |            | 3.2         |            | 6.7         | 22          | 27         |
| 3/1/2017   |             |             | 18         | 29         |             | 40         |             |             |            |
| 5/22/2017  |             |             |            |            | 3.7         |            | 7.1         |             |            |
| 5/23/2017  |             |             | 19         | 28         |             | 40         |             |             |            |
| 5/24/2017  | 13          | 18          |            |            |             |            |             | 22          | 28         |
| 6/19/2017  | 12          | 18          |            |            | 3.7         |            | 6.2         |             |            |
| 6/20/2017  |             |             | 18         | 40         |             | 44         |             |             |            |
| 6/21/2017  |             |             |            |            |             |            |             | 21          | 20         |
| 8/14/2017  | 12          | 18          |            |            | 3.1         |            | 6.7         | 21          |            |
| 8/15/2017  |             |             | 18         | 32         |             | 36         |             |             | 17         |
| 8/16/2017  |             |             |            |            |             |            |             |             |            |
| 4/16/2018  |             |             |            |            | 3.3         |            | 6.2         | 20          |            |
| 4/17/2018  |             |             | 16         | 52         |             | 63         |             |             |            |
| 4/19/2018  | 12          | 17          |            |            |             |            |             |             | 21         |
| 10/1/2018  | 13          | 19          |            |            |             | 49         |             |             |            |
| 10/2/2018  |             |             |            |            | 2.6         |            |             |             |            |
| 10/3/2018  |             |             |            |            |             |            |             |             | 21         |
| 10/4/2018  |             |             | 25         | 50         |             |            | 6.9         | 21          |            |
| 10/5/2018  |             |             |            |            |             |            |             |             |            |
| 4/1/2019   |             |             |            |            |             |            |             |             |            |
| 4/2/2019   |             |             | 15.7       | 66         |             | 39.9       |             |             | 18.3       |
| 4/3/2019   | 12.1        | 17.9        |            |            | 2.7         |            | 6.35        | 19.7        |            |
| 5/7/2019   |             |             |            |            |             |            |             |             |            |
| 9/16/2019  |             |             |            |            | 2.54        |            | 6.49        | 19.8        |            |
| 9/17/2019  |             |             |            |            |             |            |             |             | 37.5       |
| 9/18/2019  | 12.2        | 18.7        | 29.5       | 65.3       |             | 42.8       |             |             |            |

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/17/2020 12:24 PM View: Interwell PL  
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

|            | GN-AP-MW-13 | GN-AP-MW-9 | GN-AP-MW-21 | GN-AP-MW-22 |
|------------|-------------|------------|-------------|-------------|
| 3/28/2016  |             |            |             |             |
| 3/29/2016  |             |            |             |             |
| 3/30/2016  | 4.69        |            |             |             |
| 4/4/2016   |             | 5.89       |             |             |
| 5/17/2016  |             |            |             |             |
| 5/18/2016  | 4.35        |            |             |             |
| 5/19/2016  |             |            |             |             |
| 5/23/2016  |             | 5.2        |             |             |
| 7/11/2016  |             |            |             |             |
| 7/12/2016  |             | 5.71       |             |             |
| 7/13/2016  |             |            | 34.8        |             |
| 7/14/2016  | 4.33        |            |             | 26.9        |
| 7/18/2016  |             |            |             |             |
| 8/22/2016  |             |            | 25.1        | 37.6        |
| 9/12/2016  | 4.4         |            |             |             |
| 9/13/2016  |             | 5.88       | 34.1        | 30          |
| 9/14/2016  |             |            |             |             |
| 11/14/2016 | 4.76        |            |             |             |
| 11/15/2016 |             | 6.04       | 40.1        | 22.7        |
| 11/16/2016 |             |            |             |             |
| 1/3/2017   |             |            | 38.5        | 26.5        |
| 2/27/2017  |             |            |             |             |
| 2/28/2017  | 6.1         | 8.6        |             |             |
| 3/1/2017   |             |            | 23          | 56          |
| 5/22/2017  |             |            |             |             |
| 5/23/2017  |             |            | 21          | 48          |
| 5/24/2017  | 5.4         | 9.3        |             |             |
| 6/19/2017  |             |            |             |             |
| 6/20/2017  |             | 7.8        | 22          | 58          |
| 6/21/2017  | 5.2         |            |             |             |
| 8/14/2017  | 5.6         |            |             |             |
| 8/15/2017  |             |            | 21          | 61          |
| 8/16/2017  |             | 7.6        |             |             |
| 4/16/2018  |             |            |             |             |
| 4/17/2018  |             | 7.5        | 29          | 61          |
| 4/19/2018  | 4.6         |            |             |             |
| 10/1/2018  |             | 8.9        |             |             |
| 10/2/2018  |             |            |             |             |
| 10/3/2018  |             |            |             |             |
| 10/4/2018  |             |            | 58          | 61          |
| 10/5/2018  | 5.1         |            |             |             |
| 4/1/2019   |             | 8.42       |             |             |
| 4/2/2019   |             |            | 27          | 67.3        |
| 4/3/2019   | 4.85        |            |             |             |
| 5/7/2019   |             |            |             |             |
| 9/16/2019  |             |            |             |             |
| 9/17/2019  | 4.83        | 8.59       |             |             |
| 9/18/2019  |             |            | 64          | 46.3        |

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 1/17/2020 12:24 PM View: Interwell PL

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

|            | GN-AP-MW-3 (bg) | GN-AP-MW-2 (bg) | GN-AP-MW-14 | GN-AP-MW-19 | GN-AP-MW-15R | GN-AP-MW-1 (bg) | GN-AP-MW-16 | GN-AP-MW-8 | GN-AP-MW-17 |
|------------|-----------------|-----------------|-------------|-------------|--------------|-----------------|-------------|------------|-------------|
| 3/28/2016  | 0.032 (J)       | 0.028 (J)       | 0.084 (J)   | 0.083 (J)   | 0.276 (J)    |                 |             |            |             |
| 3/29/2016  |                 |                 |             |             |              | 0.058 (J)       | 0.118 (J)   | 0.104 (J)  | 0.221 (J)   |
| 3/30/2016  |                 |                 |             |             |              |                 |             |            |             |
| 4/4/2016   |                 |                 |             |             |              |                 |             |            |             |
| 5/17/2016  | 0.068 (J)       |                 | 0.098 (J)   |             |              |                 | 0.151 (J)   |            | 0.241 (J)   |
| 5/18/2016  |                 | 0.064 (J)       |             | 0.092 (J)   |              |                 |             |            |             |
| 5/19/2016  |                 |                 |             |             | 0.313        | 0.093 (J)       |             |            |             |
| 5/23/2016  |                 |                 |             |             |              |                 |             | 0.131 (J)  |             |
| 7/11/2016  | 0.057 (J)       | 0.054 (J)       | 0.086 (J)   |             | 0.076 (J)    |                 |             |            |             |
| 7/12/2016  |                 |                 |             |             |              | 0.092 (J)       |             | 0.105 (J)  |             |
| 7/13/2016  |                 |                 |             | 0.064 (J)   |              |                 |             |            |             |
| 7/14/2016  |                 |                 |             |             |              |                 | 0.124 (J)   |            | 0.213 (J)   |
| 7/18/2016  |                 |                 |             |             |              |                 |             |            |             |
| 8/22/2016  |                 |                 |             |             | 0.067 (J)    |                 |             |            |             |
| 9/12/2016  |                 |                 |             |             |              |                 |             |            |             |
| 9/13/2016  |                 |                 | 0.061 (J)   | 0.03 (J)    |              | 0.045 (J)       | 0.089 (J)   | 0.057 (J)  | 0.168 (J)   |
| 9/14/2016  | 0.017 (J)       | 0.016 (J)       |             |             | 0.036 (J)    |                 |             |            |             |
| 11/14/2016 |                 |                 |             |             |              |                 | 0.022 (J)   |            |             |
| 11/15/2016 |                 |                 | <0.1        |             | <0.1         | <0.1            |             | <0.1       |             |
| 11/16/2016 | <0.1            | <0.1            |             | <0.1        |              |                 |             |            | 0.103 (J)   |
| 1/3/2017   |                 |                 |             |             | <0.1         |                 |             |            |             |
| 2/27/2017  |                 |                 | 0.12        | <0.1        | 0.06 (J)     |                 |             |            |             |
| 2/28/2017  |                 |                 |             |             |              | 0.07 (J)        | 0.1         | 0.07 (J)   | 0.22        |
| 3/1/2017   | <0.1            | <0.1            |             |             |              |                 |             |            |             |
| 5/22/2017  |                 |                 |             | 0.04 (J)    | 0.07 (J)     |                 |             |            |             |
| 5/23/2017  | <0.1            | <0.1            |             |             |              | 0.08 (J)        |             |            |             |
| 5/24/2017  |                 |                 | 0.12        |             |              |                 | 0.12        | 0.09 (J)   | 0.2         |
| 6/19/2017  | <0.1            | <0.1            |             |             |              | 0.08 (J)        | 0.13        |            | 0.21        |
| 6/20/2017  |                 |                 |             |             | 0.07 (J)     |                 |             | 0.08 (J)   |             |
| 6/21/2017  |                 |                 | 0.1         | 0.05 (J)    |              |                 |             |            |             |
| 8/14/2017  |                 |                 |             | 0.04 (J)    | 0.07 (J)     |                 | 0.12        |            | 0.22        |
| 8/15/2017  | <0.1            | <0.1            | 0.12        |             |              | 0.08 (J)        |             | 0.09 (J)   |             |
| 8/16/2017  |                 |                 |             |             |              |                 |             |            |             |
| 1/9/2018   |                 |                 | 0.14        |             | 0.08 (J)     |                 | 0.13        |            | 0.24        |
| 1/10/2018  | <0.1            | <0.1            |             | 0.04 (J)    |              | 0.08 (J)        |             | 0.11       |             |
| 4/16/2018  |                 |                 |             |             |              |                 |             |            |             |
| 4/17/2018  |                 |                 |             |             |              | 0.08 (J)        |             | 0.09 (J)   |             |
| 4/19/2018  | <0.1            | <0.1            | 0.13        | 0.04 (J)    | 0.08 (J)     |                 | 0.13        |            | 0.22        |
| 10/1/2018  |                 |                 |             |             |              | 0.1             | 0.15        | 0.12       | 0.25        |
| 10/2/2018  |                 |                 |             | 0.05 (J)    |              |                 |             |            |             |
| 10/3/2018  | <0.1            | 0.04 (J)        |             |             |              |                 |             |            |             |
| 10/4/2018  |                 |                 |             |             |              |                 |             |            |             |
| 10/5/2018  |                 |                 | 0.1         |             | 0.1          |                 |             |            |             |
| 4/1/2019   |                 | <0.1            |             | 0.0563 (J)  |              | 0.0791 (J)      |             | 0.0956 (J) |             |
| 4/2/2019   | <0.1            |                 |             |             |              |                 |             |            |             |
| 4/3/2019   |                 |                 | 0.106       |             | 0.104        |                 | 0.12        |            | 0.182       |
| 5/7/2019   |                 |                 |             |             | 0.0937 (J)   |                 |             |            |             |
| 9/16/2019  |                 |                 |             |             |              |                 | 0.126       |            |             |
| 9/17/2019  | <0.1            |                 | 0.116       |             |              | 0.0876 (J)      |             | 0.0971 (J) | 0.187       |
| 9/18/2019  |                 | <0.1            |             | 0.0507 (J)  | 0.094 (J)    |                 |             |            |             |



# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 1/17/2020 12:24 PM View: Interwell PL

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

|            | GN-AP-MW-18 | GN-AP-MW-20 | GN-AP-MW-7 | GN-AP-MW-6 | GN-AP-MW-10 | GN-AP-MW-5 | GN-AP-MW-11 | GN-AP-MW-12 | GN-AP-MW-4 |
|------------|-------------|-------------|------------|------------|-------------|------------|-------------|-------------|------------|
| 3/28/2016  |             |             |            |            |             |            |             |             |            |
| 3/29/2016  | 0.04 (J)    | 0.035 (J)   |            |            |             |            |             |             |            |
| 3/30/2016  |             |             | 0.034 (J)  | 0.056 (J)  | 0.052 (J)   | 0.048 (J)  | 0.026 (J)   | 0.039 (J)   | 0.023 (J)  |
| 4/4/2016   |             |             |            |            |             |            |             |             |            |
| 5/17/2016  | 0.079 (J)   |             |            |            | 0.088 (J)   |            |             |             | 0.065 (J)  |
| 5/18/2016  |             | 0.076 (J)   |            |            |             |            | 0.068 (J)   | 0.078 (J)   |            |
| 5/19/2016  |             |             | 0.072 (J)  | 0.09 (J)   |             |            |             |             |            |
| 5/23/2016  |             |             |            |            |             | 0.076 (J)  |             |             |            |
| 7/11/2016  |             |             |            |            |             |            |             |             | 0.054 (J)  |
| 7/12/2016  |             |             |            |            |             |            |             |             |            |
| 7/13/2016  |             | 0.053 (J)   | 0.054 (J)  | 0.067 (J)  | 0.06 (J)    |            | 0.049 (J)   | 0.058 (J)   |            |
| 7/14/2016  |             |             |            |            |             | 0.058 (J)  |             |             |            |
| 7/18/2016  | 0.058 (J)   |             |            |            |             |            |             |             |            |
| 8/22/2016  |             |             |            |            |             |            |             |             |            |
| 9/12/2016  |             |             |            |            |             |            |             | 0.023 (J)   |            |
| 9/13/2016  |             |             | 0.021 (J)  | 0.026 (J)  | 0.019 (J)   | 0.025 (J)  | 0.018 (J)   |             |            |
| 9/14/2016  | 0.025 (J)   | 0.022 (J)   |            |            |             |            |             |             | 0.014 (J)  |
| 11/14/2016 | <0.1        | <0.1        |            |            |             |            | <0.1        | <0.1        |            |
| 11/15/2016 |             |             | <0.1       | <0.1       | <0.1        | <0.1       |             |             |            |
| 11/16/2016 |             |             |            |            |             |            |             |             | <0.1       |
| 1/3/2017   |             |             |            |            |             |            |             |             |            |
| 2/27/2017  |             |             |            |            |             |            |             |             |            |
| 2/28/2017  | 0.04 (J)    | <0.1        |            |            | <0.1        |            | <0.1        | <0.1        | <0.1       |
| 3/1/2017   |             |             | <0.1       | <0.1       |             | 0.04 (J)   |             |             |            |
| 5/22/2017  |             |             |            |            | 0.04 (J)    |            | <0.1        |             |            |
| 5/23/2017  |             |             | 0.04 (J)   | 0.04 (J)   |             | 0.05 (J)   |             |             |            |
| 5/24/2017  | 0.05 (J)    | 0.04 (J)    |            |            |             |            |             | 0.05 (J)    | <0.1       |
| 6/19/2017  | 0.05 (J)    | 0.04 (J)    |            |            | 0.04 (J)    |            | <0.1        |             |            |
| 6/20/2017  |             |             | 0.04 (J)   | 0.05 (J)   |             | 0.06 (J)   |             |             |            |
| 6/21/2017  |             |             |            |            |             |            |             | 0.05 (J)    | <0.1       |
| 8/14/2017  | 0.05 (J)    | 0.04 (J)    |            |            | 0.04 (J)    |            | <0.1        | 0.04 (J)    |            |
| 8/15/2017  |             |             | 0.04 (J)   | 0.04 (J)   |             | 0.05 (J)   |             |             | <0.1       |
| 8/16/2017  |             |             |            |            |             |            |             |             |            |
| 1/9/2018   | 0.05 (J)    | 0.04 (J)    |            |            |             | 0.04 (J)   | <0.1        | 0.04 (J)    |            |
| 1/10/2018  |             |             | 0.04 (J)   | 0.04 (J)   | <0.1        |            |             |             | <0.1       |
| 4/16/2018  |             |             |            |            | 0.04 (J)    |            | <0.1        | 0.04 (J)    |            |
| 4/17/2018  |             |             | <0.1       | 0.04 (J)   |             | 0.04 (J)   |             |             |            |
| 4/19/2018  | 0.05 (J)    | 0.04 (J)    |            |            |             |            |             |             | <0.1       |
| 10/1/2018  | 0.06 (J)    | 0.05 (J)    |            |            |             | 0.05 (J)   |             |             |            |
| 10/2/2018  |             |             |            |            | 0.04 (J)    |            |             |             |            |
| 10/3/2018  |             |             |            |            |             |            |             |             | <0.1       |
| 10/4/2018  |             |             | 0.05 (J)   | 0.05 (J)   |             |            | 0.04 (J)    | 0.04 (J)    |            |
| 10/5/2018  |             |             |            |            |             |            |             |             |            |
| 4/1/2019   |             |             |            |            |             |            |             |             |            |
| 4/2/2019   |             |             | 0.052 (J)  | 0.0586 (J) |             | 0.0555 (J) |             |             | <0.1       |
| 4/3/2019   | 0.0678 (J)  | 0.0657 (J)  |            |            | <0.1        |            | <0.1        | <0.1        |            |
| 5/7/2019   |             |             |            |            |             |            |             |             |            |
| 9/16/2019  |             |             |            |            | <0.1        |            | <0.1        | 0.0538 (J)  |            |
| 9/17/2019  |             |             |            |            |             |            |             |             | <0.1       |
| 9/18/2019  | 0.0551 (J)  | <0.1        | 0.0578 (J) | 0.0634 (J) |             | 0.0568 (J) |             |             |            |

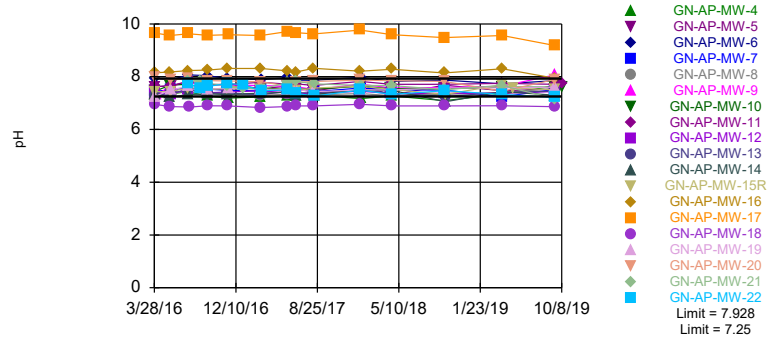
# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 1/17/2020 12:24 PM View: Interwell PL  
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

|            | GN-AP-MW-13 | GN-AP-MW-9 | GN-AP-MW-21 | GN-AP-MW-22 |
|------------|-------------|------------|-------------|-------------|
| 3/28/2016  |             |            |             |             |
| 3/29/2016  |             |            |             |             |
| 3/30/2016  | 0.042 (J)   |            |             |             |
| 4/4/2016   |             | 0.109 (J)  |             |             |
| 5/17/2016  |             |            |             |             |
| 5/18/2016  | 0.08 (J)    |            |             |             |
| 5/19/2016  |             |            |             |             |
| 5/23/2016  |             | 0.1 (J)    |             |             |
| 7/11/2016  |             |            |             |             |
| 7/12/2016  |             | 0.11 (J)   |             |             |
| 7/13/2016  |             |            | 0.118 (J)   |             |
| 7/14/2016  | 0.06 (J)    |            |             | 0.096 (J)   |
| 7/18/2016  |             |            |             |             |
| 8/22/2016  |             |            | 0.117 (J)   | 0.088 (J)   |
| 9/12/2016  | 0.028 (J)   |            |             |             |
| 9/13/2016  |             | 0.075 (J)  | 0.068 (J)   | 0.054 (J)   |
| 9/14/2016  |             |            |             |             |
| 11/14/2016 | <0.1        |            |             |             |
| 11/15/2016 |             | 0.023 (J)  | <0.1        | <0.1        |
| 11/16/2016 |             |            |             |             |
| 1/3/2017   |             |            | <0.1        | <0.1        |
| 2/27/2017  |             |            |             |             |
| 2/28/2017  | 0.04 (J)    | 0.11       |             |             |
| 3/1/2017   |             |            | 0.04 (J)    | 0.06 (J)    |
| 5/22/2017  |             |            |             |             |
| 5/23/2017  |             |            | 0.04 (J)    | 0.07 (J)    |
| 5/24/2017  | 0.05 (J)    | 0.11       |             |             |
| 6/19/2017  |             |            |             |             |
| 6/20/2017  |             | 0.12       | 0.04 (J)    | 0.06 (J)    |
| 6/21/2017  | 0.05 (J)    |            |             |             |
| 8/14/2017  | 0.05 (J)    |            |             |             |
| 8/15/2017  |             |            | <0.1        | 0.06 (J)    |
| 8/16/2017  |             | <0.1 (U*)  |             |             |
| 1/9/2018   | 0.05 (J)    |            |             | 0.07 (J)    |
| 1/10/2018  |             | 0.12       | 0.06 (J)    |             |
| 4/16/2018  |             |            |             |             |
| 4/17/2018  |             | 0.12       | <0.1        | 0.06 (J)    |
| 4/19/2018  | 0.05 (J)    |            |             |             |
| 10/1/2018  |             | 0.14       |             |             |
| 10/2/2018  |             |            |             |             |
| 10/3/2018  |             |            |             |             |
| 10/4/2018  |             |            | 0.07 (J)    | 0.08 (J)    |
| 10/5/2018  | 0.05 (J)    |            |             |             |
| 4/1/2019   |             | 0.136      |             |             |
| 4/2/2019   |             |            | <0.1        | 0.0613 (J)  |
| 4/3/2019   | <0.1        |            |             |             |
| 5/7/2019   |             |            |             |             |
| 9/16/2019  |             |            |             |             |
| 9/17/2019  | 0.0753 (J)  | 0.128      |             |             |
| 9/18/2019  |             |            | 0.0749 (J)  | 0.065 (J)   |

Exceeds Limits: GN-AP-MW-9, GN-AP-MW-16, GN-AP-MW-17, GN-AP-MW-18, GN-AP-MW-21, GN-AP-MW-22

Prediction Limit  
Interwell Parametric

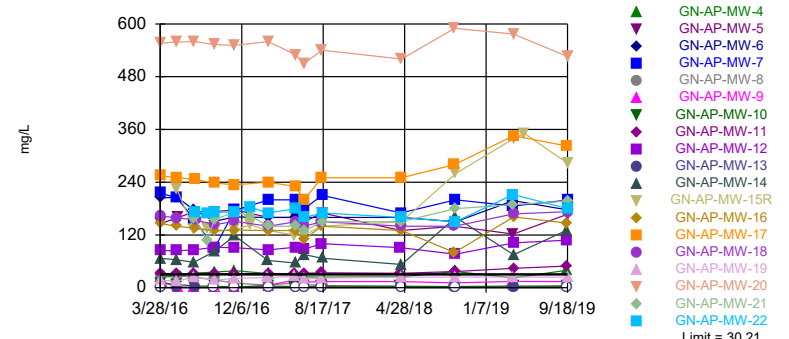


Background Data Summary (based on  $x^6$  transformation): Mean=196767, Std. Dev.=29630, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9236, critical = 0.923. Kappa = 1.742 (c=7, w=3, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001253. Comparing 19 points to limit.

Constituent: pH Analysis Run 1/17/2020 12:22 PM View: Interwell PL  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Exceeds Limit: GN-AP-MW-4, GN-AP-MW-5, GN-AP-MW-6, GN-AP-MW-7, GN-AP-MW-11, GN-AP-MW-12, GN-AP-MW-14,...

Prediction Limit  
Interwell Parametric

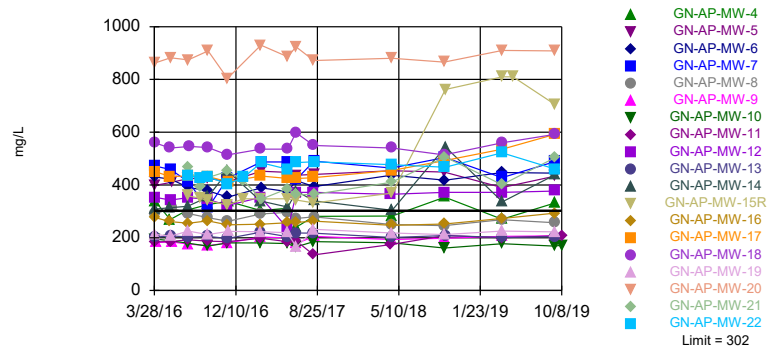


Background Data Summary (based on natural log transformation): Mean=1.647, Std. Dev.=1.004, n=39, 2.564% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9405, critical = 0.917. Kappa = 1.754 (c=7, w=3, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.002505. Comparing 19 points to limit.

Constituent: Sulfate Analysis Run 1/17/2020 12:23 PM View: Interwell PL  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Exceeds Limit: GN-AP-MW-4, GN-AP-MW-5, GN-AP-MW-6, GN-AP-MW-7, GN-AP-MW-12, GN-AP-MW-14, GN-AP-MW-15R,...

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 40 background values. Annual per-constituent alpha = 0.006854. Individual comparison alpha = 0.001146 (1 of 2). Comparing 19 points to limit.

Constituent: TDS Analysis Run 1/17/2020 12:23 PM View: Interwell PL  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond



# Prediction Limit

Constituent: pH (pH) Analysis Run 1/17/2020 12:24 PM View: Interwell PL

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

|            | GN-AP-MW-8 | GN-AP-MW-20 | GN-AP-MW-13 | GN-AP-MW-11 | GN-AP-MW-4 | GN-AP-MW-10 | GN-AP-MW-5 | GN-AP-MW-7 | GN-AP-MW-12 |
|------------|------------|-------------|-------------|-------------|------------|-------------|------------|------------|-------------|
| 3/28/2016  |            |             |             |             |            |             |            |            |             |
| 3/29/2016  | 7.2        | 7.96        |             |             |            |             |            |            |             |
| 3/30/2016  |            |             | 7.27        | 7.63        | 7.31       | 7.45        | 7.61       | 7.45       | 7.39        |
| 4/4/2016   |            |             |             |             |            |             |            |            |             |
| 5/17/2016  |            |             |             |             | 7.35       | 7.68        |            |            |             |
| 5/18/2016  |            | 7.88        | 7.37        | 7.64        |            |             |            |            | 7.34        |
| 5/19/2016  |            |             |             |             |            |             |            | 7.5        |             |
| 5/23/2016  | 7.39       |             |             |             |            |             | 7.68       |            |             |
| 7/11/2016  |            |             |             |             | 7.43       |             |            |            |             |
| 7/12/2016  | 7.43       |             |             |             |            |             |            |            |             |
| 7/13/2016  |            | 7.92        |             | 7.84        |            | 7.71        |            | 7.58       | 7.52        |
| 7/14/2016  |            |             | 7.51        |             |            |             | 7.79       |            |             |
| 7/18/2016  |            |             |             |             |            |             |            |            |             |
| 8/22/2016  |            |             |             |             |            |             |            |            |             |
| 9/12/2016  |            |             | 7.39        |             |            |             |            |            | 7.39        |
| 9/13/2016  | 7.38       |             |             | 7.69        |            | 7.53        | 7.69       | 7.53       |             |
| 9/14/2016  |            | 7.85        |             |             | 7.26       |             |            |            |             |
| 11/14/2016 |            | 7.84        | 7.37        | 7.7         |            |             |            |            | 7.42        |
| 11/15/2016 | 7.35       |             |             |             |            | 7.53        | 7.72       | 7.48       |             |
| 11/16/2016 |            |             |             |             | 7.19       |             |            |            |             |
| 1/3/2017   |            |             |             |             |            |             |            |            |             |
| 2/27/2017  |            |             |             |             |            |             |            |            |             |
| 2/28/2017  | 7.3        | 7.81        | 7.32        | 7.79        | 7.23       | 7.58        |            |            | 7.46        |
| 3/1/2017   |            |             |             |             |            |             | 7.55       | 7.46       |             |
| 5/22/2017  |            |             |             | 7.72        |            | 7.51        |            |            |             |
| 5/23/2017  |            |             |             |             |            |             | 7.64       | 7.51       |             |
| 5/24/2017  | 7.33       | 7.65        | 7.44        |             | 7.26       |             |            |            | 7.39        |
| 6/19/2017  |            | 7.79        |             | 7.73        |            | 7.53        |            |            |             |
| 6/20/2017  | 7.33       |             |             |             |            |             | 7.5        | 7.52       |             |
| 6/21/2017  |            |             | 7.39        |             | 7.26       |             |            |            | 7.36        |
| 8/14/2017  |            | 7.82        | 7.39        | 7.67        |            | 7.52        |            |            | 7.36        |
| 8/15/2017  | 7.31       |             |             |             | 7.29       |             | 7.46       | 7.43       |             |
| 8/16/2017  |            |             |             |             |            |             |            |            |             |
| 1/9/2018   |            | 7.87        | 7.5         | 7.82        |            |             | 7.71       |            | 7.45        |
| 1/10/2018  | 7.36       |             |             |             | 7.17       | 7.64        |            | 7.57       |             |
| 4/16/2018  |            |             |             | 7.71        |            | 7.54        |            |            | 7.36        |
| 4/17/2018  | 7.28       |             |             |             |            |             | 7.29       | 7.5        |             |
| 4/19/2018  |            | 7.85        | 7.38        |             | 7.27       |             |            |            |             |
| 10/1/2018  | 7.33       | 7.82        |             |             |            |             | 7.68       |            |             |
| 10/2/2018  |            |             |             |             |            | 7.54        |            |            |             |
| 10/3/2018  |            |             |             |             | 7.09       |             |            |            |             |
| 10/4/2018  |            |             |             | 7.71        |            |             |            | 7.49       | 7.37        |
| 10/5/2018  |            |             | 7.25        |             |            |             |            |            |             |
| 4/1/2019   | 7.4        |             |             |             |            |             |            |            |             |
| 4/2/2019   |            |             |             |             | 7.34       |             | 7.47       | 7.24       |             |
| 4/3/2019   |            | 7.45        | 7.41        | 7.75        |            | 7.6         |            |            | 7.37        |
| 5/7/2019   |            |             |             |             |            |             |            |            |             |
| 5/9/2019   |            |             |             |             |            |             |            |            |             |
| 9/16/2019  |            |             |             | 7.71        |            | 7.6         |            |            | 7.44        |
| 9/17/2019  | 7.55       |             | 7.45        |             | 7.65       |             |            |            |             |
| 9/18/2019  |            | 7.9         |             |             |            |             | 7.53       | 7.52       |             |
| 10/8/2019  |            |             |             | 7.74        |            | 7.59        |            |            |             |

# Prediction Limit

Constituent: pH (pH) Analysis Run 1/17/2020 12:24 PM View: Interwell PL

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

|            | GN-AP-MW-6 | GN-AP-MW-9 | GN-AP-MW-21 | GN-AP-MW-22 |
|------------|------------|------------|-------------|-------------|
| 3/28/2016  |            |            |             |             |
| 3/29/2016  |            |            |             |             |
| 3/30/2016  | 7.95       |            |             |             |
| 4/4/2016   |            | 7.32       |             |             |
| 5/17/2016  |            |            |             |             |
| 5/18/2016  |            |            |             |             |
| 5/19/2016  | 7.88       |            |             |             |
| 5/23/2016  |            | 7.66       |             |             |
| 7/11/2016  |            |            |             |             |
| 7/12/2016  |            | 7.77       |             |             |
| 7/13/2016  | 8.07       |            | 7.83        |             |
| 7/14/2016  |            |            |             | 7.74        |
| 7/18/2016  |            |            |             |             |
| 8/22/2016  |            |            | 7.86        | 7.55        |
| 9/12/2016  |            |            |             |             |
| 9/13/2016  | 8.04       | 7.7        | 7.75        | 7.63        |
| 9/14/2016  |            |            |             |             |
| 11/14/2016 |            |            |             |             |
| 11/15/2016 | 7.93       | 7.69       | 7.66        | 7.74        |
| 11/16/2016 |            |            |             |             |
| 1/3/2017   |            |            | 7.57        | 7.69        |
| 2/27/2017  |            |            |             |             |
| 2/28/2017  |            | 7.66       |             |             |
| 3/1/2017   | 7.89       |            | 7.53        | 7.47        |
| 5/22/2017  |            |            |             |             |
| 5/23/2017  | 7.96       |            | 7.78        | 7.5         |
| 5/24/2017  |            | 7.64       |             |             |
| 6/19/2017  |            |            |             |             |
| 6/20/2017  | 7.87       | 7.62       | 7.82        | 7.37        |
| 6/21/2017  |            |            |             |             |
| 8/14/2017  |            |            |             |             |
| 8/15/2017  | 7.86       |            | 7.73        | 7.26        |
| 8/16/2017  |            | 7.51       |             |             |
| 1/9/2018   |            |            |             | 7.49        |
| 1/10/2018  | 7.98       | 7.72       | 7.67        |             |
| 4/16/2018  |            |            |             |             |
| 4/17/2018  | 7.82       | 7.57       | 7.66        | 7.33        |
| 4/19/2018  |            |            |             |             |
| 10/1/2018  |            | 7.59       |             |             |
| 10/2/2018  |            |            |             |             |
| 10/3/2018  |            |            |             |             |
| 10/4/2018  | 7.87       |            | 7.51        | 7.47        |
| 10/5/2018  |            |            |             |             |
| 4/1/2019   |            | 7.64       |             |             |
| 4/2/2019   | 7.73       |            | 7.67        | 7.33        |
| 4/3/2019   |            |            |             |             |
| 5/7/2019   |            |            |             |             |
| 5/9/2019   |            |            |             |             |
| 9/16/2019  |            |            |             |             |
| 9/17/2019  |            | 8.07       |             |             |
| 9/18/2019  | 7.85       |            | 7.15        | 7.21        |
| 10/8/2019  |            |            |             |             |

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/17/2020 12:24 PM View: Interwell PL

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

|            | GN-AP-MW-3 (bg) | GN-AP-MW-2 (bg) | GN-AP-MW-19 | GN-AP-MW-14 | GN-AP-MW-8 | GN-AP-MW-1 (bg) | GN-AP-MW-17 | GN-AP-MW-18 | GN-AP-MW-20 |
|------------|-----------------|-----------------|-------------|-------------|------------|-----------------|-------------|-------------|-------------|
| 3/28/2016  | 7.57            | 2.09            | 16.8        | 66.6        |            |                 |             |             |             |
| 3/29/2016  |                 |                 |             |             | 29.9       | 15.9            | 254         | 163         | 556         |
| 3/30/2016  |                 |                 |             |             |            |                 |             |             |             |
| 4/4/2016   |                 |                 |             |             |            |                 |             |             |             |
| 5/17/2016  | 5.12            |                 |             | 63.9        |            |                 | 251         | 159         |             |
| 5/18/2016  |                 | 1.92            | 14.9        |             |            |                 |             |             | 559         |
| 5/19/2016  |                 |                 |             |             |            | 18              |             |             |             |
| 5/23/2016  |                 |                 |             |             | 26.5       |                 |             |             |             |
| 7/11/2016  | 4.63            | 3.41            |             | 57.6        |            |                 |             |             |             |
| 7/12/2016  |                 |                 |             |             | 24.3       | 24.6            |             |             |             |
| 7/13/2016  |                 |                 | 24.2        |             |            |                 |             |             | 560         |
| 7/14/2016  |                 |                 |             |             |            |                 | 246         |             |             |
| 7/18/2016  |                 |                 |             |             |            |                 |             | 154         |             |
| 8/22/2016  |                 |                 |             |             |            |                 |             |             |             |
| 9/12/2016  |                 |                 |             |             |            |                 |             |             |             |
| 9/13/2016  |                 |                 | 16.8        | 82.8        | 17.8       | 11.6            | 238         |             |             |
| 9/14/2016  | 3.19            | 4.94            |             |             |            |                 |             | 143         | 553         |
| 11/14/2016 |                 |                 |             |             |            |                 |             | 151         | 551         |
| 11/15/2016 |                 |                 |             | 118         | 10.1       | 9.07            |             |             |             |
| 11/16/2016 | 3.71            | 10.5            | 21.7        |             |            |                 | 234         |             |             |
| 1/3/2017   |                 |                 |             |             |            |                 |             |             |             |
| 2/27/2017  |                 |                 | 23          | 62 (J)      |            |                 |             |             |             |
| 2/28/2017  |                 |                 |             |             | 5.8        | 10              | 240         | 140         | 560         |
| 3/1/2017   | 3.4 (J)         | 5.1             |             |             |            |                 |             |             |             |
| 5/22/2017  |                 |                 | 26          |             |            |                 |             |             |             |
| 5/23/2017  | 2 (J)           | 2.3 (J)         |             |             |            | 16              |             |             |             |
| 5/24/2017  |                 |                 |             | 56          | 11         |                 | 230         | 150         | 530         |
| 6/19/2017  | 2.5 (J)         | 2.1 (J)         |             |             |            | 13              | 200         | 140         | 510         |
| 6/20/2017  |                 |                 |             |             | 7.9        |                 |             |             |             |
| 6/21/2017  |                 |                 | 20          | 75          |            |                 |             |             |             |
| 8/14/2017  |                 |                 | 22          |             |            |                 | 250         | 150         | 540         |
| 8/15/2017  | 2.4 (J)         | 1.7 (J)         |             | 67          | 5          | 16              |             |             |             |
| 8/16/2017  |                 |                 |             |             |            |                 |             |             |             |
| 4/16/2018  |                 |                 |             |             |            |                 |             |             |             |
| 4/17/2018  |                 |                 |             |             | 2.9 (J)    | 20              |             |             |             |
| 4/19/2018  | 1.9 (J)         | <1              | 24          | 53          |            |                 | 250         | 140         | 520         |
| 10/1/2018  |                 |                 |             |             | <1         | 23              | 280         | 140         | 590         |
| 10/2/2018  |                 |                 | 24          |             |            |                 |             |             |             |
| 10/3/2018  | 2.7 (J)         | 1.7 (J)         |             |             |            |                 |             |             |             |
| 10/4/2018  |                 |                 |             |             |            |                 |             |             |             |
| 10/5/2018  |                 |                 |             | 160         |            |                 |             |             |             |
| 4/1/2019   |                 | 1.87            | 24.4        |             | 1.8        | 33.1            |             |             |             |
| 4/2/2019   | 3.24            |                 |             |             |            |                 |             |             |             |
| 4/3/2019   |                 |                 |             | 75.2        |            |                 | 346         | 168         | 577         |
| 5/7/2019   |                 |                 |             |             |            |                 |             |             |             |
| 9/16/2019  |                 |                 |             |             |            |                 |             |             |             |
| 9/17/2019  | 4.51            |                 |             | 131         | 4.62       | 28.3            | 322         |             |             |
| 9/18/2019  |                 | 2.39            | 23.6        |             |            |                 |             | 173         | 526         |

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/17/2020 12:24 PM View: Interwell PL

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

|            | GN-AP-MW-16 | GN-AP-MW-13 | GN-AP-MW-4 | GN-AP-MW-10 | GN-AP-MW-7 | GN-AP-MW-6 | GN-AP-MW-5 | GN-AP-MW-11 | GN-AP-MW-12 |
|------------|-------------|-------------|------------|-------------|------------|------------|------------|-------------|-------------|
| 3/28/2016  |             |             |            |             |            |            |            |             |             |
| 3/29/2016  | 146         |             |            |             |            |            |            |             |             |
| 3/30/2016  |             | <1          | 24.9       | 9.91        | 215        | 204        | 146        | 32.2        | 85          |
| 4/4/2016   |             |             |            |             |            |            |            |             |             |
| 5/17/2016  | 140         |             | 25.1       | 7.27        |            |            |            |             |             |
| 5/18/2016  |             | 0.492 (J)   |            |             |            |            |            | 30.8        | 83.8        |
| 5/19/2016  |             |             |            |             | 204        | 206        |            |             |             |
| 5/23/2016  |             |             |            |             |            |            | 160        |             |             |
| 7/11/2016  |             |             | 33.2       |             |            |            |            |             |             |
| 7/12/2016  |             |             |            |             |            |            |            |             |             |
| 7/13/2016  |             |             |            | 4.11        | 155        | 176        |            | 32.4        | 86.2        |
| 7/14/2016  | 135         | 0.38 (J)    |            |             |            |            | 173        |             |             |
| 7/18/2016  |             |             |            |             |            |            |            |             |             |
| 8/22/2016  |             |             |            |             |            |            |            |             |             |
| 9/12/2016  |             | <1          |            |             |            |            |            |             | 91.8        |
| 9/13/2016  | 129         |             |            | 2.86        | 89.8       | 151        | 173        | 30.9        |             |
| 9/14/2016  |             |             | 35.5       |             |            |            |            |             |             |
| 11/14/2016 | 131         | <1          |            |             |            |            |            | 32.1        | 91.2        |
| 11/15/2016 |             |             |            | 2.16        | 176        | 161        | 177        |             |             |
| 11/16/2016 |             |             | 38.5       |             |            |            |            |             |             |
| 1/3/2017   |             |             |            |             |            |            |            |             |             |
| 2/27/2017  |             |             |            |             |            |            |            |             |             |
| 2/28/2017  | 130         | <1          | 32         | 3.7 (J)     |            |            |            | 32          | 86          |
| 3/1/2017   |             |             |            |             | 200        | 160        | 160        |             |             |
| 5/22/2017  |             |             |            | 2.6 (J)     |            |            |            | 32          |             |
| 5/23/2017  |             |             |            |             | 200        | 160        | 160        |             |             |
| 5/24/2017  | 130         | <1          | 30         |             |            |            |            |             | 92          |
| 6/19/2017  | 110         |             |            | 2.8 (J)     |            |            |            | 33          |             |
| 6/20/2017  |             |             |            |             | 180        | 160        | 150        |             |             |
| 6/21/2017  |             | <1          | 25         |             |            |            |            |             | 88          |
| 8/14/2017  | 140         | <1          |            | 3.4 (J)     |            |            |            | 34          | 100         |
| 8/15/2017  |             |             | 24         |             | 210        | 160        | 170        |             |             |
| 8/16/2017  |             |             |            |             |            |            |            |             |             |
| 4/16/2018  |             |             |            | 3.4 (J)     |            |            |            | 33          | 91          |
| 4/17/2018  |             |             |            |             | 170        | 160        | 130        |             |             |
| 4/19/2018  | 130         | <1          | 25         |             |            |            |            |             |             |
| 10/1/2018  | 80          |             |            |             |            |            | 140        |             |             |
| 10/2/2018  |             |             |            | 2.6 (J)     |            |            |            |             |             |
| 10/3/2018  |             |             | 37         |             |            |            |            |             |             |
| 10/4/2018  |             |             |            |             | 200        | 150        |            | 37          | 76          |
| 10/5/2018  |             | <1          |            |             |            |            |            |             |             |
| 4/1/2019   |             |             |            |             |            |            |            |             |             |
| 4/2/2019   |             |             | 22.4       |             | 186        | 198        | 122        |             |             |
| 4/3/2019   | 161         | 0.925 (J)   |            | 3.85        |            |            |            | 44.2        | 102         |
| 5/7/2019   |             |             |            |             |            |            |            |             |             |
| 9/16/2019  | 147         |             |            | 3.39        |            |            |            | 49.2        | 108         |
| 9/17/2019  |             | <1          | 39.8       |             |            |            |            |             |             |
| 9/18/2019  |             |             |            |             | 199        | 177        | 167        |             |             |



# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/17/2020 12:24 PM View: Interwell PL

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

|            | GN-AP-MW-9 | GN-AP-MW-15R | GN-AP-MW-21 | GN-AP-MW-22 |
|------------|------------|--------------|-------------|-------------|
| 3/28/2016  |            | 147 (o)      |             |             |
| 3/29/2016  |            |              |             |             |
| 3/30/2016  |            |              |             |             |
| 4/4/2016   | 13.5       |              |             |             |
| 5/17/2016  |            |              |             |             |
| 5/18/2016  |            |              |             |             |
| 5/19/2016  |            | 224          |             |             |
| 5/23/2016  | 1.78       |              |             |             |
| 7/11/2016  |            | 133          |             |             |
| 7/12/2016  | 0.915 (J)  |              |             |             |
| 7/13/2016  |            |              | 159         |             |
| 7/14/2016  |            |              |             | 172         |
| 7/18/2016  |            |              |             |             |
| 8/22/2016  |            | 134          | 107         | 170         |
| 9/12/2016  |            |              |             |             |
| 9/13/2016  | <1         |              | 155         | 171         |
| 9/14/2016  |            | 130          |             |             |
| 11/14/2016 |            |              |             |             |
| 11/15/2016 | 0.96 (J)   | 132          | 172         | 173         |
| 11/16/2016 |            |              |             |             |
| 1/3/2017   |            | 143          | 163         | 183         |
| 2/27/2017  |            | 130          |             |             |
| 2/28/2017  | 5.5        |              |             |             |
| 3/1/2017   |            |              | 140         | 170         |
| 5/22/2017  |            | 120          |             |             |
| 5/23/2017  |            |              | 140         | 180         |
| 5/24/2017  | 18         |              |             |             |
| 6/19/2017  |            |              |             |             |
| 6/20/2017  | 13         | 120          | 130         | 160         |
| 6/21/2017  |            |              |             |             |
| 8/14/2017  |            | 140          |             |             |
| 8/15/2017  |            |              | 150         | 170         |
| 8/16/2017  | 14         |              |             |             |
| 4/16/2018  |            |              |             |             |
| 4/17/2018  | 14         |              | 150         | 160         |
| 4/19/2018  |            | 150          |             |             |
| 10/1/2018  | 11         |              |             |             |
| 10/2/2018  |            |              |             |             |
| 10/3/2018  |            |              |             |             |
| 10/4/2018  |            |              | 180         | 150         |
| 10/5/2018  |            | 260          |             |             |
| 4/1/2019   | 14.3       |              |             |             |
| 4/2/2019   |            |              | 189         | 212         |
| 4/3/2019   |            | 339          |             |             |
| 5/7/2019   |            | 351          |             |             |
| 9/16/2019  |            |              |             |             |
| 9/17/2019  | 13.9       |              |             |             |
| 9/18/2019  |            | 283          | 197         | 180         |



# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 1/17/2020 12:24 PM View: Interwell PL

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

|            | GN-AP-MW-16 | GN-AP-MW-13 | GN-AP-MW-4 | GN-AP-MW-10 | GN-AP-MW-7 | GN-AP-MW-6 | GN-AP-MW-5 | GN-AP-MW-12 | GN-AP-MW-11 |
|------------|-------------|-------------|------------|-------------|------------|------------|------------|-------------|-------------|
| 3/28/2016  |             |             |            |             |            |            |            |             |             |
| 3/29/2016  | 277         |             |            |             |            |            |            |             |             |
| 3/30/2016  |             | 202         | 339        | 195         | 472        | 430        | 398        | 353         | 184         |
| 4/4/2016   |             |             |            |             |            |            |            |             |             |
| 5/17/2016  | 261         |             | 269        | 189         |            |            |            |             |             |
| 5/18/2016  |             | 207         |            |             |            |            |            | 343         | 186         |
| 5/19/2016  |             |             |            |             | 458        | 422        |            |             |             |
| 5/23/2016  |             |             |            |             |            |            | 411        |             |             |
| 7/11/2016  |             |             | 305        |             |            |            |            |             |             |
| 7/12/2016  |             |             |            |             |            |            |            |             |             |
| 7/13/2016  |             |             |            | 179         | 412        | 391        |            | 352         | 192         |
| 7/14/2016  | 255         | 203         |            |             |            |            | 424        |             |             |
| 7/18/2016  |             |             |            |             |            |            |            |             |             |
| 8/22/2016  |             |             |            |             |            |            |            |             |             |
| 9/12/2016  |             | 205         |            |             |            |            |            | 346         |             |
| 9/13/2016  | 264         |             |            | 168         | 312        | 378        | 426        |             | 187         |
| 9/14/2016  |             |             | 326        |             |            |            |            |             |             |
| 11/14/2016 | 249         | 197         |            |             |            |            |            | 322         | 185         |
| 11/15/2016 |             |             |            | 180         | 426        | 354        | 412        |             |             |
| 11/16/2016 |             |             | 338        |             |            |            |            |             |             |
| 1/3/2017   |             |             |            |             |            |            |            |             |             |
| 2/27/2017  |             |             |            |             |            |            |            |             |             |
| 2/28/2017  | 251         | 221         | 303        | 180         |            |            |            | 353         | 198         |
| 3/1/2017   |             |             |            |             | 487        | 389        | 452        |             |             |
| 5/22/2017  |             |             |            | 178         |            |            |            |             | 185         |
| 5/23/2017  |             |             |            |             | 487        | 375        | 448        |             |             |
| 5/24/2017  | 257         | 204         | 312        |             |            |            |            | 234         |             |
| 6/19/2017  | 258         |             |            | 165         |            |            |            |             | 189         |
| 6/20/2017  |             |             |            |             | 421        | 416        | 437        |             |             |
| 6/21/2017  |             | 218         | 241        |             |            |            |            | 372         |             |
| 8/14/2017  | 263         | 217         |            | 185         |            |            |            | 372         | 135         |
| 8/15/2017  |             |             | 281        |             | 490        | 394        | 440        |             |             |
| 8/16/2017  |             |             |            |             |            |            |            |             |             |
| 4/16/2018  |             |             |            | 181         |            |            |            | 365         | 174         |
| 4/17/2018  |             |             |            |             | 464        | 437        | 454        |             |             |
| 4/19/2018  | 247         | 201         | 282        |             |            |            |            |             |             |
| 10/1/2018  | 252         |             |            |             |            |            | 449        |             |             |
| 10/2/2018  |             |             |            | 161         |            |            |            |             |             |
| 10/3/2018  |             |             | 354        |             |            |            |            |             |             |
| 10/4/2018  |             |             |            |             | 504        | 418        |            | 372         | 208         |
| 10/5/2018  |             | 208         |            |             |            |            |            |             |             |
| 4/1/2019   |             |             |            |             |            |            |            |             |             |
| 4/2/2019   |             |             | 270        |             | 428        | 447        | 390        |             |             |
| 4/3/2019   | 273         | 201         |            | 177         |            |            |            | 372         | 200         |
| 5/7/2019   |             |             |            |             |            |            |            |             |             |
| 5/9/2019   |             |             |            |             |            |            |            |             |             |
| 9/16/2019  | 293         |             |            | 168         |            |            |            | 377         | 207         |
| 9/17/2019  |             | 204         | 332        |             |            |            |            |             |             |
| 9/18/2019  |             |             |            |             | 489        | 445        | 434        |             |             |
| 10/8/2019  |             |             |            | 172         |            |            |            |             | 207 (D)     |

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 1/17/2020 12:24 PM View: Interwell PL

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

|            | GN-AP-MW-9 | GN-AP-MW-15R | GN-AP-MW-21 | GN-AP-MW-22 |
|------------|------------|--------------|-------------|-------------|
| 3/28/2016  |            | 426 (o)      |             |             |
| 3/29/2016  |            |              |             |             |
| 3/30/2016  |            |              |             |             |
| 4/4/2016   | 182        |              |             |             |
| 5/17/2016  |            |              |             |             |
| 5/18/2016  |            |              |             |             |
| 5/19/2016  |            | 496 (o)      |             |             |
| 5/23/2016  | 184        |              |             |             |
| 7/11/2016  |            | 359          |             |             |
| 7/12/2016  | 176        |              |             |             |
| 7/13/2016  |            |              | 468         |             |
| 7/14/2016  |            |              |             | 435         |
| 7/18/2016  |            |              |             |             |
| 8/22/2016  |            | 349          | 393         | 426         |
| 9/12/2016  |            |              |             |             |
| 9/13/2016  | 170        |              | 428         | 430         |
| 9/14/2016  |            | 340          |             |             |
| 11/14/2016 |            |              |             |             |
| 11/15/2016 | 180        | 324          | 452         | 404         |
| 11/16/2016 |            |              |             |             |
| 1/3/2017   |            | 348          | 418         | 428         |
| 2/27/2017  |            | 347          |             |             |
| 2/28/2017  | 203        |              |             |             |
| 3/1/2017   |            |              | 346         | 484         |
| 5/22/2017  |            | 348          |             |             |
| 5/23/2017  |            |              | 386         | 460         |
| 5/24/2017  | 199        |              |             |             |
| 6/19/2017  |            |              |             |             |
| 6/20/2017  | 178        | 343          | 363         | 485         |
| 6/21/2017  |            |              |             |             |
| 8/14/2017  |            | 332          |             |             |
| 8/15/2017  |            |              | 364         | 488         |
| 8/16/2017  | 205        |              |             |             |
| 4/16/2018  |            |              |             |             |
| 4/17/2018  | 193        |              | 410         | 477         |
| 4/19/2018  |            | 369          |             |             |
| 10/1/2018  | 198        |              |             |             |
| 10/2/2018  |            |              |             |             |
| 10/3/2018  |            |              |             |             |
| 10/4/2018  |            |              | 506         | 467         |
| 10/5/2018  |            | 762          |             |             |
| 4/1/2019   | 205        |              |             |             |
| 4/2/2019   |            |              | 401         | 522         |
| 4/3/2019   |            | 810          |             |             |
| 5/7/2019   |            | 810          |             |             |
| 5/9/2019   |            |              |             |             |
| 9/16/2019  |            |              |             |             |
| 9/17/2019  | 207        |              |             |             |
| 9/18/2019  |            | 704          | 504         | 460         |
| 10/8/2019  |            |              |             |             |

# Trend Test Summary Table

Plant Gaston    Client: Southern Company    Data: Gaston Ash Pond    Printed 1/17/2020, 12:33 PM

| Constituent            | Well                   | Slope          | Calc.      | Critical   | Sig.       | N         | %NDs         | Normality  | Xform      | Alpha       | Method    |
|------------------------|------------------------|----------------|------------|------------|------------|-----------|--------------|------------|------------|-------------|-----------|
| Boron (mg/L)           | GN-AP-MW-1 (bg)        | 0              | -1         | -43        | No         | 13        | 84.62        | n/a        | n/a        | 0.01        | NP        |
| Boron (mg/L)           | GN-AP-MW-2 (bg)        | 0              | 0          | 43         | No         | 13        | 100          | n/a        | n/a        | 0.01        | NP        |
| Boron (mg/L)           | GN-AP-MW-3 (bg)        | 0              | 0          | 43         | No         | 13        | 100          | n/a        | n/a        | 0.01        | NP        |
| Boron (mg/L)           | GN-AP-MW-4             | 0.044          | 14         | 43         | No         | 13        | 0            | n/a        | n/a        | 0.01        | NP        |
| Boron (mg/L)           | GN-AP-MW-5             | 0.05879        | 30         | 43         | No         | 13        | 0            | n/a        | n/a        | 0.01        | NP        |
| Boron (mg/L)           | GN-AP-MW-6             | 0.01486        | 0          | 43         | No         | 13        | 0            | n/a        | n/a        | 0.01        | NP        |
| Boron (mg/L)           | GN-AP-MW-7             | 0.09051        | 18         | 43         | No         | 13        | 0            | n/a        | n/a        | 0.01        | NP        |
| <b>Boron (mg/L)</b>    | <b>GN-AP-MW-11</b>     | <b>0.02706</b> | <b>49</b>  | <b>43</b>  | <b>Yes</b> | <b>13</b> | <b>0</b>     | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| <b>Boron (mg/L)</b>    | <b>GN-AP-MW-12</b>     | <b>0.0476</b>  | <b>71</b>  | <b>43</b>  | <b>Yes</b> | <b>13</b> | <b>0</b>     | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| <b>Boron (mg/L)</b>    | <b>GN-AP-MW-15R</b>    | <b>0.7726</b>  | <b>99</b>  | <b>58</b>  | <b>Yes</b> | <b>16</b> | <b>0</b>     | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| Boron (mg/L)           | GN-AP-MW-16            | -0.0026        | -5         | -43        | No         | 13        | 0            | n/a        | n/a        | 0.01        | NP        |
| Boron (mg/L)           | GN-AP-MW-17            | -0.06058       | -24        | -43        | No         | 13        | 0            | n/a        | n/a        | 0.01        | NP        |
| Boron (mg/L)           | GN-AP-MW-18            | -0.01939       | -19        | -43        | No         | 13        | 0            | n/a        | n/a        | 0.01        | NP        |
| Boron (mg/L)           | GN-AP-MW-20            | 0.09516        | 21         | 43         | No         | 13        | 0            | n/a        | n/a        | 0.01        | NP        |
| Boron (mg/L)           | GN-AP-MW-21            | 0.1528         | 18         | 43         | No         | 13        | 0            | n/a        | n/a        | 0.01        | NP        |
| Boron (mg/L)           | GN-AP-MW-22            | 0.1101         | 40         | 43         | No         | 13        | 0            | n/a        | n/a        | 0.01        | NP        |
| <b>Calcium (mg/L)</b>  | <b>GN-AP-MW-1 (bg)</b> | <b>2.442</b>   | <b>69</b>  | <b>43</b>  | <b>Yes</b> | <b>13</b> | <b>0</b>     | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| Calcium (mg/L)         | GN-AP-MW-2 (bg)        | 0.6928         | 22         | 43         | No         | 13        | 0            | n/a        | n/a        | 0.01        | NP        |
| Calcium (mg/L)         | GN-AP-MW-3 (bg)        | 0.439          | 21         | 43         | No         | 13        | 7.692        | n/a        | n/a        | 0.01        | NP        |
| Calcium (mg/L)         | GN-AP-MW-4             | 1.938          | 21         | 43         | No         | 13        | 0            | n/a        | n/a        | 0.01        | NP        |
| Calcium (mg/L)         | GN-AP-MW-5             | 4.031          | 42         | 43         | No         | 13        | 0            | n/a        | n/a        | 0.01        | NP        |
| Calcium (mg/L)         | GN-AP-MW-6             | 4.622          | 20         | 43         | No         | 13        | 0            | n/a        | n/a        | 0.01        | NP        |
| Calcium (mg/L)         | GN-AP-MW-7             | 5.927          | 42         | 43         | No         | 13        | 0            | n/a        | n/a        | 0.01        | NP        |
| Calcium (mg/L)         | GN-AP-MW-12            | 2.7            | 38         | 43         | No         | 13        | 0            | n/a        | n/a        | 0.01        | NP        |
| Calcium (mg/L)         | GN-AP-MW-14            | -4.62          | -20        | -43        | No         | 13        | 0            | n/a        | n/a        | 0.01        | NP        |
| <b>Calcium (mg/L)</b>  | <b>GN-AP-MW-15R</b>    | <b>7.83</b>    | <b>51</b>  | <b>48</b>  | <b>Yes</b> | <b>14</b> | <b>0</b>     | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| Calcium (mg/L)         | GN-AP-MW-16            | 0.8072         | 20         | 43         | No         | 13        | 0            | n/a        | n/a        | 0.01        | NP        |
| Calcium (mg/L)         | GN-AP-MW-17            | 12.95          | 34         | 43         | No         | 13        | 0            | n/a        | n/a        | 0.01        | NP        |
| Calcium (mg/L)         | GN-AP-MW-18            | 6.34           | 35         | 43         | No         | 13        | 0            | n/a        | n/a        | 0.01        | NP        |
| Calcium (mg/L)         | GN-AP-MW-20            | 5.47           | 16         | 43         | No         | 13        | 0            | n/a        | n/a        | 0.01        | NP        |
| Calcium (mg/L)         | GN-AP-MW-21            | 4.356          | 12         | 43         | No         | 13        | 0            | n/a        | n/a        | 0.01        | NP        |
| <b>Calcium (mg/L)</b>  | <b>GN-AP-MW-22</b>     | <b>14.91</b>   | <b>63</b>  | <b>43</b>  | <b>Yes</b> | <b>13</b> | <b>0</b>     | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| Chloride (mg/L)        | GN-AP-MW-1 (bg)        | 0.5604         | 34         | 43         | No         | 13        | 0            | n/a        | n/a        | 0.01        | NP        |
| Chloride (mg/L)        | GN-AP-MW-2 (bg)        | -0.1215        | -9         | -43        | No         | 13        | 7.692        | n/a        | n/a        | 0.01        | NP        |
| Chloride (mg/L)        | GN-AP-MW-3 (bg)        | -0.1029        | -28        | -43        | No         | 13        | 0            | n/a        | n/a        | 0.01        | NP        |
| Chloride (mg/L)        | GN-AP-MW-4             | 1.502          | 15         | 43         | No         | 13        | 0            | n/a        | n/a        | 0.01        | NP        |
| Chloride (mg/L)        | GN-AP-MW-5             | 5.507          | 43         | 43         | No         | 13        | 0            | n/a        | n/a        | 0.01        | NP        |
| <b>Chloride (mg/L)</b> | <b>GN-AP-MW-6</b>      | <b>11.51</b>   | <b>48</b>  | <b>43</b>  | <b>Yes</b> | <b>13</b> | <b>0</b>     | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| Chloride (mg/L)        | GN-AP-MW-7             | 3.425          | 31         | 43         | No         | 13        | 0            | n/a        | n/a        | 0.01        | NP        |
| Chloride (mg/L)        | GN-AP-MW-9             | 0.9965         | 40         | 43         | No         | 13        | 0            | n/a        | n/a        | 0.01        | NP        |
| Chloride (mg/L)        | GN-AP-MW-11            | 0.168          | 27         | 43         | No         | 13        | 0            | n/a        | n/a        | 0.01        | NP        |
| Chloride (mg/L)        | GN-AP-MW-12            | 0              | 6          | 43         | No         | 13        | 0            | n/a        | n/a        | 0.01        | NP        |
| Chloride (mg/L)        | GN-AP-MW-13            | 0.1545         | 20         | 43         | No         | 13        | 0            | n/a        | n/a        | 0.01        | NP        |
| <b>Chloride (mg/L)</b> | <b>GN-AP-MW-15R</b>    | <b>7.658</b>   | <b>107</b> | <b>58</b>  | <b>Yes</b> | <b>16</b> | <b>0</b>     | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| <b>Chloride (mg/L)</b> | <b>GN-AP-MW-16</b>     | <b>1.754</b>   | <b>59</b>  | <b>43</b>  | <b>Yes</b> | <b>13</b> | <b>0</b>     | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| <b>Chloride (mg/L)</b> | <b>GN-AP-MW-17</b>     | <b>5.254</b>   | <b>62</b>  | <b>43</b>  | <b>Yes</b> | <b>13</b> | <b>0</b>     | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| Chloride (mg/L)        | GN-AP-MW-18            | 0.6272         | 43         | 43         | No         | 13        | 0            | n/a        | n/a        | 0.01        | NP        |
| Chloride (mg/L)        | GN-AP-MW-19            | 0.543          | 18         | 43         | No         | 13        | 7.692        | n/a        | n/a        | 0.01        | NP        |
| Chloride (mg/L)        | GN-AP-MW-20            | 0.6268         | 33         | 43         | No         | 13        | 0            | n/a        | n/a        | 0.01        | NP        |
| Chloride (mg/L)        | GN-AP-MW-21            | 1.322          | 3          | 43         | No         | 13        | 0            | n/a        | n/a        | 0.01        | NP        |
| <b>Chloride (mg/L)</b> | <b>GN-AP-MW-22</b>     | <b>14.01</b>   | <b>45</b>  | <b>43</b>  | <b>Yes</b> | <b>13</b> | <b>0</b>     | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| Fluoride (mg/L)        | GN-AP-MW-1 (bg)        | 0              | 9          | 48         | No         | 14        | 7.143        | n/a        | n/a        | 0.01        | NP        |
| Fluoride (mg/L)        | GN-AP-MW-2 (bg)        | 0              | 29         | 48         | No         | 14        | 64.29        | n/a        | n/a        | 0.01        | NP        |
| Fluoride (mg/L)        | GN-AP-MW-3 (bg)        | 0              | 38         | 48         | No         | 14        | 71.43        | n/a        | n/a        | 0.01        | NP        |
| <b>Fluoride (mg/L)</b> | <b>GN-AP-MW-9</b>      | <b>0.01064</b> | <b>52</b>  | <b>48</b>  | <b>Yes</b> | <b>14</b> | <b>7.143</b> | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| Fluoride (mg/L)        | GN-AP-MW-14            | 0.007329       | 25         | 48         | No         | 14        | 7.143        | n/a        | n/a        | 0.01        | NP        |
| Fluoride (mg/L)        | GN-AP-MW-16            | 0.004026       | 23         | 48         | No         | 14        | 0            | n/a        | n/a        | 0.01        | NP        |
| Fluoride (mg/L)        | GN-AP-MW-17            | 0              | -2         | -48        | No         | 14        | 0            | n/a        | n/a        | 0.01        | NP        |
| pH (pH)                | GN-AP-MW-1 (bg)        | -0.01369       | -17        | -53        | No         | 15        | 0            | n/a        | n/a        | 0.01        | NP        |
| pH (pH)                | GN-AP-MW-2 (bg)        | -0.02103       | -11        | -48        | No         | 14        | 0            | n/a        | n/a        | 0.01        | NP        |
| pH (pH)                | GN-AP-MW-3 (bg)        | -0.0211        | -10        | -48        | No         | 14        | 0            | n/a        | n/a        | 0.01        | NP        |
| pH (pH)                | GN-AP-MW-9             | -0.00958       | -5         | -48        | No         | 14        | 0            | n/a        | n/a        | 0.01        | NP        |
| pH (pH)                | GN-AP-MW-16            | 0              | -1         | -48        | No         | 14        | 0            | n/a        | n/a        | 0.01        | NP        |
| pH (pH)                | GN-AP-MW-17            | -0.03318       | -21        | -48        | No         | 14        | 0            | n/a        | n/a        | 0.01        | NP        |
| pH (pH)                | GN-AP-MW-18            | 0              | 4          | 48         | No         | 14        | 0            | n/a        | n/a        | 0.01        | NP        |
| pH (pH)                | GN-AP-MW-21            | -0.107         | -43        | -48        | No         | 14        | 0            | n/a        | n/a        | 0.01        | NP        |
| <b>pH (pH)</b>         | <b>GN-AP-MW-22</b>     | <b>-0.1509</b> | <b>-60</b> | <b>-48</b> | <b>Yes</b> | <b>14</b> | <b>0</b>     | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| Sulfate (mg/L)         | GN-AP-MW-1 (bg)        | 5.271          | 33         | 43         | No         | 13        | 0            | n/a        | n/a        | 0.01        | NP        |

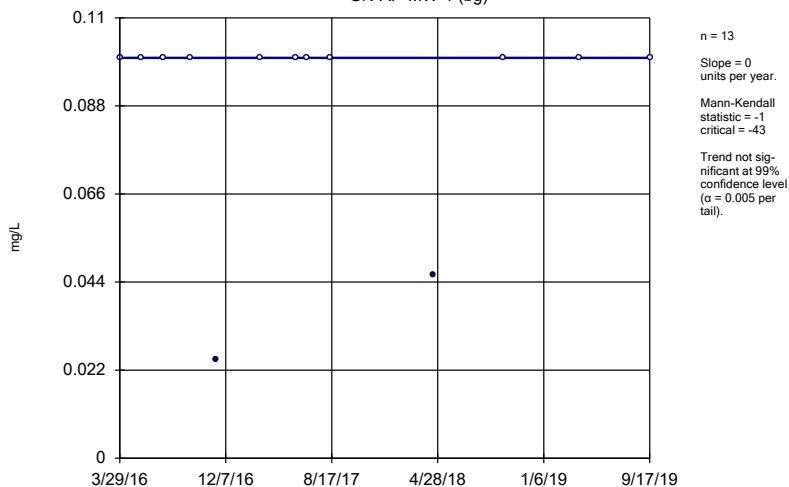
# Trend Test Summary Table

Plant Gaston    Client: Southern Company    Data: Gaston Ash Pond    Printed 1/17/2020, 12:33 PM

| Constituent           | Well               | Slope        | Calc.     | Critical  | Sig.       | N         | %NDs     | Normality  | Xform      | Alpha       | Method    |
|-----------------------|--------------------|--------------|-----------|-----------|------------|-----------|----------|------------|------------|-------------|-----------|
| Sulfate (mg/L)        | GN-AP-MW-2 (bg)    | -0.2042      | -15       | -43       | No         | 13        | 7.692    | n/a        | n/a        | 0.01        | NP        |
| Sulfate (mg/L)        | GN-AP-MW-3 (bg)    | -0.8731      | -32       | -43       | No         | 13        | 0        | n/a        | n/a        | 0.01        | NP        |
| Sulfate (mg/L)        | GN-AP-MW-4         | -0.026       | -1        | -43       | No         | 13        | 0        | n/a        | n/a        | 0.01        | NP        |
| Sulfate (mg/L)        | GN-AP-MW-5         | -7.893       | -22       | -43       | No         | 13        | 0        | n/a        | n/a        | 0.01        | NP        |
| Sulfate (mg/L)        | GN-AP-MW-6         | -1.807       | -18       | -43       | No         | 13        | 0        | n/a        | n/a        | 0.01        | NP        |
| Sulfate (mg/L)        | GN-AP-MW-7         | -0.196       | -3        | -43       | No         | 13        | 0        | n/a        | n/a        | 0.01        | NP        |
| <b>Sulfate (mg/L)</b> | <b>GN-AP-MW-11</b> | <b>2.618</b> | <b>52</b> | <b>43</b> | <b>Yes</b> | <b>13</b> | <b>0</b> | <b>n/a</b> | <b>n/a</b> | <b>0.01</b> | <b>NP</b> |
| Sulfate (mg/L)        | GN-AP-MW-12        | 4.953        | 34        | 43        | No         | 13        | 0        | n/a        | n/a        | 0.01        | NP        |
| Sulfate (mg/L)        | GN-AP-MW-14        | 6.374        | 16        | 43        | No         | 13        | 0        | n/a        | n/a        | 0.01        | NP        |
| Sulfate (mg/L)        | GN-AP-MW-15R       | 24.12        | 37        | 53        | No         | 15        | 0        | n/a        | n/a        | 0.01        | NP        |
| Sulfate (mg/L)        | GN-AP-MW-16        | -2.372       | -8        | -43       | No         | 13        | 0        | n/a        | n/a        | 0.01        | NP        |
| Sulfate (mg/L)        | GN-AP-MW-17        | 11.73        | 15        | 43        | No         | 13        | 0        | n/a        | n/a        | 0.01        | NP        |
| Sulfate (mg/L)        | GN-AP-MW-18        | -1.896       | -13       | -43       | No         | 13        | 0        | n/a        | n/a        | 0.01        | NP        |
| Sulfate (mg/L)        | GN-AP-MW-20        | -8.879       | -13       | -43       | No         | 13        | 0        | n/a        | n/a        | 0.01        | NP        |
| Sulfate (mg/L)        | GN-AP-MW-21        | 12.36        | 26        | 43        | No         | 13        | 0        | n/a        | n/a        | 0.01        | NP        |
| Sulfate (mg/L)        | GN-AP-MW-22        | -0.5432      | -5        | -43       | No         | 13        | 0        | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)            | GN-AP-MW-1 (bg)    | 3.862        | 22        | 48        | No         | 14        | 0        | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)            | GN-AP-MW-2 (bg)    | -1.254       | -10       | -43       | No         | 13        | 0        | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)            | GN-AP-MW-3 (bg)    | -0.3532      | -6        | -43       | No         | 13        | 0        | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)            | GN-AP-MW-4         | -2.631       | -6        | -43       | No         | 13        | 0        | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)            | GN-AP-MW-5         | 11.62        | 26        | 43        | No         | 13        | 0        | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)            | GN-AP-MW-6         | 12.52        | 24        | 43        | No         | 13        | 0        | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)            | GN-AP-MW-7         | 12.37        | 25        | 43        | No         | 13        | 0        | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)            | GN-AP-MW-12        | 9.389        | 39        | 43        | No         | 13        | 0        | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)            | GN-AP-MW-14        | 28.4         | 24        | 43        | No         | 13        | 0        | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)            | GN-AP-MW-15R       | 46.6         | 33        | 48        | No         | 14        | 0        | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)            | GN-AP-MW-17        | 23.33        | 26        | 43        | No         | 13        | 0        | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)            | GN-AP-MW-18        | 3.621        | 6         | 43        | No         | 13        | 0        | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)            | GN-AP-MW-20        | 8.27         | 13        | 43        | No         | 13        | 0        | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)            | GN-AP-MW-21        | 0.4862       | 0         | 43        | No         | 13        | 0        | n/a        | n/a        | 0.01        | NP        |
| TDS (mg/L)            | GN-AP-MW-22        | 21.57        | 35        | 43        | No         | 13        | 0        | n/a        | n/a        | 0.01        | NP        |

### Sen's Slope Estimator

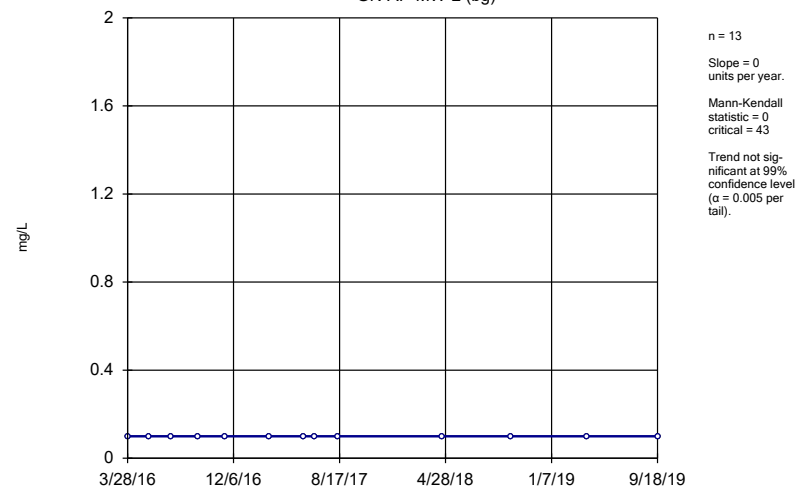
GN-AP-MW-1 (bg)



Constituent: Boron Analysis Run 1/17/2020 12:29 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

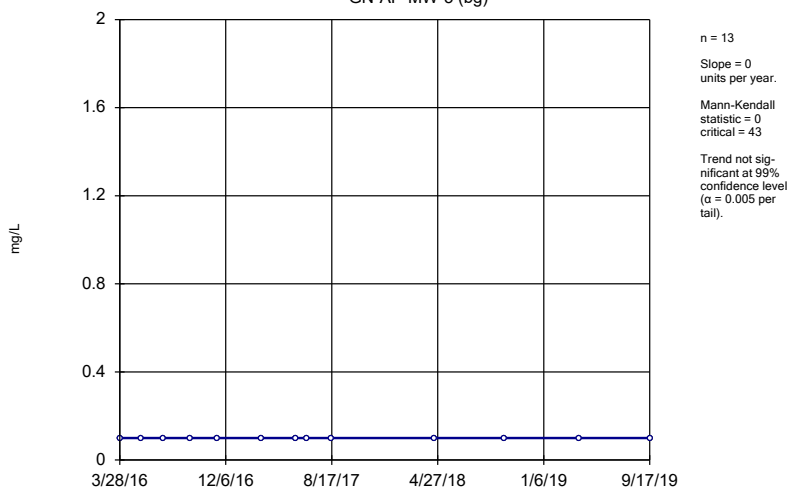
GN-AP-MW-2 (bg)



Constituent: Boron Analysis Run 1/17/2020 12:29 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

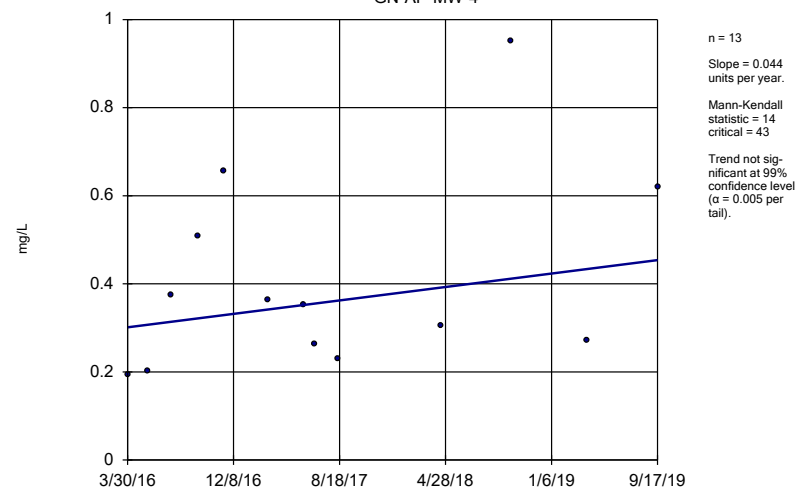
GN-AP-MW-3 (bg)



Constituent: Boron Analysis Run 1/17/2020 12:29 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

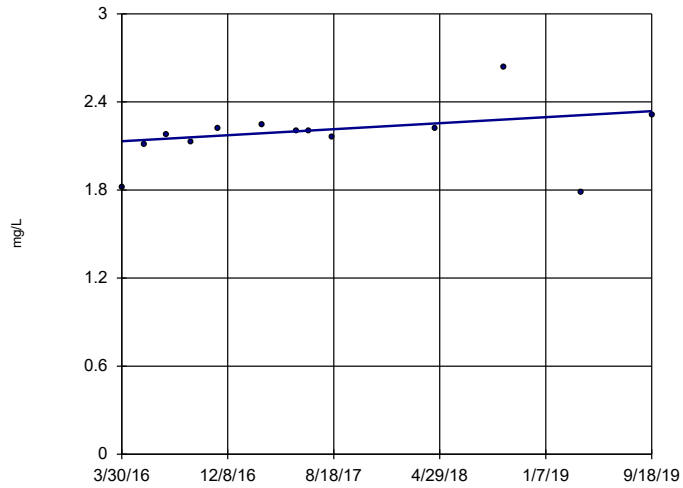
### Sen's Slope Estimator

GN-AP-MW-4



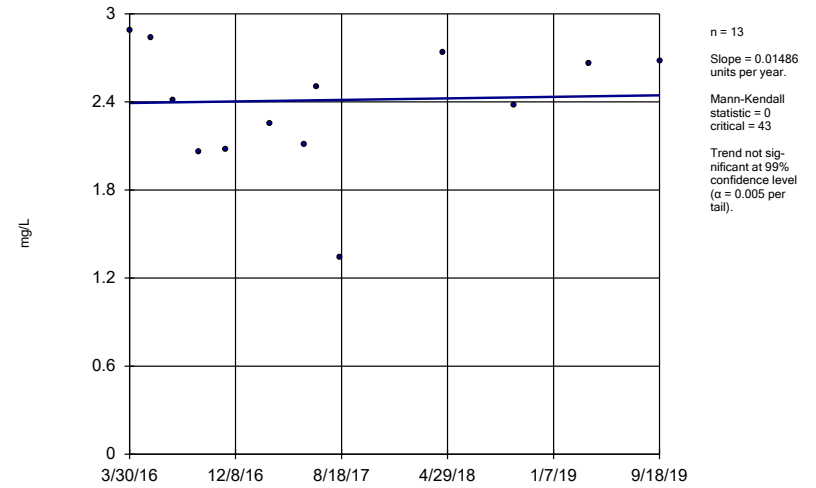
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator GN-AP-MW-5



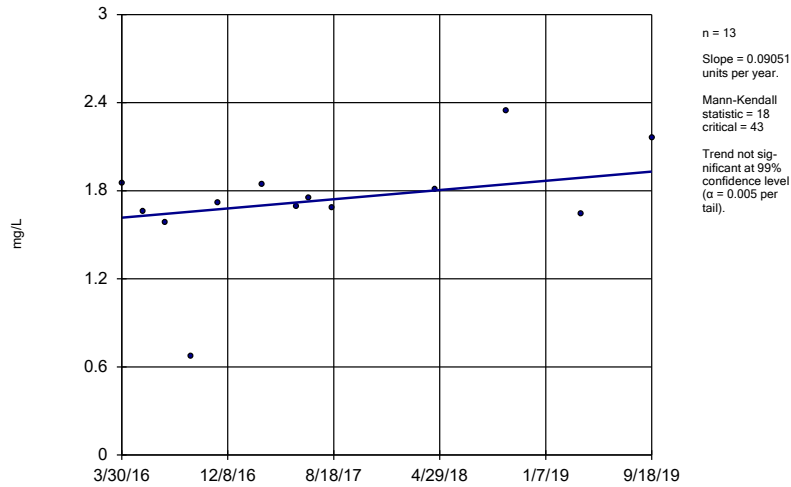
Constituent: Boron Analysis Run 1/17/2020 12:29 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator GN-AP-MW-6



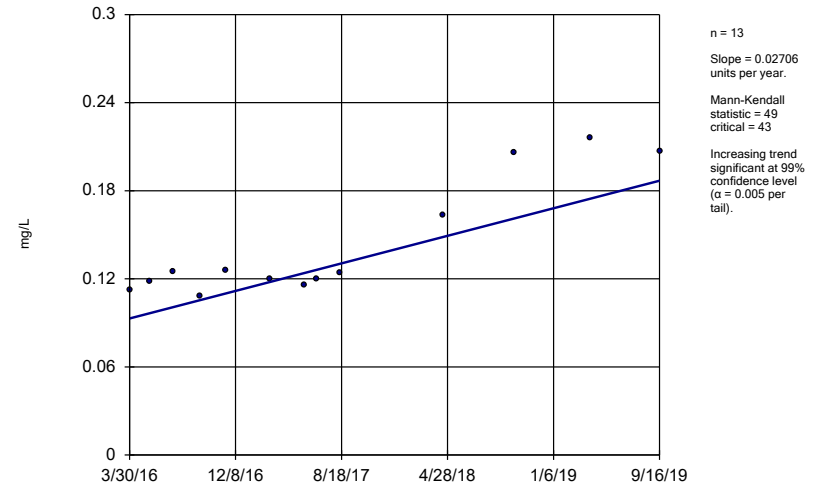
Constituent: Boron Analysis Run 1/17/2020 12:29 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator GN-AP-MW-7



Constituent: Boron Analysis Run 1/17/2020 12:29 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

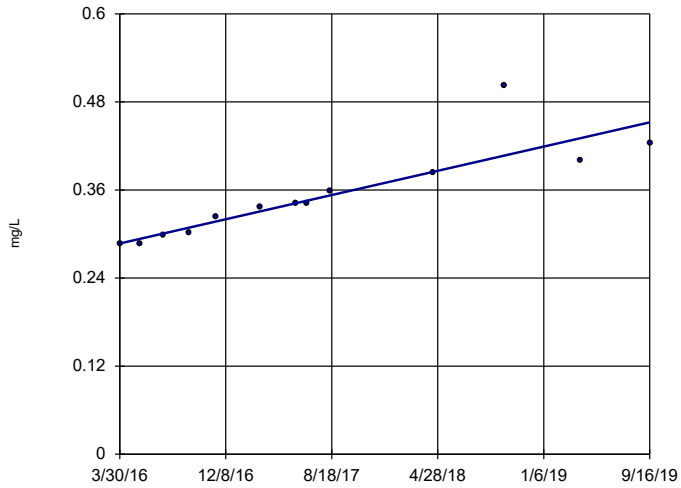
### Sen's Slope Estimator GN-AP-MW-11



Constituent: Boron Analysis Run 1/17/2020 12:29 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

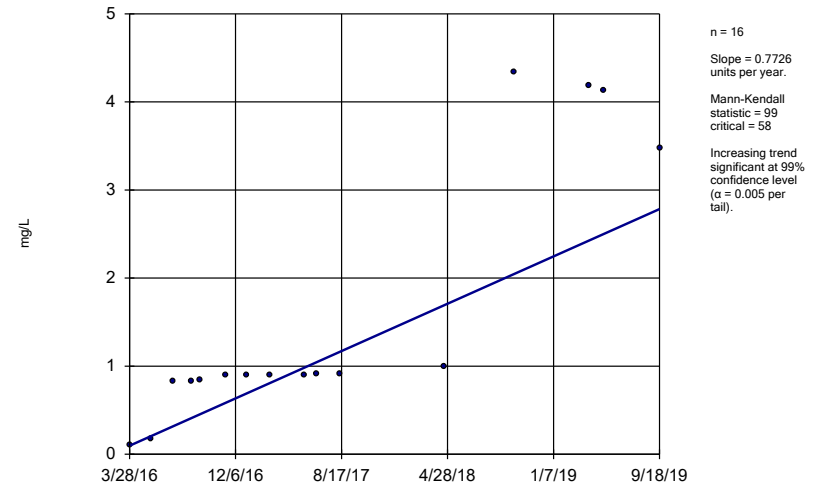


### Sen's Slope Estimator GN-AP-MW-12



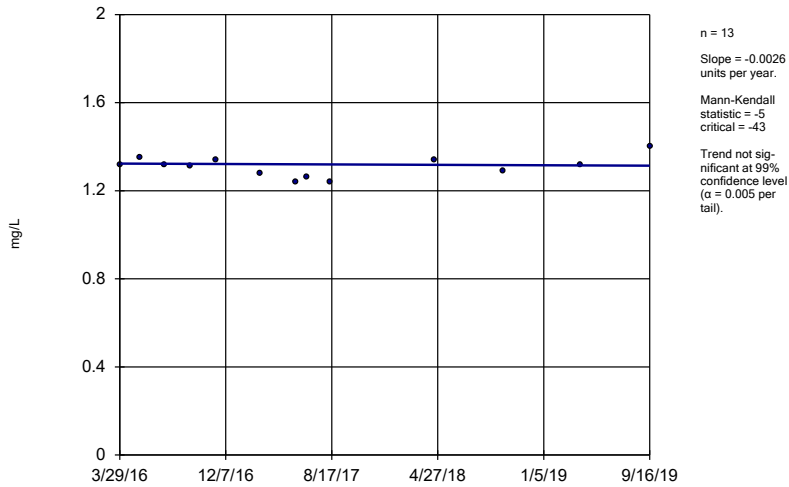
Constituent: Boron Analysis Run 1/17/2020 12:29 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator GN-AP-MW-15R



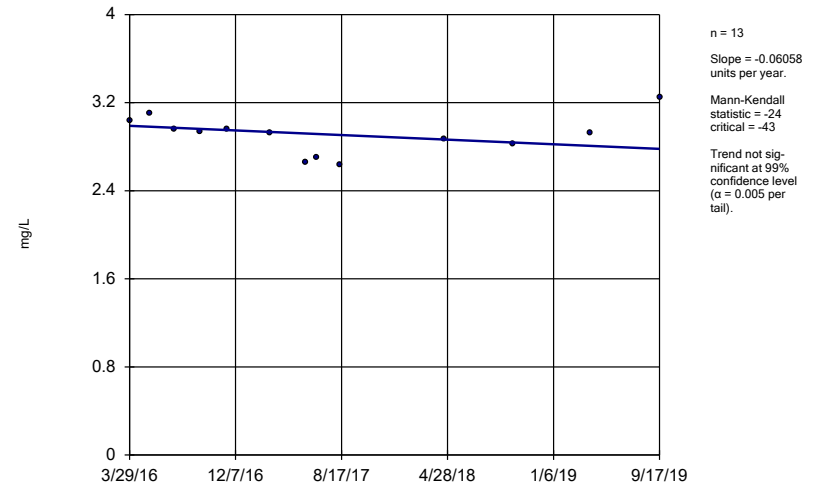
Constituent: Boron Analysis Run 1/17/2020 12:30 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator GN-AP-MW-16



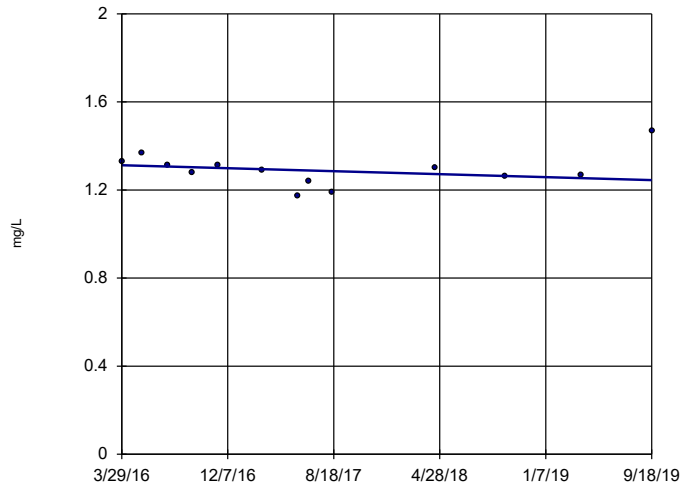
Constituent: Boron Analysis Run 1/17/2020 12:30 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator GN-AP-MW-17



Constituent: Boron Analysis Run 1/17/2020 12:30 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

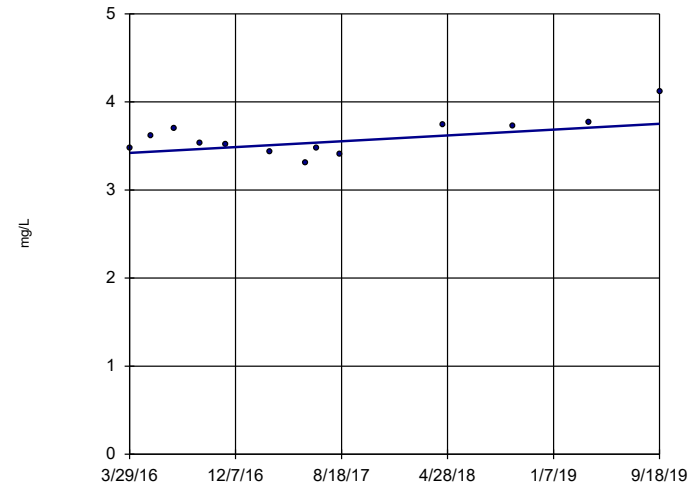
### Sen's Slope Estimator GN-AP-MW-18



n = 13  
 Slope = -0.01939  
 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 1/17/2020 12:30 PM View: Trend Test  
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

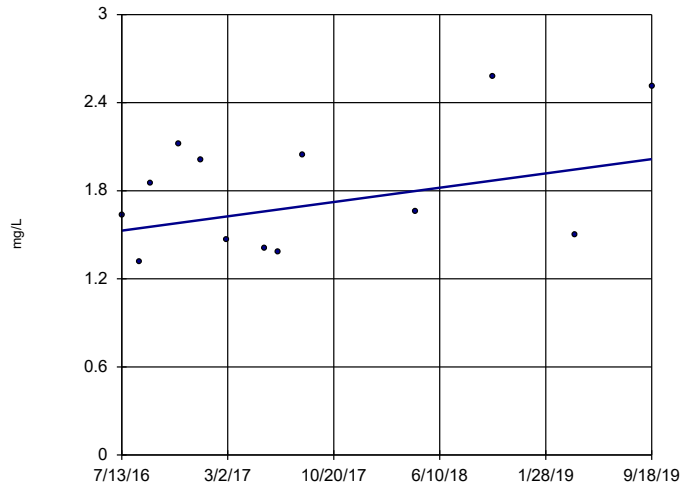
### Sen's Slope Estimator GN-AP-MW-20



n = 13  
 Slope = 0.09516  
 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 1/17/2020 12:30 PM View: Trend Test  
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

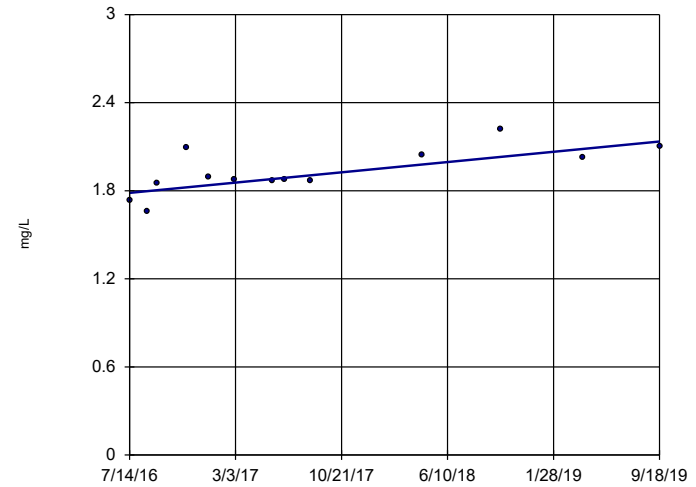
### Sen's Slope Estimator GN-AP-MW-21



n = 13  
 Slope = 0.1528  
 units per year.  
 Mann-Kendall  
 statistic = 18  
 critical = 43  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Boron Analysis Run 1/17/2020 12:30 PM View: Trend Test  
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator GN-AP-MW-22

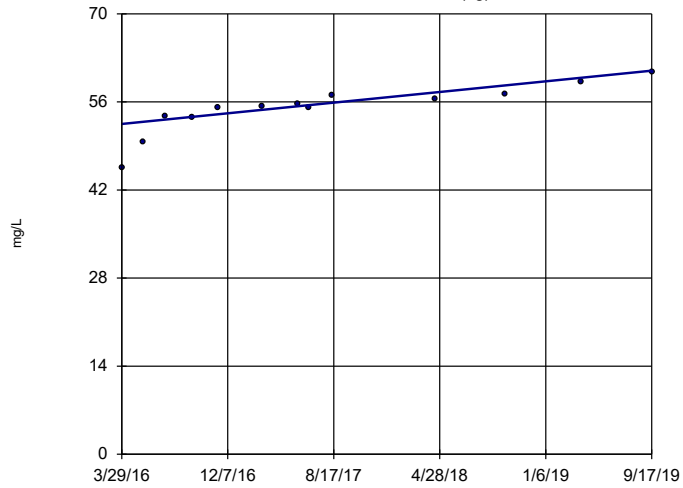


n = 13  
 Slope = 0.1101  
 units per year.  
 Mann-Kendall  
 statistic = 40  
 critical = 43  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Boron Analysis Run 1/17/2020 12:30 PM View: Trend Test  
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

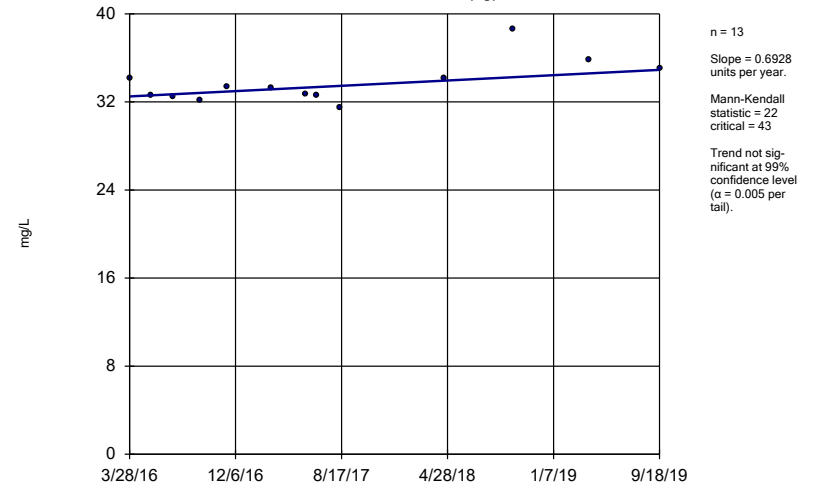
GN-AP-MW-1 (bg)



Constituent: Calcium Analysis Run 1/17/2020 12:30 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

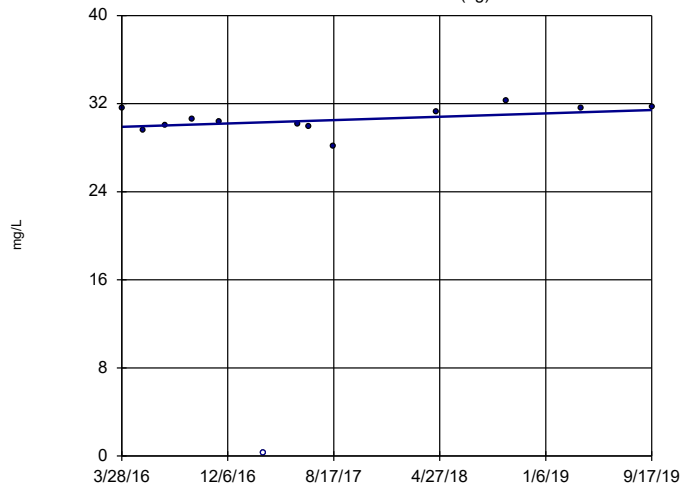
GN-AP-MW-2 (bg)



Constituent: Calcium Analysis Run 1/17/2020 12:30 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

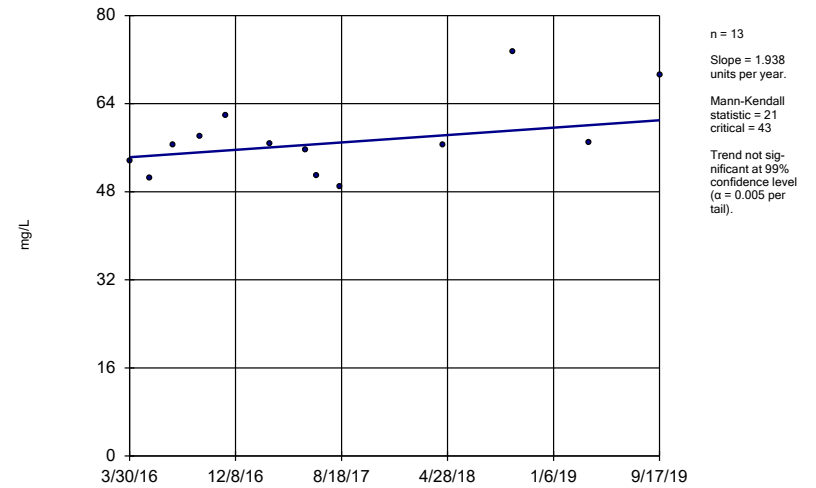
GN-AP-MW-3 (bg)



Constituent: Calcium Analysis Run 1/17/2020 12:30 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

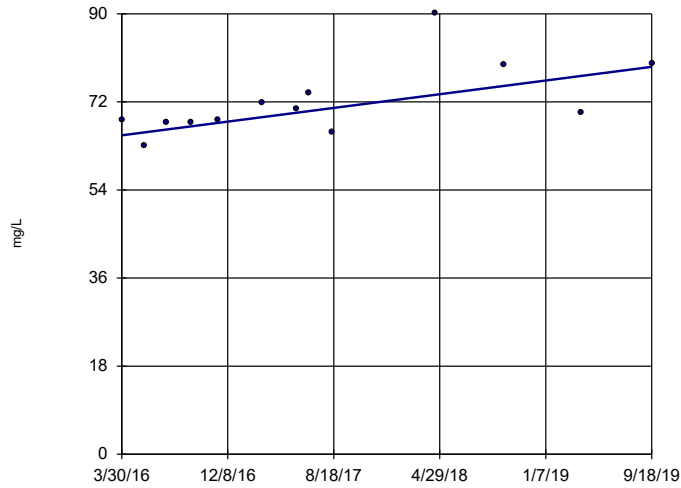
GN-AP-MW-4



Constituent: Calcium Analysis Run 1/17/2020 12:30 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

GN-AP-MW-5

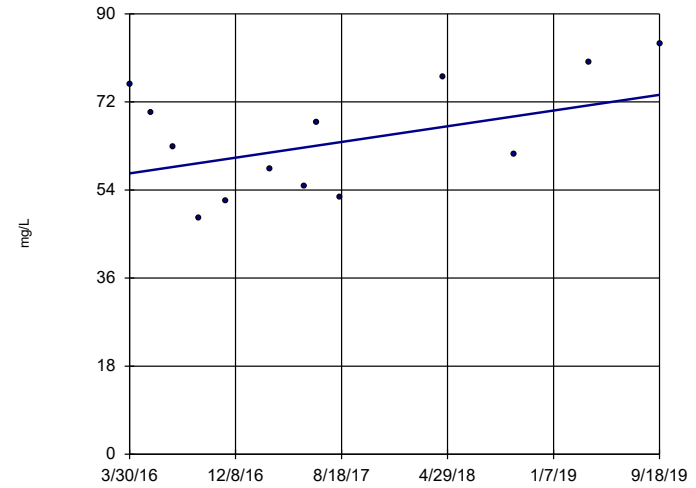


n = 13  
 Slope = 4.031 units per year.  
 Mann-Kendall statistic = 42  
 critical = 43  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/17/2020 12:30 PM View: Trend Test  
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

GN-AP-MW-6

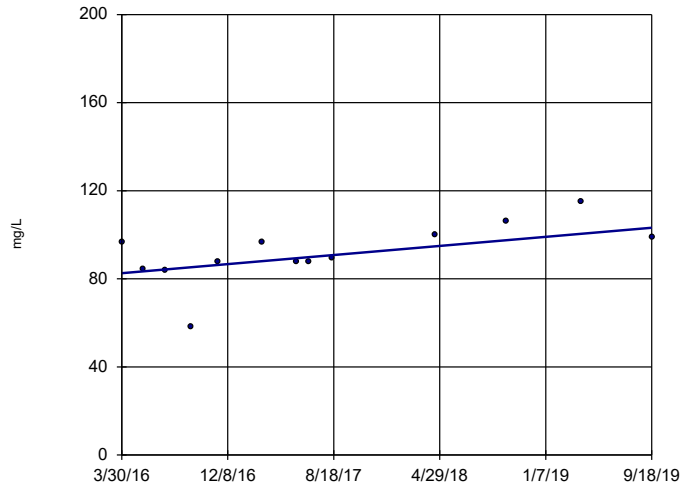


n = 13  
 Slope = 4.622 units per year.  
 Mann-Kendall statistic = 20  
 critical = 43  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/17/2020 12:30 PM View: Trend Test  
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

GN-AP-MW-7

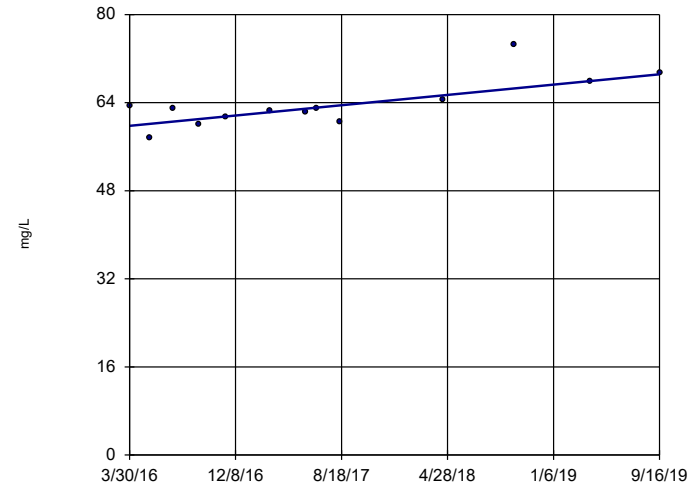


n = 13  
 Slope = 5.927 units per year.  
 Mann-Kendall statistic = 42  
 critical = 43  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/17/2020 12:30 PM View: Trend Test  
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

GN-AP-MW-12



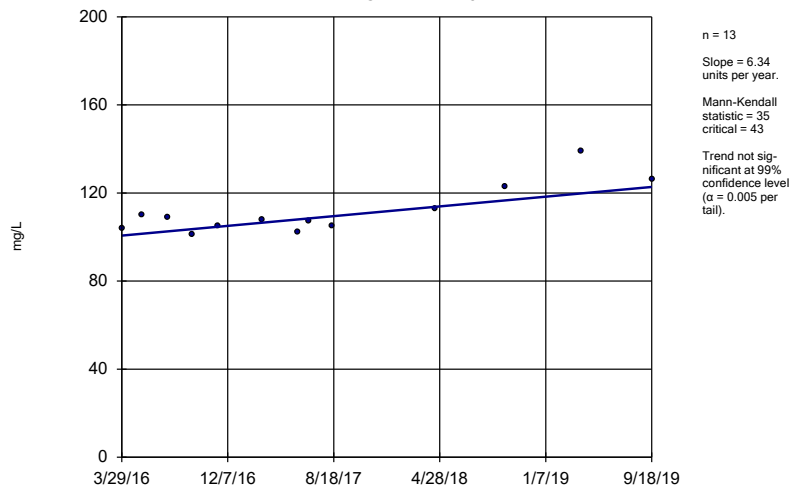
n = 13  
 Slope = 2.7 units per year.  
 Mann-Kendall statistic = 38  
 critical = 43  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/17/2020 12:30 PM View: Trend Test  
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond



Sen's Slope Estimator

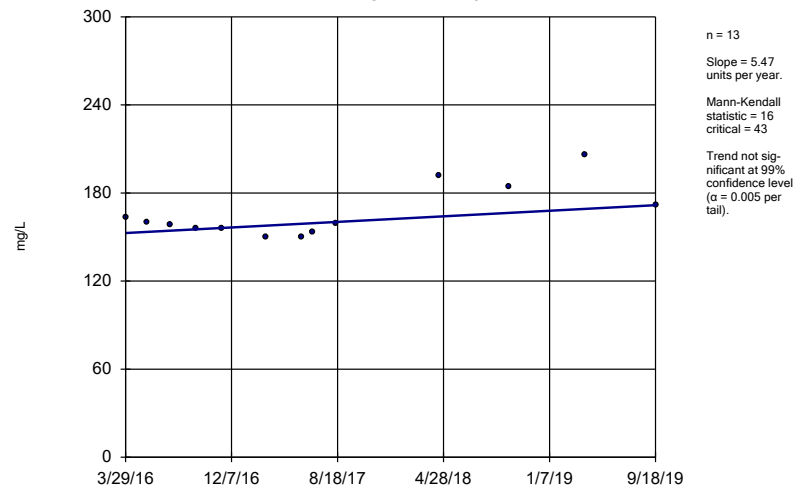
GN-AP-MW-18



Constituent: Calcium Analysis Run 1/17/2020 12:30 PM View: Trend Test  
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

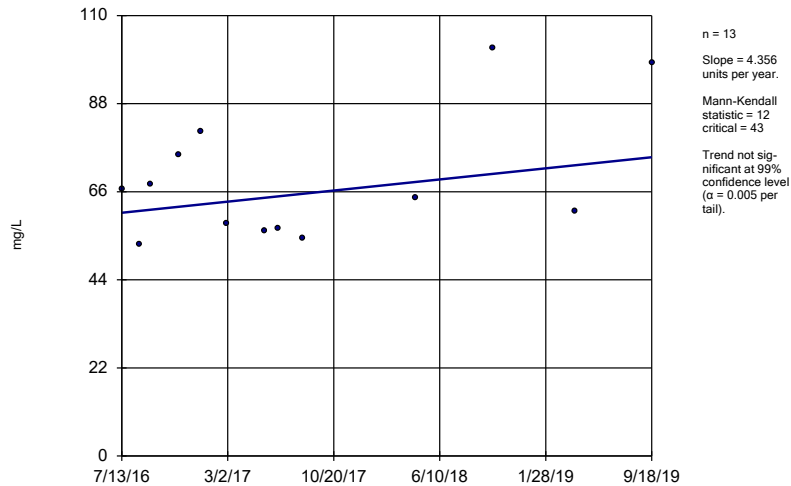
GN-AP-MW-20



Constituent: Calcium Analysis Run 1/17/2020 12:30 PM View: Trend Test  
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

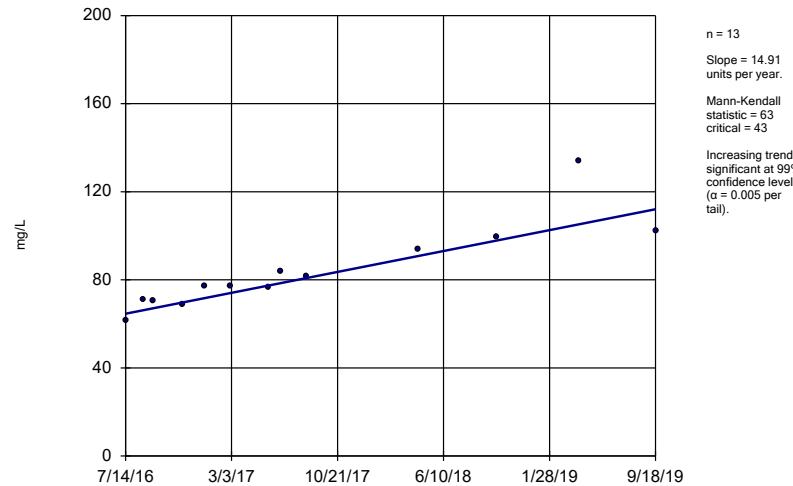
GN-AP-MW-21



Constituent: Calcium Analysis Run 1/17/2020 12:30 PM View: Trend Test  
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

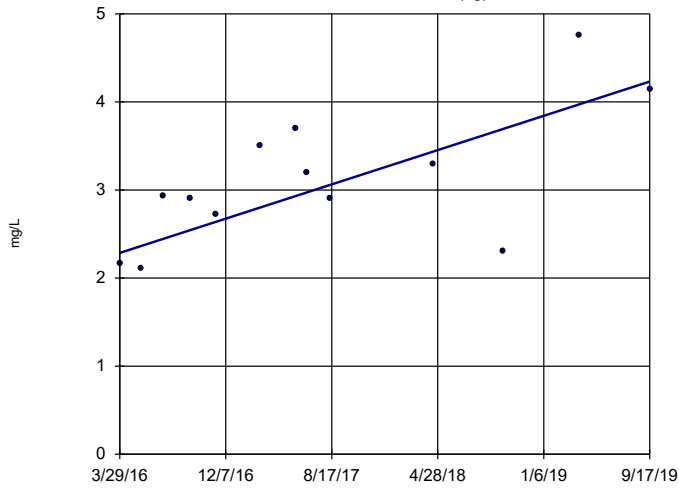
GN-AP-MW-22



Constituent: Calcium Analysis Run 1/17/2020 12:30 PM View: Trend Test  
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

GN-AP-MW-1 (bg)

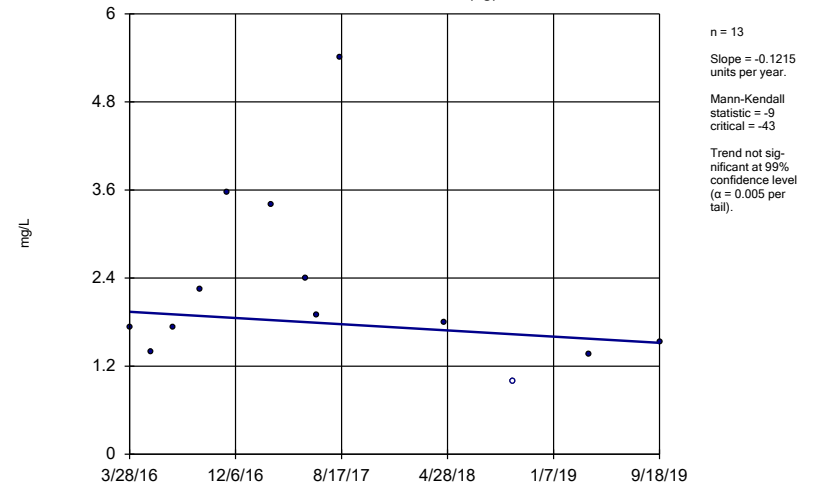


Constituent: Chloride Analysis Run 1/17/2020 12:30 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Hollow symbols indicate censored values.

### Sen's Slope Estimator

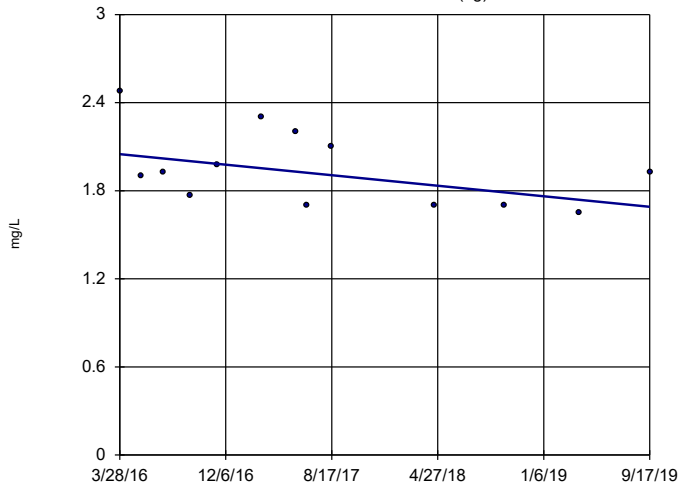
GN-AP-MW-2 (bg)



Constituent: Chloride Analysis Run 1/17/2020 12:30 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

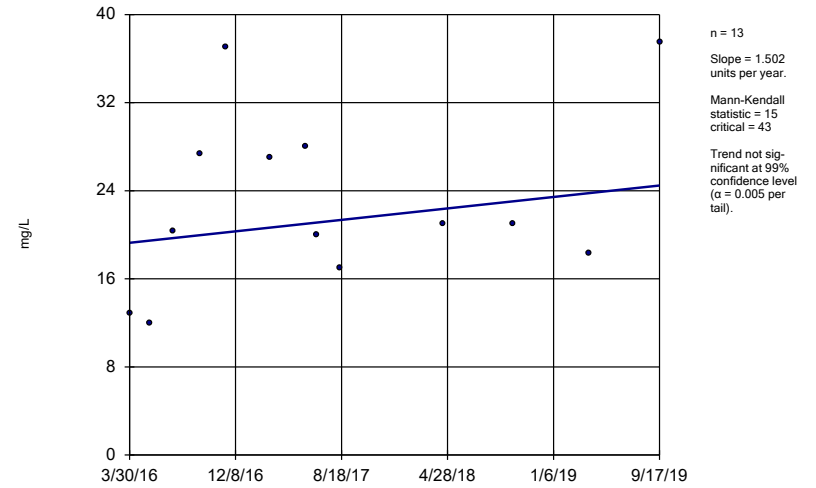
GN-AP-MW-3 (bg)



Constituent: Chloride Analysis Run 1/17/2020 12:30 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

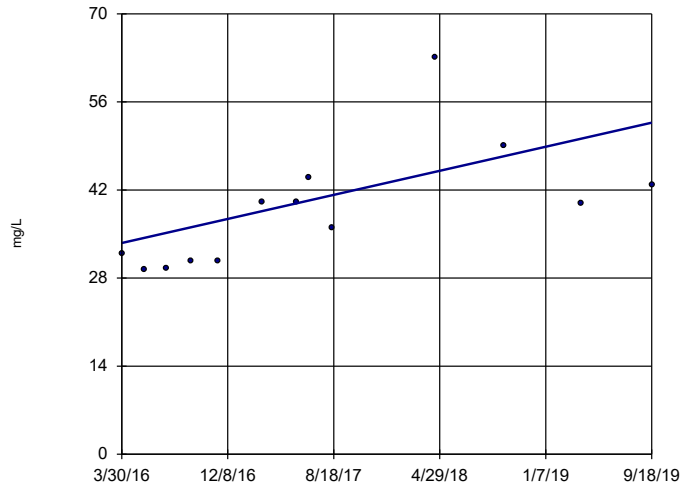
GN-AP-MW-4



Constituent: Chloride Analysis Run 1/17/2020 12:30 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

GN-AP-MW-5

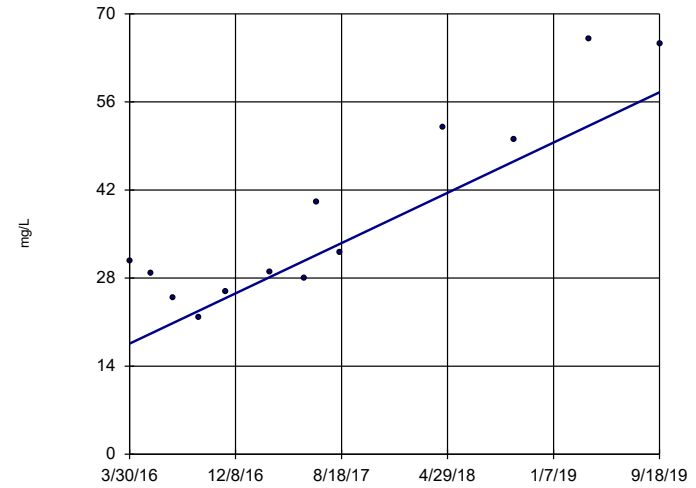


n = 13  
 Slope = 5.507  
 units per year.  
 Mann-Kendall  
 statistic = 43  
 critical = 43  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 1/17/2020 12:30 PM View: Trend Test  
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

GN-AP-MW-6

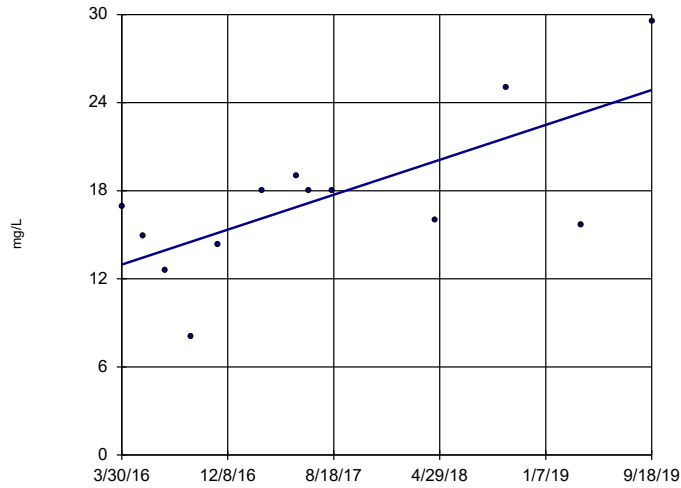


n = 13  
 Slope = 11.51  
 units per year.  
 Mann-Kendall  
 statistic = 48  
 critical = 43  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 1/17/2020 12:31 PM View: Trend Test  
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

GN-AP-MW-7

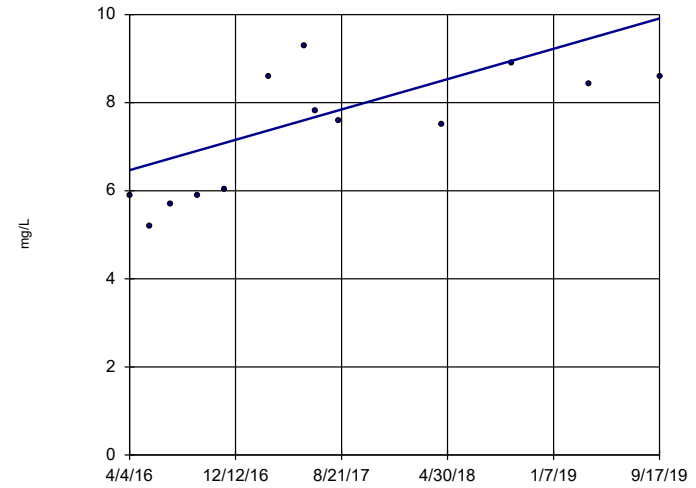


n = 13  
 Slope = 3.425  
 units per year.  
 Mann-Kendall  
 statistic = 31  
 critical = 43  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 1/17/2020 12:31 PM View: Trend Test  
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

GN-AP-MW-9



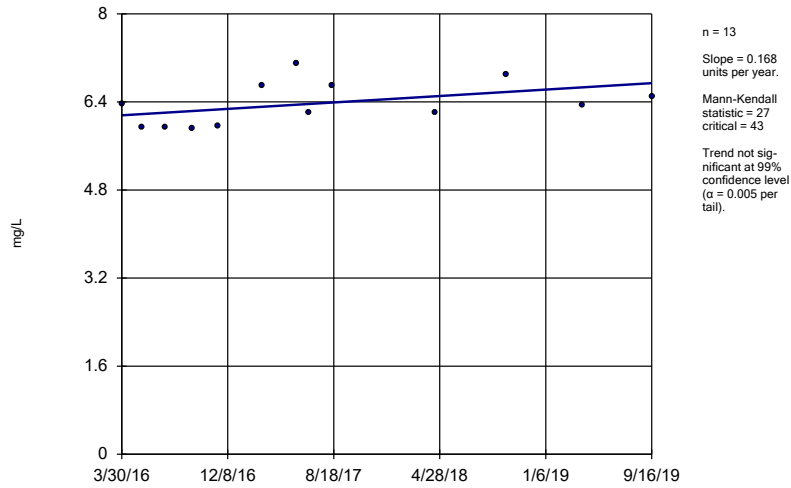
n = 13  
 Slope = 0.9965  
 units per year.  
 Mann-Kendall  
 statistic = 40  
 critical = 43  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 1/17/2020 12:31 PM View: Trend Test  
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond



### Sen's Slope Estimator

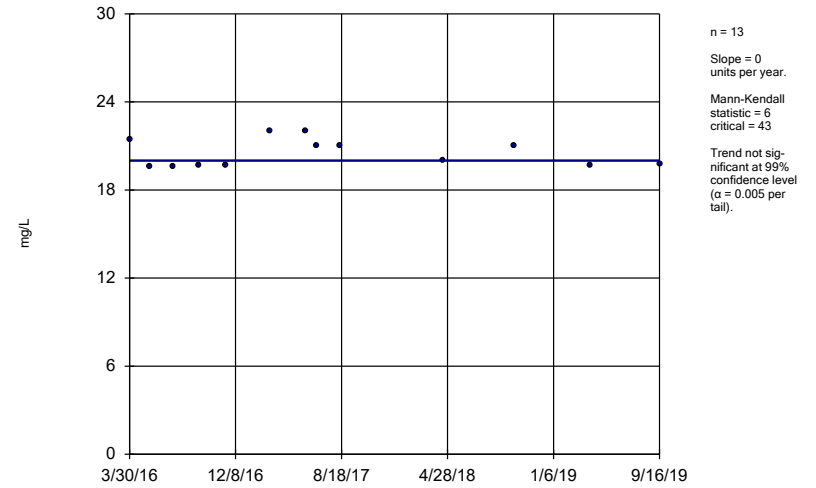
GN-AP-MW-11



Constituent: Chloride Analysis Run 1/17/2020 12:31 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

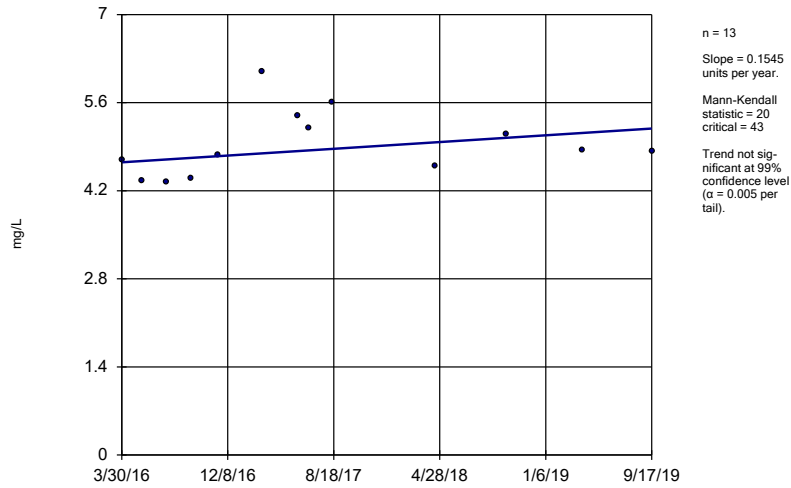
GN-AP-MW-12



Constituent: Chloride Analysis Run 1/17/2020 12:31 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

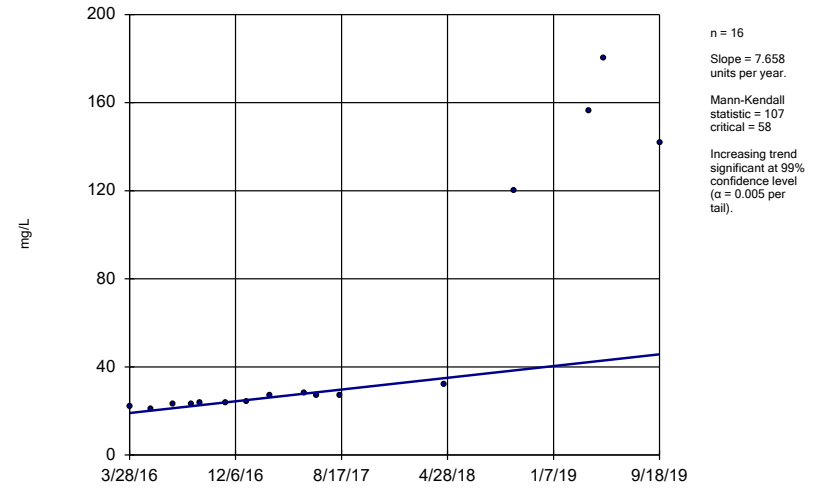
GN-AP-MW-13



Constituent: Chloride Analysis Run 1/17/2020 12:31 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

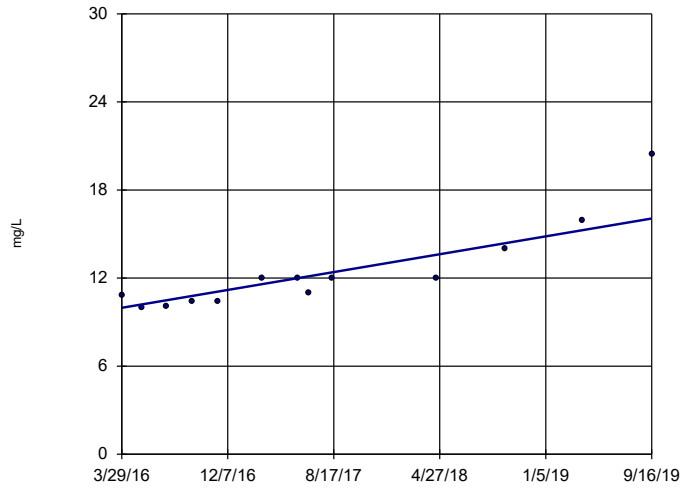
### Sen's Slope Estimator

GN-AP-MW-15R



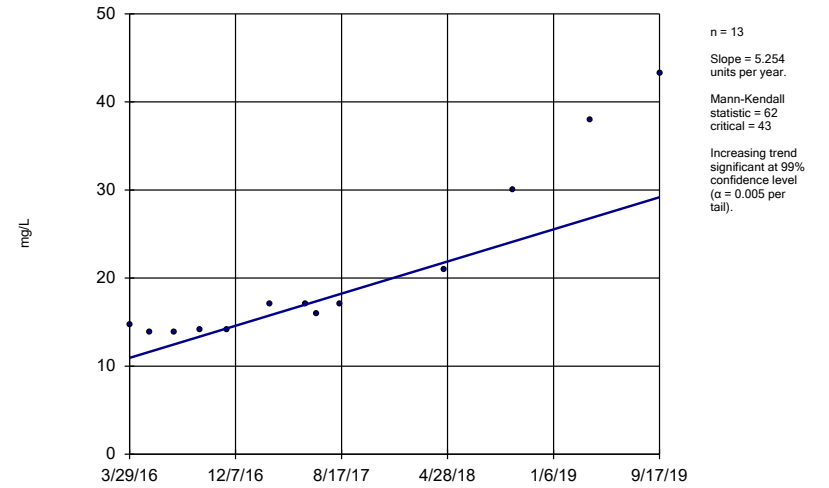
Constituent: Chloride Analysis Run 1/17/2020 12:31 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator GN-AP-MW-16



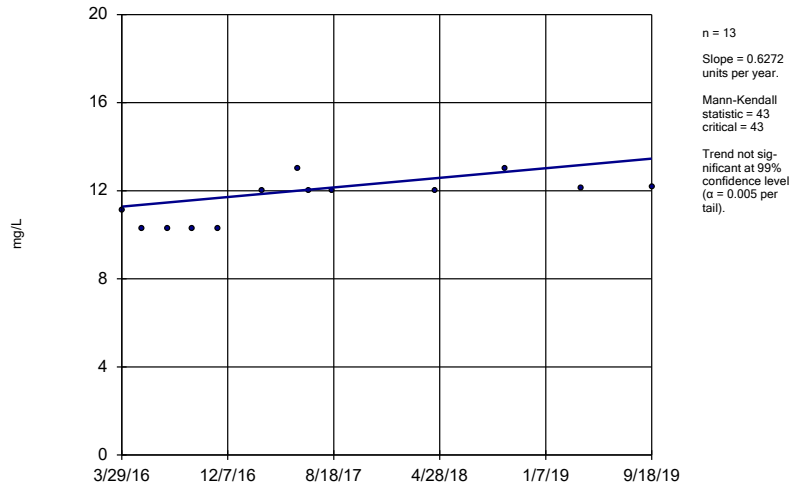
Constituent: Chloride Analysis Run 1/17/2020 12:31 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator GN-AP-MW-17



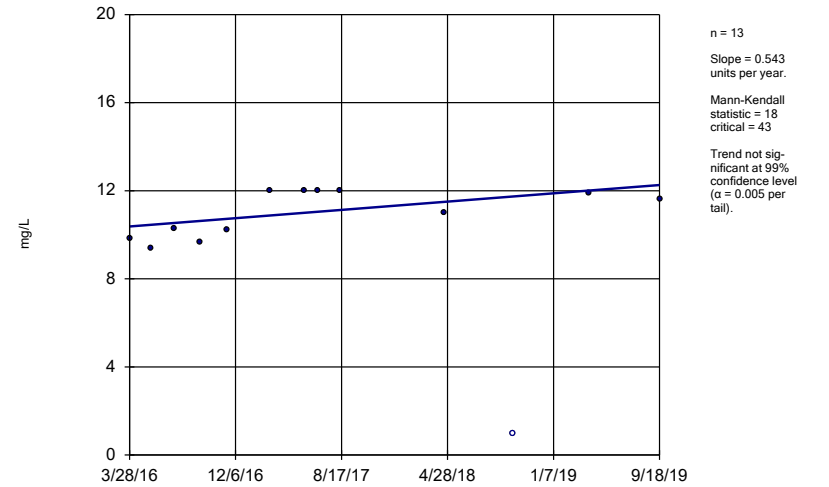
Constituent: Chloride Analysis Run 1/17/2020 12:31 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator GN-AP-MW-18



Constituent: Chloride Analysis Run 1/17/2020 12:31 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

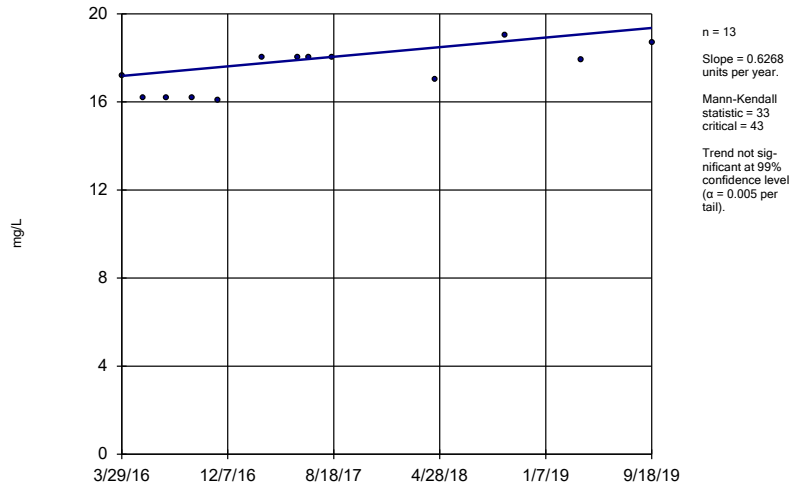
### Sen's Slope Estimator GN-AP-MW-19



Constituent: Chloride Analysis Run 1/17/2020 12:31 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

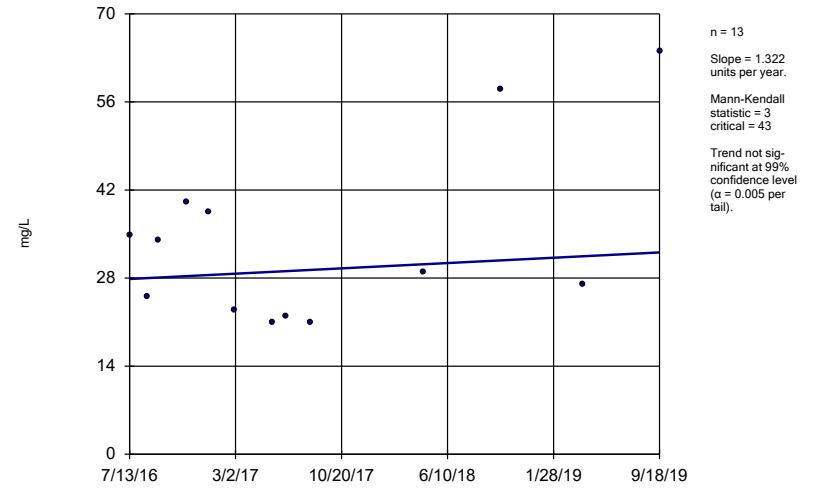
GN-AP-MW-20



Constituent: Chloride Analysis Run 1/17/2020 12:31 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

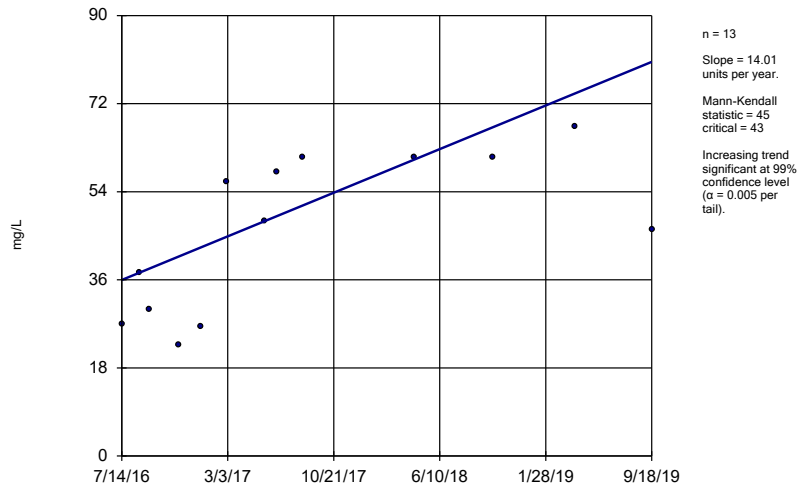
GN-AP-MW-21



Constituent: Chloride Analysis Run 1/17/2020 12:31 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

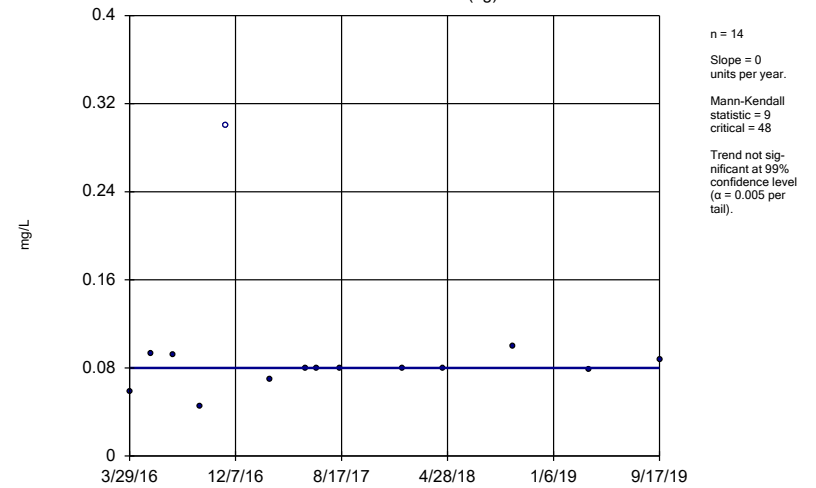
GN-AP-MW-22



Constituent: Chloride Analysis Run 1/17/2020 12:31 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

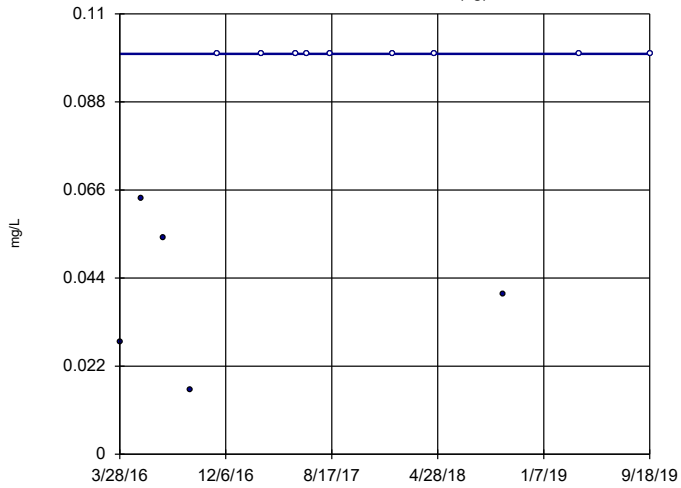
GN-AP-MW-1 (bg)



Constituent: Fluoride Analysis Run 1/17/2020 12:31 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

GN-AP-MW-2 (bg)

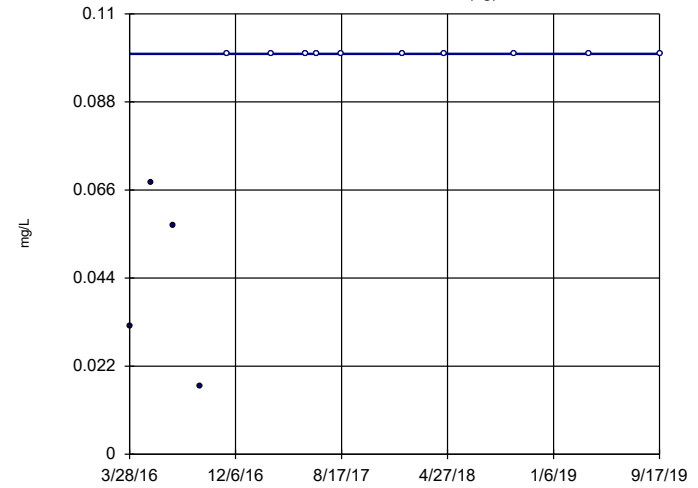


n = 14  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 29  
critical = 48  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Fluoride Analysis Run 1/17/2020 12:31 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

GN-AP-MW-3 (bg)

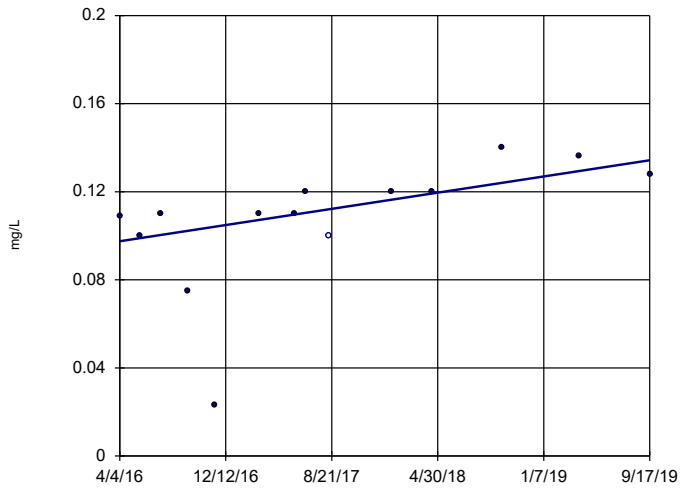


n = 14  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 38  
critical = 48  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Fluoride Analysis Run 1/17/2020 12:31 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

GN-AP-MW-9

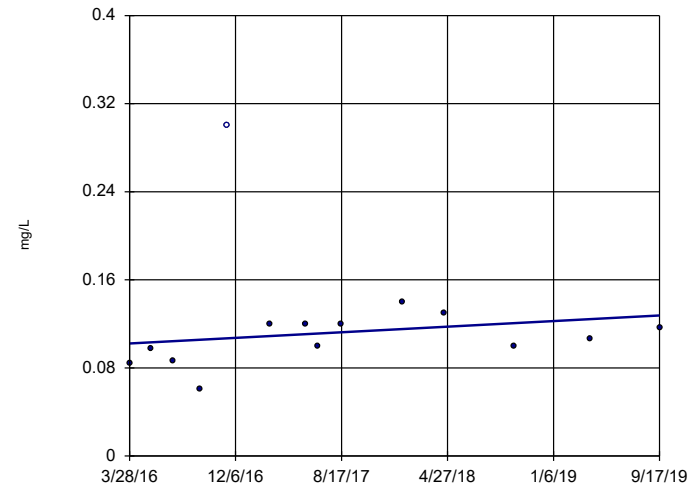


n = 14  
Slope = 0.01064  
units per year.  
Mann-Kendall  
statistic = 52  
critical = 48  
Increasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Fluoride Analysis Run 1/17/2020 12:31 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

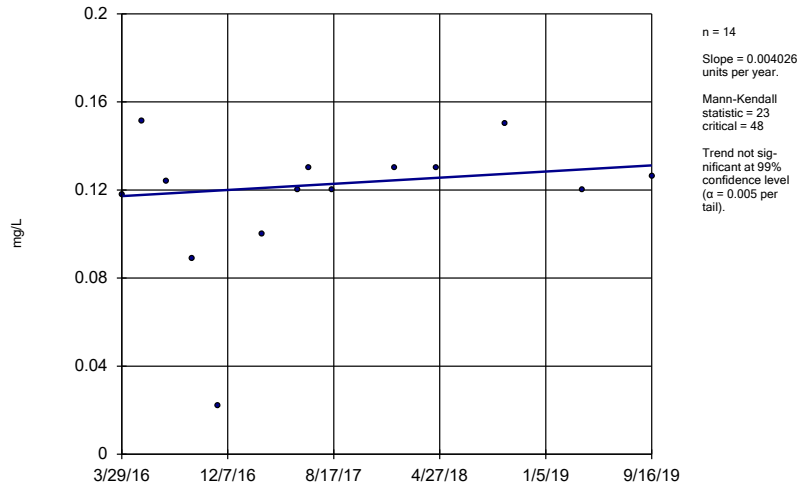
GN-AP-MW-14



n = 14  
Slope = 0.007329  
units per year.  
Mann-Kendall  
statistic = 25  
critical = 48  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

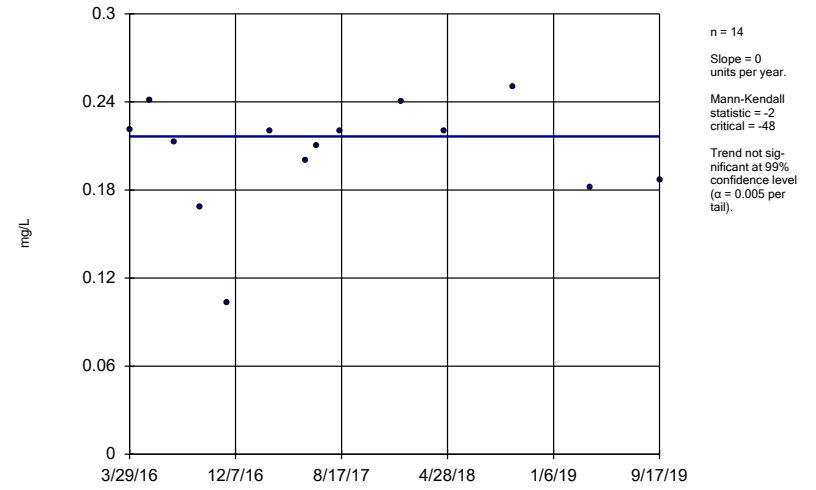
Constituent: Fluoride Analysis Run 1/17/2020 12:31 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator GN-AP-MW-16



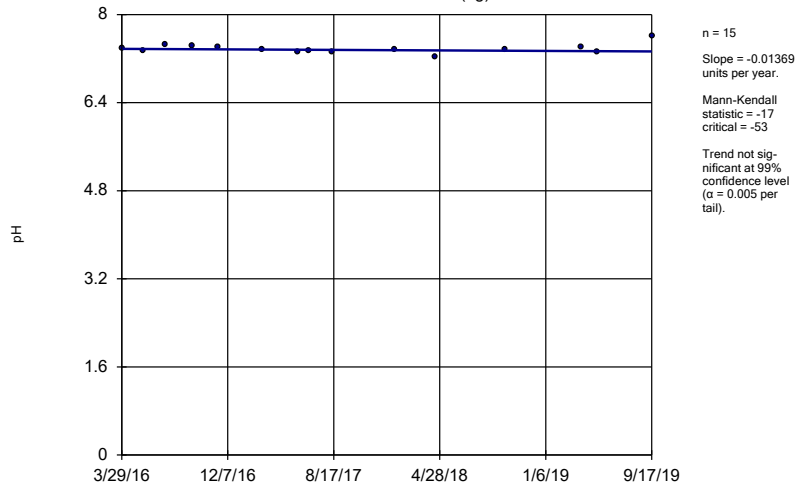
Constituent: Fluoride Analysis Run 1/17/2020 12:31 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator GN-AP-MW-17



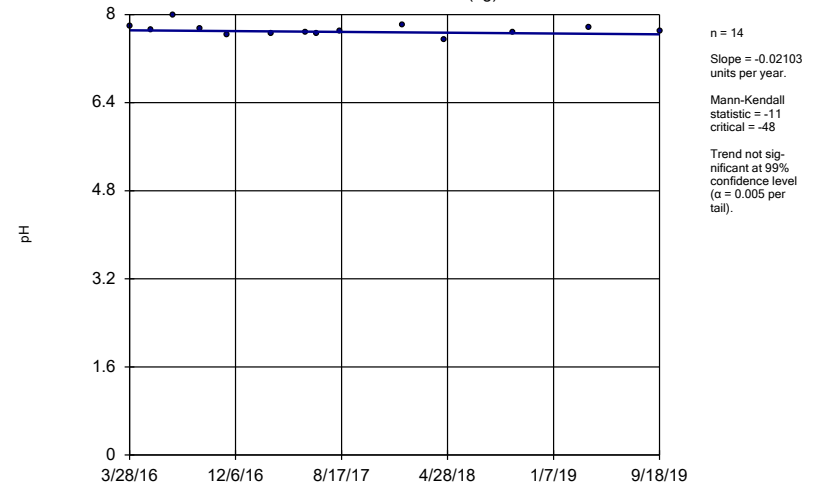
Constituent: Fluoride Analysis Run 1/17/2020 12:31 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator GN-AP-MW-1 (bg)



Constituent: pH Analysis Run 1/17/2020 12:31 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

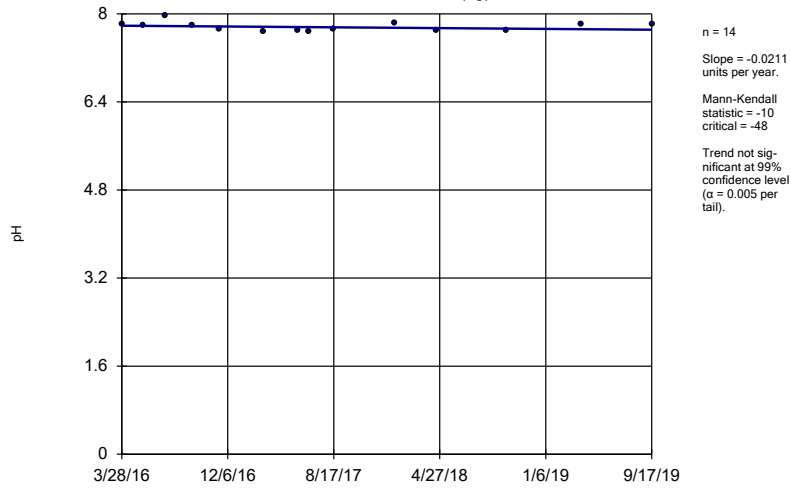
### Sen's Slope Estimator GN-AP-MW-2 (bg)



Constituent: pH Analysis Run 1/17/2020 12:31 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

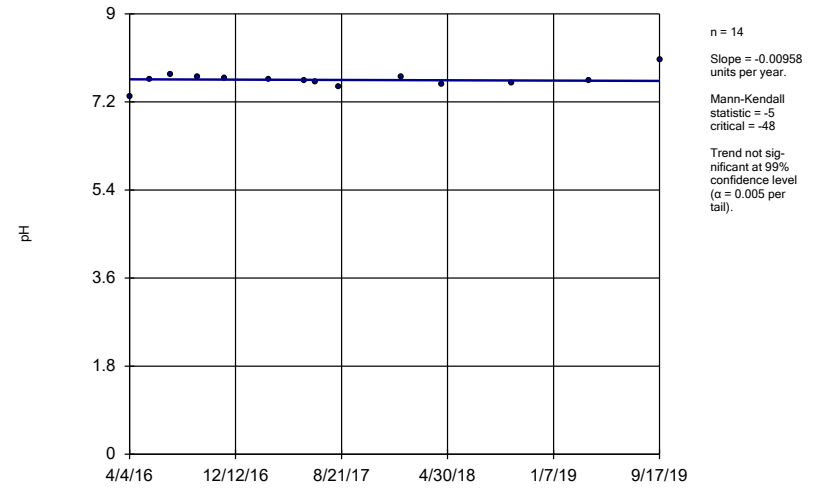
GN-AP-MW-3 (bg)



Constituent: pH Analysis Run 1/17/2020 12:31 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

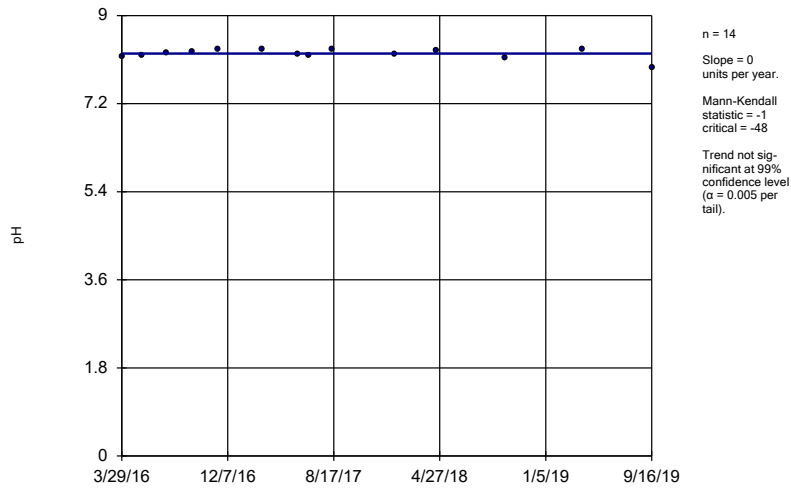
GN-AP-MW-9



Constituent: pH Analysis Run 1/17/2020 12:31 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

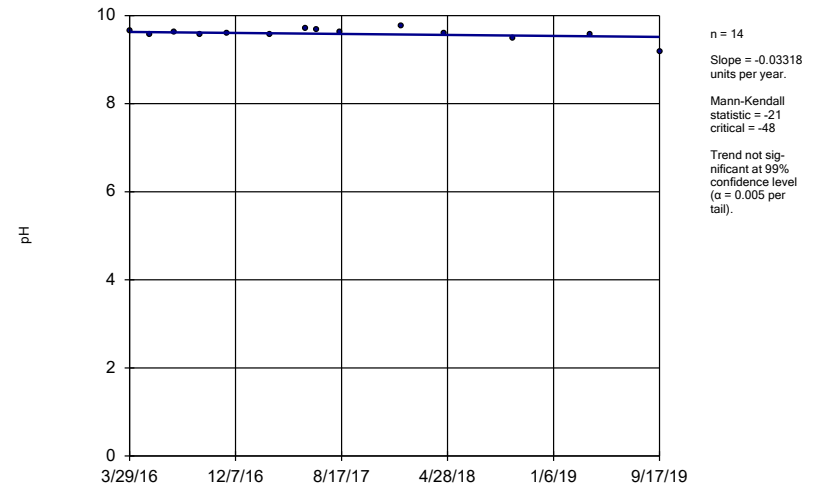
GN-AP-MW-16



Constituent: pH Analysis Run 1/17/2020 12:31 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

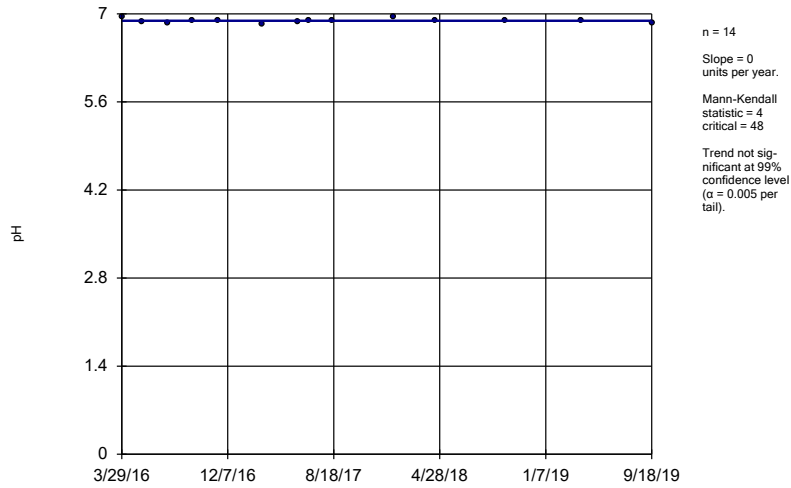
GN-AP-MW-17



Constituent: pH Analysis Run 1/17/2020 12:31 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

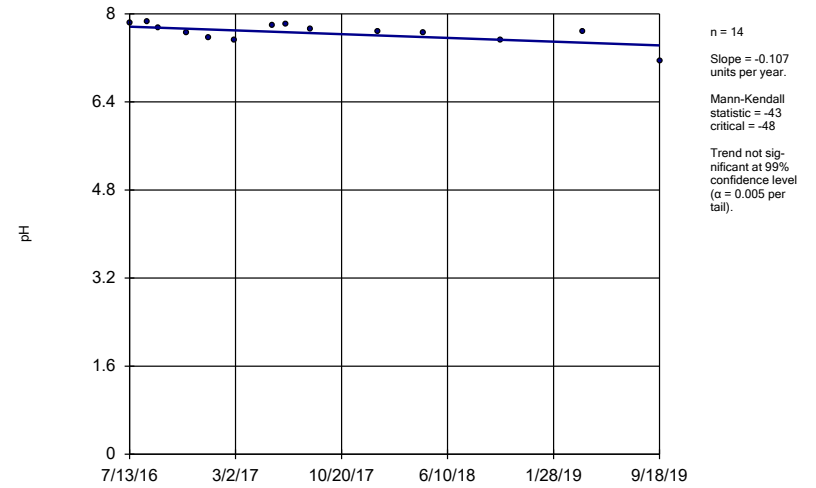
GN-AP-MW-18



Constituent: pH Analysis Run 1/17/2020 12:31 PM View: Trend Test  
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

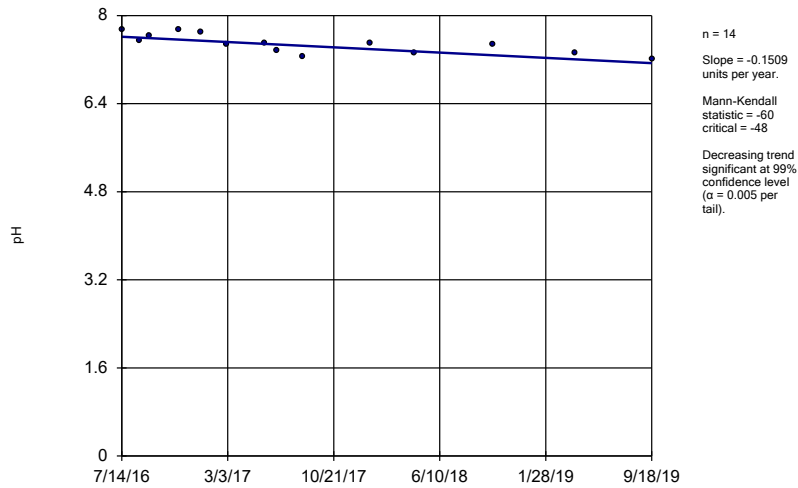
GN-AP-MW-21



Constituent: pH Analysis Run 1/17/2020 12:31 PM View: Trend Test  
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

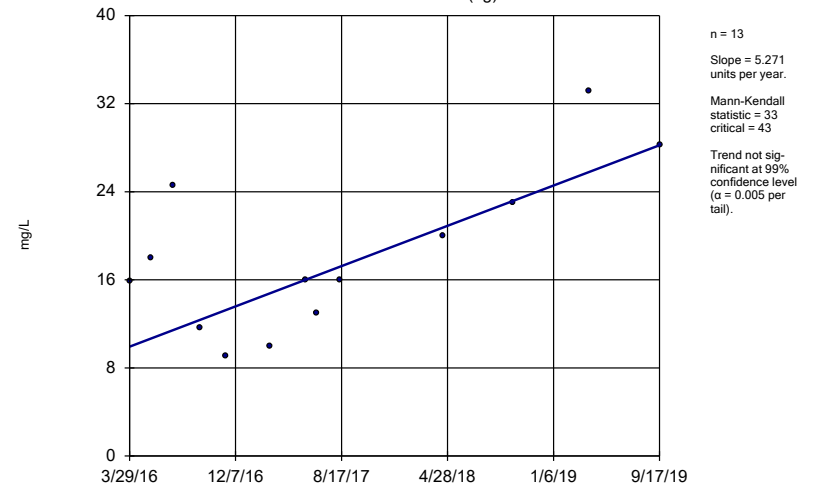
GN-AP-MW-22



Constituent: pH Analysis Run 1/17/2020 12:31 PM View: Trend Test  
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

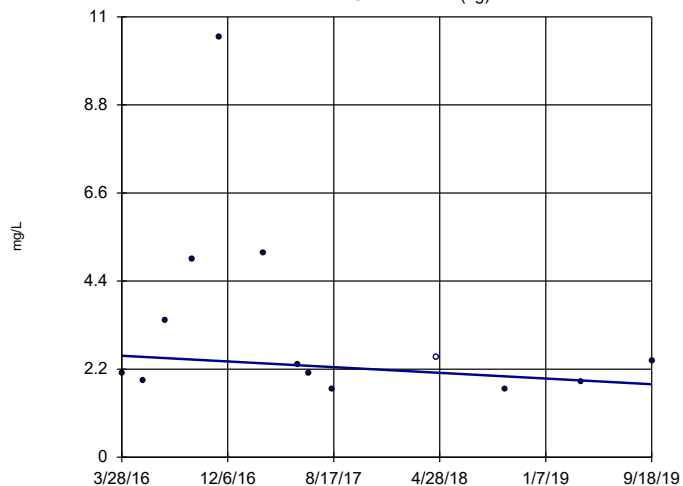
GN-AP-MW-1 (bg)



Constituent: Sulfate Analysis Run 1/17/2020 12:31 PM View: Trend Test  
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

GN-AP-MW-2 (bg)

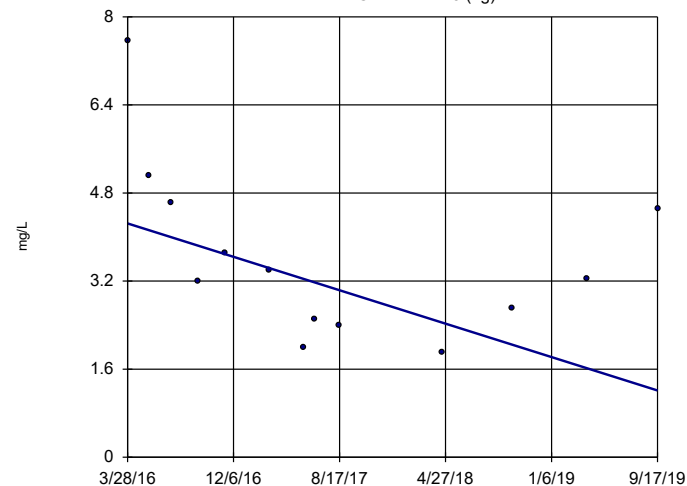


n = 13  
Slope = -0.2042  
units per year.  
Mann-Kendall  
statistic = -15  
critical = -43  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate Analysis Run 1/17/2020 12:32 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

GN-AP-MW-3 (bg)

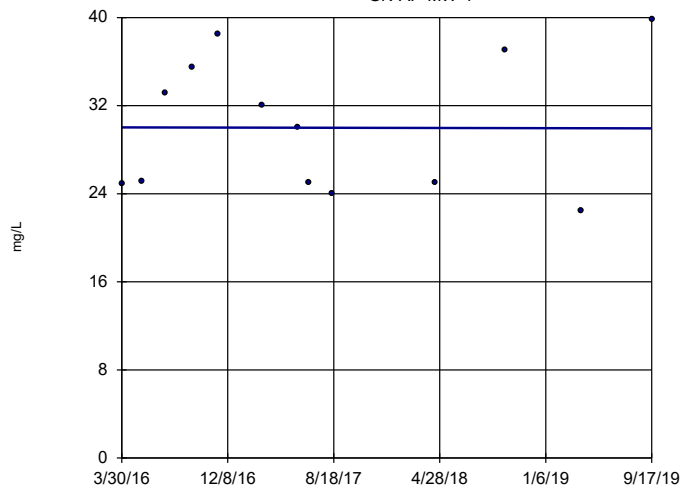


n = 13  
Slope = -0.8731  
units per year.  
Mann-Kendall  
statistic = -32  
critical = -43  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate Analysis Run 1/17/2020 12:32 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

GN-AP-MW-4

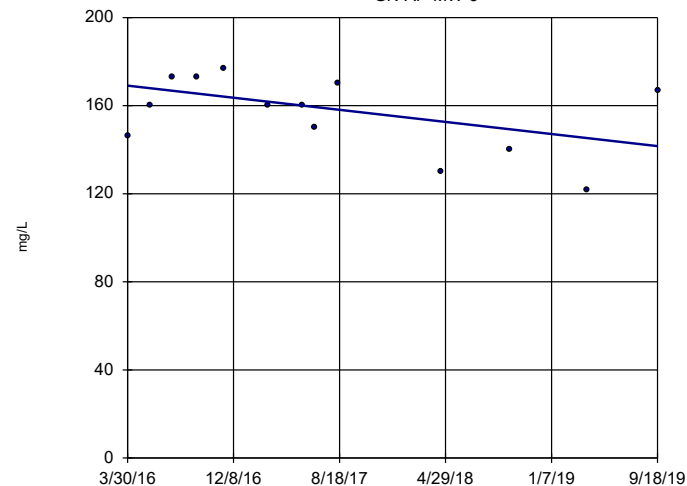


n = 13  
Slope = -0.026  
units per year.  
Mann-Kendall  
statistic = -1  
critical = -43  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate Analysis Run 1/17/2020 12:32 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

GN-AP-MW-5



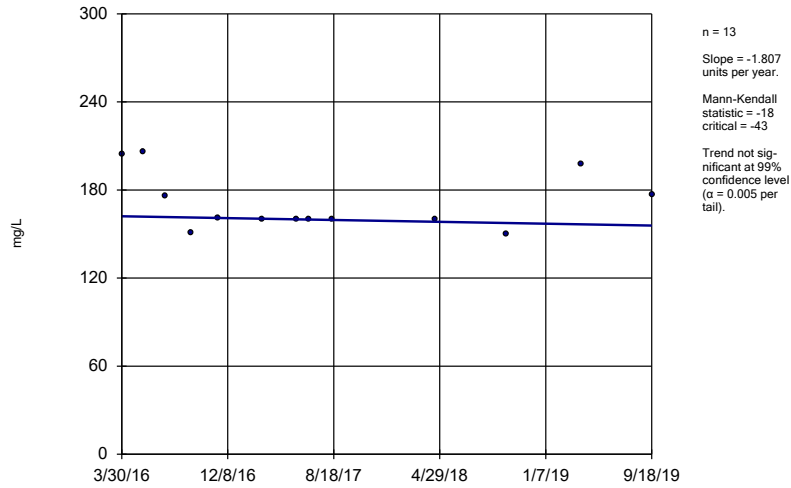
n = 13  
Slope = -7.893  
units per year.  
Mann-Kendall  
statistic = -22  
critical = -43  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate Analysis Run 1/17/2020 12:32 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond



### Sen's Slope Estimator

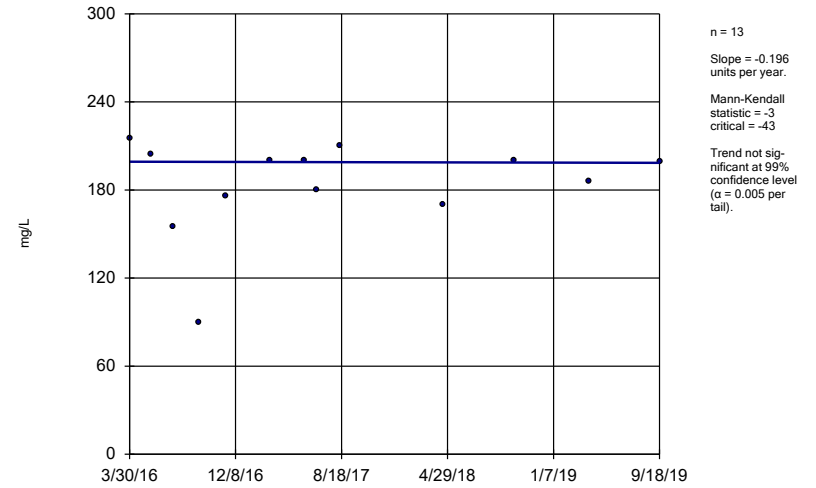
GN-AP-MW-6



Constituent: Sulfate Analysis Run 1/17/2020 12:32 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

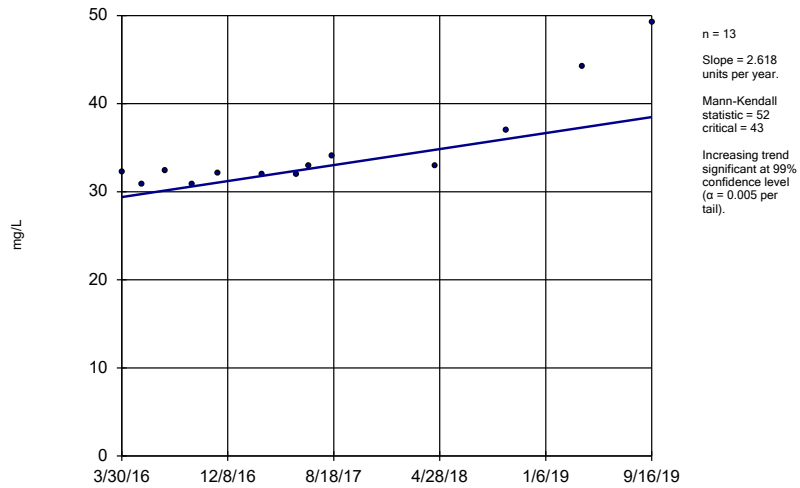
GN-AP-MW-7



Constituent: Sulfate Analysis Run 1/17/2020 12:32 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

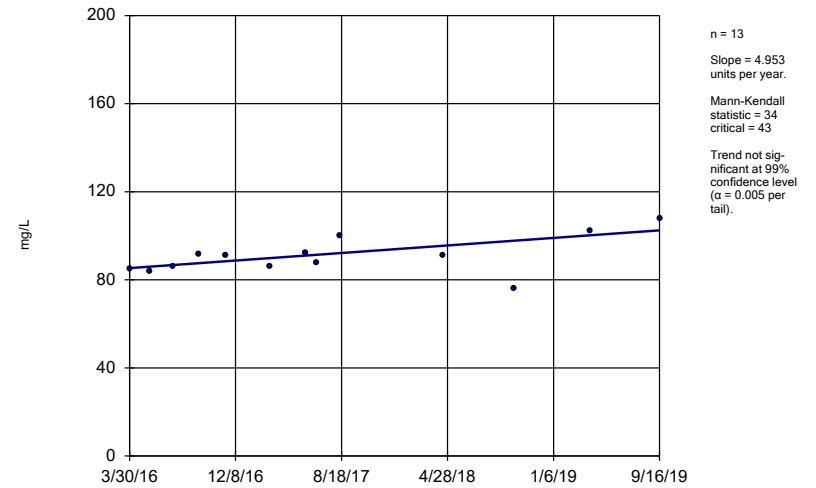
GN-AP-MW-11



Constituent: Sulfate Analysis Run 1/17/2020 12:32 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

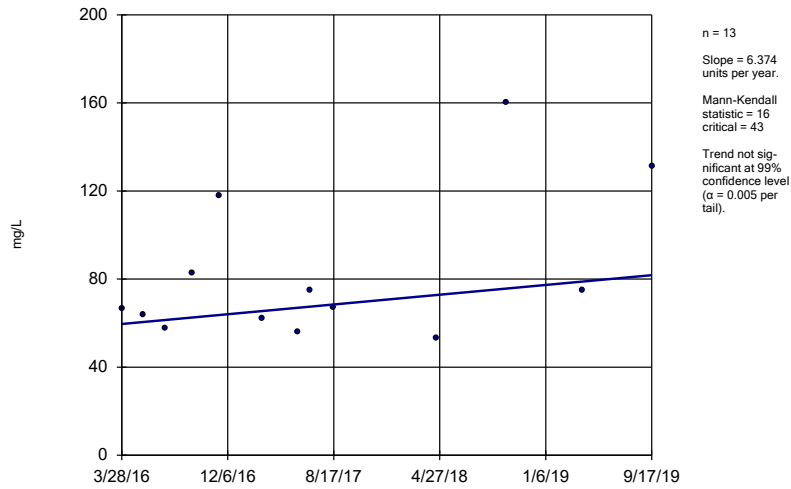
GN-AP-MW-12



Constituent: Sulfate Analysis Run 1/17/2020 12:32 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

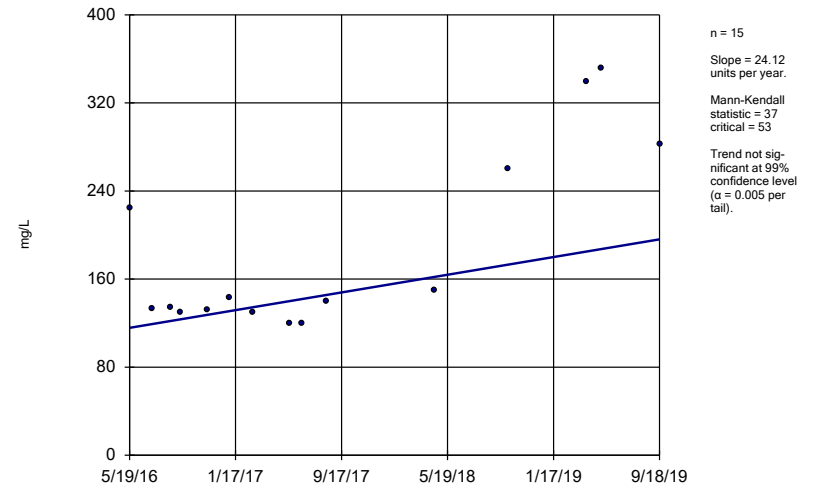
GN-AP-MW-14



Constituent: Sulfate Analysis Run 1/17/2020 12:32 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

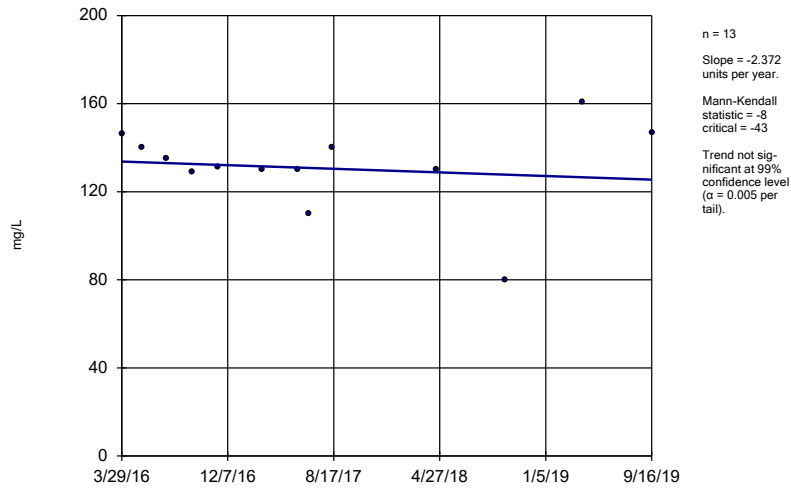
GN-AP-MW-15R



Constituent: Sulfate Analysis Run 1/17/2020 12:32 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

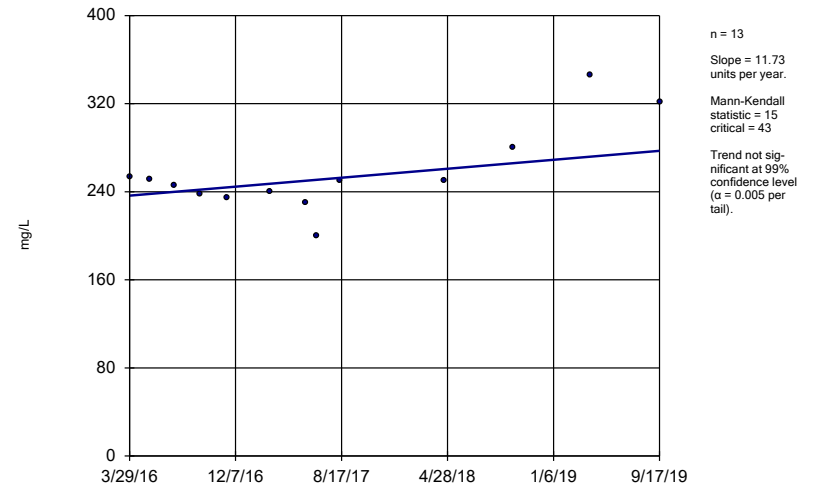
GN-AP-MW-16



Constituent: Sulfate Analysis Run 1/17/2020 12:32 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

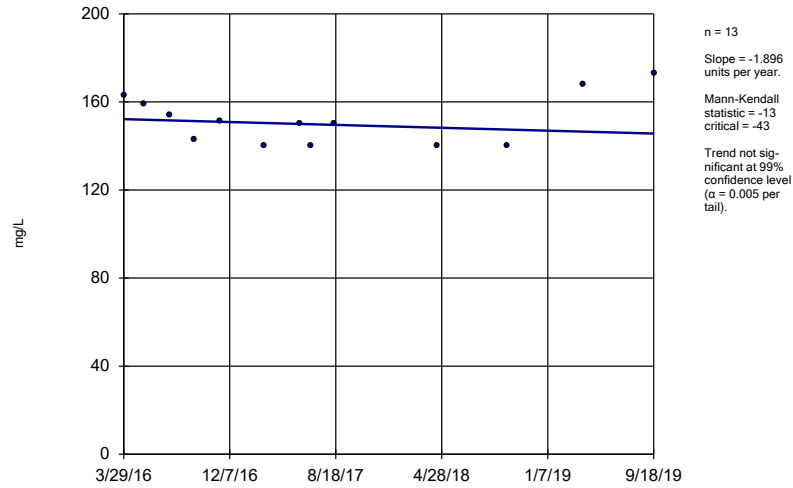
GN-AP-MW-17



Constituent: Sulfate Analysis Run 1/17/2020 12:32 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

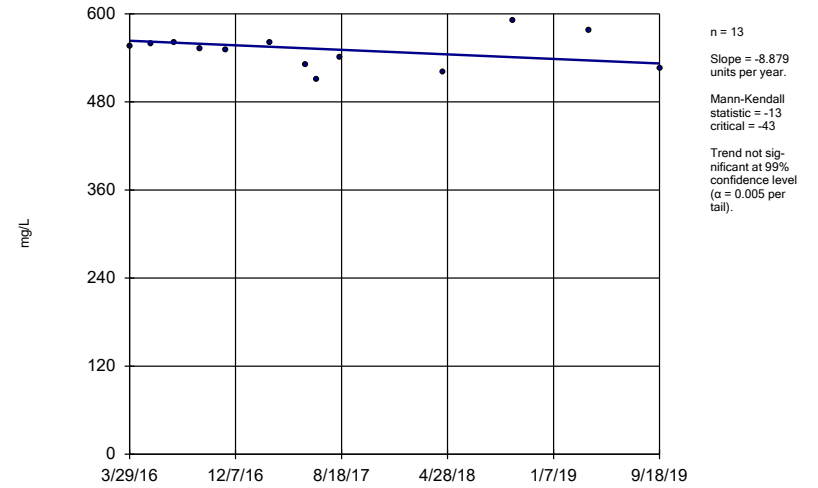
GN-AP-MW-18



Constituent: Sulfate Analysis Run 1/17/2020 12:32 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

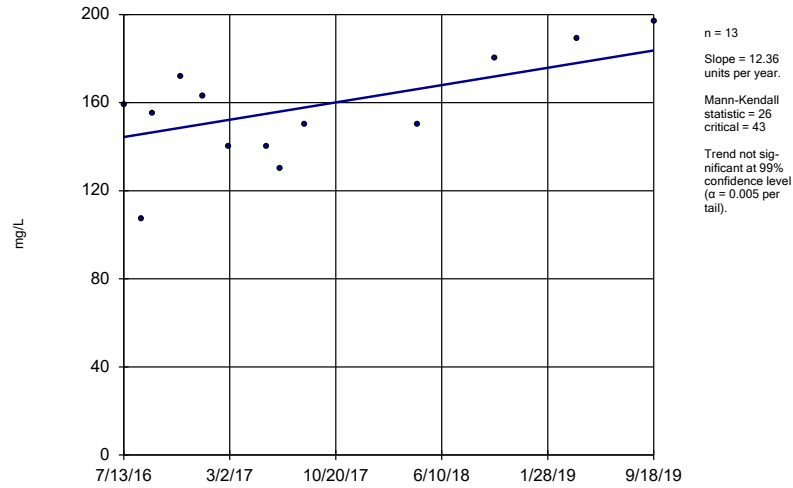
GN-AP-MW-20



Constituent: Sulfate Analysis Run 1/17/2020 12:32 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

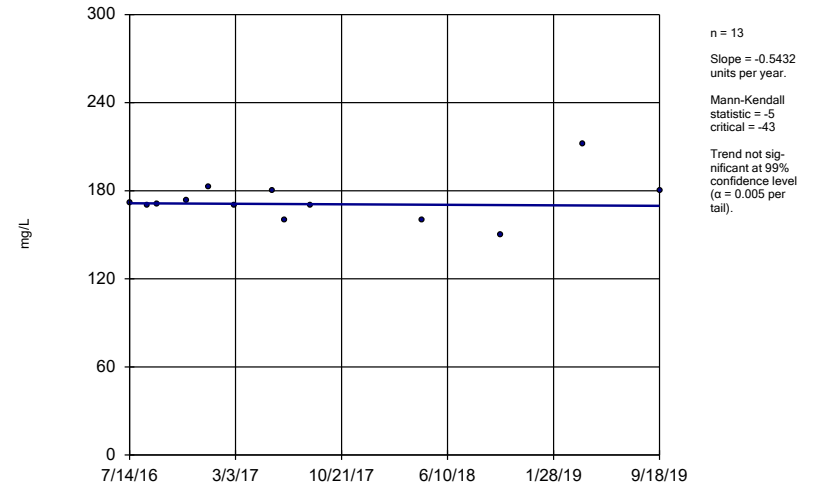
GN-AP-MW-21



Constituent: Sulfate Analysis Run 1/17/2020 12:32 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

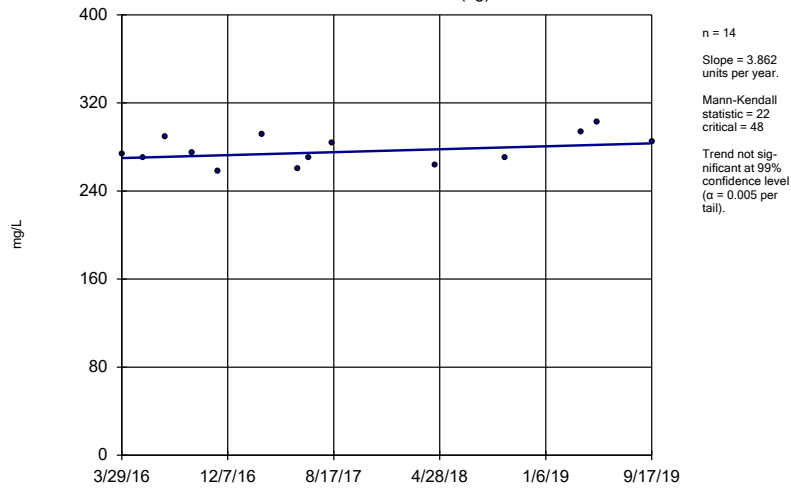
GN-AP-MW-22



Constituent: Sulfate Analysis Run 1/17/2020 12:32 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

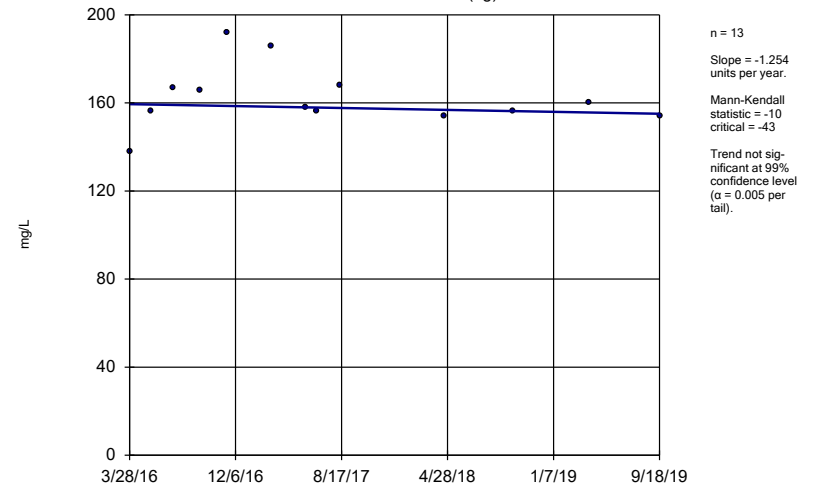
GN-AP-MW-1 (bg)



Constituent: TDS Analysis Run 1/17/2020 12:32 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

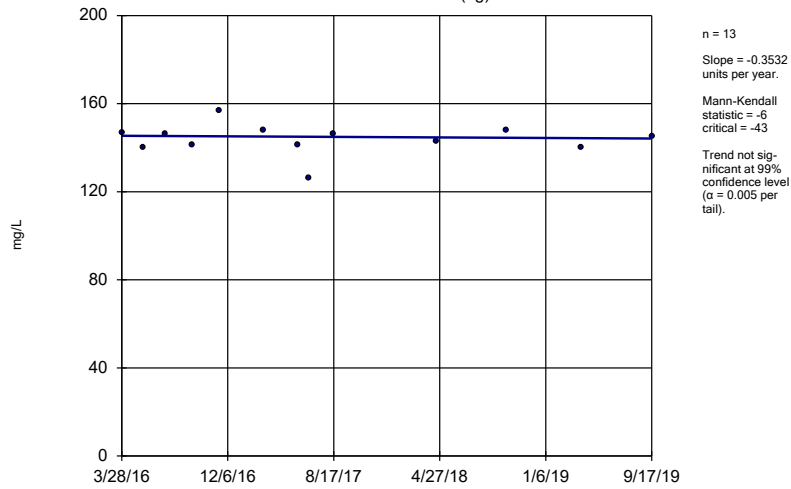
GN-AP-MW-2 (bg)



Constituent: TDS Analysis Run 1/17/2020 12:32 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

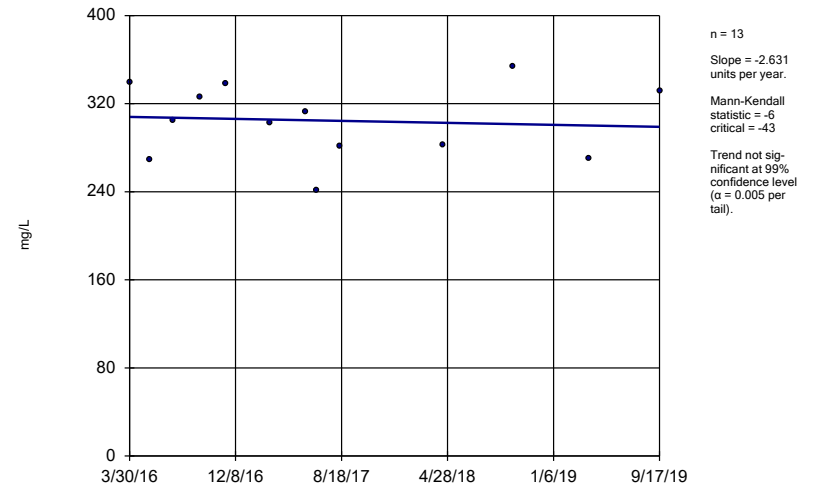
GN-AP-MW-3 (bg)



Constituent: TDS Analysis Run 1/17/2020 12:32 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

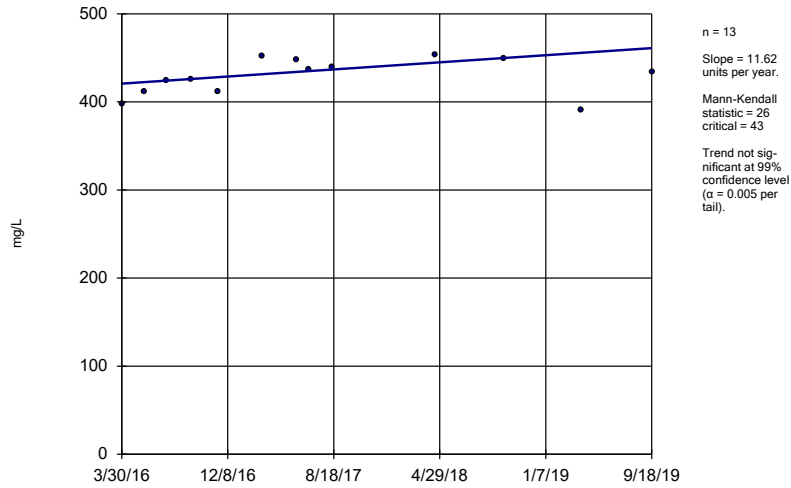
GN-AP-MW-4



Constituent: TDS Analysis Run 1/17/2020 12:32 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

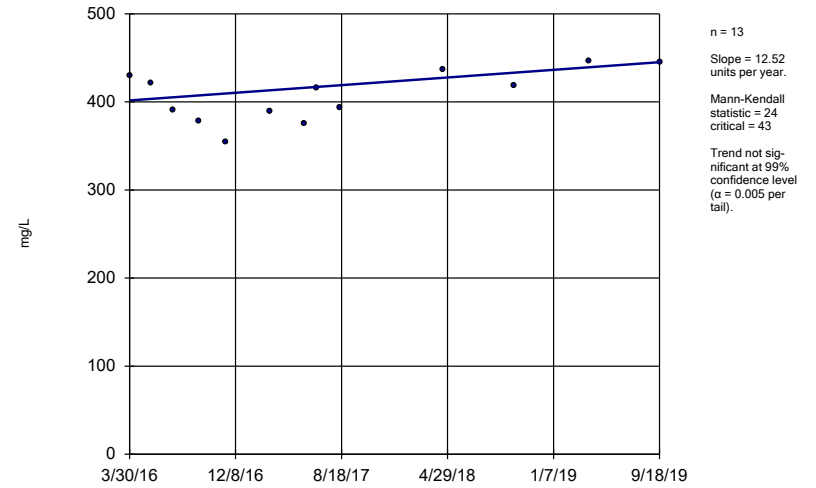
GN-AP-MW-5



Constituent: TDS Analysis Run 1/17/2020 12:32 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

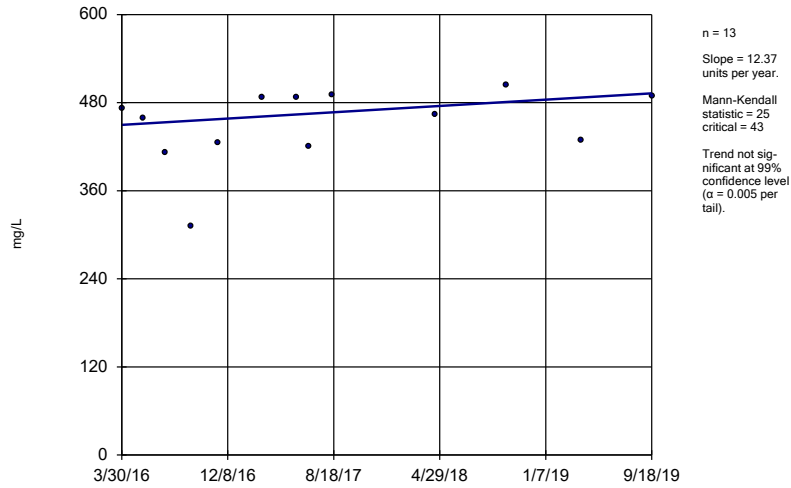
GN-AP-MW-6



Constituent: TDS Analysis Run 1/17/2020 12:32 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

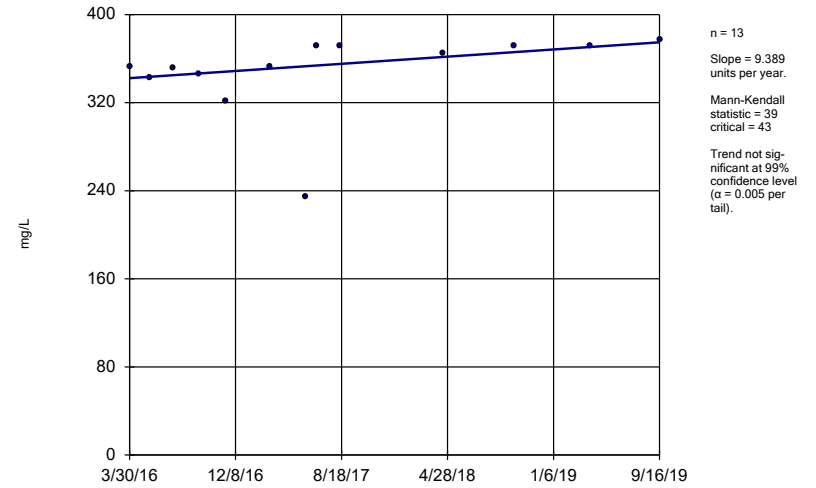
GN-AP-MW-7



Constituent: TDS Analysis Run 1/17/2020 12:32 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

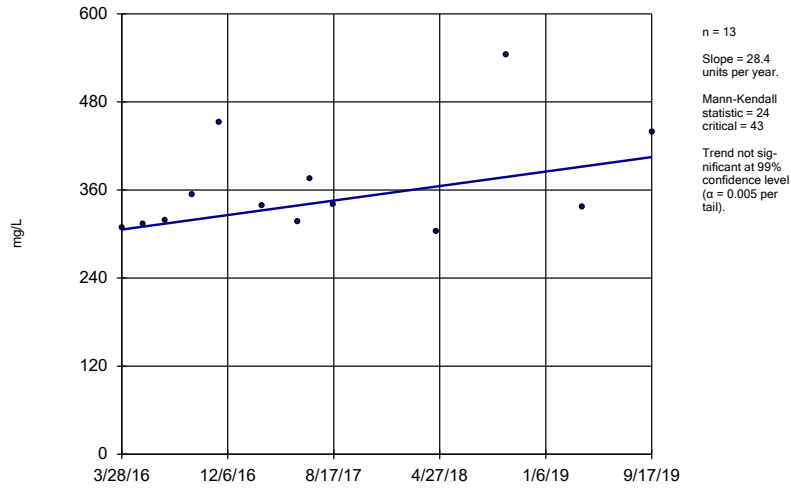
GN-AP-MW-12



Constituent: TDS Analysis Run 1/17/2020 12:32 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

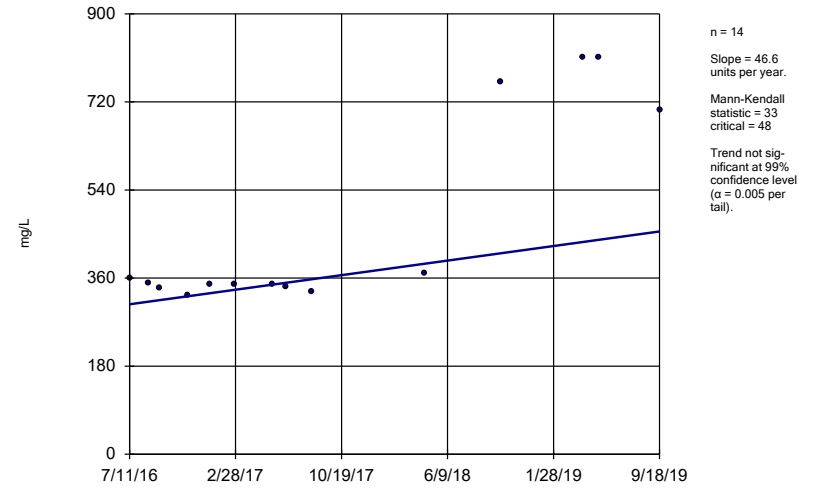
GN-AP-MW-14



Constituent: TDS Analysis Run 1/17/2020 12:32 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Sen's Slope Estimator

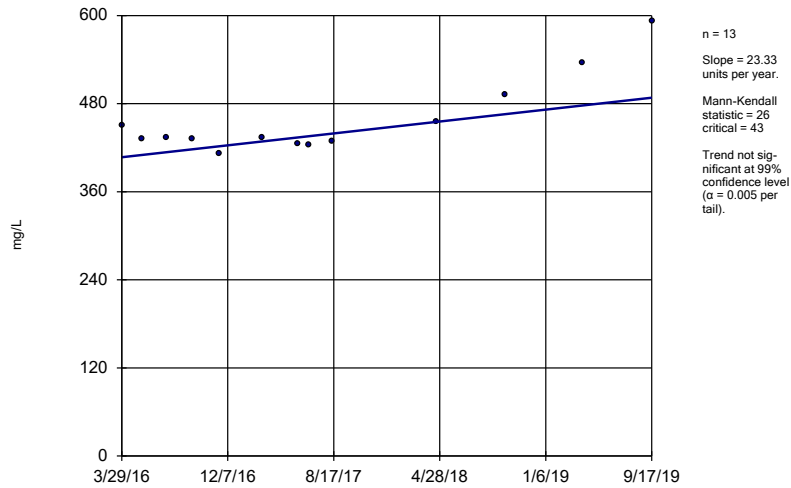
GN-AP-MW-15R



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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

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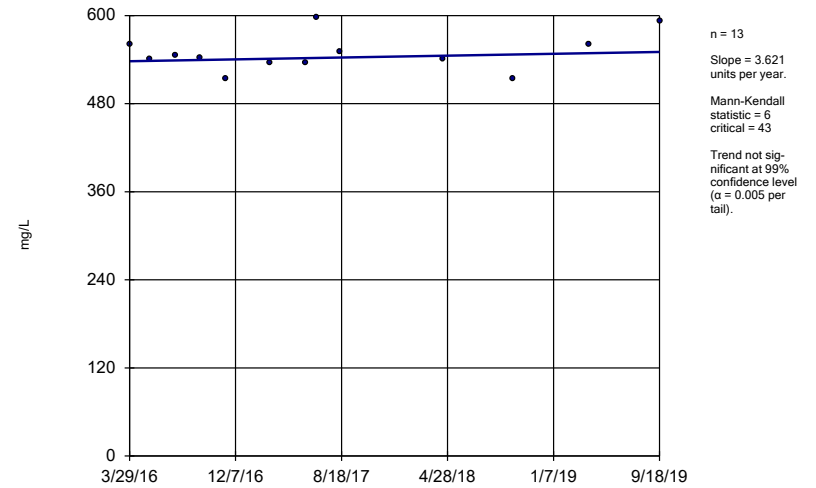
GN-AP-MW-17



Constituent: TDS Analysis Run 1/17/2020 12:32 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

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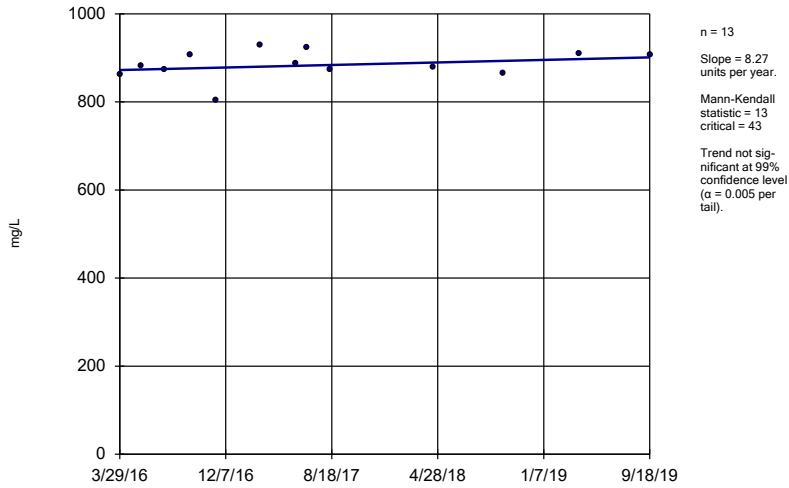
GN-AP-MW-18



Constituent: TDS Analysis Run 1/17/2020 12:32 PM View: Trend Test  
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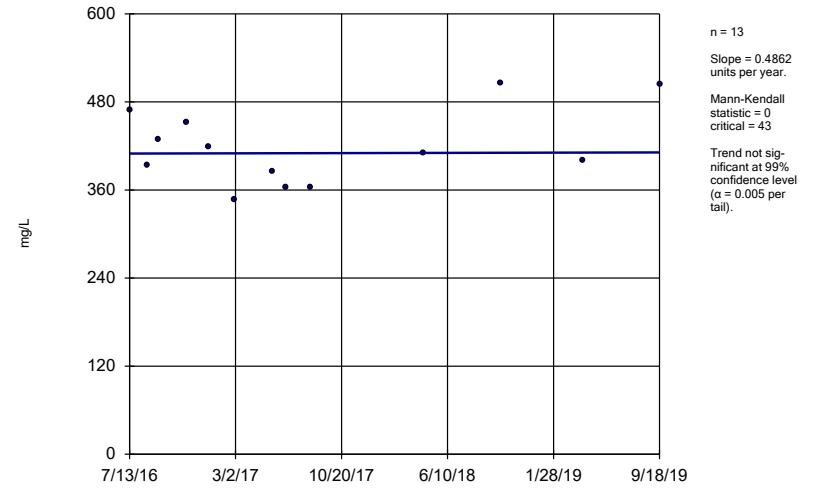
GN-AP-MW-20



Constituent: TDS Analysis Run 1/17/2020 12:32 PM View: Trend Test  
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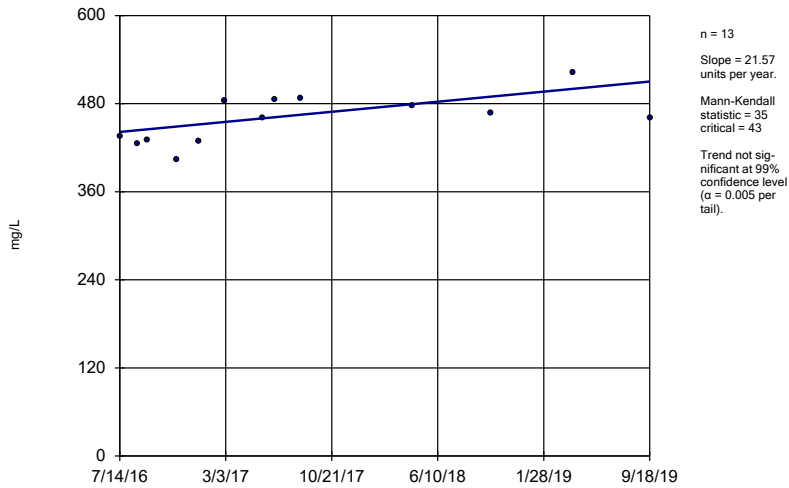
GN-AP-MW-21



Constituent: TDS Analysis Run 1/17/2020 12:32 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

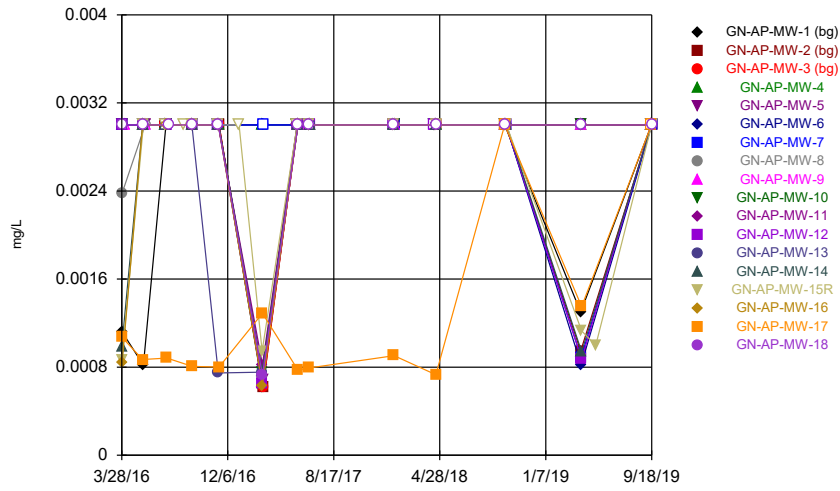
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GN-AP-MW-22



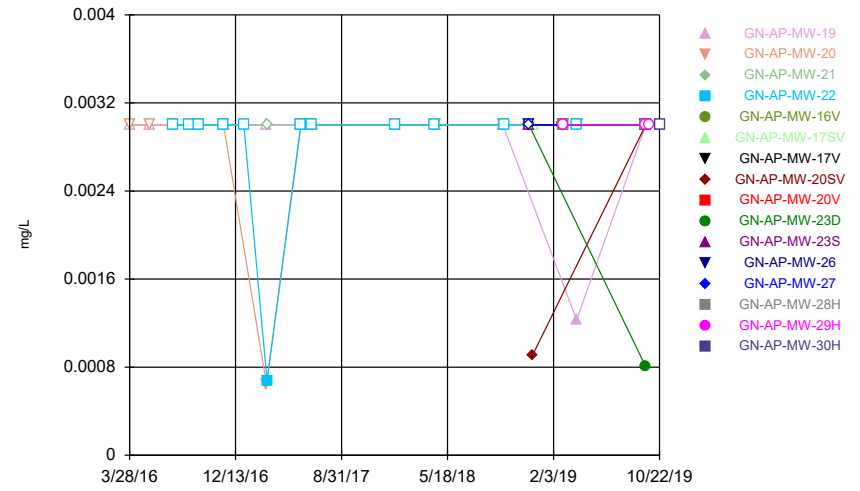
Constituent: TDS Analysis Run 1/17/2020 12:33 PM View: Trend Test  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



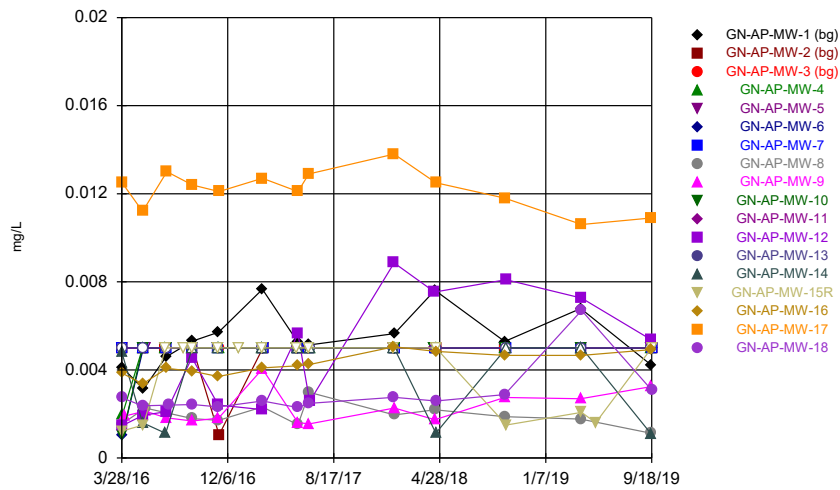
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



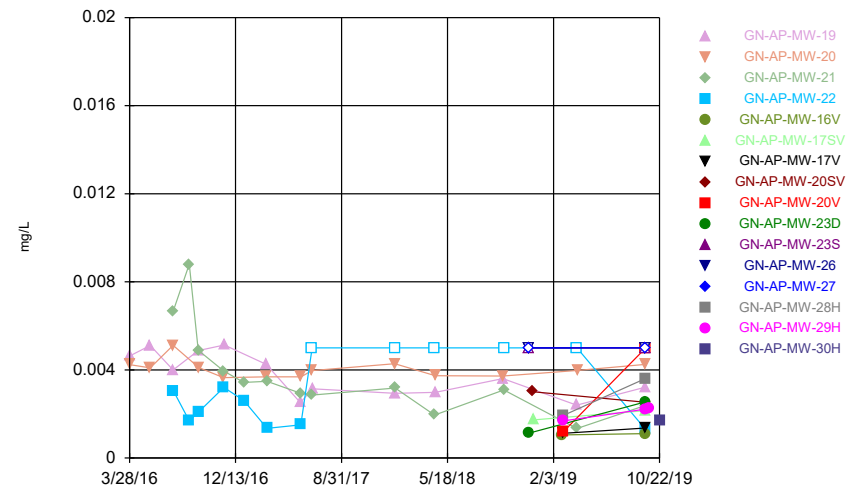
Constituent: Antimony Analysis Run 1/17/2020 12:35 PM View: Time Series  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



Constituent: Arsenic Analysis Run 1/17/2020 12:35 PM View: Time Series  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

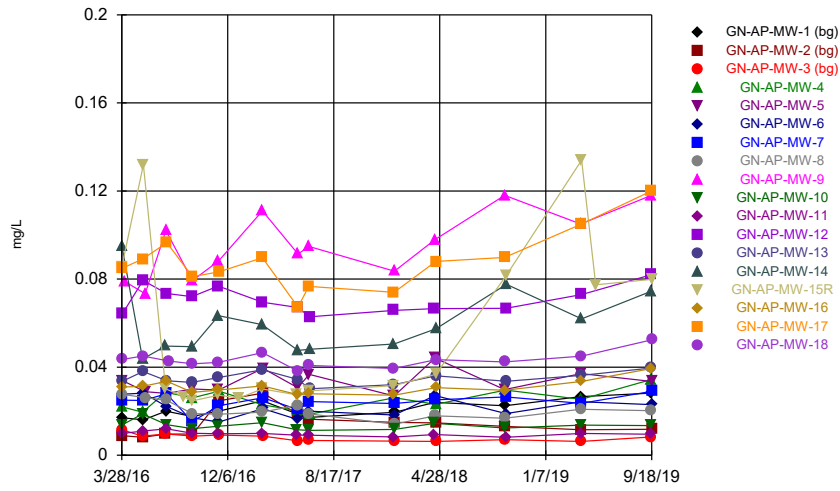
### Time Series



Constituent: Arsenic Analysis Run 1/17/2020 12:35 PM View: Time Series  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

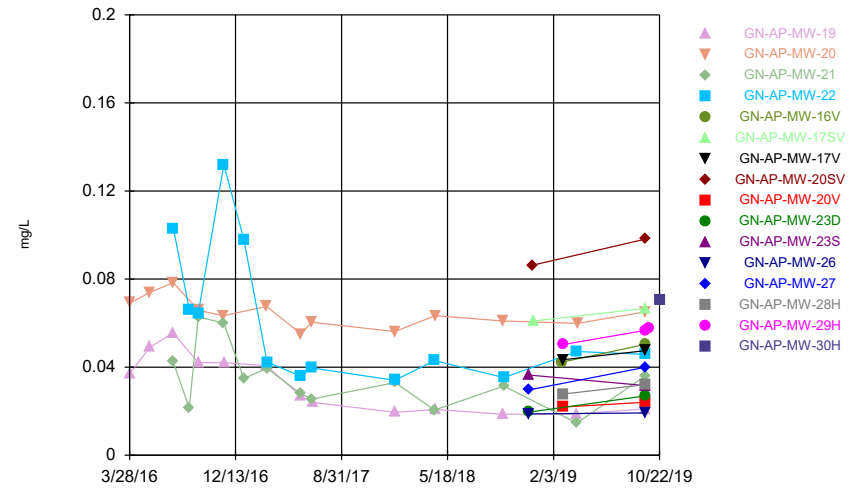


### Time Series



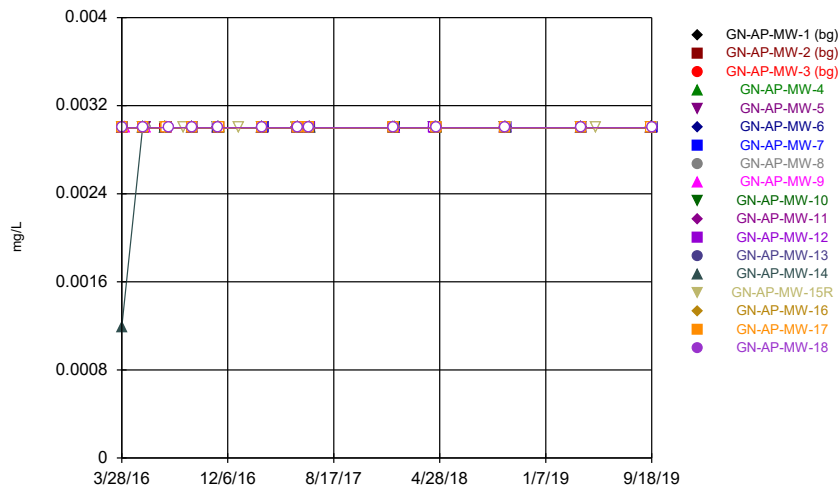
Constituent: Barium Analysis Run 1/17/2020 12:35 PM View: Time Series  
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



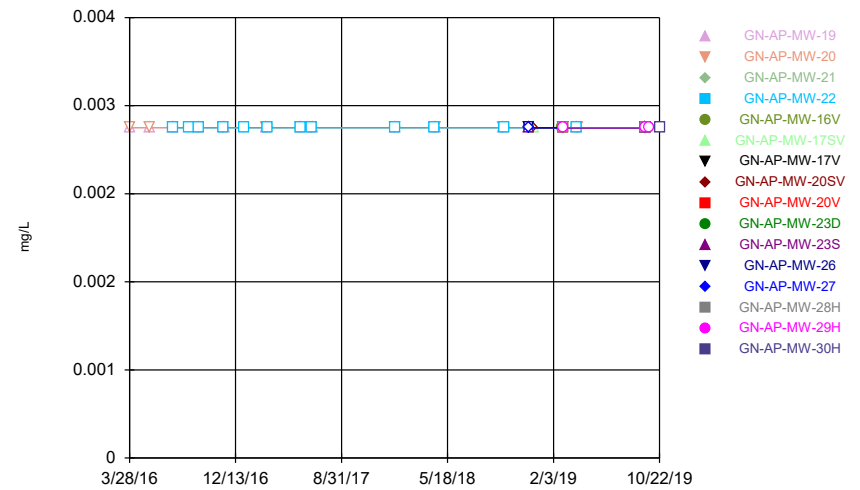
Constituent: Barium Analysis Run 1/17/2020 12:35 PM View: Time Series  
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



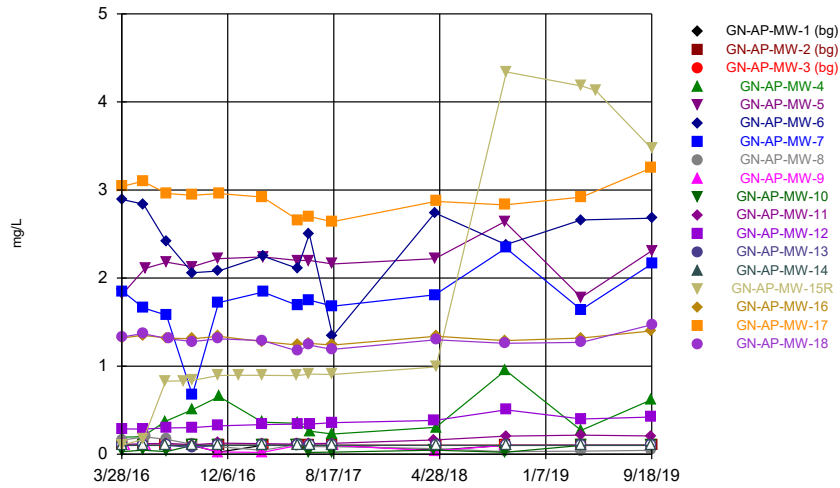
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



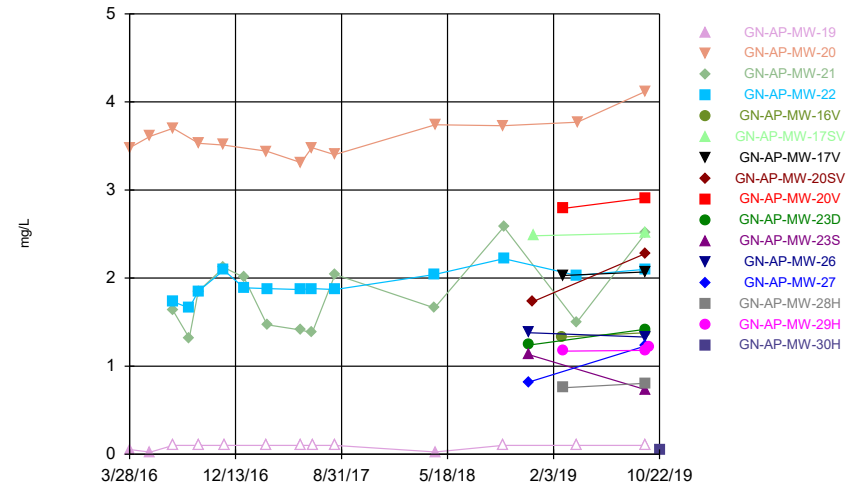
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



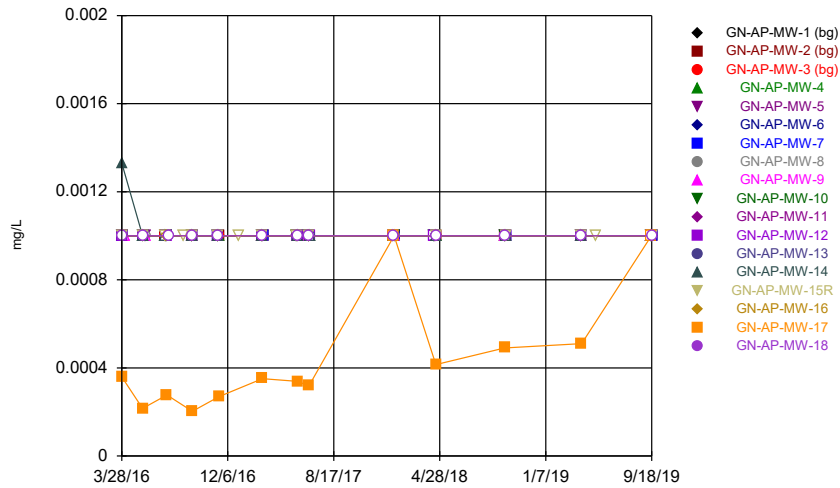
Constituent: Boron Analysis Run 1/17/2020 12:35 PM View: Time Series  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



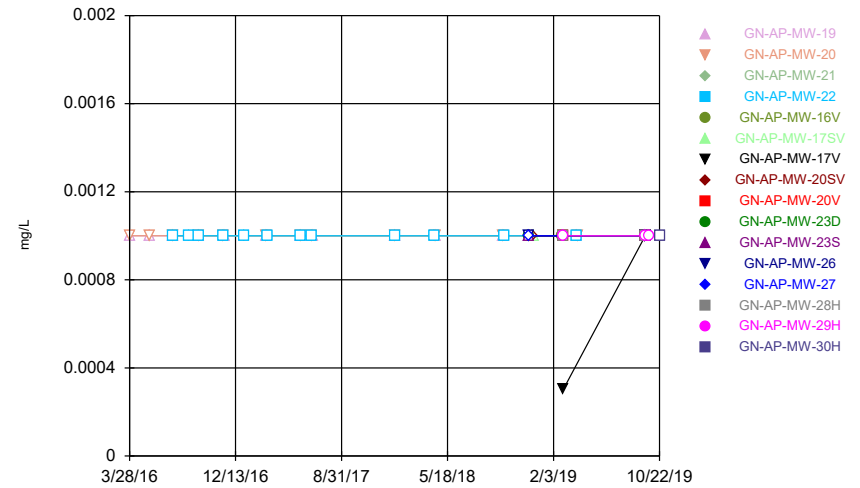
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



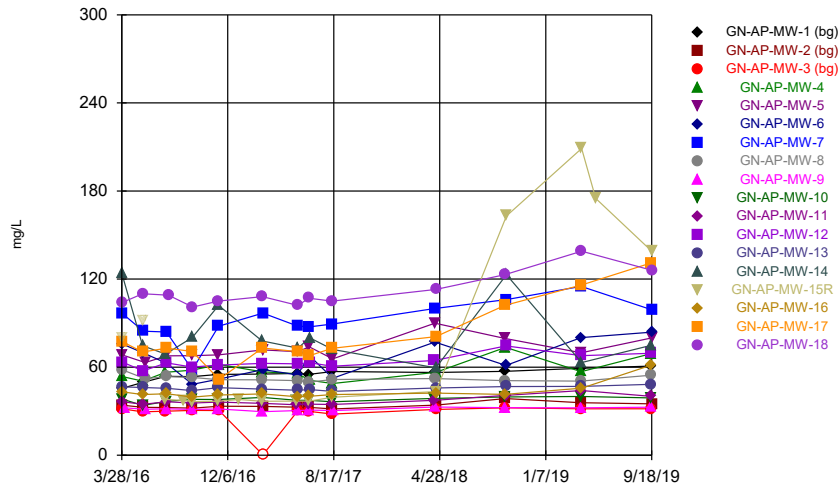
Constituent: Cadmium Analysis Run 1/17/2020 12:35 PM View: Time Series  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



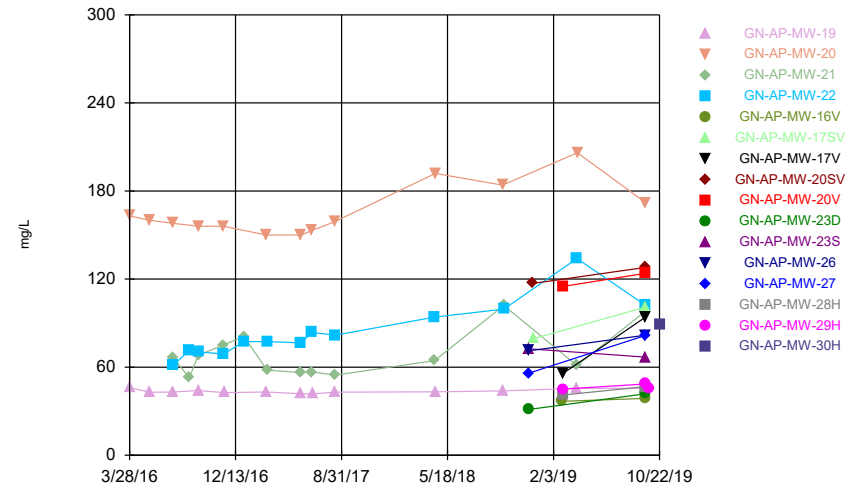
Constituent: Cadmium Analysis Run 1/17/2020 12:35 PM View: Time Series  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



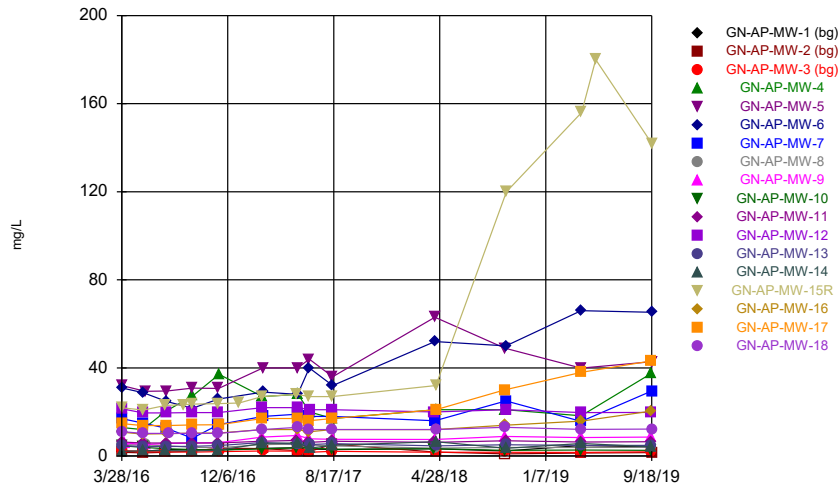
Constituent: Calcium Analysis Run 1/17/2020 12:36 PM View: Time Series  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



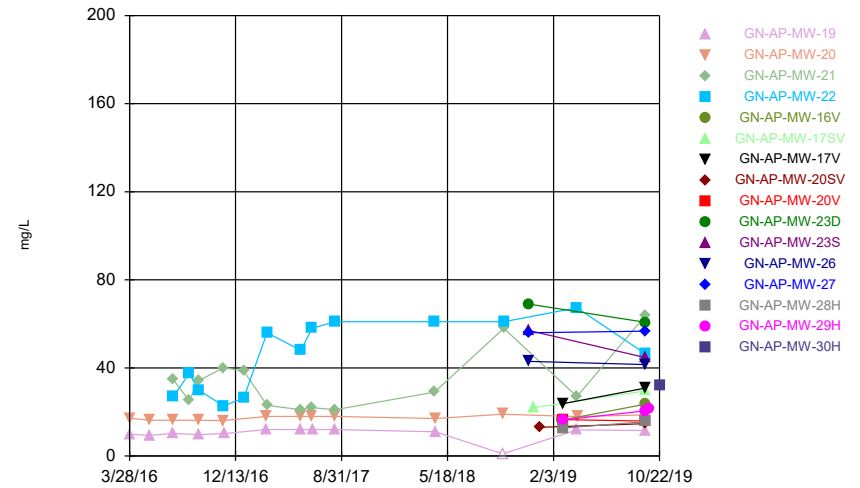
Constituent: Calcium Analysis Run 1/17/2020 12:36 PM View: Time Series  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



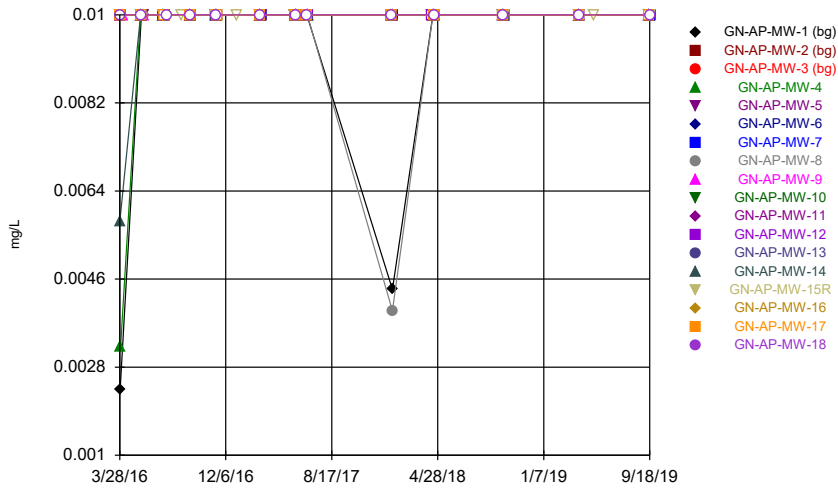
Constituent: Chloride Analysis Run 1/17/2020 12:36 PM View: Time Series  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



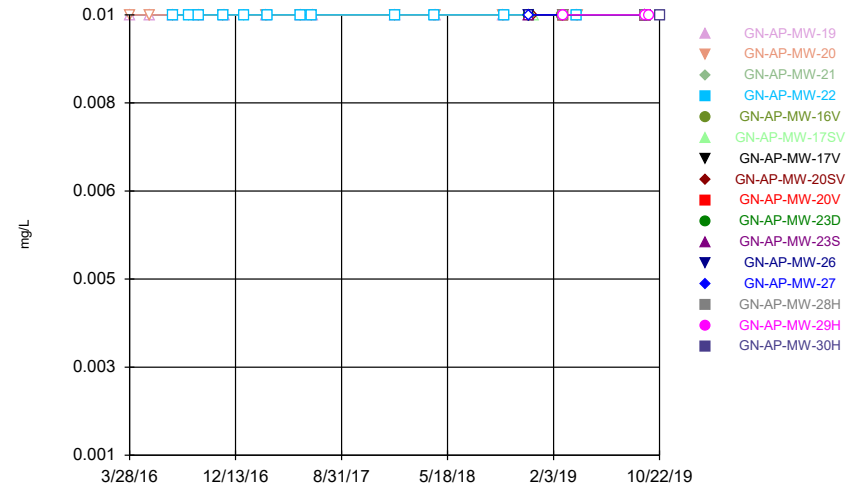
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



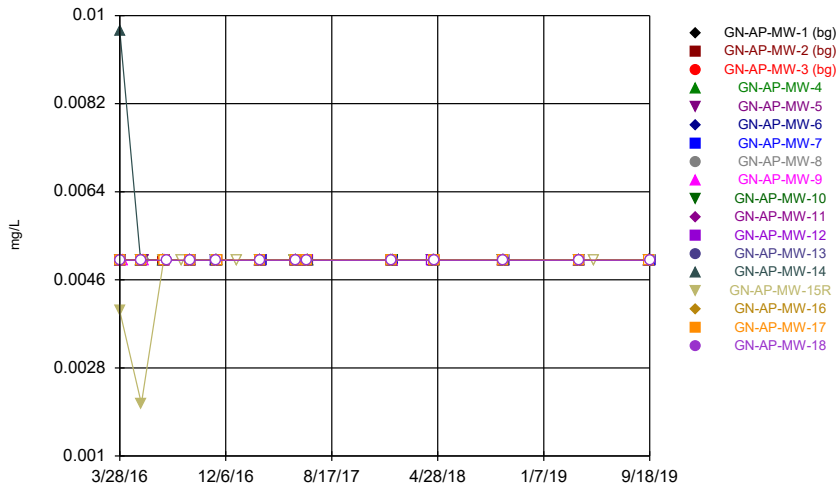
Constituent: Chromium Analysis Run 1/17/2020 12:36 PM View: Time Series  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



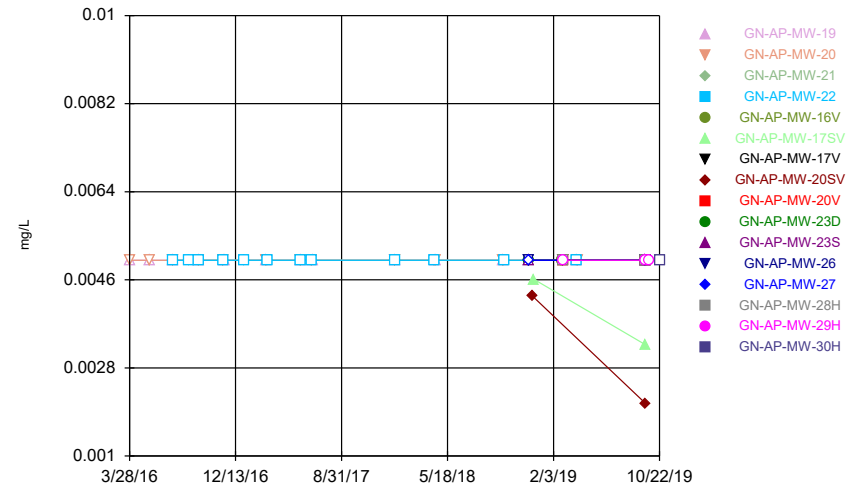
Constituent: Chromium Analysis Run 1/17/2020 12:36 PM View: Time Series  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



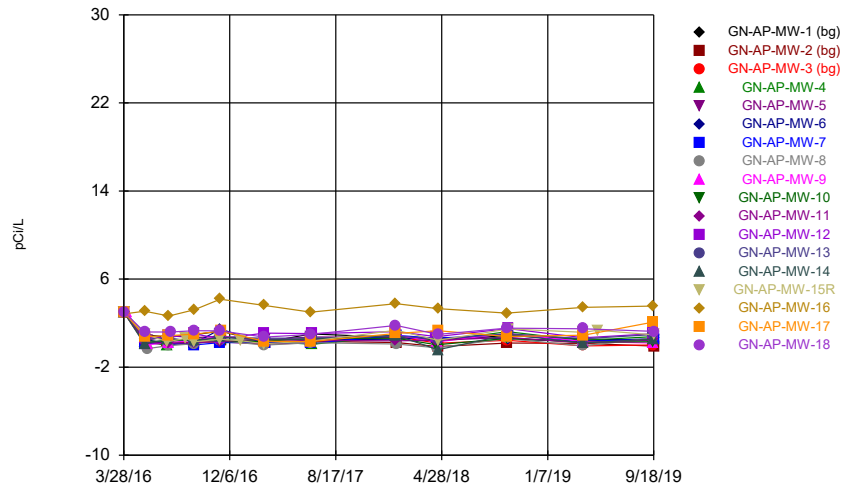
Constituent: Cobalt Analysis Run 1/17/2020 12:36 PM View: Time Series  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



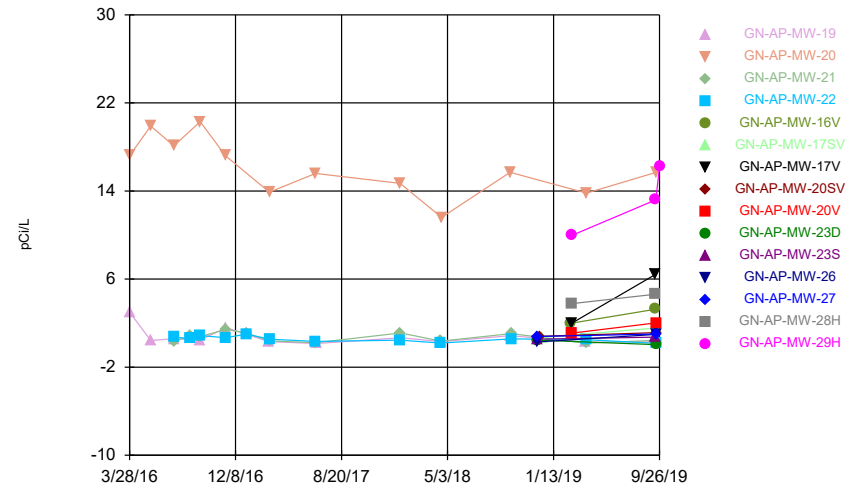
Constituent: Cobalt Analysis Run 1/17/2020 12:36 PM View: Time Series  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



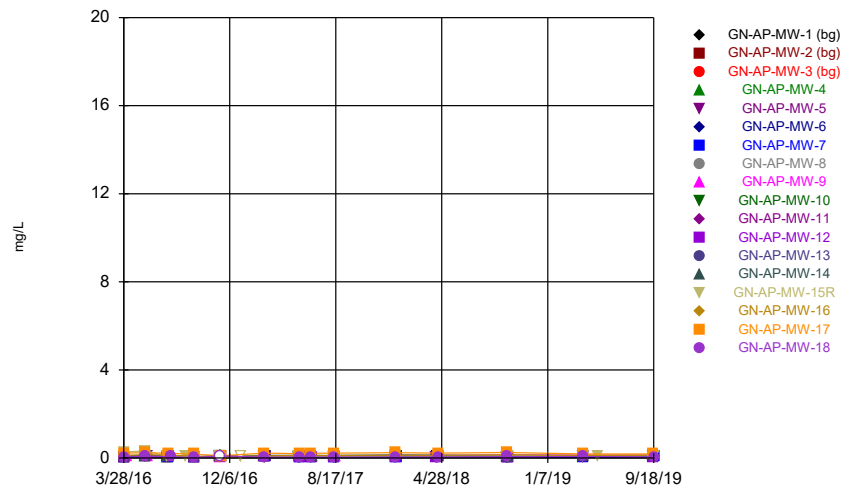
Constituent: Combined Radium 226 + 228 Analysis Run 1/17/2020 12:36 PM View: Time Series  
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



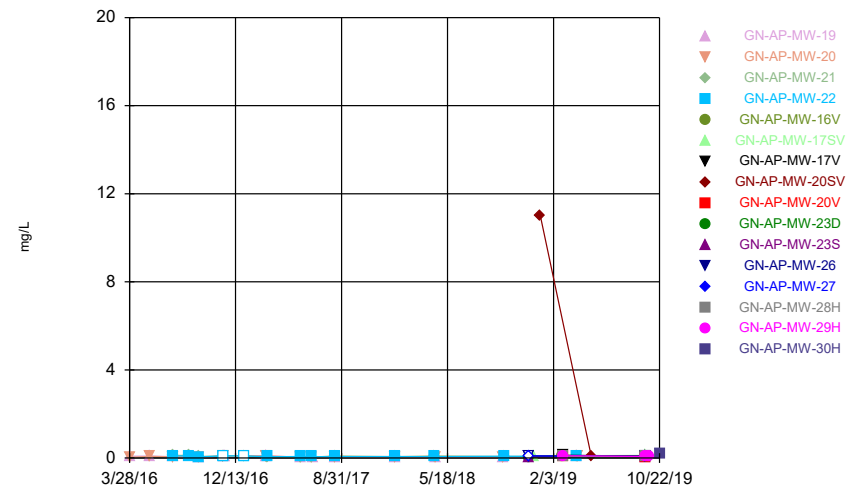
Constituent: Combined Radium 226 + 228 Analysis Run 1/17/2020 12:36 PM View: Time Series  
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



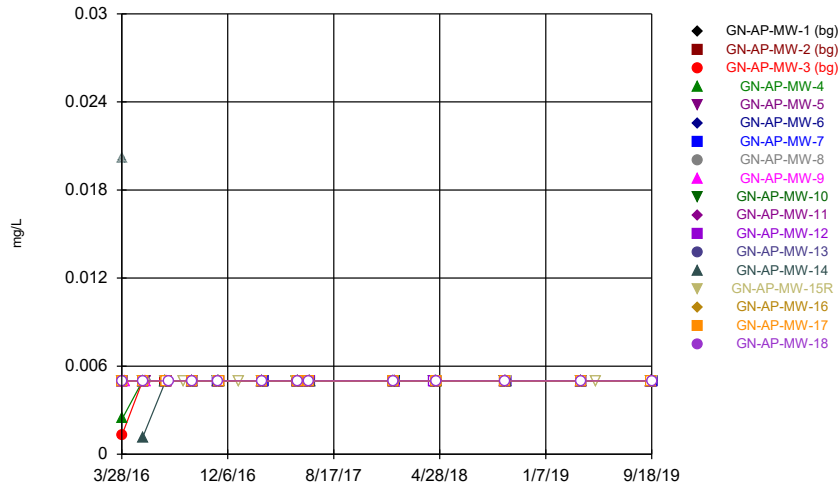
Constituent: Fluoride Analysis Run 1/17/2020 12:36 PM View: Time Series  
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



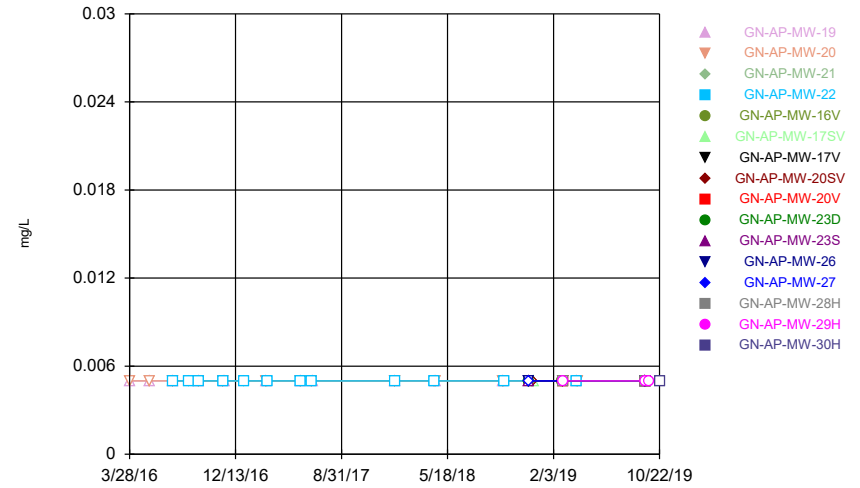
Constituent: Fluoride Analysis Run 1/17/2020 12:36 PM View: Time Series  
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



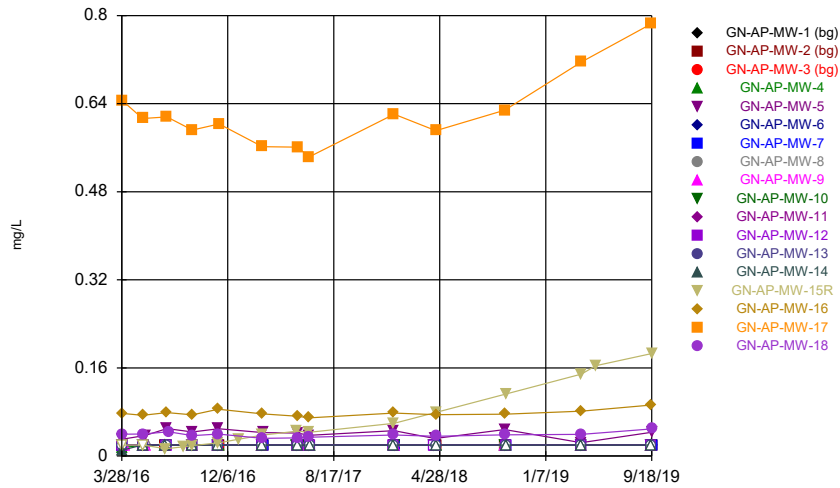
Constituent: Lead Analysis Run 1/17/2020 12:36 PM View: Time Series  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



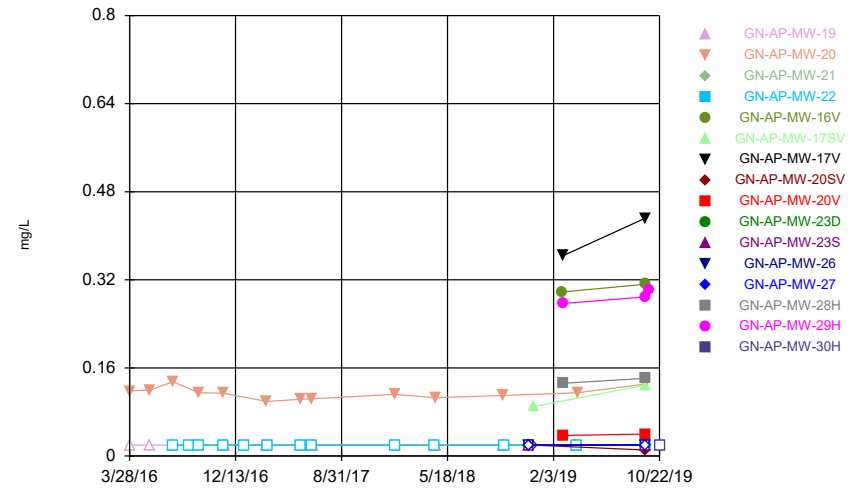
Constituent: Lead Analysis Run 1/17/2020 12:36 PM View: Time Series  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



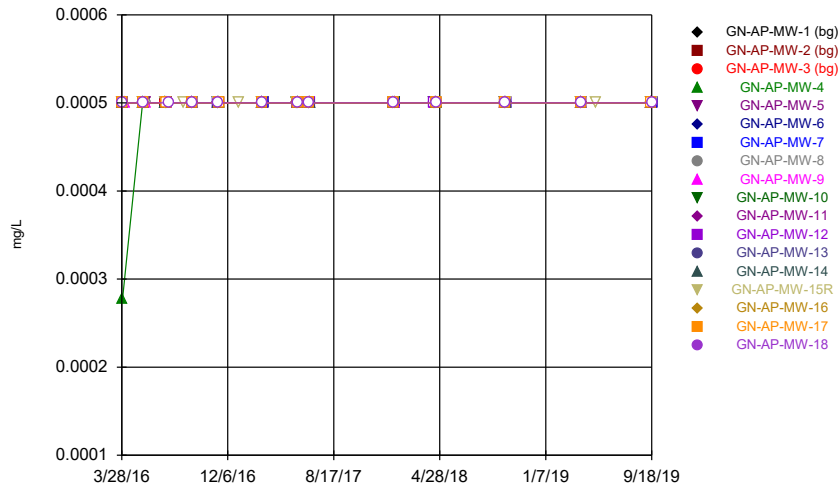
Constituent: Lithium Analysis Run 1/17/2020 12:36 PM View: Time Series  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



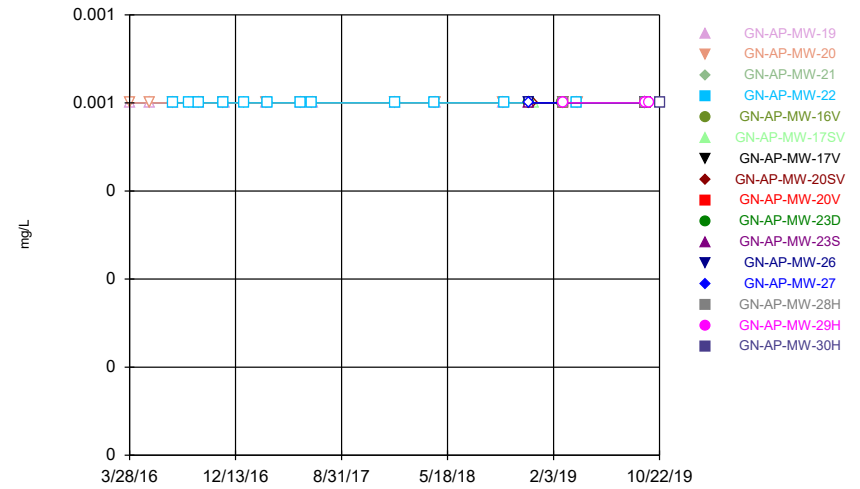
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



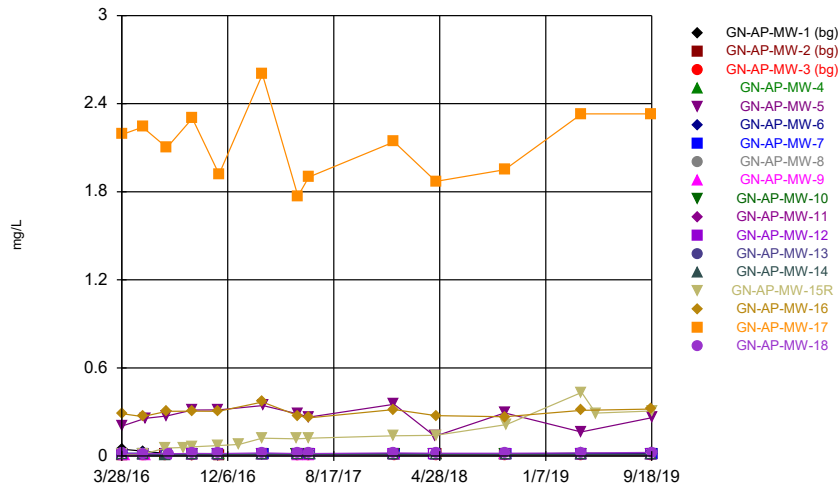
Constituent: Mercury Analysis Run 1/17/2020 12:37 PM View: Time Series  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



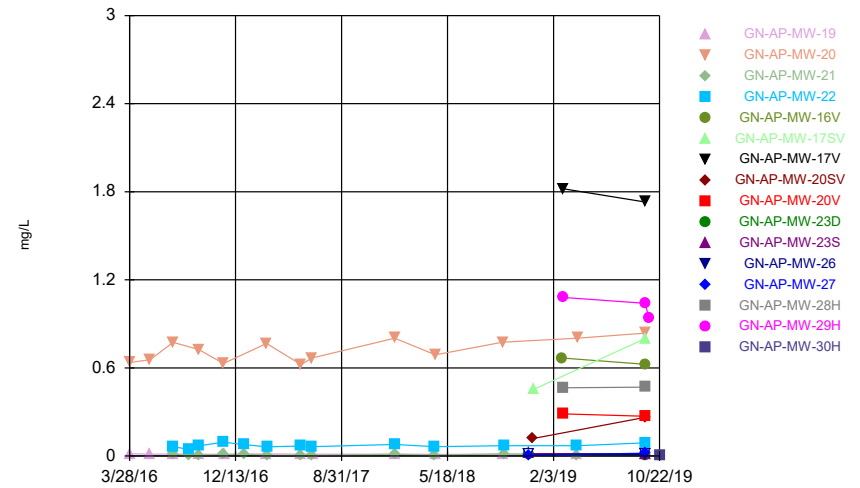
Constituent: Mercury Analysis Run 1/17/2020 12:37 PM View: Time Series  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



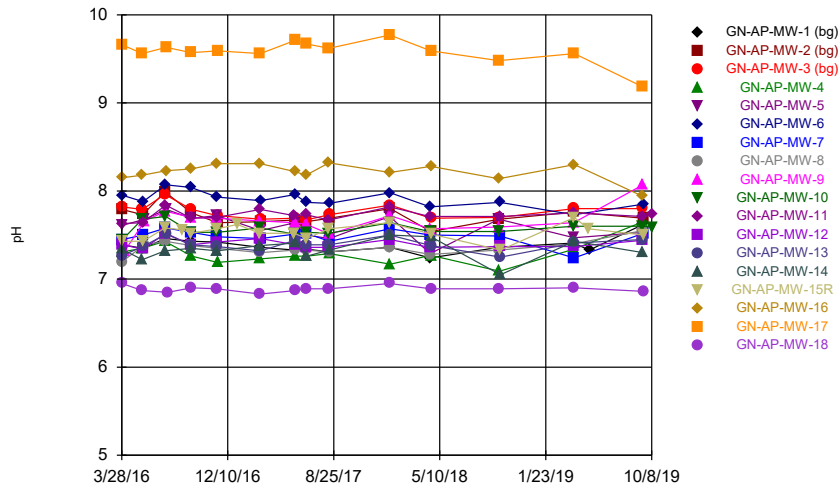
Constituent: Molybdenum Analysis Run 1/17/2020 12:37 PM View: Time Series  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



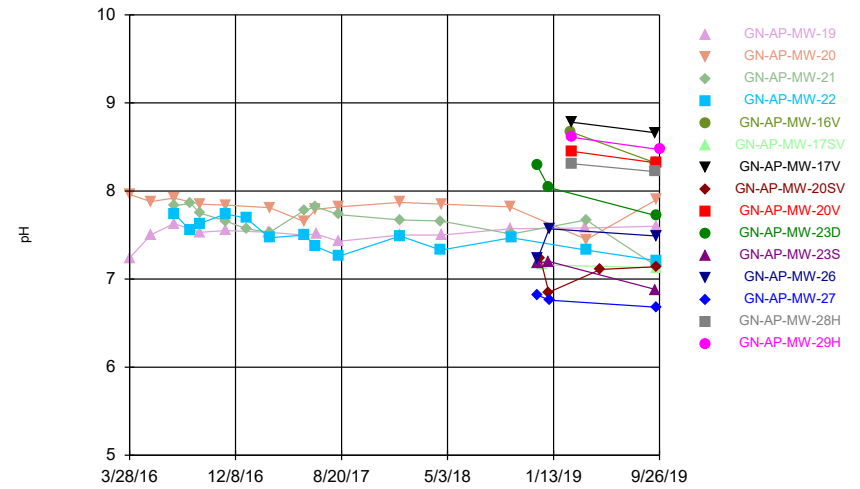
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



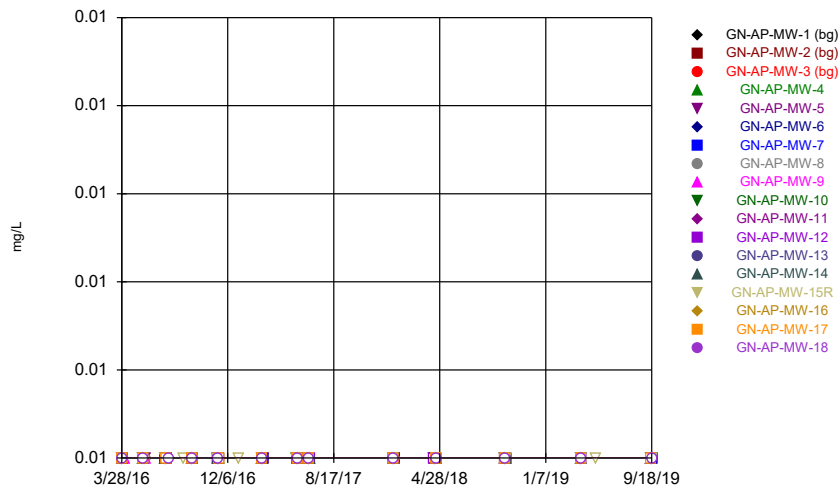
Constituent: pH Analysis Run 1/17/2020 12:37 PM View: Time Series  
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



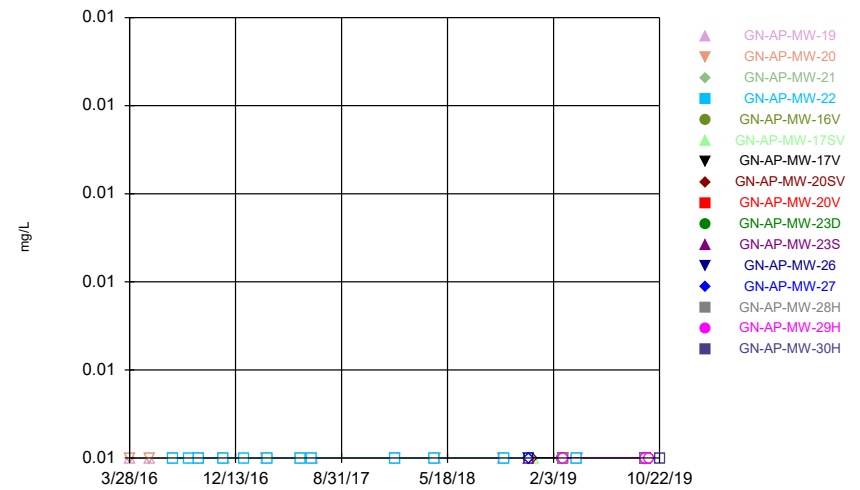
Constituent: pH Analysis Run 1/17/2020 12:37 PM View: Time Series  
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



Constituent: Selenium Analysis Run 1/17/2020 12:37 PM View: Time Series  
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

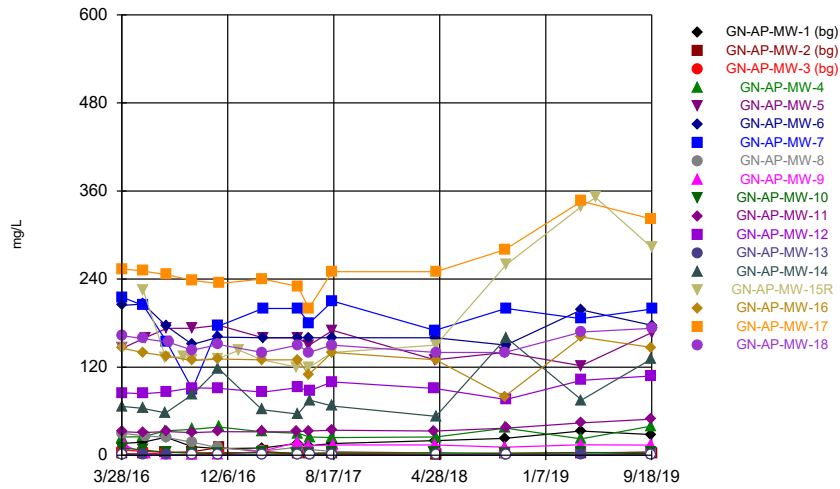
### Time Series



Constituent: Selenium Analysis Run 1/17/2020 12:37 PM View: Time Series  
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

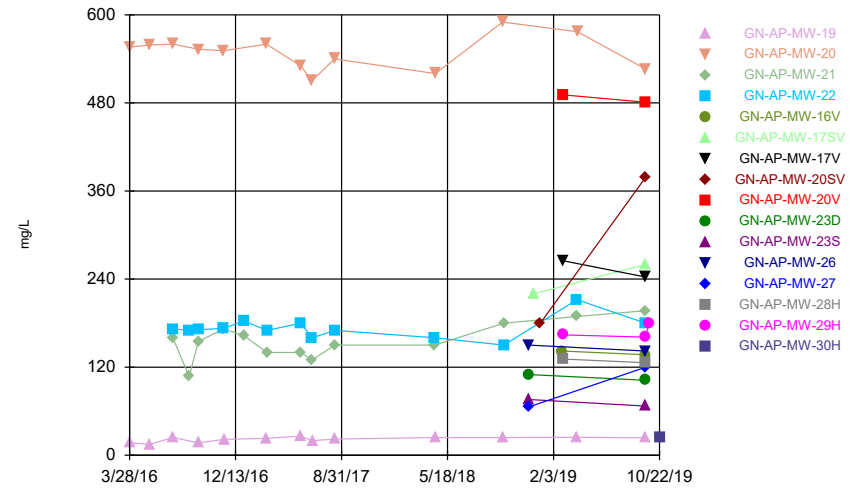


Time Series



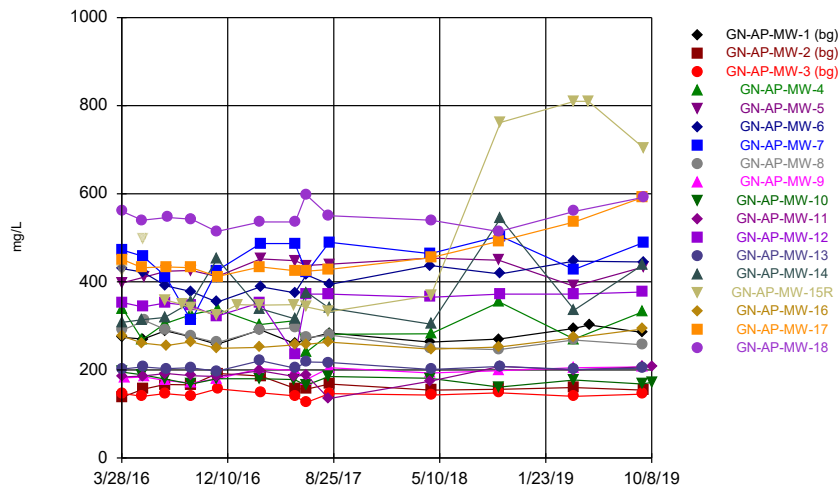
Constituent: Sulfate Analysis Run 1/17/2020 12:37 PM View: Time Series  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



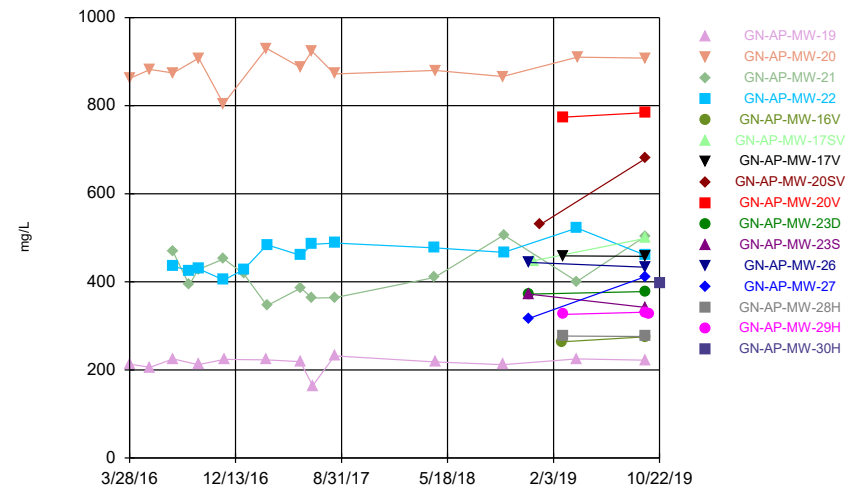
Constituent: Sulfate Analysis Run 1/17/2020 12:37 PM View: Time Series  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



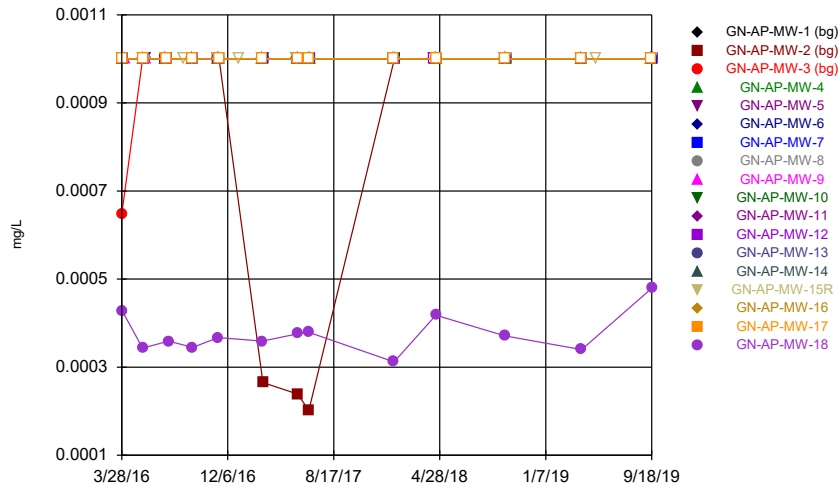
Constituent: TDS Analysis Run 1/17/2020 12:37 PM View: Time Series  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



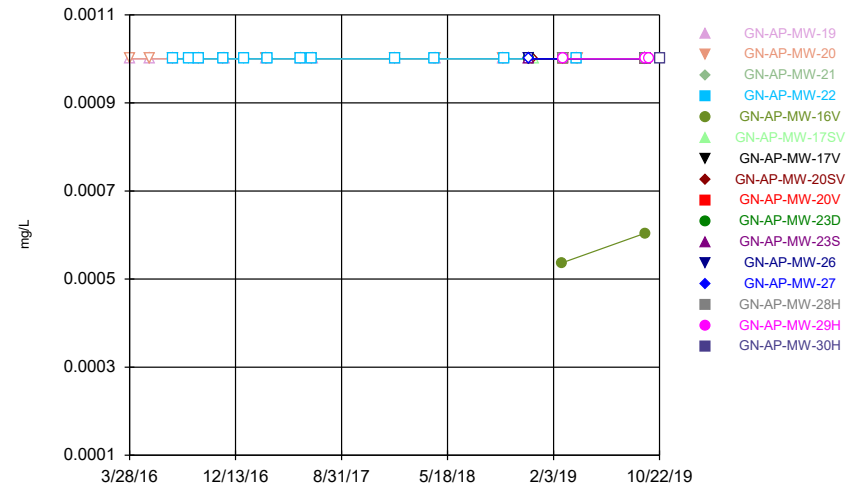
Constituent: TDS Analysis Run 1/17/2020 12:37 PM View: Time Series  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



Constituent: Thallium Analysis Run 1/17/2020 12:37 PM View: Time Series  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Time Series



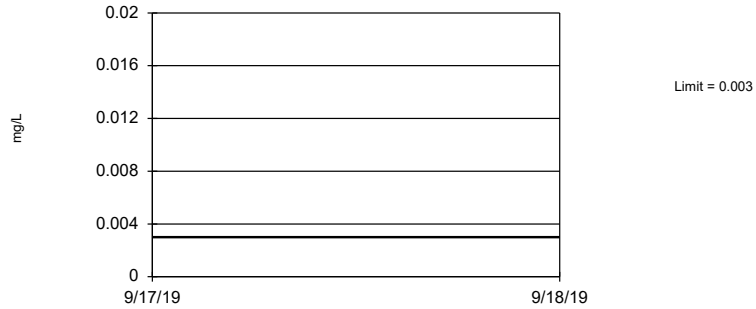
Constituent: Thallium Analysis Run 1/17/2020 12:37 PM View: Time Series  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

# Upper Tolerance Limits - Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 1/17/2020, 12:40 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        | 39   | n/a     | n/a       | 82.05 | n/a     | n/a       | 0.1353 | NP Inter(NDs)      |
| Arsenic (mg/L)                    | 0.00766    | n/a        | 39   | n/a     | n/a       | 64.1  | n/a     | n/a       | 0.1353 | NP Inter(normal... |
| Barium (mg/L)                     | 0.0313     | n/a        | 39   | 0.1173  | 0.02792   | 0     | None    | sqrt(x)   | 0.05   | Inter              |
| Beryllium (mg/L)                  | 0.003      | n/a        | 39   | n/a     | n/a       | 100   | n/a     | n/a       | 0.1353 | NP Inter(NDs)      |
| Cadmium (mg/L)                    | 0.001      | n/a        | 39   | n/a     | n/a       | 100   | n/a     | n/a       | 0.1353 | NP Inter(NDs)      |
| Chromium (mg/L)                   | 0.01       | n/a        | 39   | n/a     | n/a       | 94.87 | n/a     | n/a       | 0.1353 | NP Inter(NDs)      |
| Cobalt (mg/L)                     | 0.005      | n/a        | 39   | n/a     | n/a       | 100   | n/a     | n/a       | 0.1353 | NP Inter(NDs)      |
| Combined Radium 226 + 228 (pCi/L) | 3          | n/a        | 37   | n/a     | n/a       | 0     | n/a     | n/a       | 0.1499 | NP Inter(normal... |
| Fluoride (mg/L)                   | 0.1        | n/a        | 42   | n/a     | n/a       | 47.62 | n/a     | n/a       | 0.116  | NP Inter(normal... |
| Lead (mg/L)                       | 0.005      | n/a        | 39   | n/a     | n/a       | 97.44 | n/a     | n/a       | 0.1353 | NP Inter(NDs)      |
| Lithium (mg/L)                    | 0.02       | n/a        | 39   | n/a     | n/a       | 97.44 | n/a     | n/a       | 0.1353 | NP Inter(NDs)      |
| Mercury (mg/L)                    | 0.0005     | n/a        | 39   | n/a     | n/a       | 100   | n/a     | n/a       | 0.1353 | NP Inter(NDs)      |
| Molybdenum (mg/L)                 | 0.0463     | n/a        | 39   | n/a     | n/a       | 28.21 | n/a     | n/a       | 0.1353 | NP Inter(normal... |
| Selenium (mg/L)                   | 0.01       | n/a        | 39   | n/a     | n/a       | 100   | n/a     | n/a       | 0.1353 | NP Inter(NDs)      |
| Thallium (mg/L)                   | 0.001      | n/a        | 39   | n/a     | n/a       | 89.74 | n/a     | n/a       | 0.1353 | NP Inter(NDs)      |

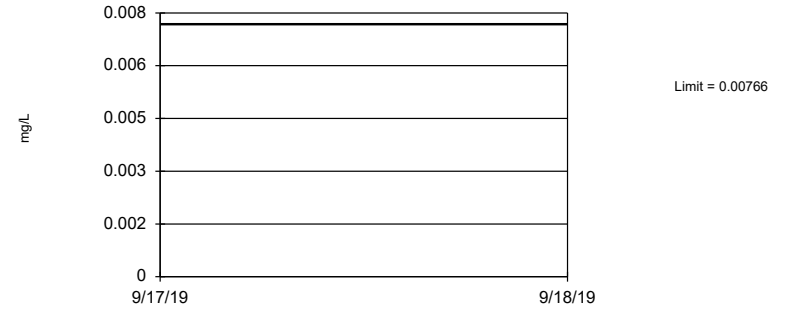
### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 39 background values. 82.05% NDs. 88.87% coverage at alpha=0.01; 92.77% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1353.

Constituent: Antimony Analysis Run 1/17/2020 12:39 PM View: UTL's - Appendix IV  
Plant Gaston Client: Southern Company Data: Gaston 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 39 background values. 64.1% NDs. 88.87% coverage at alpha=0.01; 92.77% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1353.

Constituent: Arsenic Analysis Run 1/17/2020 12:39 PM View: UTL's - Appendix IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

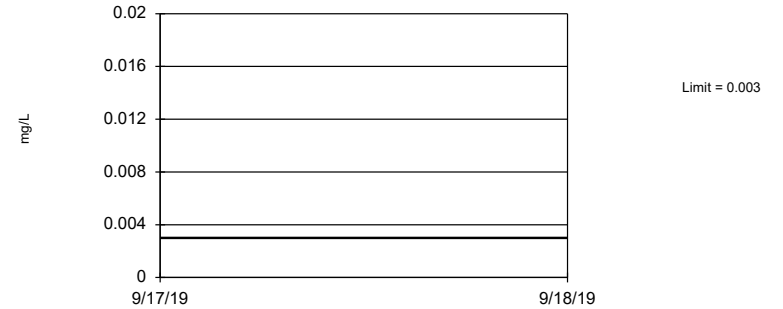
### Tolerance Limit Interwell Parametric



95% coverage. Background Data Summary (based on square root transformation): Mean=0.1173, Std. Dev.=0.02792, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9204, critical = 0.917. Report alpha = 0.05.

Constituent: Barium Analysis Run 1/17/2020 12:39 PM View: UTL's - Appendix IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

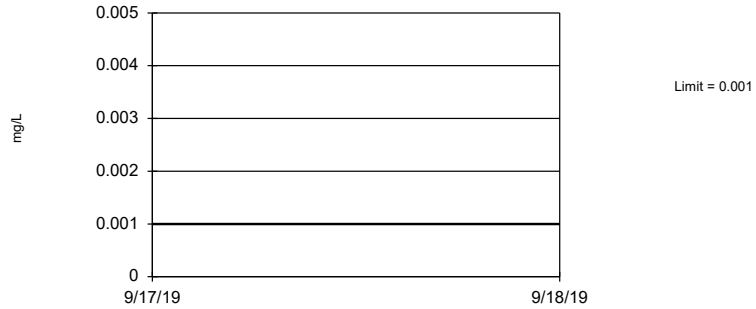
### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 88.87% coverage at alpha=0.01; 92.77% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1353.

Constituent: Beryllium Analysis Run 1/17/2020 12:39 PM View: UTL's - Appendix IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Tolerance Limit  
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 88.87% coverage at alpha=0.01; 92.77% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1353.

Constituent: Cadmium Analysis Run 1/17/2020 12:39 PM View: UTL's - Appendix IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Tolerance Limit  
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 39 background values. 94.87% NDs. 88.87% coverage at alpha=0.01; 92.77% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1353.

Constituent: Chromium Analysis Run 1/17/2020 12:39 PM View: UTL's - Appendix IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Tolerance Limit  
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 88.87% coverage at alpha=0.01; 92.77% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1353.

Constituent: Cobalt Analysis Run 1/17/2020 12:39 PM View: UTL's - Appendix IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

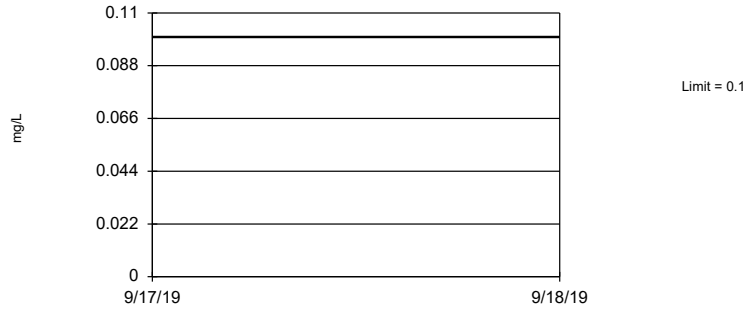
Tolerance Limit  
Interwell Non-parametric



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 37 background values. 88.48% coverage at alpha=0.01; 92.38% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1499.

Constituent: Combined Radium 226 + 228 Analysis Run 1/17/2020 12:39 PM View: UTL's - Appendix IV  
Plant Gaston Client: Southern Company Data: Gaston 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 42 background values. 47.62% NDs. 89.65% coverage at alpha=0.01; 93.16% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.116.

Constituent: Fluoride Analysis Run 1/17/2020 12:39 PM View: UTL's - Appendix IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 39 background values. 97.44% NDs. 88.87% coverage at alpha=0.01; 92.77% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1353.

Constituent: Lead Analysis Run 1/17/2020 12:39 PM View: UTL's - Appendix IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

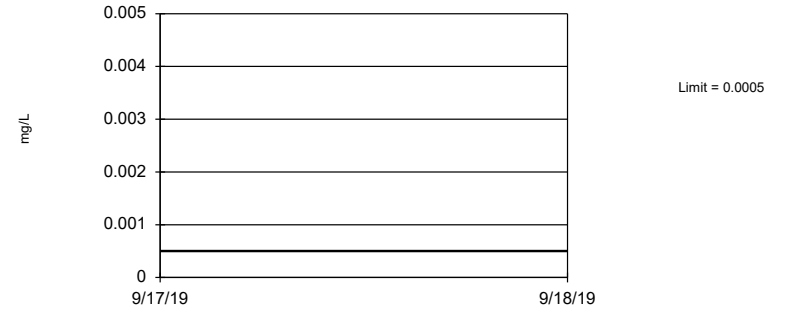
### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 39 background values. 97.44% NDs. 88.87% coverage at alpha=0.01; 92.77% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1353.

Constituent: Lithium Analysis Run 1/17/2020 12:39 PM View: UTL's - Appendix IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

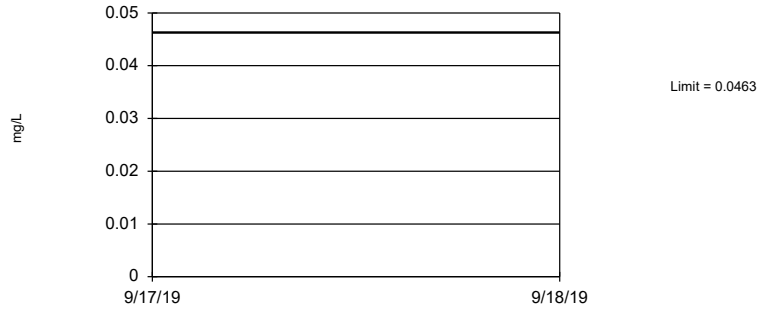
### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 88.87% coverage at alpha=0.01; 92.77% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1353.

Constituent: Mercury Analysis Run 1/17/2020 12:39 PM View: UTL's - Appendix IV  
Plant Gaston Client: Southern Company Data: Gaston 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 39 background values. 28.21% NDs. 88.87% coverage at alpha=0.01; 92.77% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1353.

Constituent: Molybdenum Analysis Run 1/17/2020 12:39 PM View: UTL's - Appendix IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

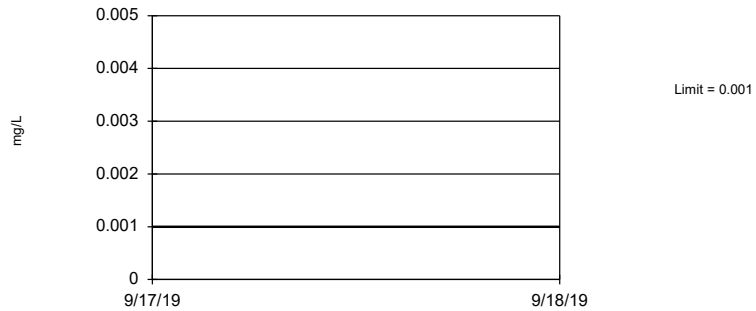
### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 88.87% coverage at alpha=0.01; 92.77% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1353.

Constituent: Selenium Analysis Run 1/17/2020 12:39 PM View: UTL's - Appendix IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 39 background values. 89.74% NDs. 88.87% coverage at alpha=0.01; 92.77% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1353.

Constituent: Thallium Analysis Run 1/17/2020 12:40 PM View: UTL's - Appendix IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

# Confidence Intervals - Significant Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 1/17/2020, 12:46 PM

| Constituent                       | Well        | Upper Lim. | Lower Lim. | Compliance | Sig. | N  | %NDs | Transform | Alpha | Method |
|-----------------------------------|-------------|------------|------------|------------|------|----|------|-----------|-------|--------|
| Arsenic (mg/L)                    | GN-AP-MW-17 | 0.01286    | 0.01153    | 0.01       | Yes  | 13 | 0    | No        | 0.01  | Param. |
| Combined Radium 226 + 228 (pCi/L) | GN-AP-MW-20 | 18.15      | 14.15      | 5          | Yes  | 12 | 0    | No        | 0.01  | Param. |
| Lithium (mg/L)                    | GN-AP-MW-16 | 0.08223    | 0.07336    | 0.04       | Yes  | 13 | 0    | No        | 0.01  | Param. |
| Lithium (mg/L)                    | GN-AP-MW-17 | 0.6682     | 0.5732     | 0.04       | Yes  | 13 | 0    | sqrt(x)   | 0.01  | Param. |
| Lithium (mg/L)                    | GN-AP-MW-20 | 0.1218     | 0.1062     | 0.04       | Yes  | 13 | 0    | No        | 0.01  | Param. |
| Molybdenum (mg/L)                 | GN-AP-MW-5  | 0.3148     | 0.2181     | 0.1        | Yes  | 13 | 0    | No        | 0.01  | Param. |
| Molybdenum (mg/L)                 | GN-AP-MW-16 | 0.3192     | 0.2754     | 0.1        | Yes  | 13 | 0    | No        | 0.01  | Param. |
| Molybdenum (mg/L)                 | GN-AP-MW-17 | 2.302      | 1.95       | 0.1        | Yes  | 13 | 0    | No        | 0.01  | Param. |
| Molybdenum (mg/L)                 | GN-AP-MW-20 | 0.7779     | 0.6662     | 0.1        | Yes  | 13 | 0    | No        | 0.01  | Param. |



# Confidence Intervals - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 1/17/2020, 12:46 PM

| Constituent           | Well               | Upper Lim.     | Lower Lim.     | Compliance  | Sig.       | N         | %NDs     | Transform | Alpha       | Method         |
|-----------------------|--------------------|----------------|----------------|-------------|------------|-----------|----------|-----------|-------------|----------------|
| Antimony (mg/L)       | GN-AP-MW-4         | 0.003          | 0.003          | 0.006       | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Antimony (mg/L)       | GN-AP-MW-5         | 0.003          | 0.000689       | 0.006       | No         | 13        | 92.31    | No        | 0.01        | NP (NDs)       |
| Antimony (mg/L)       | GN-AP-MW-6         | 0.003          | 0.000819       | 0.006       | No         | 13        | 92.31    | No        | 0.01        | NP (NDs)       |
| Antimony (mg/L)       | GN-AP-MW-7         | 0.003          | 0.00089        | 0.006       | No         | 13        | 92.31    | No        | 0.01        | NP (NDs)       |
| Antimony (mg/L)       | GN-AP-MW-8         | 0.003          | 0.00238        | 0.006       | No         | 13        | 84.62    | No        | 0.01        | NP (NDs)       |
| Antimony (mg/L)       | GN-AP-MW-9         | 0.003          | 0.000662       | 0.006       | No         | 13        | 92.31    | No        | 0.01        | NP (NDs)       |
| Antimony (mg/L)       | GN-AP-MW-10        | 0.003          | 0.000753       | 0.006       | No         | 13        | 92.31    | No        | 0.01        | NP (NDs)       |
| Antimony (mg/L)       | GN-AP-MW-11        | 0.003          | 0.000823       | 0.006       | No         | 13        | 92.31    | No        | 0.01        | NP (NDs)       |
| Antimony (mg/L)       | GN-AP-MW-12        | 0.003          | 0.000871       | 0.006       | No         | 13        | 84.62    | No        | 0.01        | NP (NDs)       |
| Antimony (mg/L)       | GN-AP-MW-13        | 0.003          | 0.000755       | 0.006       | No         | 13        | 84.62    | No        | 0.01        | NP (NDs)       |
| Antimony (mg/L)       | GN-AP-MW-14        | 0.003          | 0.000939       | 0.006       | No         | 13        | 76.92    | No        | 0.01        | NP (NDs)       |
| Antimony (mg/L)       | GN-AP-MW-15R       | 0.003          | 0.000998       | 0.006       | No         | 16        | 75       | No        | 0.01        | NP (normality) |
| Antimony (mg/L)       | GN-AP-MW-16        | 0.003          | 0.000838       | 0.006       | No         | 13        | 84.62    | No        | 0.01        | NP (NDs)       |
| Antimony (mg/L)       | GN-AP-MW-17        | 0.00135        | 0.000774       | 0.006       | No         | 13        | 15.38    | No        | 0.01        | NP (normality) |
| Antimony (mg/L)       | GN-AP-MW-18        | 0.003          | 0.000728       | 0.006       | No         | 13        | 92.31    | No        | 0.01        | NP (NDs)       |
| Antimony (mg/L)       | GN-AP-MW-19        | 0.003          | 0.00123        | 0.006       | No         | 13        | 92.31    | No        | 0.01        | NP (NDs)       |
| Antimony (mg/L)       | GN-AP-MW-20        | 0.003          | 0.000643       | 0.006       | No         | 13        | 92.31    | No        | 0.01        | NP (NDs)       |
| Antimony (mg/L)       | GN-AP-MW-21        | 0.003          | 0.003          | 0.006       | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Antimony (mg/L)       | GN-AP-MW-22        | 0.003          | 0.000678       | 0.006       | No         | 13        | 92.31    | No        | 0.01        | NP (NDs)       |
| Arsenic (mg/L)        | GN-AP-MW-4         | 0.005          | 0.002          | 0.01        | No         | 13        | 92.31    | No        | 0.01        | NP (NDs)       |
| Arsenic (mg/L)        | GN-AP-MW-5         | 0.005          | 0.005          | 0.01        | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Arsenic (mg/L)        | GN-AP-MW-6         | 0.005          | 0.00105        | 0.01        | No         | 13        | 92.31    | No        | 0.01        | NP (NDs)       |
| Arsenic (mg/L)        | GN-AP-MW-7         | 0.005          | 0.005          | 0.01        | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Arsenic (mg/L)        | GN-AP-MW-8         | 0.002273       | 0.00159        | 0.01        | No         | 13        | 0        | No        | 0.01        | Param.         |
| Arsenic (mg/L)        | GN-AP-MW-9         | 0.002742       | 0.001719       | 0.01        | No         | 13        | 0        | sqrt(x)   | 0.01        | Param.         |
| Arsenic (mg/L)        | GN-AP-MW-10        | 0.005          | 0.00105        | 0.01        | No         | 13        | 92.31    | No        | 0.01        | NP (NDs)       |
| Arsenic (mg/L)        | GN-AP-MW-11        | 0.005          | 0.005          | 0.01        | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Arsenic (mg/L)        | GN-AP-MW-12        | 0.006604       | 0.002633       | 0.01        | No         | 13        | 0        | No        | 0.01        | Param.         |
| Arsenic (mg/L)        | GN-AP-MW-13        | 0.005          | 0.005          | 0.01        | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Arsenic (mg/L)        | GN-AP-MW-14        | 0.005          | 0.00112        | 0.01        | No         | 13        | 61.54    | No        | 0.01        | NP (normality) |
| Arsenic (mg/L)        | GN-AP-MW-15R       | 0.005          | 0.0016         | 0.01        | No         | 16        | 68.75    | No        | 0.01        | NP (normality) |
| Arsenic (mg/L)        | GN-AP-MW-16        | 0.004657       | 0.003894       | 0.01        | No         | 13        | 0        | No        | 0.01        | Param.         |
| <b>Arsenic (mg/L)</b> | <b>GN-AP-MW-17</b> | <b>0.01286</b> | <b>0.01153</b> | <b>0.01</b> | <b>Yes</b> | <b>13</b> | <b>0</b> | <b>No</b> | <b>0.01</b> | <b>Param.</b>  |
| Arsenic (mg/L)        | GN-AP-MW-18        | 0.00308        | 0.00232        | 0.01        | No         | 13        | 0        | No        | 0.01        | NP (normality) |
| Arsenic (mg/L)        | GN-AP-MW-19        | 0.004479       | 0.003031       | 0.01        | No         | 13        | 0        | No        | 0.01        | Param.         |
| Arsenic (mg/L)        | GN-AP-MW-20        | 0.00428        | 0.00369        | 0.01        | No         | 13        | 0        | No        | 0.01        | NP (normality) |
| Arsenic (mg/L)        | GN-AP-MW-21        | 0.005023       | 0.00234        | 0.01        | No         | 13        | 0        | sqrt(x)   | 0.01        | Param.         |
| Arsenic (mg/L)        | GN-AP-MW-22        | 0.005          | 0.00135        | 0.01        | No         | 13        | 38.46    | No        | 0.01        | NP (normality) |
| Barium (mg/L)         | GN-AP-MW-4         | 0.02846        | 0.02163        | 2           | No         | 13        | 0        | No        | 0.01        | Param.         |
| Barium (mg/L)         | GN-AP-MW-5         | 0.03677        | 0.02921        | 2           | No         | 13        | 0        | No        | 0.01        | Param.         |
| Barium (mg/L)         | GN-AP-MW-6         | 0.02476        | 0.01819        | 2           | No         | 13        | 0        | No        | 0.01        | Param.         |
| Barium (mg/L)         | GN-AP-MW-7         | 0.02677        | 0.02165        | 2           | No         | 13        | 0        | No        | 0.01        | Param.         |
| Barium (mg/L)         | GN-AP-MW-8         | 0.02347        | 0.01769        | 2           | No         | 13        | 0        | No        | 0.01        | Param.         |
| Barium (mg/L)         | GN-AP-MW-9         | 0.1065         | 0.08448        | 2           | No         | 13        | 0        | No        | 0.01        | Param.         |
| Barium (mg/L)         | GN-AP-MW-10        | 0.01487        | 0.01207        | 2           | No         | 13        | 0        | sqrt(x)   | 0.01        | Param.         |
| Barium (mg/L)         | GN-AP-MW-11        | 0.01046        | 0.008951       | 2           | No         | 13        | 0        | No        | 0.01        | Param.         |
| Barium (mg/L)         | GN-AP-MW-12        | 0.07516        | 0.06631        | 2           | No         | 13        | 0        | No        | 0.01        | Param.         |
| Barium (mg/L)         | GN-AP-MW-13        | 0.03701        | 0.03299        | 2           | No         | 13        | 0        | No        | 0.01        | Param.         |
| Barium (mg/L)         | GN-AP-MW-14        | 0.07091        | 0.04879        | 2           | No         | 13        | 0        | No        | 0.01        | Param.         |
| Barium (mg/L)         | GN-AP-MW-15R       | 0.0856         | 0.0267         | 2           | No         | 16        | 0        | No        | 0.01        | NP (normality) |
| Barium (mg/L)         | GN-AP-MW-16        | 0.03329        | 0.02844        | 2           | No         | 13        | 0        | No        | 0.01        | Param.         |
| Barium (mg/L)         | GN-AP-MW-17        | 0.09823        | 0.07798        | 2           | No         | 13        | 0        | No        | 0.01        | Param.         |
| Barium (mg/L)         | GN-AP-MW-18        | 0.04598        | 0.04068        | 2           | No         | 13        | 0        | No        | 0.01        | Param.         |
| Barium (mg/L)         | GN-AP-MW-19        | 0.04161        | 0.02245        | 2           | No         | 13        | 0        | No        | 0.01        | Param.         |
| Barium (mg/L)         | GN-AP-MW-20        | 0.06949        | 0.05965        | 2           | No         | 13        | 0        | No        | 0.01        | Param.         |
| Barium (mg/L)         | GN-AP-MW-21        | 0.04523        | 0.02401        | 2           | No         | 13        | 0        | No        | 0.01        | Param.         |
| Barium (mg/L)         | GN-AP-MW-22        | 0.07639        | 0.03898        | 2           | No         | 13        | 0        | ln(x)     | 0.01        | Param.         |
| Beryllium (mg/L)      | GN-AP-MW-4         | 0.003          | 0.003          | 0.004       | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Beryllium (mg/L)      | GN-AP-MW-5         | 0.003          | 0.003          | 0.004       | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Beryllium (mg/L)      | GN-AP-MW-6         | 0.003          | 0.003          | 0.004       | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Beryllium (mg/L)      | GN-AP-MW-7         | 0.003          | 0.003          | 0.004       | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Beryllium (mg/L)      | GN-AP-MW-8         | 0.003          | 0.003          | 0.004       | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Beryllium (mg/L)      | GN-AP-MW-9         | 0.003          | 0.003          | 0.004       | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Beryllium (mg/L)      | GN-AP-MW-10        | 0.003          | 0.003          | 0.004       | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Beryllium (mg/L)      | GN-AP-MW-11        | 0.003          | 0.003          | 0.004       | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Beryllium (mg/L)      | GN-AP-MW-12        | 0.003          | 0.003          | 0.004       | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Beryllium (mg/L)      | GN-AP-MW-13        | 0.003          | 0.003          | 0.004       | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Beryllium (mg/L)      | GN-AP-MW-14        | 0.003          | 0.00119        | 0.004       | No         | 13        | 92.31    | No        | 0.01        | NP (NDs)       |

# Confidence Intervals - All Results

Plant Gaston    Client: Southern Company    Data: Gaston Ash Pond    Printed 1/17/2020, 12:46 PM

| Constituent                       | Well         | Upper Lim. | Lower Lim. | Compliance | Sig. | N  | %NDs  | Transform | Alpha | Method           |
|-----------------------------------|--------------|------------|------------|------------|------|----|-------|-----------|-------|------------------|
| Beryllium (mg/L)                  | GN-AP-MW-15R | 0.003      | 0.003      | 0.004      | No   | 16 | 100   | No        | 0.01  | NP (NDs)         |
| Beryllium (mg/L)                  | GN-AP-MW-16  | 0.003      | 0.003      | 0.004      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Beryllium (mg/L)                  | GN-AP-MW-17  | 0.003      | 0.003      | 0.004      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Beryllium (mg/L)                  | GN-AP-MW-18  | 0.003      | 0.003      | 0.004      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Beryllium (mg/L)                  | GN-AP-MW-19  | 0.003      | 0.003      | 0.004      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Beryllium (mg/L)                  | GN-AP-MW-20  | 0.003      | 0.003      | 0.004      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Beryllium (mg/L)                  | GN-AP-MW-21  | 0.003      | 0.003      | 0.004      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Beryllium (mg/L)                  | GN-AP-MW-22  | 0.003      | 0.003      | 0.004      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Cadmium (mg/L)                    | GN-AP-MW-4   | 0.001      | 0.001      | 0.005      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Cadmium (mg/L)                    | GN-AP-MW-5   | 0.001      | 0.001      | 0.005      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Cadmium (mg/L)                    | GN-AP-MW-6   | 0.001      | 0.001      | 0.005      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Cadmium (mg/L)                    | GN-AP-MW-7   | 0.001      | 0.001      | 0.005      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Cadmium (mg/L)                    | GN-AP-MW-8   | 0.001      | 0.001      | 0.005      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Cadmium (mg/L)                    | GN-AP-MW-9   | 0.001      | 0.001      | 0.005      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Cadmium (mg/L)                    | GN-AP-MW-10  | 0.001      | 0.001      | 0.005      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Cadmium (mg/L)                    | GN-AP-MW-11  | 0.001      | 0.001      | 0.005      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Cadmium (mg/L)                    | GN-AP-MW-12  | 0.001      | 0.001      | 0.005      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Cadmium (mg/L)                    | GN-AP-MW-13  | 0.001      | 0.001      | 0.005      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Cadmium (mg/L)                    | GN-AP-MW-14  | 0.00133    | 0.001      | 0.005      | No   | 13 | 92.31 | No        | 0.01  | NP (NDs)         |
| Cadmium (mg/L)                    | GN-AP-MW-15R | 0.001      | 0.001      | 0.005      | No   | 16 | 100   | No        | 0.01  | NP (NDs)         |
| Cadmium (mg/L)                    | GN-AP-MW-16  | 0.001      | 0.001      | 0.005      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Cadmium (mg/L)                    | GN-AP-MW-17  | 0.00051    | 0.000216   | 0.005      | No   | 13 | 15.38 | No        | 0.01  | NP (Cohens/xfrm) |
| Cadmium (mg/L)                    | GN-AP-MW-18  | 0.001      | 0.001      | 0.005      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Cadmium (mg/L)                    | GN-AP-MW-19  | 0.001      | 0.001      | 0.005      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Cadmium (mg/L)                    | GN-AP-MW-20  | 0.001      | 0.001      | 0.005      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Cadmium (mg/L)                    | GN-AP-MW-21  | 0.001      | 0.001      | 0.005      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Cadmium (mg/L)                    | GN-AP-MW-22  | 0.001      | 0.001      | 0.005      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Chromium (mg/L)                   | GN-AP-MW-4   | 0.01       | 0.00322    | 0.1        | No   | 13 | 92.31 | No        | 0.01  | NP (NDs)         |
| Chromium (mg/L)                   | GN-AP-MW-5   | 0.01       | 0.01       | 0.1        | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Chromium (mg/L)                   | GN-AP-MW-6   | 0.01       | 0.01       | 0.1        | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Chromium (mg/L)                   | GN-AP-MW-7   | 0.01       | 0.01       | 0.1        | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Chromium (mg/L)                   | GN-AP-MW-8   | 0.01       | 0.00395    | 0.1        | No   | 13 | 92.31 | No        | 0.01  | NP (NDs)         |
| Chromium (mg/L)                   | GN-AP-MW-9   | 0.01       | 0.01       | 0.1        | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Chromium (mg/L)                   | GN-AP-MW-10  | 0.01       | 0.01       | 0.1        | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Chromium (mg/L)                   | GN-AP-MW-11  | 0.01       | 0.01       | 0.1        | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Chromium (mg/L)                   | GN-AP-MW-12  | 0.01       | 0.01       | 0.1        | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Chromium (mg/L)                   | GN-AP-MW-13  | 0.01       | 0.01       | 0.1        | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Chromium (mg/L)                   | GN-AP-MW-14  | 0.01       | 0.00577    | 0.1        | No   | 13 | 92.31 | No        | 0.01  | NP (NDs)         |
| Chromium (mg/L)                   | GN-AP-MW-15R | 0.01       | 0.01       | 0.1        | No   | 16 | 100   | No        | 0.01  | NP (NDs)         |
| Chromium (mg/L)                   | GN-AP-MW-16  | 0.01       | 0.01       | 0.1        | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Chromium (mg/L)                   | GN-AP-MW-17  | 0.01       | 0.01       | 0.1        | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Chromium (mg/L)                   | GN-AP-MW-18  | 0.01       | 0.01       | 0.1        | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Chromium (mg/L)                   | GN-AP-MW-19  | 0.01       | 0.01       | 0.1        | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Chromium (mg/L)                   | GN-AP-MW-20  | 0.01       | 0.01       | 0.1        | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Chromium (mg/L)                   | GN-AP-MW-21  | 0.01       | 0.01       | 0.1        | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Chromium (mg/L)                   | GN-AP-MW-22  | 0.01       | 0.01       | 0.1        | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Cobalt (mg/L)                     | GN-AP-MW-4   | 0.005      | 0.005      | 0.006      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Cobalt (mg/L)                     | GN-AP-MW-5   | 0.005      | 0.005      | 0.006      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Cobalt (mg/L)                     | GN-AP-MW-6   | 0.005      | 0.005      | 0.006      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Cobalt (mg/L)                     | GN-AP-MW-7   | 0.005      | 0.005      | 0.006      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Cobalt (mg/L)                     | GN-AP-MW-8   | 0.005      | 0.005      | 0.006      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Cobalt (mg/L)                     | GN-AP-MW-9   | 0.005      | 0.005      | 0.006      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Cobalt (mg/L)                     | GN-AP-MW-10  | 0.005      | 0.005      | 0.006      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Cobalt (mg/L)                     | GN-AP-MW-11  | 0.005      | 0.005      | 0.006      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Cobalt (mg/L)                     | GN-AP-MW-12  | 0.005      | 0.005      | 0.006      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Cobalt (mg/L)                     | GN-AP-MW-13  | 0.005      | 0.005      | 0.006      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Cobalt (mg/L)                     | GN-AP-MW-14  | 0.00969    | 0.005      | 0.006      | No   | 13 | 92.31 | No        | 0.01  | NP (NDs)         |
| Cobalt (mg/L)                     | GN-AP-MW-15R | 0.005      | 0.00396    | 0.006      | No   | 16 | 87.5  | No        | 0.01  | NP (NDs)         |
| Cobalt (mg/L)                     | GN-AP-MW-16  | 0.005      | 0.005      | 0.006      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Cobalt (mg/L)                     | GN-AP-MW-17  | 0.005      | 0.005      | 0.006      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Cobalt (mg/L)                     | GN-AP-MW-18  | 0.005      | 0.005      | 0.006      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Cobalt (mg/L)                     | GN-AP-MW-19  | 0.005      | 0.005      | 0.006      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Cobalt (mg/L)                     | GN-AP-MW-20  | 0.005      | 0.005      | 0.006      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Cobalt (mg/L)                     | GN-AP-MW-21  | 0.005      | 0.005      | 0.006      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Cobalt (mg/L)                     | GN-AP-MW-22  | 0.005      | 0.005      | 0.006      | No   | 13 | 100   | No        | 0.01  | NP (NDs)         |
| Combined Radium 226 + 228 (pCi/L) | GN-AP-MW-4   | 1.242      | 0.08198    | 5          | No   | 12 | 0     | x^(1/3)   | 0.01  | Param.           |
| Combined Radium 226 + 228 (pCi/L) | GN-AP-MW-5   | 0.84       | 0.435      | 5          | No   | 12 | 0     | No        | 0.01  | NP (normality)   |
| Combined Radium 226 + 228 (pCi/L) | GN-AP-MW-6   | 1.144      | 0.2031     | 5          | No   | 12 | 0     | sqrt(x)   | 0.01  | Param.           |

# Confidence Intervals - All Results

Plant Gaston    Client: Southern Company    Data: Gaston Ash Pond    Printed 1/17/2020, 12:46 PM

| Constituent                              | Well               | Upper Lim.     | Lower Lim.     | Compliance  | Sig.       | N         | %NDs     | Transform      | Alpha       | Method           |
|------------------------------------------|--------------------|----------------|----------------|-------------|------------|-----------|----------|----------------|-------------|------------------|
| Combined Radium 226 + 228 (pCi/L)        | GN-AP-MW-7         | 0.6591         | 0.1223         | 5           | No         | 11        | 0        | No             | 0.01        | Param.           |
| Combined Radium 226 + 228 (pCi/L)        | GN-AP-MW-8         | 0.5294         | -0.02119       | 5           | No         | 12        | 0        | x^(1/3)        | 0.01        | Param.           |
| Combined Radium 226 + 228 (pCi/L)        | GN-AP-MW-9         | 1.089          | 0.1865         | 5           | No         | 12        | 0        | sqrt(x)        | 0.01        | Param.           |
| Combined Radium 226 + 228 (pCi/L)        | GN-AP-MW-10        | 0.629          | 0.26           | 5           | No         | 12        | 0        | No             | 0.01        | NP (normality)   |
| Combined Radium 226 + 228 (pCi/L)        | GN-AP-MW-11        | 0.703          | 0.2            | 5           | No         | 12        | 0        | No             | 0.01        | NP (normality)   |
| Combined Radium 226 + 228 (pCi/L)        | GN-AP-MW-12        | 1.419          | 0.7024         | 5           | No         | 12        | 0        | ln(x)          | 0.01        | Param.           |
| Combined Radium 226 + 228 (pCi/L)        | GN-AP-MW-13        | 1.04           | 0.539          | 5           | No         | 12        | 0        | No             | 0.01        | NP (normality)   |
| Combined Radium 226 + 228 (pCi/L)        | GN-AP-MW-14        | 0.955          | 0.119          | 5           | No         | 12        | 0        | No             | 0.01        | NP (normality)   |
| Combined Radium 226 + 228 (pCi/L)        | GN-AP-MW-15R       | 1.25           | 0.4057         | 5           | No         | 15        | 0        | sqrt(x)        | 0.01        | Param.           |
| Combined Radium 226 + 228 (pCi/L)        | GN-AP-MW-16        | 3.639          | 2.955          | 5           | No         | 12        | 0        | No             | 0.01        | Param.           |
| Combined Radium 226 + 228 (pCi/L)        | GN-AP-MW-17        | 1.637          | 0.5942         | 5           | No         | 12        | 0        | sqrt(x)        | 0.01        | Param.           |
| Combined Radium 226 + 228 (pCi/L)        | GN-AP-MW-18        | 1.783          | 0.9796         | 5           | No         | 12        | 0        | sqrt(x)        | 0.01        | Param.           |
| Combined Radium 226 + 228 (pCi/L)        | GN-AP-MW-19        | 1.099          | 0.2528         | 5           | No         | 12        | 0        | x^(1/3)        | 0.01        | Param.           |
| <b>Combined Radium 226 + 228 (pCi/L)</b> | <b>GN-AP-MW-20</b> | <b>18.15</b>   | <b>14.15</b>   | <b>5</b>    | <b>Yes</b> | <b>12</b> | <b>0</b> | <b>No</b>      | <b>0.01</b> | <b>Param.</b>    |
| Combined Radium 226 + 228 (pCi/L)        | GN-AP-MW-21        | 1.011          | 0.3583         | 5           | No         | 12        | 0        | No             | 0.01        | Param.           |
| Combined Radium 226 + 228 (pCi/L)        | GN-AP-MW-22        | 0.7488         | 0.3555         | 5           | No         | 12        | 0        | No             | 0.01        | Param.           |
| Fluoride (mg/L)                          | GN-AP-MW-4         | 0.1            | 0.054          | 4           | No         | 14        | 71.43    | No             | 0.01        | NP (normality)   |
| Fluoride (mg/L)                          | GN-AP-MW-5         | 0.06621        | 0.04083        | 4           | No         | 14        | 7.143    | No             | 0.01        | Param.           |
| Fluoride (mg/L)                          | GN-AP-MW-6         | 0.07521        | 0.04208        | 4           | No         | 14        | 14.29    | No             | 0.01        | Param.           |
| Fluoride (mg/L)                          | GN-AP-MW-7         | 0.1            | 0.034          | 4           | No         | 14        | 21.43    | No             | 0.01        | NP (Cohens/xfrm) |
| Fluoride (mg/L)                          | GN-AP-MW-8         | 0.1092         | 0.0822         | 4           | No         | 14        | 7.143    | No             | 0.01        | Param.           |
| Fluoride (mg/L)                          | GN-AP-MW-9         | 0.1256         | 0.09379        | 4           | No         | 14        | 7.143    | x^2            | 0.01        | Param.           |
| Fluoride (mg/L)                          | GN-AP-MW-10        | 0.1            | 0.04           | 4           | No         | 14        | 35.71    | No             | 0.01        | NP (normality)   |
| Fluoride (mg/L)                          | GN-AP-MW-11        | 0.1            | 0.04           | 4           | No         | 14        | 64.29    | No             | 0.01        | NP (normality)   |
| Fluoride (mg/L)                          | GN-AP-MW-12        | 0.1            | 0.039          | 4           | No         | 14        | 21.43    | No             | 0.01        | NP (Cohens/xfrm) |
| Fluoride (mg/L)                          | GN-AP-MW-13        | 0.07282        | 0.04348        | 4           | No         | 14        | 14.29    | sqrt(x)        | 0.01        | Param.           |
| Fluoride (mg/L)                          | GN-AP-MW-14        | 0.1204         | 0.09122        | 4           | No         | 14        | 7.143    | No             | 0.01        | Param.           |
| Fluoride (mg/L)                          | GN-AP-MW-15R       | 0.104          | 0.067          | 4           | No         | 17        | 11.76    | No             | 0.01        | NP (normality)   |
| Fluoride (mg/L)                          | GN-AP-MW-16        | 0.1359         | 0.1024         | 4           | No         | 14        | 0        | x^2            | 0.01        | Param.           |
| Fluoride (mg/L)                          | GN-AP-MW-17        | 0.2304         | 0.1841         | 4           | No         | 14        | 0        | x^2            | 0.01        | Param.           |
| Fluoride (mg/L)                          | GN-AP-MW-18        | 0.06819        | 0.04251        | 4           | No         | 14        | 7.143    | No             | 0.01        | Param.           |
| Fluoride (mg/L)                          | GN-AP-MW-19        | 0.075          | 0.04248        | 4           | No         | 14        | 14.29    | sqrt(x)        | 0.01        | Param.           |
| Fluoride (mg/L)                          | GN-AP-MW-20        | 0.1            | 0.035          | 4           | No         | 14        | 21.43    | No             | 0.01        | NP (Cohens/xfrm) |
| Fluoride (mg/L)                          | GN-AP-MW-21        | 0.1185         | 0.06279        | 4           | No         | 14        | 35.71    | No             | 0.01        | Param.           |
| Fluoride (mg/L)                          | GN-AP-MW-22        | 0.096          | 0.06           | 4           | No         | 14        | 14.29    | No             | 0.01        | NP (normality)   |
| Lead (mg/L)                              | GN-AP-MW-4         | 0.005          | 0.00247        | 0.015       | No         | 13        | 92.31    | No             | 0.01        | NP (NDs)         |
| Lead (mg/L)                              | GN-AP-MW-5         | 0.005          | 0.005          | 0.015       | No         | 13        | 100      | No             | 0.01        | NP (NDs)         |
| Lead (mg/L)                              | GN-AP-MW-6         | 0.005          | 0.005          | 0.015       | No         | 13        | 100      | No             | 0.01        | NP (NDs)         |
| Lead (mg/L)                              | GN-AP-MW-7         | 0.005          | 0.005          | 0.015       | No         | 13        | 100      | No             | 0.01        | NP (NDs)         |
| Lead (mg/L)                              | GN-AP-MW-8         | 0.005          | 0.005          | 0.015       | No         | 13        | 100      | No             | 0.01        | NP (NDs)         |
| Lead (mg/L)                              | GN-AP-MW-9         | 0.005          | 0.005          | 0.015       | No         | 13        | 100      | No             | 0.01        | NP (NDs)         |
| Lead (mg/L)                              | GN-AP-MW-10        | 0.005          | 0.005          | 0.015       | No         | 13        | 100      | No             | 0.01        | NP (NDs)         |
| Lead (mg/L)                              | GN-AP-MW-11        | 0.005          | 0.005          | 0.015       | No         | 13        | 100      | No             | 0.01        | NP (NDs)         |
| Lead (mg/L)                              | GN-AP-MW-12        | 0.005          | 0.005          | 0.015       | No         | 13        | 100      | No             | 0.01        | NP (NDs)         |
| Lead (mg/L)                              | GN-AP-MW-13        | 0.005          | 0.005          | 0.015       | No         | 13        | 100      | No             | 0.01        | NP (NDs)         |
| Lead (mg/L)                              | GN-AP-MW-14        | 0.005          | 0.00114        | 0.015       | No         | 12        | 91.67    | No             | 0.01        | NP (NDs)         |
| Lead (mg/L)                              | GN-AP-MW-15R       | 0.005          | 0.005          | 0.015       | No         | 16        | 100      | No             | 0.01        | NP (NDs)         |
| Lead (mg/L)                              | GN-AP-MW-16        | 0.005          | 0.005          | 0.015       | No         | 13        | 100      | No             | 0.01        | NP (NDs)         |
| Lead (mg/L)                              | GN-AP-MW-17        | 0.005          | 0.005          | 0.015       | No         | 13        | 100      | No             | 0.01        | NP (NDs)         |
| Lead (mg/L)                              | GN-AP-MW-18        | 0.005          | 0.005          | 0.015       | No         | 13        | 100      | No             | 0.01        | NP (NDs)         |
| Lead (mg/L)                              | GN-AP-MW-19        | 0.005          | 0.005          | 0.015       | No         | 13        | 100      | No             | 0.01        | NP (NDs)         |
| Lead (mg/L)                              | GN-AP-MW-20        | 0.005          | 0.005          | 0.015       | No         | 13        | 100      | No             | 0.01        | NP (NDs)         |
| Lead (mg/L)                              | GN-AP-MW-21        | 0.005          | 0.005          | 0.015       | No         | 13        | 100      | No             | 0.01        | NP (NDs)         |
| Lead (mg/L)                              | GN-AP-MW-22        | 0.005          | 0.005          | 0.015       | No         | 13        | 100      | No             | 0.01        | NP (NDs)         |
| Lithium (mg/L)                           | GN-AP-MW-4         | 0.02           | 0.015          | 0.04        | No         | 13        | 92.31    | No             | 0.01        | NP (NDs)         |
| Lithium (mg/L)                           | GN-AP-MW-5         | 0.04631        | 0.03467        | 0.04        | No         | 13        | 0        | No             | 0.01        | Param.           |
| Lithium (mg/L)                           | GN-AP-MW-6         | 0.02           | 0.02           | 0.04        | No         | 13        | 100      | No             | 0.01        | NP (NDs)         |
| Lithium (mg/L)                           | GN-AP-MW-7         | 0.02           | 0.02           | 0.04        | No         | 13        | 100      | No             | 0.01        | NP (NDs)         |
| Lithium (mg/L)                           | GN-AP-MW-8         | 0.02           | 0.02           | 0.04        | No         | 13        | 100      | No             | 0.01        | NP (NDs)         |
| Lithium (mg/L)                           | GN-AP-MW-9         | 0.02           | 0.02           | 0.04        | No         | 13        | 100      | No             | 0.01        | NP (NDs)         |
| Lithium (mg/L)                           | GN-AP-MW-10        | 0.02           | 0.02           | 0.04        | No         | 13        | 100      | No             | 0.01        | NP (NDs)         |
| Lithium (mg/L)                           | GN-AP-MW-11        | 0.02           | 0.02           | 0.04        | No         | 13        | 100      | No             | 0.01        | NP (NDs)         |
| Lithium (mg/L)                           | GN-AP-MW-12        | 0.02           | 0.02           | 0.04        | No         | 13        | 100      | No             | 0.01        | NP (NDs)         |
| Lithium (mg/L)                           | GN-AP-MW-13        | 0.02           | 0.02           | 0.04        | No         | 13        | 100      | No             | 0.01        | NP (NDs)         |
| Lithium (mg/L)                           | GN-AP-MW-14        | 0.02           | 0.0107         | 0.04        | No         | 13        | 92.31    | No             | 0.01        | NP (NDs)         |
| Lithium (mg/L)                           | GN-AP-MW-15R       | 0.08588        | 0.02593        | 0.04        | No         | 16        | 12.5     | x^(1/3)        | 0.01        | Param.           |
| <b>Lithium (mg/L)</b>                    | <b>GN-AP-MW-16</b> | <b>0.08223</b> | <b>0.07336</b> | <b>0.04</b> | <b>Yes</b> | <b>13</b> | <b>0</b> | <b>No</b>      | <b>0.01</b> | <b>Param.</b>    |
| <b>Lithium (mg/L)</b>                    | <b>GN-AP-MW-17</b> | <b>0.6682</b>  | <b>0.5732</b>  | <b>0.04</b> | <b>Yes</b> | <b>13</b> | <b>0</b> | <b>sqrt(x)</b> | <b>0.01</b> | <b>Param.</b>    |

# Confidence Intervals - All Results

Plant Gaston    Client: Southern Company    Data: Gaston Ash Pond    Printed 1/17/2020, 12:46 PM

| Constituent              | Well               | Upper Lim.    | Lower Lim.    | Compliance  | Sig.       | N         | %NDs     | Transform | Alpha       | Method         |
|--------------------------|--------------------|---------------|---------------|-------------|------------|-----------|----------|-----------|-------------|----------------|
| Lithium (mg/L)           | GN-AP-MW-18        | 0.04191       | 0.03514       | 0.04        | No         | 13        | 0        | No        | 0.01        | Param.         |
| Lithium (mg/L)           | GN-AP-MW-19        | 0.02          | 0.02          | 0.04        | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| <b>Lithium (mg/L)</b>    | <b>GN-AP-MW-20</b> | <b>0.1218</b> | <b>0.1062</b> | <b>0.04</b> | <b>Yes</b> | <b>13</b> | <b>0</b> | <b>No</b> | <b>0.01</b> | <b>Param.</b>  |
| Lithium (mg/L)           | GN-AP-MW-21        | 0.02          | 0.02          | 0.04        | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Lithium (mg/L)           | GN-AP-MW-22        | 0.02          | 0.02          | 0.04        | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-4         | 0.0005        | 0.000278      | 0.002       | No         | 13        | 92.31    | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-5         | 0.0005        | 0.0005        | 0.002       | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-6         | 0.0005        | 0.0005        | 0.002       | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-7         | 0.0005        | 0.0005        | 0.002       | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-8         | 0.0005        | 0.0005        | 0.002       | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-9         | 0.0005        | 0.0005        | 0.002       | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-10        | 0.0005        | 0.0005        | 0.002       | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-11        | 0.0005        | 0.0005        | 0.002       | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-12        | 0.0005        | 0.0005        | 0.002       | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-13        | 0.0005        | 0.0005        | 0.002       | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-14        | 0.0005        | 0.0005        | 0.002       | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-15R       | 0.0005        | 0.0005        | 0.002       | No         | 16        | 100      | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-16        | 0.0005        | 0.0005        | 0.002       | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-17        | 0.0005        | 0.0005        | 0.002       | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-18        | 0.0005        | 0.0005        | 0.002       | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-19        | 0.0005        | 0.0005        | 0.002       | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-20        | 0.0005        | 0.0005        | 0.002       | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-21        | 0.0005        | 0.0005        | 0.002       | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Mercury (mg/L)           | GN-AP-MW-22        | 0.0005        | 0.0005        | 0.002       | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Molybdenum (mg/L)        | GN-AP-MW-4         | 0.01          | 0.01          | 0.1         | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| <b>Molybdenum (mg/L)</b> | <b>GN-AP-MW-5</b>  | <b>0.3148</b> | <b>0.2181</b> | <b>0.1</b>  | <b>Yes</b> | <b>13</b> | <b>0</b> | <b>No</b> | <b>0.01</b> | <b>Param.</b>  |
| Molybdenum (mg/L)        | GN-AP-MW-6         | 0.01639       | 0.01098       | 0.1         | No         | 13        | 0        | No        | 0.01        | Param.         |
| Molybdenum (mg/L)        | GN-AP-MW-7         | 0.01          | 0.01          | 0.1         | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Molybdenum (mg/L)        | GN-AP-MW-8         | 0.01          | 0.0042        | 0.1         | No         | 13        | 84.62    | No        | 0.01        | NP (NDs)       |
| Molybdenum (mg/L)        | GN-AP-MW-9         | 0.01          | 0.00306       | 0.1         | No         | 13        | 69.23    | No        | 0.01        | NP (normality) |
| Molybdenum (mg/L)        | GN-AP-MW-10        | 0.01          | 0.01          | 0.1         | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Molybdenum (mg/L)        | GN-AP-MW-11        | 0.01          | 0.01          | 0.1         | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Molybdenum (mg/L)        | GN-AP-MW-12        | 0.01          | 0.01          | 0.1         | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Molybdenum (mg/L)        | GN-AP-MW-13        | 0.01          | 0.01          | 0.1         | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Molybdenum (mg/L)        | GN-AP-MW-14        | 0.01          | 0.00361       | 0.1         | No         | 13        | 92.31    | No        | 0.01        | NP (NDs)       |
| Molybdenum (mg/L)        | GN-AP-MW-15R       | 0.1956        | 0.06025       | 0.1         | No         | 16        | 0        | sqrt(x)   | 0.01        | Param.         |
| <b>Molybdenum (mg/L)</b> | <b>GN-AP-MW-16</b> | <b>0.3192</b> | <b>0.2754</b> | <b>0.1</b>  | <b>Yes</b> | <b>13</b> | <b>0</b> | <b>No</b> | <b>0.01</b> | <b>Param.</b>  |
| <b>Molybdenum (mg/L)</b> | <b>GN-AP-MW-17</b> | <b>2.302</b>  | <b>1.95</b>   | <b>0.1</b>  | <b>Yes</b> | <b>13</b> | <b>0</b> | <b>No</b> | <b>0.01</b> | <b>Param.</b>  |
| Molybdenum (mg/L)        | GN-AP-MW-18        | 0.02064       | 0.01702       | 0.1         | No         | 13        | 0        | No        | 0.01        | Param.         |
| Molybdenum (mg/L)        | GN-AP-MW-19        | 0.01376       | 0.01187       | 0.1         | No         | 13        | 0        | No        | 0.01        | Param.         |
| <b>Molybdenum (mg/L)</b> | <b>GN-AP-MW-20</b> | <b>0.7779</b> | <b>0.6662</b> | <b>0.1</b>  | <b>Yes</b> | <b>13</b> | <b>0</b> | <b>No</b> | <b>0.01</b> | <b>Param.</b>  |
| Molybdenum (mg/L)        | GN-AP-MW-21        | 0.01255       | 0.00547       | 0.1         | No         | 13        | 0        | No        | 0.01        | Param.         |
| Molybdenum (mg/L)        | GN-AP-MW-22        | 0.07996       | 0.06086       | 0.1         | No         | 13        | 0        | No        | 0.01        | Param.         |
| Selenium (mg/L)          | GN-AP-MW-4         | 0.01          | 0.01          | 0.05        | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Selenium (mg/L)          | GN-AP-MW-5         | 0.01          | 0.01          | 0.05        | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Selenium (mg/L)          | GN-AP-MW-6         | 0.01          | 0.01          | 0.05        | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Selenium (mg/L)          | GN-AP-MW-7         | 0.01          | 0.01          | 0.05        | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Selenium (mg/L)          | GN-AP-MW-8         | 0.01          | 0.01          | 0.05        | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Selenium (mg/L)          | GN-AP-MW-9         | 0.01          | 0.01          | 0.05        | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Selenium (mg/L)          | GN-AP-MW-10        | 0.01          | 0.01          | 0.05        | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Selenium (mg/L)          | GN-AP-MW-11        | 0.01          | 0.01          | 0.05        | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Selenium (mg/L)          | GN-AP-MW-12        | 0.01          | 0.01          | 0.05        | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Selenium (mg/L)          | GN-AP-MW-13        | 0.01          | 0.01          | 0.05        | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Selenium (mg/L)          | GN-AP-MW-14        | 0.01          | 0.01          | 0.05        | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Selenium (mg/L)          | GN-AP-MW-15R       | 0.01          | 0.01          | 0.05        | No         | 16        | 100      | No        | 0.01        | NP (NDs)       |
| Selenium (mg/L)          | GN-AP-MW-16        | 0.01          | 0.01          | 0.05        | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Selenium (mg/L)          | GN-AP-MW-17        | 0.01          | 0.01          | 0.05        | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Selenium (mg/L)          | GN-AP-MW-18        | 0.01          | 0.01          | 0.05        | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Selenium (mg/L)          | GN-AP-MW-19        | 0.01          | 0.01          | 0.05        | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Selenium (mg/L)          | GN-AP-MW-20        | 0.01          | 0.01          | 0.05        | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Selenium (mg/L)          | GN-AP-MW-21        | 0.01          | 0.01          | 0.05        | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Selenium (mg/L)          | GN-AP-MW-22        | 0.01          | 0.01          | 0.05        | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Thallium (mg/L)          | GN-AP-MW-4         | 0.001         | 0.001         | 0.002       | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Thallium (mg/L)          | GN-AP-MW-5         | 0.001         | 0.001         | 0.002       | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Thallium (mg/L)          | GN-AP-MW-6         | 0.001         | 0.001         | 0.002       | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Thallium (mg/L)          | GN-AP-MW-7         | 0.001         | 0.001         | 0.002       | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Thallium (mg/L)          | GN-AP-MW-8         | 0.001         | 0.001         | 0.002       | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |
| Thallium (mg/L)          | GN-AP-MW-9         | 0.001         | 0.001         | 0.002       | No         | 13        | 100      | No        | 0.01        | NP (NDs)       |

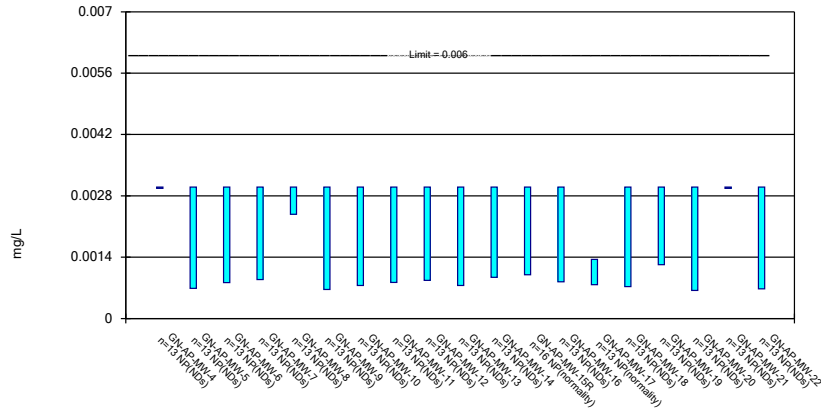
# Confidence Intervals - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 1/17/2020, 12:46 PM

| Constituent     | Well         | Upper Lim. | Lower Lim. | Compliance | Sig. | N  | %NDs | Transform | Alpha | Method   |
|-----------------|--------------|------------|------------|------------|------|----|------|-----------|-------|----------|
| Thallium (mg/L) | GN-AP-MW-10  | 0.001      | 0.001      | 0.002      | No   | 13 | 100  | No        | 0.01  | NP (NDs) |
| Thallium (mg/L) | GN-AP-MW-11  | 0.001      | 0.001      | 0.002      | No   | 13 | 100  | No        | 0.01  | NP (NDs) |
| Thallium (mg/L) | GN-AP-MW-12  | 0.001      | 0.001      | 0.002      | No   | 13 | 100  | No        | 0.01  | NP (NDs) |
| Thallium (mg/L) | GN-AP-MW-13  | 0.001      | 0.001      | 0.002      | No   | 13 | 100  | No        | 0.01  | NP (NDs) |
| Thallium (mg/L) | GN-AP-MW-14  | 0.001      | 0.001      | 0.002      | No   | 13 | 100  | No        | 0.01  | NP (NDs) |
| Thallium (mg/L) | GN-AP-MW-15R | 0.001      | 0.001      | 0.002      | No   | 16 | 100  | No        | 0.01  | NP (NDs) |
| Thallium (mg/L) | GN-AP-MW-16  | 0.001      | 0.001      | 0.002      | No   | 13 | 100  | No        | 0.01  | NP (NDs) |
| Thallium (mg/L) | GN-AP-MW-17  | 0.001      | 0.001      | 0.002      | No   | 13 | 100  | No        | 0.01  | NP (NDs) |
| Thallium (mg/L) | GN-AP-MW-18  | 0.0004078  | 0.0003424  | 0.002      | No   | 13 | 0    | No        | 0.01  | Param.   |
| Thallium (mg/L) | GN-AP-MW-19  | 0.001      | 0.001      | 0.002      | No   | 13 | 100  | No        | 0.01  | NP (NDs) |
| Thallium (mg/L) | GN-AP-MW-20  | 0.001      | 0.001      | 0.002      | No   | 13 | 100  | No        | 0.01  | NP (NDs) |
| Thallium (mg/L) | GN-AP-MW-21  | 0.001      | 0.001      | 0.002      | No   | 13 | 100  | No        | 0.01  | NP (NDs) |
| Thallium (mg/L) | GN-AP-MW-22  | 0.001      | 0.001      | 0.002      | No   | 13 | 100  | No        | 0.01  | NP (NDs) |

### Non-Parametric Confidence Interval

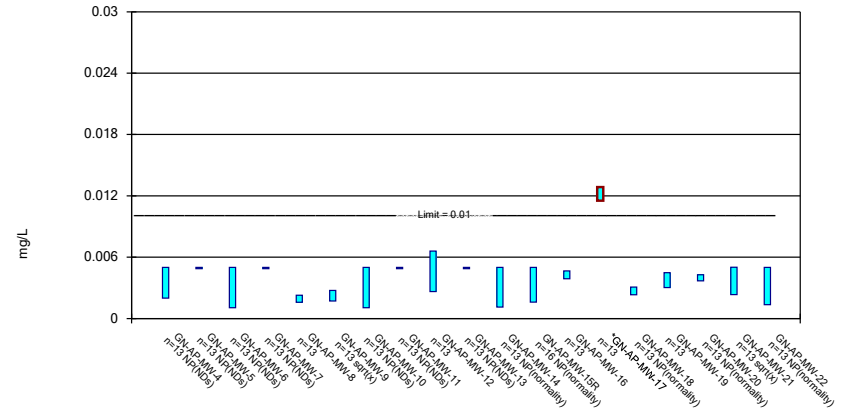
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 1/17/2020 12:43 PM View: Confidence Intervals - App IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

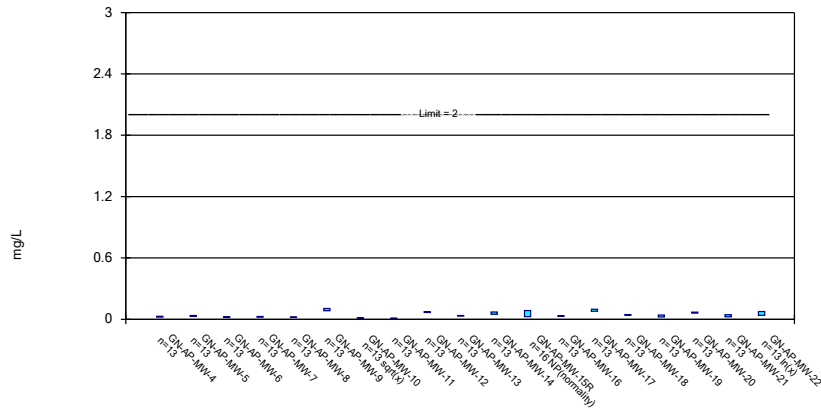
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 1/17/2020 12:43 PM View: Confidence Intervals - App IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

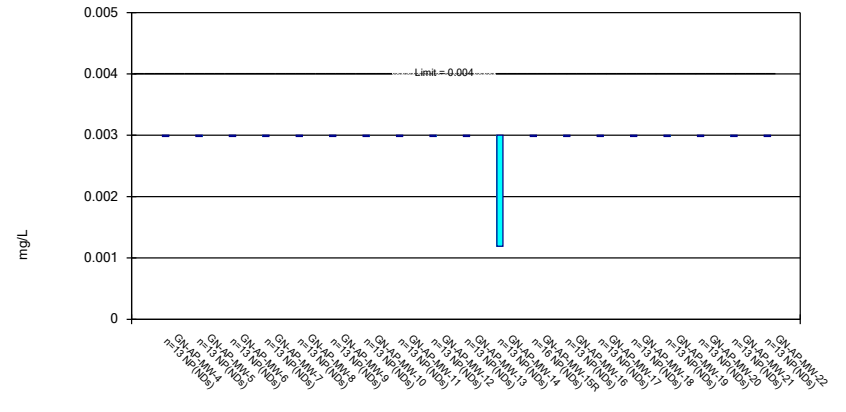
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 1/17/2020 12:43 PM View: Confidence Intervals - App IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Non-Parametric Confidence Interval

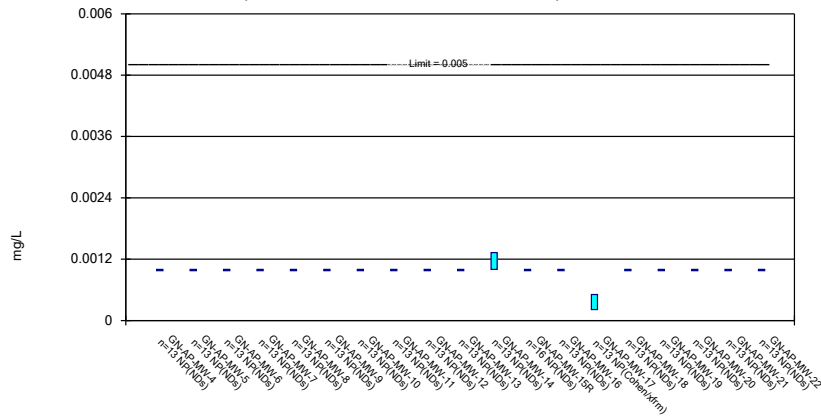
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 1/17/2020 12:43 PM View: Confidence Intervals - App IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Non-Parametric Confidence Interval

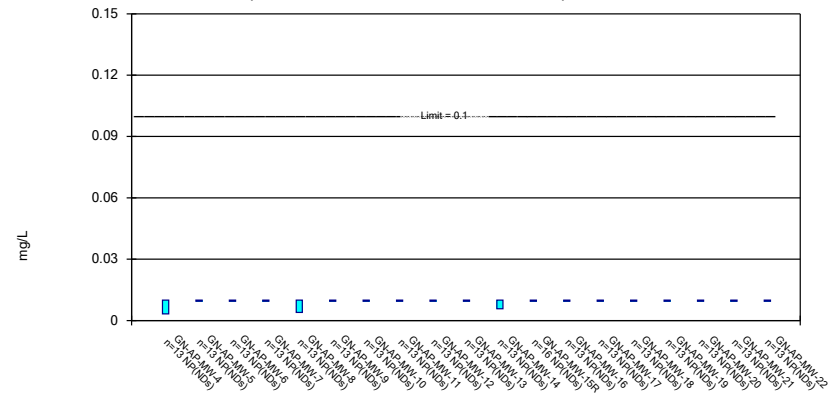
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 1/17/2020 12:43 PM View: Confidence Intervals - App IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Non-Parametric Confidence Interval

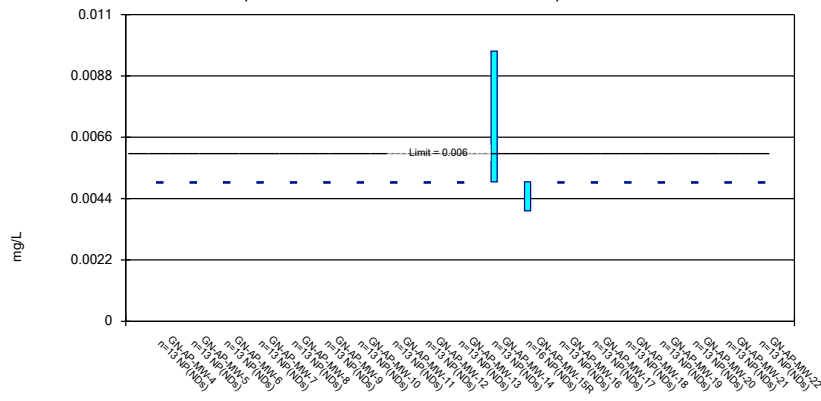
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 1/17/2020 12:43 PM View: Confidence Intervals - App IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Non-Parametric Confidence Interval

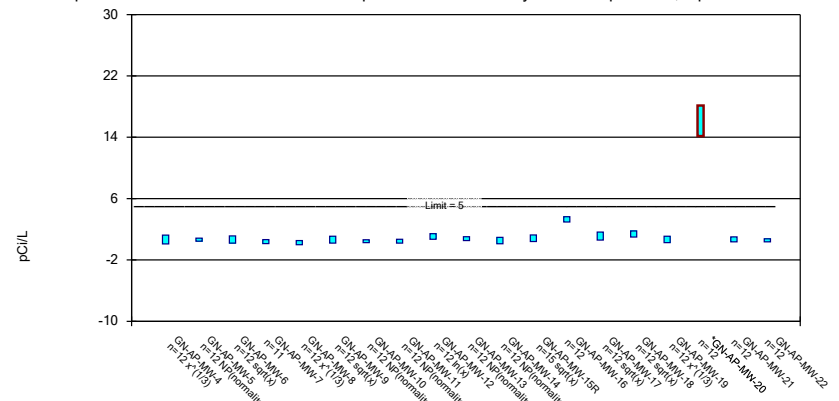
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cobalt Analysis Run 1/17/2020 12:43 PM View: Confidence Intervals - App IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

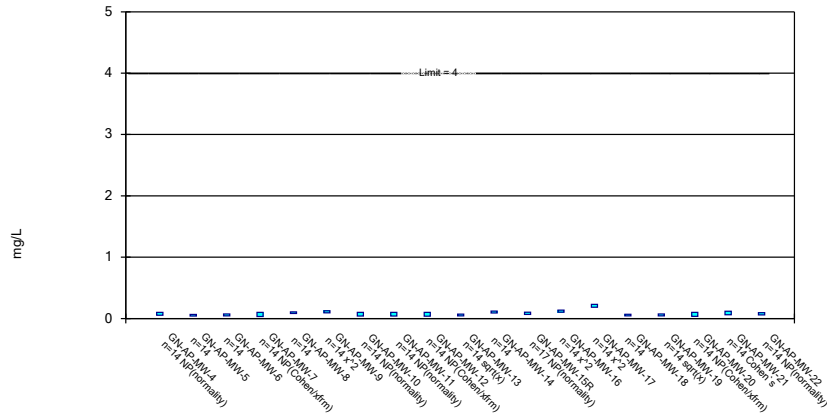
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 1/17/2020 12:44 PM View: Confidence Intervals -  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

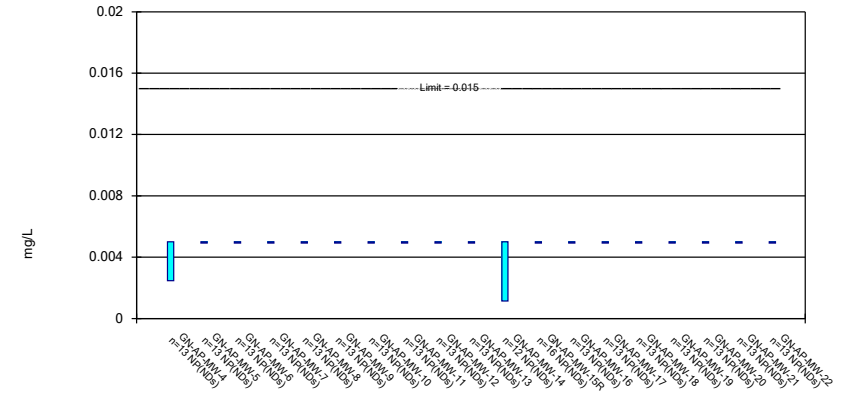
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 1/17/2020 12:44 PM View: Confidence Intervals - App IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Non-Parametric Confidence Interval

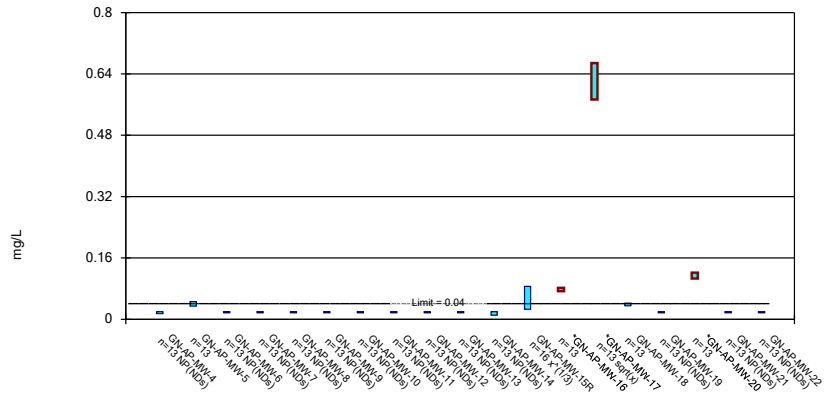
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 1/17/2020 12:44 PM View: Confidence Intervals - App IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

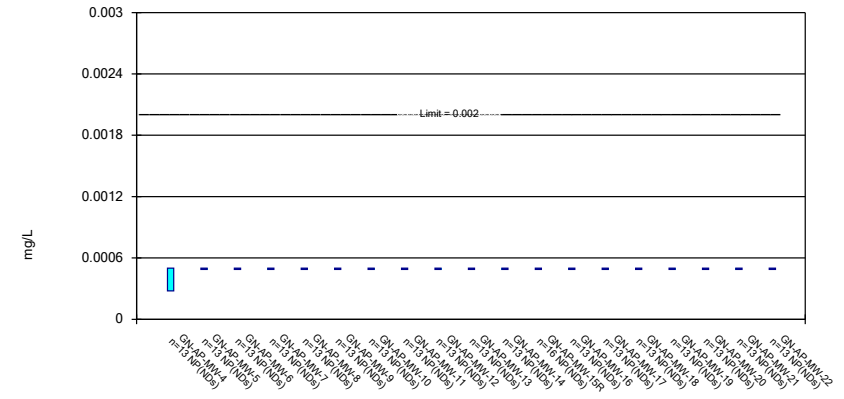
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 1/17/2020 12:44 PM View: Confidence Intervals - App IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

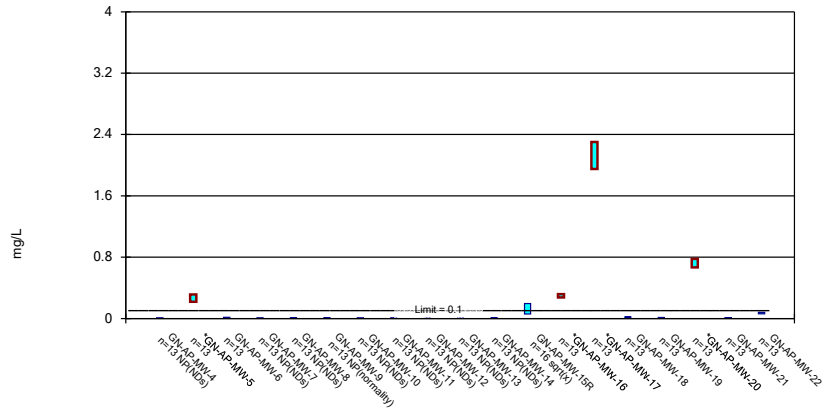


Constituent: Mercury Analysis Run 1/17/2020 12:44 PM View: Confidence Intervals - App IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond



### Parametric and Non-Parametric (NP) Confidence Interval

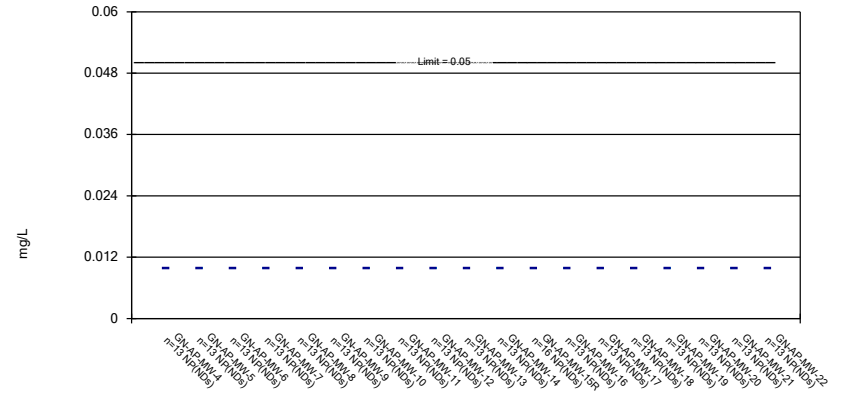
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 1/17/2020 12:44 PM View: Confidence Intervals - App IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Non-Parametric Confidence Interval

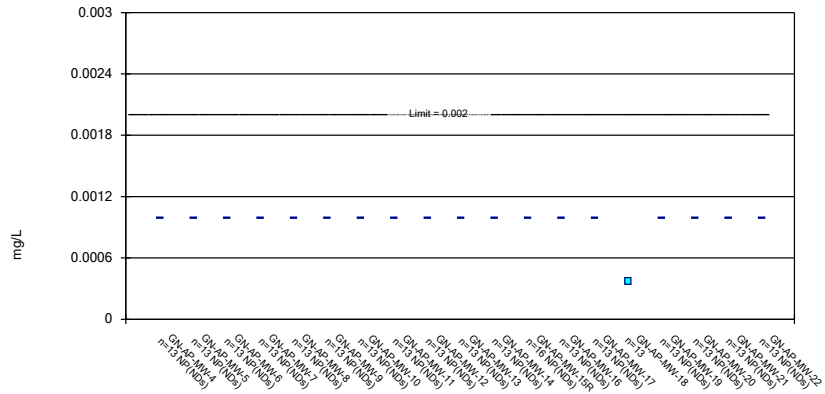
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 1/17/2020 12:44 PM View: Confidence Intervals - App IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

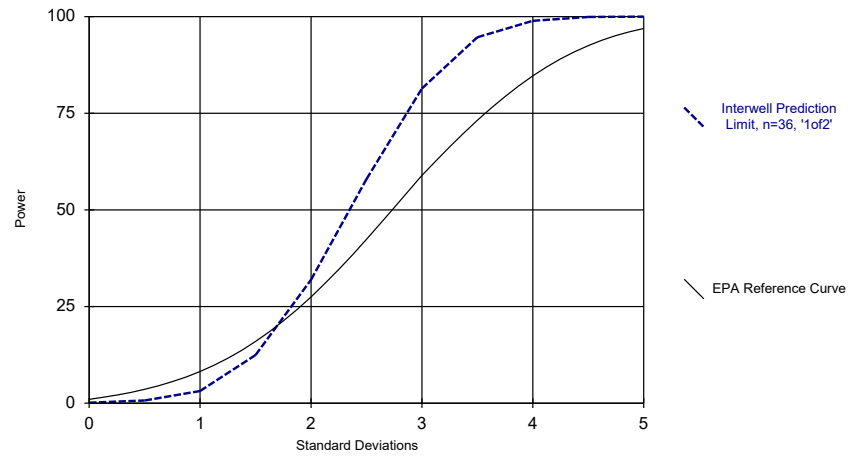
### Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium Analysis Run 1/17/2020 12:44 PM View: Confidence Intervals - App IV  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

### Power Curve



Kappa = 2.26, based on 19 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 1/30/2020 10:27 AM View: Power Curves  
Plant Gaston Client: Southern Company Data: Gaston Ash Pond