2022 SEMI-ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

ALABAMA POWER COMPANY
PLANT GASTON
GYPSUM POND

July 31, 2022

Prepared for

Alabama Power Company
Birmingham, Alabama

By

Southern Company Services
Earth Science and Environmental Engineering

CERTIFICATION STATEMENT

This *2022 Semi-Annual Groundwater Monitoring and Corrective Action Report, Alabama Power Company - Plant Gaston Gypsum Pond* has been prepared in accordance with the United States Environmental Protection Agency's coal combustion residual rule (40 CFR Part 257, Subpart D) and ADEM Admin. Code Ch. 335-13-15 under the supervision of a licensed professional engineer in the State of Alabama. As such, I certify that the information contained herein is true and accurate to the best of my knowledge.

7/31/2022

Austin C. Patton, P.G. Date

AL Registered Professional Geologist No. 1585

7/31/2022

Gregory Whetstone, PE Date

AL Registered Professional Engineer No. 27885

EXECUTIVE SUMMARY

In accordance with the United States Environmental Protection Agency (EPA) coal combustion residual (CCR) rule (40 CFR Part 257, Subpart D) and the State of Alabama Department of Environmental Management (ADEM) Admin. Code Ch. 335-13-15, this 2022 Semi-Annual Groundwater Monitoring and Corrective Action Report has been prepared to document 2022 semi-annual assessment groundwater monitoring activities at the Plant Gaston Gypsum 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 Gypsum Pond is performed in accordance with the monitoring requirements § 257.90 through § 257.95 and ADEM Admin. Code r. 335-13-15-.06(1) through r. 335-13-15-.06(6).

The CCR unit began the monitoring period in assessment monitoring pursuant to §257.95 and ADEM Admin. Code r. 335-13-15-.06(6). Statistically significant increases (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 the Appendix IV parameter, barium, was identified during the first semi-annual monitoring event of 2022 in well GN-GSA-MW-1. The following summarizes results and activities conducted during 2022:

- Submitted the 2021 Annual Groundwater Monitoring and Corrective Action Report to the Department on January 31, 2022.
- Performed an Alternate Source Demonstration (ASD) for the Appendix IV parameter, barium, at well GN-GSA-MW-1 and submitted the report to the Department in June 2022.
- Completed the first semi-annual assessment groundwater monitoring event between April 11, 2022, and April 13, 2022.

The CCR Unit concluded the monitoring period in Assessment Monitoring (pending ASD). The following next steps will be taken for the CCR Unit:

- Continue semi-annual assessment monitoring in the Fall of 2022 and submit the Annual Groundwater Monitoring and Corrective Action Report of 2022 to the Department by January 31, 2023.

If the ASD is not approved by the Department, the facility will move into an assessment of corrective measures (ACM) in accordance with the requirements of § 257.96 and ADEM Admin. Code r. 335-13-15-.06(7).

An **Executive Summary Table** highlighting program status and significant findings from the most recent annual monitoring period has been included on the next page.

Executive Summary Table
Monitoring Period Summary
Plant Gaston Gypsum Storage Area

Assessment Monitoring Initiated: July 16, 2019
Monitoring Period: January 1 - July 31, 2022
Beginning Status: Assessment
Ending Status: Assessment

Statistical Analysis Results *

Appendix III SSIs

Parameter	Wells
Boron	NA
Calcium	GN-GSA-MW-5, GN-GSA-MW-12, and GN-GSA-MW-14S
Chloride	GN-GSA-MW-11
Fluoride	GN-GSA-MW-1
pH	GN-GSA-MW-6
Sulfate	GN-GSA-MW-5 and GN-GSA-MW-8
TDS	GN-GSA-MW-5

Appendix IV SSLs

Barium: GN-GSA-MW-1

* See the attached report for further details regarding statistical exceedances and alternate source demonstrations.

Alternate Source Demonstrations

An Alternate Source Demonstration (ASD) for barium was pursed to demonstrate that the Gypsum Pond is not the source of barium in well GN-GSA-MW-1. The report was submitted to the Department on June 6, 2022. If the ASD is not approved by the Department, the facility will move into an assessment of corrective measures (ACM) in accordance with the requirements of § 257.96, ADEM Admin. Code r. 335-13-15-.06(7).

Assessment of Corrective Measures & Groundwater Remedy

Assessment of Corrective Measures

Site Remains in Assessment Monitoring (§ 257.95(d) & Alabama Admin. Code r. 335-13-15-.06(6)(d))

Groundwater Remedy

Site Remains in Assessment Monitoring (§ 257.95(d) & Alabama Admin. Code r. 335-13-15-.06(6)(d))

TABLE OF CONTENTS

FIGURES

TABLES

APPENDICES

ABBREVATIONS

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
m	meter
mg/L	milligram per liter
MSL	mean sea level
MW-	denotes “Monitoring Well”
NAVD88	North American Vertical Datum of 1988
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	Unites 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 Department of Environmental Management (ADEM) Admin. Code Ch. 335-13-15, this 2022 Semi-Annual Groundwater Monitoring and Corrective Action Report has been prepared to document 2022 semi-annual assessment groundwater monitoring activities at the Plant Gaston Gypsum 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 Gypsum 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 MONITORING PROGRAM STATUS

In accordance with § 257.94(e) and ADEM Admin. Code r. 335-13-15-.06(5)(e), APC implemented assessment monitoring in January 2018. SSIs of Appendix III were identified at the Plant Gaston Gypsum Pond during sampling events conducted in 2021 and the Site has remained in assessment monitoring. Statistically significant levels (SSLs) of the Appendix IV parameter, barium, were identified during the second semi-annual monitoring event of 2021 in well GN-GSA-MW-1.

An Alternate Source Demonstration (ASD) for barium was performed and submitted to ADEM in June 2022 to demonstrate that the Gypsum Pond is not the source of barium in well GN-GSA-MW-1. If the ASD is not approved by the Department, the facility will move into an assessment of corrective measures (ACM) in accordance with the requirements of § 257.96 and ADEM Admin. Code r. 335-13-15-.06(7).

3.0 SITE LOCATION AND DESCRIPTION

Alabama Power Company (APC) 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 Gypsum Pond is located north-northeast of the main plant along the Coosa River. **Figure 1**, **Site Location Map**, depicts the location of the Plant and Gypsum Pond with respect to the surrounding area.

3.1 PHYSICAL SETTING

Plant topography is characterized by a flat valley adjacent to the Coosa River in the eastern portion of the plant between uplands in the southeastern and northwestern portions. 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 100 miles from southwest to northeast, with a width averaging 20 miles (Sapp and Emplaincourt, 1975). Local topography is characterized by moderate topographic relief with elevations ranging from approximately 395 MSL along the eastern plant boundary along the bank of the Coosa River to approximately 530 feet MSL at a hilltop in the southwestern portion of the plant.

The topography of the Plant Gaston Gypsum Pond area can generally be described as flat or gently sloping, with land surface dipping from around 420 ft MSL to 400 ft MSL, from north to south, respectively. At the Site, the land surface dips towards Yellowleaf Creek to the south and drainage features east and west of the Gypsum Pond. **Figure 2**, **Site Topographic Map**, provides the topography of the Site.

3.2 SITE 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. 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 Newala 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. **Figure 3**, **Site Geologic Map**, illustrates the surface geology at the Site and neighboring areas.

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.

Generalized near-surface stratigraphy of the Site, in descending order, consists of approximately 18 to 60 feet of overburden materials overlying the Ordovician Newala Limestone. Overburden materials are predominantly comprised of yellow-brown, clayey sand with zones of clay and gravelly fines. The underlying Newala Limestone was encountered at depths ranging from 18 to 60 feet and was described as a medium to dark gray, micritic limestone with thin shale layers and minor amounts of dolomite. A 12-foot-thick section of light gray sandstone was encountered at location GN-GSA-MW-13, possibly indicating the presence of the Parkwood Formation at portions of the Site. Pyrite occurrence was noted at GN-GSA-MW-13 as well. **Figure 4A**, **Geologic Cross-Section A-A' and Figure 4B, Geologic Cross-Section B-B',** illustrates the geologic layering beneath the Site.

Plant Gaston is located in the Valley and Ridge aquifer system. The Valley and Ridge aquifer system is found in the Coosa, Cahaba, Birmingham-Big Canoe, and Murphrees Valleys. It 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, because 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).

The vadose or unsaturated zone at the time of field investigations was generally between 20 and 30 feet thick beneath the Site. The vadose zone was primarily composed of fine sediments formed from the in-situ weathering of the Newala Limestone. Recharge through the vadose zone occurs by infiltration of meteoric water, and likely is transmitted through macropore, funneled, or unstable flow processes.

3.2.1 Uppermost Aquifer

The first zone of saturation, or uppermost aquifer, beneath the Site generally corresponds to more permeable overburden materials and weathered or fractured rock near the transition zone. These intervals are considered part of a local alluvial aquifer system and may be considered part of the Valley and Ridge Aquifer when no aquicludes or confining layers are present. Groundwater-producing overburden materials are described as clayey sands and mixed gravel and clay, indicative of in-situ weathering of rock. Within the Newala Limestone, groundwater can be found in weathered zones near the top of rock or slightly deeper in zones where fractures or bedding structures permit the storage and flow of groundwater. Generally, the first zone of saturation or uppermost aquifer can be found at depths between 30 and 40 feet BGS at the Site. Near the northeastern corner of the Plant Gaston Gypsum Pond, groundwater is not present in the overburden materials or at the overburden-rock interface. In this area, the first groundwater occurrence is deeper within the Newala Limestone. GN-GSA-MW-1 located to the northeast of facility was drilled to a depth of 168.5 feet BGS and screened across a fractured interval from 113 to 123 ft BGS. Groundwater elevations from GN-GSA-MW-1 are slightly lower than neighboring wells, indicating to the area could be a discrete network of fractures or a separate aquifer from other monitoring wells.

3.2.2 Flow Interpretation

Groundwater flow at the Site is generally from north to south, southeast, and towards Yellowleaf Creek. Groundwater flow is accomplished by porous or Darcian flow mechanics through coarse overburden materials, fractures, or other discontinuities within the Newala Limestone. A potentiometric surface map for the Site is presented in a later section.

3.3 GROUNDWATER MONITORING SYSTEM

Pursuant to § 257.91 and ADEM Admin. Code r. 335-13-15-.06(2), Plant Gaston has installed a groundwater monitoring well network to monitor groundwater quality within the uppermost aquifer. The certified groundwater monitoring system for the Plant Gaston Gypsum Pond is designed to monitor groundwater passing the waste boundary of the CCR unit. Wells were sited to serve as upgradient, or 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.

3.3.1 Monitoring Wells

The detection and compliance groundwater monitoring network consists of 14 monitoring wells installed around the perimeter of the Gypsum Pond. Monitoring well locations and piezometers are presented on **Figure 5, Monitoring Well Location Map**.

3.3.1.1 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 (chiefly calcium, sulfate, and boron for Gypsum) for apparently elevated concentrations.

Monitoring well locations GN-GSA-MW-2, GN-GSA-MW-3, GN-GSA-MW-14S, and GN-GSA-MW-MW-15 serve as upgradient locations for Gypsum Pond. Groundwater generally flows from north to south across the Site. Upgradient wells are located north of the Gypsum Pond as determined by water level monitoring and potentiometric surface maps constructed for the Site. Upgradient monitoring wells are installed in overburden soils or shallow Newala limestone near the overburden-rock interface. These wells intercept upgradient groundwater just north of the Gypsum Pond. **Table 1a, Compliance Monitoring Well Network Details** summarizes well construction details for upgradient monitoring well locations.

3.3.1.2 Downgradient Wells

Monitoring well locations GN-GSA-MW-1 and GN-GSA-MW-5 through GN-GSA-MW-13 are used as downgradient locations for the Gypsum Pond. Downgradient locations are located lateral to and south of the Gypsum Pond as determined by water level monitoring and potentiometric surface maps constructed for the Site. Downgradient monitoring wells generally monitor groundwater quality in overburden soils or shallow Newala limestone near the overburden-rock interface. The lone exception is monitoring well GN-GSA-MW-1 which monitors a deeper zone within the Newala Limestone. This well is approximately 168 feet deep which is significantly deeper than other upgradient and downgradient wells which typically range between 30 and 55 feet in depth. **Table 1a** summarizes well construction details for downgradient monitoring well locations.

3.3.1.3 Piezometers

Location GN-GSA-PZ-4, formerly GN-GSA-MW-4, is used as a water-level only piezometer. The location helps constrain Site groundwater flow conditions and potentiometric surface contour maps. **Table 1b, Piezometer Well Network Details** summarizes well construction details for this location.

3.3.1.4 Monitoring Well Replacement and Abandonment

During the first 2022 semi-annual monitoring period, monitoring well replacement or abandonment activities were not performed.

3.4 GROUNDWATER MONITORING HISTORY

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

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

3.4.1 Available Monitoring Data

Laboratory analytical data is available for the groundwater monitoring history outlined in **Section 3.4**. Tabulated results for Appendix III and Appendix IV constituents by monitoring well are included in **Appendix A, Historical Analytical Data**.

3.4.2 Historical Groundwater Flow

Historical potentiometric data from the Site show that groundwater flow is generally from north to south, southeast, and towards Yellowleaf Creek. Groundwater flow is accomplished by porous or Darcian flow mechanics through coarse overburden materials. Non-darcian flow through fractures, or other discontinuities within the Newala Limestone, is also present and specifically to the north and northeast of the Gypsum Pond where overburden saturation was absent during initial field investigations.

Tables summarizing groundwater elevations from all groundwater monitoring events are included in **Appendix B, Historical Groundwater Elevations Summary.**

3.4.3 Monitoring Variance

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

1. Retains boron as an Appendix III detection monitoring parameter and excludes it as an Appendix IV assessment monitoring parameter.
2. Authorizes the use of Federally published groundwater protection standards (GWPS) of 0.006 milligrams per liter (mg/L) for cobalt; 0.015 mg/L for lead; 0.040 mg/L for lithium; and 0.100 mg/L for molybdenum in lieu of background where those levels are greater than background levels.

3.5 GROUNDWATER SAMPLING AND ANALYSIS

Site compliance wells are sampled semi-annually between: (1) late winter – mid spring and (2) early to late fall. The temporal spacing between sampling events is sufficient to ensure that sampling events yield independent groundwater samples and generally, represent different climatic or meteorological seasons which often foster a degree of natural variability in groundwater quality.

During routine semi-annual monitoring events, all compliance wells are sampled and analyzed for Appendix III and Appendix IV constituents. Additional general chemistry constituents (major ions and anions) are now being collected routinely as well. These non-compliance parameters will be periodically analyzed to explore seasonal changes in geochemical facies in Site groundwater.

The following subsections summarize the sequential steps and process for the sampling, handling/transport, and analysis of compliance-related groundwater samples at the Site.

3.5.1 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. In this procedure, field water quality parameters (pH, turbidity, conductivity, and dissolved oxygen) are measured to determine stabilization, and groundwater samples are collected when the following stabilization criteria are met:

- 0.2 standard units for pH.
- 5% for specific conductance.
- 0.2 mg/L or 10% for DO > 0.5 mg/l (whichever is greater).
- Turbidity measurements less than 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 event are included in **Appendix C, Laboratory and Field Records**.

3.5.2 Sample Preservation and Handling

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

Where temperature control was required, samples were placed in an ice-packed cooler and cooled to less than 6 °C immediately after collection. Blue ice or other cooling packs were not used for cooling samples. An ice-packed cooler was on hand when samples were collected.

3.5.3 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**.

3.5.4 Laboratory Analysis

Laboratory analyses were performed by the APC Environmental Laboratory (APCEL) in Calera, Alabama and Pace Analytical Services, LLC (Pace). Both APCEL and Pace 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 from Site groundwater samples. Groundwater data and chain of custody records for the monitoring event are presented in **Appendix C**.

3.5.5 Monitoring Period Sampling Events

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 monitoring period. The first semi-annual Assessment Monitoring sampling event was performed in April 2022.

Additionally, during the monitoring period a verification re-sample was conducted for barium at well GN-GSA-MW-1 after the statistical analyses from the second semi-annual monitoring event of 2021 indicated an SSL. Subsequently, after verification results confirmed the SSL, a special sampling event was conducted in adjacent piezometers for purposes of an ASD. The location and details of these piezometers as well as the data is presented in detail in the ASD report.

Groundwater samples were analyzed for the full list of Appendix III and Appendix IV parameters during each Assessment Monitoring event. All groundwater sampling activities were conducted by APC Field and Water Services. Pace Analytical Services performed the laboratory analyses of Radium-226 and Radium-228 (reported combined). APCEL performed the remaining Appendix III and Appendix IV analyses. Analytical data from the groundwater monitoring event is included as **Appendix C** in accordance with the requirements of § 257.90(e)(3) and ADEM Admin. Code r. 335-13-15-.06(1)(f)3.

4.0 GROUNDWATER ELEVATIONS AND FLOW

During the first semi-annual sampling event, groundwater elevations ranged from 396.87 to 423.62 feet NAVD88 (feet above reference 1988 North American Vertical Datum). **Figure 6, Potentiometric Surface Contour Map (April 11, 2022)** depicts groundwater elevations and inferred groundwater flow direction from higher elevation to lower.

As shown on **Figure 6**, groundwater flows from north to the south-southeast, consistent with historic observations. Additionally, during the April 2022 monitoring event, a small-scale reversal in flow was observed to the south of the Gypsum Pond. GN-GSA-MW-9, which resides within a topographic high demonstrates flow northward towards the Gypsum Pond. This results in a convergence of groundwater flow along an axis from wells GN-GSA-MW-8 to GN-GSA-MW-11.

Groundwater elevation data from the recent semi-annual sampling event has been tabulated and included in **Table 3, Groundwater Elevation Summary.** It should be noted that locations GN-GSA-PZ-4, GN-GSA-MW-3, GN-GSA-MW-1, and GN-GSA-MW-13 are screened in the Newala Limestone (determined as first sufficient yielding groundwater zones at these locales) and the presence of small magnitude vertical gradients may be present and account for variability in interpreted potentiometric contours. Well location GN-GSA-MW-1 is not used to guide interpreted potentiometric contours as this well is sufficiently deep within the Newala to suspect that a vertical gradient exists between this deep zone and shallower groundwater producing zones. Potentiometric contours for shallower groundwater in this area should likely be 0.5 to 1.5 feet higher in elevation.

4.1 GROUNDWATER FLOW VELOCITY CALCULATIONS

Groundwater flow rates at the Site were calculated based on hydraulic gradients, hydraulic conductivity from previous slug test results, and an estimated effective porosity of the screened horizon. Slug testing at well locations GN-GSA-MW-2 and GN-GSA-MW-8 provided horizontal hydraulic conductivities between 2.321×10^{-5} cm/sec and $2.74\ x10^{-4}$ cm/sec with an average of $1.49\ x10^{-4}$ cm/sec or 0.42 ft/day at the Gypsum Pond. An estimated effective porosity of 15% is used in the flow rate calculations. The hydraulic gradient was calculated between well pairs chosen for each sampling event. Well pairs demonstrating reasonably straight-line flow paths are typically selected, but if absent, interpreted potentiometric contours can be more representative.

Horizontal flow velocity was calculated using the commonly-used derivative of Darcy's Law:

$$V = \frac{K * i}{n_e}$$

Where:

V = Groundwater flow velocity $\left(\frac{feet}{day}\right)$

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

i = Horizontal hydraulic gradient

n_e= Effective porosity

Using this equation, horizontal groundwater flow velocity is calculated for the Site and is tabulated in **Appendix D, Horizontal Groundwater Flow Velocity Calculations**. **Appendix D** presents estimated horizontal flow velocities calculated using groundwater elevation data from the first 2022 semi-annual sampling event.

5.0 EVALUATION OF GROUNDWATER QUALITY DATA

During each sampling event, quality assurance/quality control samples (QA/QC) were collected at an interval of one sample per group of 10 well samples. These QA/QC samples include well duplicates, equipment blanks, and field blanks. Routine analyses of field QA/QC samples are a method for evaluating whether artificial bias could have been introduced into lab results by ways of sampling activities or equipment.

5.1 DATA VALIDATION – QUALITY ASSURANCE/QUALITY CONTROL

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 (RPD) are 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 4A, Relative Percent Difference Calculations,** provides the RPD for sample and sample duplicates during the first semi-annual monitoring event of 2022. All RPDs were below 20% during the first 2022 semi-annual sampling event.

Analytical data reviewed provided low-level or trace detections in field and or equipment blanks during monitoring period sampling event. **Table 4B, Field QC: Blank Detections** provides a summary of low-

level detections observed during the first semi-annual monitoring event. Each of these detections were estimated concentrations, above the MDL but below the RL, and qualified in the laboratory analytical reports with "J flags." However, if concentrations are detected above the MDL in field QC samples, original results on the (1) date of a blank detection and (2) with a value less than 5 times the field QC detection are flagged with a (+) U* and MDL/RL values modified based upon the blank concentration.

Based on this data validation step, three chromium results have qualifiers modified from J to (+) U*, and the corresponding MDL value, updated to match the blank concentration detected on the same date. **Table 4C, Field QC: Validation Results (Blanks)** provides a summarized list of data validation flags that are applied to Site data during the second semi-annual monitoring period. Validated flags do not have an impact on possible statistical analyses due to: (1) low-level concentrations flagged during validation and or (2) constituents flagged are not Site COI. The extent of trace chromium detections in blanks can be explained by a low MDL value of 0.000203 mg/L.

5.2 STATISTICAL METHODOLOGY AND TESTS

Sanitas statistical software is used to perform the statistical analyses on Site data. 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).

5.2.1 Appendix III Evaluation

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

Groundwater Stats Consulting demonstrated that these test methods were appropriate in the October 2017 Statistical Analysis Plan, which was updated in the September 2019 data screening evaluation and included in the revised Statistical Analysis Plan (August 2020). Time series plots were used to screen proposed background data for suspected outliers, or extreme values that would result in limits that are not

conservative from a regulatory perspective. Suspected outliers at all wells for Appendix III parameters are formally tested using Tukey's box plot method and, when identified, flagged in the computer database.

The following adjustments were made:

- No statistical analyses are required on wells and analytes containing 100% non-detects (EPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects in the background, simple substitution of one-half the reporting limit is used in the statistical analysis. The reporting limit used 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.

5.2.2 Appendix IV Evaluation

When in assessment monitoring, Appendix IV constituents are sampled semi-annually, and concentrations are compared to GWPS. Following the Unified Guidance, spatial variation for Appendix III parameters is tested using the ANOVA; this test is not prescribed for Appendix IV constituents. Unlike the statistical evaluation of Appendix III constituents (where single-sample results are compared to the statistical limit), Appendix IV analysis uses the pooled results from each downgradient well to develop a well-specific Confidence Interval that is compared to the statistical limit. The statistical limit is either the Interwell Tolerance limit (i.e., background) calculated using the pool of all available upgradient well data (see Chapter 7 of the Unified Guidance), or an applicable groundwater protection standard such as the MCL. Appendix IV background data are screened for outliers and extreme trending patterns that would lead to artificially elevated statistical limits.

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

As described in 40 CFR §257.95(h)(1)-(3) and the ADEM Variance (see section **3.4.3**), the GWPS is:

(1) The maximum contaminant level (MCL) established under 40 CFR §141.62 and 141.66.
(2) Where an MCL has not been established:

(i) Cobalt 0.006 mg/L.

(ii) Lead 0.015 mg/L.

(iii) Lithium 0.040 mg/L.

(iv) Molybdenum 0.100 mg/L.

(3) Background levels for constituents where the background level is higher than the MCL or rule-specified GWPS.

In assessment monitoring, when the Lower Confidence Limit (LCL), or the entire interval, exceeds the GWPS as discussed in the USEPA Unified Guidance (2009), the result is recorded as an SSL. GWPS for Appendix IV constituents are updated on a biennial schedule. This schedule was initiated in 2019 with updates generally occurring after the second semi-annual sampling event of each biennial year. Data from upgradient wells collected between updates may still be used to support ASDs if merited.

5.3 STATISTICAL EXCEEDANCES

Analytical data from the 2022 semi-annual monitoring event were statistically analyzed in accordance with the Professional Engineer (PE)-certified Statistical Analysis Plan (October 2017; updated August 2020) and were analyzed 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.

5.3.1 Appendix III Constituents

Based on review of the Appendix III statistical analysis presented in **Appendix E, Statistical Analysis,** Appendix III constituents have not returned to background levels. A review of the Sanitas results, presented in **Appendix F,** identified the following Appendix III SSIs during the first 2022 semi-annual monitoring event:

- GN-GSA-MW-1: Fluoride.
- GN-GSA-MW-5: Calcium, Sulfate, TDS.
- GN-GSA-MW-6: pH.
- GN-GSA-MW-8: Sulfate.
- GN-GSA-MW-11: Chloride.
- GN-GSA-MW-12: Calcium.
- GN-GSA-MW-14S: Calcium.

Since the Site is performing assessment monitoring, no further action is required regarding these SSIs.

5.3.2 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 E.**

5.3.2.1 First Semi-Annual Groundwater Monitoring Event

A review of the Sanitas results presented in **Appendix E** identified the following Appendix IV SSLs during the first semi-annual monitoring event:

- GN-GSA-MW-1: Barium

Table 6, First Semi-Annual Monitoring Event Analytical Summary provides a summary of all constituent concentrations for the first semi-annual sampling event of 2022.

6.0 ALTERNATE SOURCE DEMONSTRATION

Section 257.95(g)(3)(ii) and ADEM Admin. Code r. 335-13-15-.06(6)(g)4.(ii) allows the owner or operator to demonstrate that a source other than the CCR unit caused an SSL and that the SSL was the result of an alternate source, or that the SSL resulted from errors in sampling, analysis or statistical evaluation, or from the occurrences of natural variation in groundwater quality. Alternate source demonstrations (ASD) were prepared for arsenic and barium at the GN-GSA-MW-1 well location and submitted to ADEM in December 2018 and June 2020, respectively. A detailed summary of each demonstration conducted for well GN-GSA-MW-1 are presented in the following sections.

6.1 ARSENIC AT GN-GSA-MW-1

An ASD was submitted for GN-GSA-MW-1 as a part of the 2018 Annual Groundwater Monitoring and Corrective Action Report. This 2018 ASD efforts focused on arsenic, but some of the supporting lines of evidence apply to barium or are similar in characteristics. These lines of evidence are:

1) Constituents indicative of an FGD gypsum leachate impact (i.e., boron, calcium, sulfate, and total dissolved solids) do not occur at well GN-GSA-MW-1 at elevated concentrations.
2) Correlation patterns indicative of increasing barium because of an FGD gypsum leachate impact have not materialized:
    a. Barium-Boron: Pearson Correlation Coefficient (R) of 0.50 (Moderate to Weak Correlation)
    b. Barium-Chloride: R of -0.45 (Moderate to Weak Correlation)
    c. Barium-Conductivity: R of 0.57 (Moderate Correlation)
    d. Barium-Sulfate: R of 0.03 (Poor Correlation)
3) Difference in depth and screened media of GN-GSA-MW-1 versus other compliance wells
    a. GN-GSA-MW-1, Depth = ~168 feet; Screened: Newala Limestone
    b. Other Wells, Depth = 30 to 55 feet; Screened: Overburden or Near Overburden-Rock Interface
4) Newala and other Cambro-Ordovician carbonates are natural sources of barium (minerals = barite and or witherite) as evidenced by literature and local/regional mining of barium minerals (Jones and McVay, 1934, Adams and Jones, 1940; Hughes and Lynch, 1973; Clark, 1983). Nearby documented sources include the following “districts”:
    a. Vincent, Harpersville, Wilsonville District: Barite occurs in residuum of Cambro-Ordovician dolomite and limestone and derived from weathering of limestone.

b. Longview Saginaw: Barite occurs in residual clay overlying Newala limestone as well as in brecciated Newala limestone.
c. Sinks District: Barite occurs in residual clay overlying Newala or as veins in limestone which contain calcite, marcasite, sphalerite, goethite, and massive sulfur.

Since the submittal of the ASD report for Arsenic in 2018, concentrations detected during semi-annual monitoring events have steadily declined, and therefore, have not been identified as Appendix IV SSL. The ASD satisfies Federal rules and precludes the need to complete an ACM under § 257.96.

6.2 BARIUM AT GN-GSA-MW-1

Following the identification of the Appendix IV SSL, barium, during the second 2021 semi-annual assessment monitoring period, an ASD was prepared and subsequently submitted to the Department in June 2022. Multiple lines of evidence support the conclusion that the SSL for barium in well GN-GSA-MW-1 is naturally occurring and not the result of a release or impacts from the Gypsum Pond. The elevated levels are likely the result of variations in groundwater chemistry and subsurface heterogeneity not accommodated by the site statistics. This conclusion is supported by the following lines of evidence:

1) Barium is not typically a constituent associated with a CCR release and the SSL for barium is limited to a single downgradient monitoring well location.
2) CCR indicator parameters such as boron, sulfate, chloride, and calcium in well GN-GSA-MW-1 are not elevated above background concentrations.
3) Elevated barium concentrations are not observed in nearby monitoring wells that are screened more shallow and more likely to be impacted by a release from the Gypsum Pond.
4) Barium concentrations at GN-GSA-MW-1 have remained relatively stable over time with no evidence of variability that may be indicative of a leachate release.
5) A review of published geologic literature indicates that naturally occurring barium-containing minerals are present in the rock and soils in the Gypsum Pond vicinity.

If the ASD is not approved by the Department, the facility will move into an assessment of corrective measures (ACM) in accordance with the requirements of § 257.96 and ADEM Admin. Code r. 335-13-15-.06(7).

7.0 SUMMARY AND CONCLUSIONS

Statistically significant levels (SSLs) of the Appendix IV parameter, barium, was identified during the first semi-annual monitoring event of 2022 in well GN-GSA-MW-1. An Alternate Source Demonstration (ASD) for barium was submitted to ADEM in June 2022 to demonstrate that the Gypsum Pond is not the source of barium in well GN-GSA-MW-1.

The following summarizes results and activities conducted during 2022:

- Submitted the 2021 Annual Groundwater Monitoring and Corrective Action Report to the Department on January 31, 2022.
- Performed an Alternate Source Demonstration (ASD) for the Appendix IV parameter, barium, at well GN-GSA-MW-1 and submitted the report to the Department in June 2022.
- Completed the first 2022 semi-annual assessment groundwater monitoring event between April 11, 2022, and April 13, 2022.

The CCR Unit concluded the monitoring period in Assessment Monitoring (pending ASD). The following next steps will be taken for the CCR Unit:

- Continue semi-annual assessment monitoring in the Fall of 2022 and submit the Annual Groundwater Monitoring and Corrective Action Report of 2022 to the Department by January 31, 2023.

If the ASD is not approved by the Department, the facility will move into an assessment of corrective measures (ACM) in accordance with the requirements of § 257.96 and ADEM Admin. Code r. 335-13-15-.06(7).

8.0 REFERENCES

Adams, G. I., and Jones, W. B., 1940, Barite Deposits of Alabama: Alabama Geological Survey Bulletin 45, p. 38.

Alabama Department of Environmental Management (ADEM), 2018, Solid Waste Program, Division 13, ADEM Admin. Code r. 335-13-15.

ASTM Standard D5092, 2004(2010)e1, Standard Practice for Design and Installation of Groundwater Monitoring Wells, ASTM International, West Conshohocken, PA, DOI 10.1520/D5092-04R10E01, www.astm.org.

Clark, S., 1988, Metallogenic Map of Zinc, Lead, and Barium Deposits and Occurrences in Paleozoic Sedimentary Rocks, East-Central United States; Report on USGS Map I-1773

Frings, D.M., 1980. Report on the Geology of E.C. Gaston Steam Plant Dry Ash Disposal System. Provided by Southern Company Services, December, 2010.

Frings, D.M., 1981. Report on the Geology of E.C. Gaston Steam Plant Office Annex Addition. Provided by Southern Company Services, December, 2010.

Geological Survey of Alabama (GSA), 2010b, Digital Geologic Map of Alabama, URL:http://www.gsa.state.al.us, accessed November, 2010.

Hughes, T. H., and Lynch, R. E., Jr., 1973, Barite in Alabama: Geological Survey of Alabama Circular 85, p. 43.

Jones, W. B., and McVay, T. N., 1934, Barite Deposits of the Sinks District, Bibb County, Alabama: Economic Geology, v. 29, p. 761-766.

Kopaska-Merkel, David C., Lewis S. Dean, and James D. Moore, 2005. Hydrogeology and Vulnerability to Contamination of Major Aquifers in Alabama: Area 4. Geological Survey of Alabama Circular 199D.

McIntyre, M.R., J.C. Pashin, and G.M. McKinney, III, 2010. Report on Plant Geology, Prepared for Southern Company Services by the Geological Survey of Alabama.

Sapp, C.D., and Emplaincourt, J., 1975, Physiographic regions of Alabama, Special Map 168, Geological Survey of Alabama

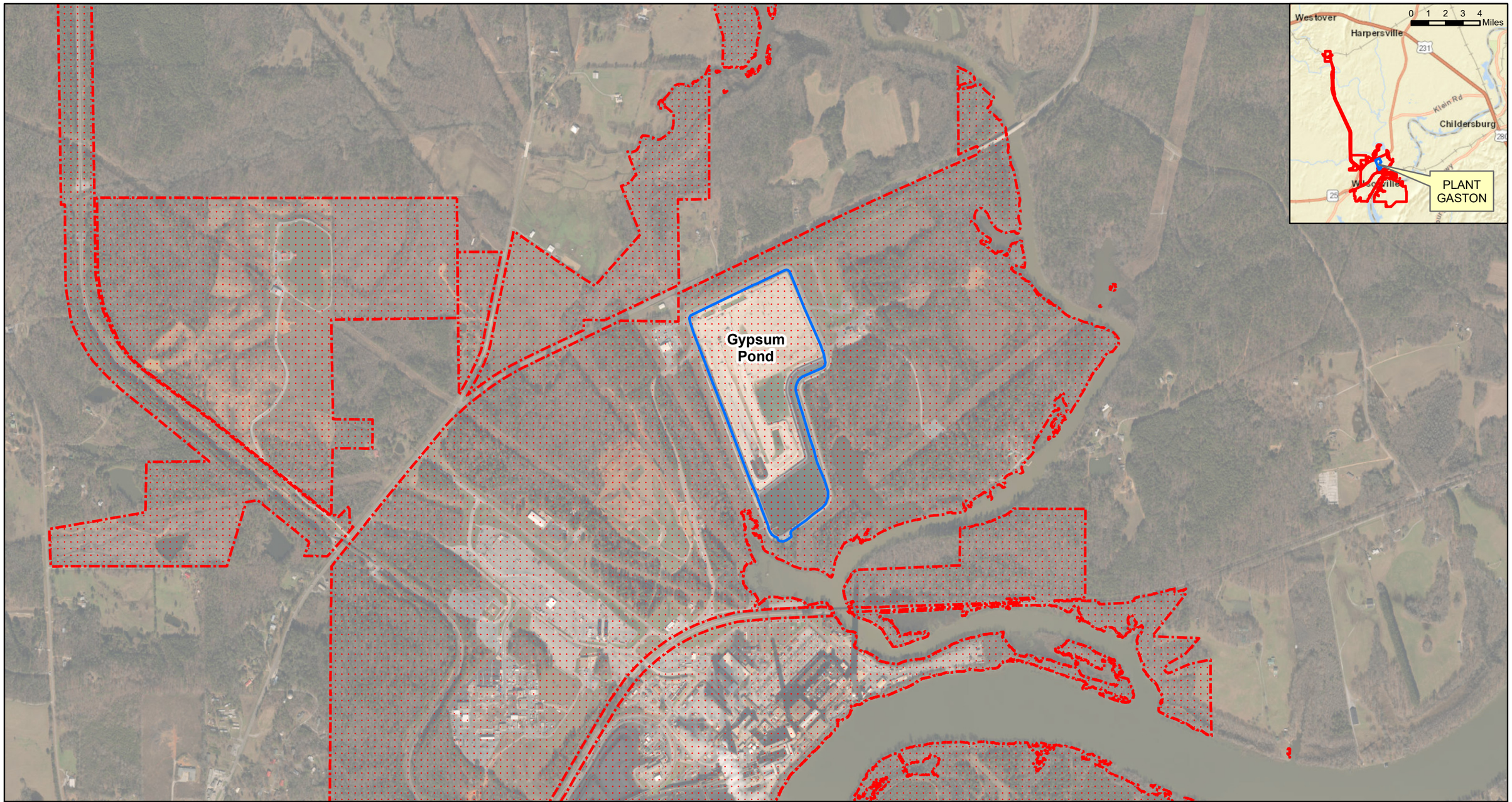
USEPA. 2009. Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance

USEPA. 2015. Federal Register. Volume 80. No. 74. Friday April 17, 2015. Part II. Environmental Protection Agency. *40 CFR Parts 257and 261. Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule.* [EPA-HQ-RCRA–2009–0640; FRL–9919–44–OSWER]. RIN–2050–AE81. April.

United States Geological Survey (USGS), 1980b. Wilsonville, Alabama Quadrangle, 7.5 Minute Series Topographic Map.

United States Geological Survey (USGS), 2005. Alabama Water Science Center, Water use by County in Alabama, Shelby County. URL: http://ga2.er.usgs.gov/alabama/waterusecounty.cfm?code=117. Accessed December, 2010.

Figures



Legend

- Gypsum Pond Boundary
- Property Boundary (Approximate)

N

0 1,000 2,000 4,000 Feet

SCALE	1:12000
DATE	11/13/2020
DRAWN BY	KWR
CHECKED BY	GBD

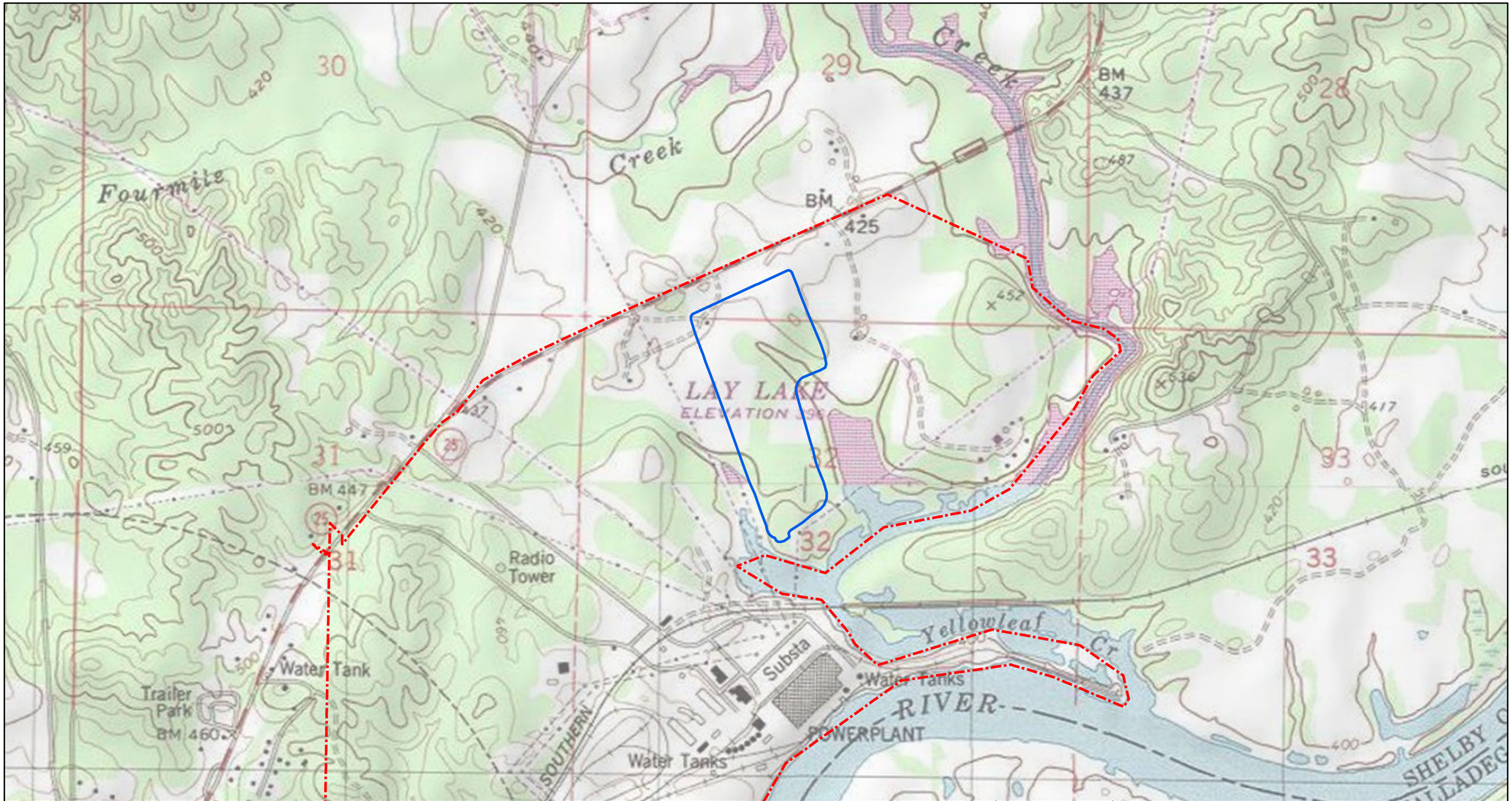
DRAWING TITLE

SITE LOCATION MAP
PLANT GASTON GYPSUM POND

FIGURE NO

FIGURE 1

Southern Company



Legend

- Gypsum Pond
- Property Boundary (Approximate)

N

0 1,000 2,000 4,000 Feet

SCALE	1:12000
DATE	12/17/2019
DRAWN BY	KWR
CHECKED BY	GBD

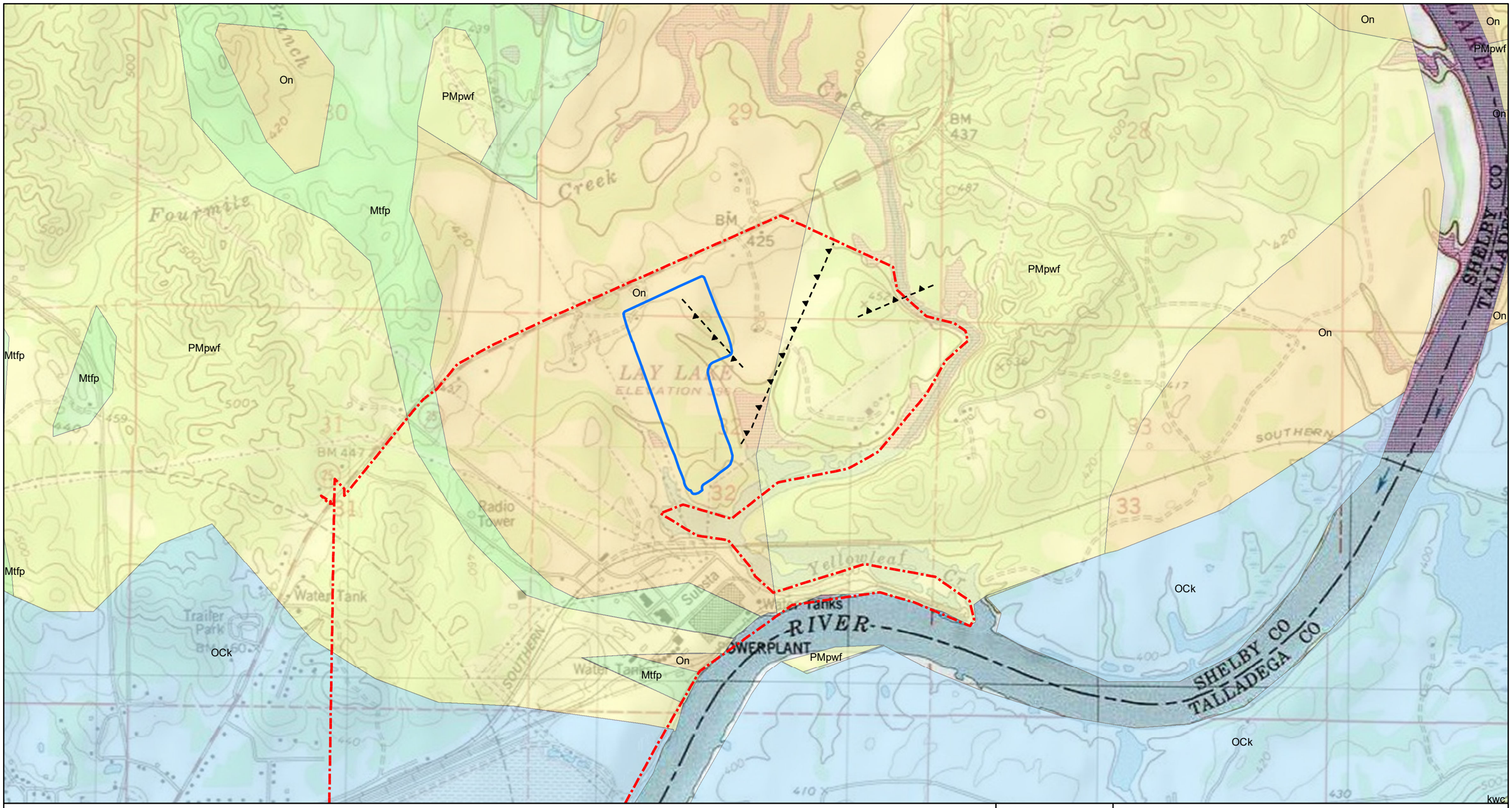
DRAWING TITLE

SITE TOPOGRAPHIC MAP
PLANT GASTON GYPSUM POND

FIGURE NO

FIGURE 2

Southern Company



Legend

- Gypsum Storage Area Boundary
- Property Boundary (Approximate)
- Fault

Geologic Units

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

N

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

SCALE	1:15000
DATE	11/24/2021
DRAWN BY	KWR
CHECKED BY	GBD

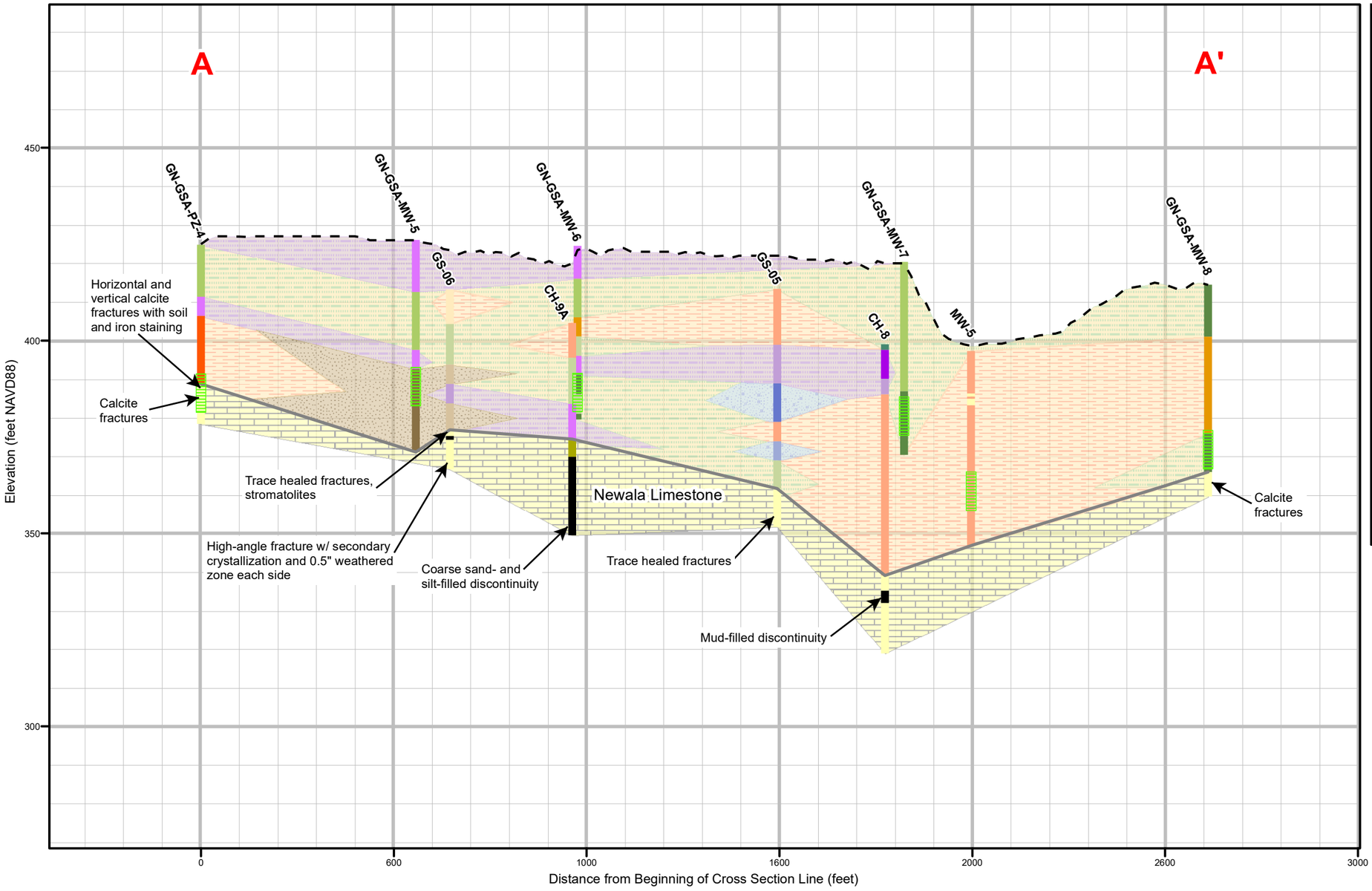
DRAWING TITLE

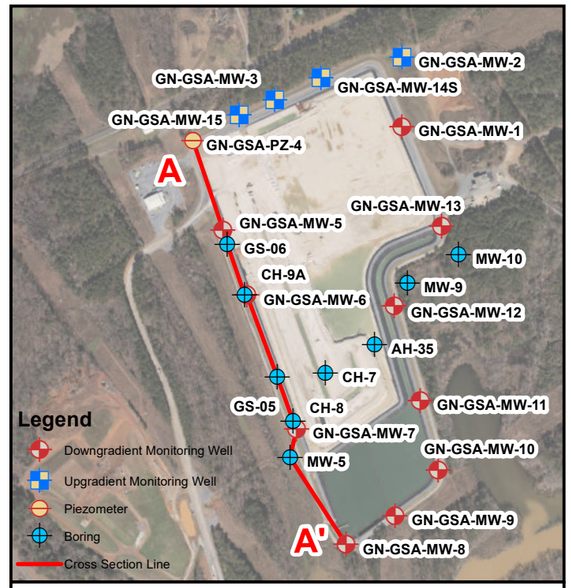
SITE GEOLOGIC MAP
PLANT GASTON GYPSUM POND

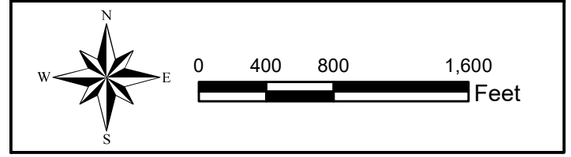
FIGURE NO

FIGURE 3

Southern Company







Notes: 1. Source of ground surface elevation data: Lidar
2. NAVD88 indicates North American Vertical Datum of 1988.

Legend

- Screen Interval
- Ground Surface Elevation
- Unit Boundary

Borehole Descriptions

- Discontinuity
- Topsoil
- Fat Clay
- Lean Clay
- Silty Clay
- Sandy Fat Clay
- Silt
- Sandy Silt
- Gravelly Silt
- Clayey Sand
- Clayey Silty Sand
- Silty Sand
- Sand
- Well-graded Sand
- Clayey Gravel
- Well-graded Gravel
- Limestone
- Dolomite

Geologic Units

- Clays
- Silts
- Sands
- Clayey Silty Sand
- Gravels
- Limestone

SCALE	As Shown
DATE	6/10/2020
DRAWN BY	KWR
CHECKED BY	GBD

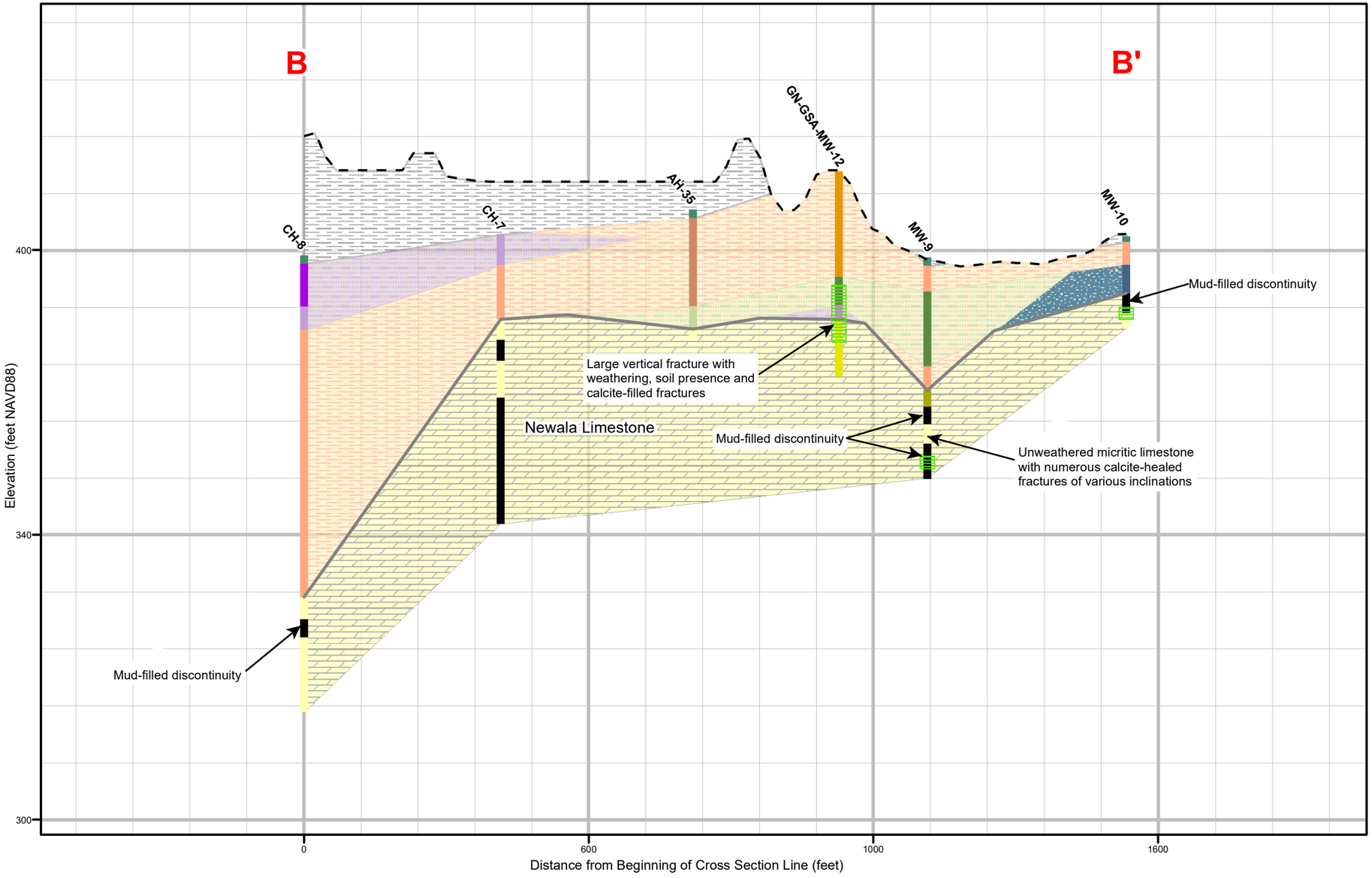
DRAWING TITLE

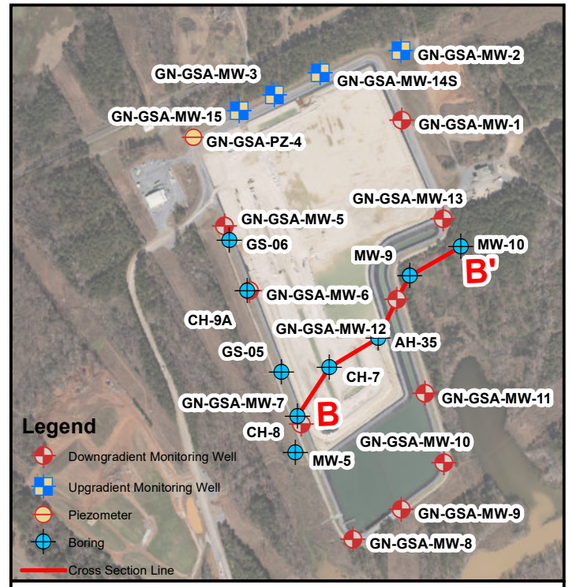
GEOLOGIC CROSS-SECTION A - A'
PLANT GASTON GYPSUM POND

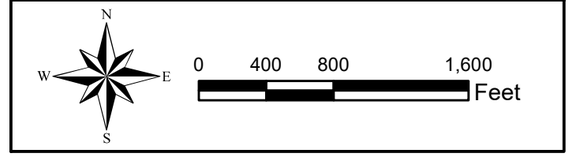
FIGURE NO

FIGURE 4A

Southern Company







Notes: 1. Source of ground surface elevation data: Lidar
2. NAVD88 indicates North American Vertical Datum of 1988.

Legend

- Screen Interval
- Ground Surface Elevation
- Unit Boundary

Borehole Descriptions

- Discontinuity
- Topsoil
- Lean Clay
- Silty Clay
- Clayey Silt to Silty Clay
- Silt
- Sandy Silt
- Gravelly Silt
- Clayey Sand
- Clayey Silty Sand
- Silty Sand
- Clayey Gravel
- Well-graded Gravel
- Sandstone
- Limestone
- Dolomitic Limestone
- Dolomite

Geologic Units

- Dike Fill
- Clays
- Silts
- Sands
- Clayey Silty Sand
- Gravels
- Sandstone
- Limestone/Dolomite

SCALE	As Shown
DATE	6/10/2020
DRAWN BY	KWR
CHECKED BY	GBD

DRAWING TITLE

GEOLOGIC CROSS-SECTION B - B'
PLANT GASTON GYPSUM POND

FIGURE NO

FIGURE 4B

Southern Company

Legend

- Downgradient Monitoring Well
- Upgradient Monitoring Well
- Piezometer
- Gypsum Pond Boundary
- Property Boundary (Approximate)

N

0 500 1,000 2,000 Feet

SCALE	1:6000
DATE	1/9/2020
DRAWN BY	KWR
CHECKED BY	GBD

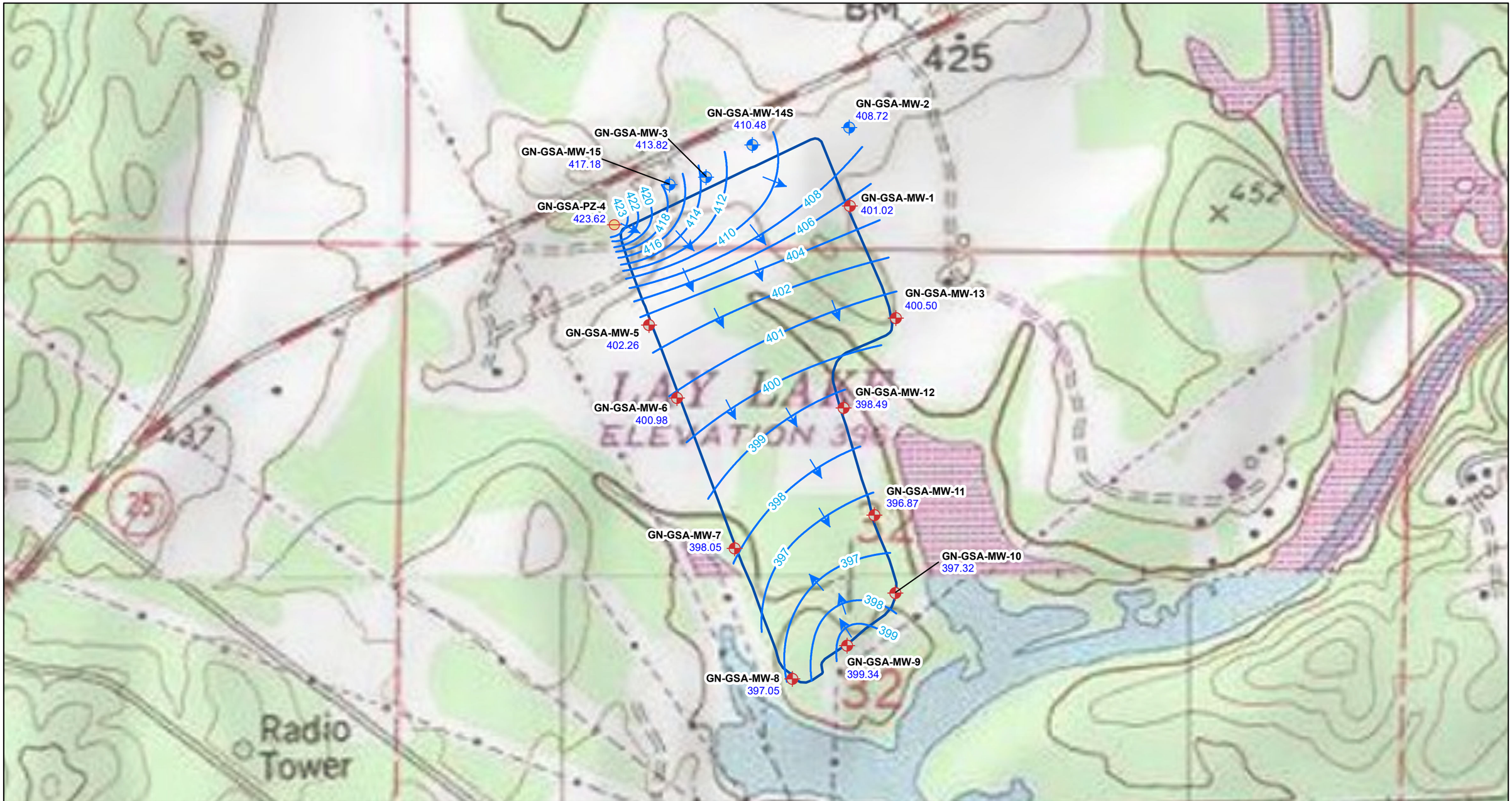
DRAWING TITLE

MONITORING WELL LOCATION MAP
PLANT GASTON GYPSUM POND

FIGURE NO

FIGURE 5

Southern Company



Legend

- Downgradient Monitoring Well
- Upgradient Monitoring Well
- Piezometer

GN-GSA-MW-1 Well ID
401.02 Groundwater Elevation

- Potentiometric Surface Contour
- Approximate Groundwater Flow Direction
- Gypsum Storage Area Boundary

N

0 500 1,000 2,000 Feet

NOTES:
1. NAVD88 indicates North American Vertical Datum of 1988.
2. GN-GSA-MW-1 was not factored into potentiometric contouring due to depth of well (168.50 ft.) and installation in rock. Other wells are typically 30 to 55 feet deep and are screened in overburden or near the overburden-rock interface.

SCALE	1:6000
DATE	7/12/2022
DRAWN BY	KWR
CHECKED BY	GBD

DRAWING TITLE
POTENTIOMETRIC SURFACE CONTOUR MAP
APRIL 11, 2022
PLANT GASTON GYPSUM POND

FIGURE NO
FIGURE 6

Southern Company

Tables

Southern Company

Table 1a. - Compliance Monitoring Well Network Details
Plant Gaston Gypsum Storage Area

Well ID	Hydraulic Location	Geologic Unit	Latitude	Longitude	Ground Surface Elevation (ft NAVD)	Top Of Casing Elevation (ft NAVD)	Well Depth (ft BTOC)	Top Of Screen Elevation (ft NAVD)	Bottom Of Screen Elevation (ft NAVD)	Screen Length (ft)	Date Of Installation
WELL NETWORK											
GN-GSA-MW-2	Upgradient	Newala LS (Shallow)	33.25654	-86.4583	417.63	420.92	55.0	373.03	363.03	10	10/28/2015
GN-GSA-MW-3	Upgradient	Newala LS (Shallow)	33.25584	-86.46076	421.84	424.75	54.3	378.84	368.84	10	10/21/2015
GN-GSA-MW-14S	Upgradient	Overburden (Clayey-Sand)	33.2562	-86.45986	420.32	421.12	52.0	391.08	381.08	10	5/3/2016
GN-GSA-MW-15	Upgradient	Overburden-Newala LS Transition	33.25558	-86.46145	422.53	423.06	46.3	386.62	376.62	10	5/5/2016
GN-GSA-MW-1	Downgradient	Newala LS (Deep)	33.25541	-86.4583	423.21	426.35	168.5	310.21	300.21	10	11/5/2015
GN-GSA-MW-5	Downgradient	Overburden (Sand)	33.25371	-86.46175	426.08	429.33	55.0	393.08	383.08	10	11/19/2015
GN-GSA-MW-6	Downgradient	Overburden (Silty-Sand)	33.25265	-86.46128	424.55	427.40	45.0	391.55	381.55	10	11/17/2015
GN-GSA-MW-7	Downgradient	Overburden (Silty-Sand)	33.25047	-86.4603	420.38	423.47	50.0	385.38	375.38	10	11/10/2015
GN-GSA-MW-8	Downgradient	Overburden (Silty-Sand)	33.24859	-86.45932	414.51	417.31	54.9	376.71	366.71	10	10/28/2015
GN-GSA-MW-9	Downgradient	Overburden (Gravelly-Silt)	33.24907	-86.45838	414.76	417.51	44.0	381.96	371.96	10	10/29/2015
GN-GSA-MW-10	Downgradient	Overburden (Silty-Sand)	33.24982	-86.45755	414.78	417.73	40.0	387.18	377.18	10	12/9/2015
GN-GSA-MW-11	Downgradient	Overburden (Silty-Sand)	33.25095	-86.4579	414.81	417.47	31.0	394.21	384.21	10	11/12/2015
GN-GSA-MW-12	Downgradient	Overburden-Newala LS Transition	33.25249	-86.45842	413.80	416.71	36.0	393.80	383.80	10	10/29/2015
GN-GSA-MW-13	Downgradient	Newala LS (Shallow)	33.25379	-86.45751	419.82	422.42	45.0	385.22	375.22	10	12/15/2015

Notes:
ft = feet; ft NAVD = elevation in feet, referenced to North American Vertical Datum; ft BTOC = depth, referenced in feet below top of casing
(1) Coordinates have been transformed into WGS84 from NAD 27/83, State Plane, Alabama, feet.
(2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD)1988.
(3) Total well depth accounts for sump if data provided on well construction logs.

Southern Company

Table 1b. - Piezometer Well Network Details Plant Gaston Gypsum Storage Area

Well ID	Hydraulic Location	Geologic Unit	Latitude	Longitude	Ground Surface Elevation (ft NAVD)	Top Of Casing Elevation (ft NAVD)	Well Depth (ft BTOC)	Top Of Screen Elevation (ft NAVD)	Bottom Of Screen Elevation (ft NAVD)	Screen Length (ft)	Date Of Installation
WELL NETWORK											
GN-GSA-PZ-4	Piezometer	Newala LS (Shallow)	33.25516	-86.46234	424.87	427.65	46.5	391.37	381.37	10	10/27/2015

Notes:

ft = feet; ft NAVD = elevation in feet, referenced to North American Vertical Datum; ft BTOC = depth, referenced in feet below top of casing

(1) Coordinates have been transformed into WGS 84 from NAD 27/83, State Plane, Alabama, feet.

(2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD)1988.

(3) Total well depth accounts for sump if data provided on well construction logs.

Southern Company

Table 2. Parameters And Reporting Limits

Plant Gaston Gypsum Storage Area
04/12/2022 - 04/13/2022

Appendix III Parameters			
Parameters	**Analytical Methods**	**Reporting Limits**	**Units of Measure**
Boron	EPA 200.7	0.1015	mg/L
Calcium	EPA 200.7	0.406-4.06	mg/L
Chloride	SM4500Cl E	1	mg/L
Fluoride	SM4500F G 2017	0.125	mg/L
pH_Field	Field Sampling	NA	SU
Sulfate	SM4500SO4 E 2011	2-20	mg/L
TDS	NA	NA	mg/L
Appendix IV Parameters			
Parameters	**Analytical Methods**	**Reporting Limits**	**Units of Measure**
Antimony	EPA 200.8	0.001015	mg/L
Arsenic	EPA 200.8	0.000203	mg/L
Barium	EPA 200.8	0.000203-0.001015	mg/L
Beryllium	EPA 200.8	0.001015	mg/L
Cadmium	EPA 200.8	0.000203	mg/L
Chromium	EPA 200.8	0.001015	mg/L
Cobalt	EPA 200.8	0.000203	mg/L
Fluoride	SM4500F G 2017	0.125	mg/L
Lead	EPA 200.8	0.000203	mg/L
Lithium	EPA 200.7	0.02	mg/L
Mercury	EPA 245.1	0.0005	mg/L
Molybdenum	EPA 200.8	0.000203	mg/L
Selenium	EPA 200.8	0.001015	mg/L
Thallium	EPA 200.8	0.000203	mg/L
Combined Radium 226 + 228	NA	NA	pCi/L

Notes:
1. Reporting Limit values can display range depending upon matrix interferences and dilution factors
2. pH is a field acquired parameter and does not have a laboratory method or reporting limit
3. Combined Radium 226 + 228 – product of radium-226 + radium-228; reporting limits presented are sum of radium 226, radium 228 reporting limits
4. EPA 200.7 – EPA methodology for the "Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry"
5. EPA 200.8 - EPA methodology for the "Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Mass Spectrometry (ICP-MS)"
6. SM 2320, 2540, 4500 – Standard Methods for Examination of Water and Wastewater.
7. Total Radium Calculation – Term used herein for EPA 9315 + EPA 9320
8. EPA 9315 – Used for Radium-226; SW-846: Alpha-Emitting Radium Isotopes, part of Test Methods for Evaluation Solid Waste, Physical/Chemical Methods
9. EPA 9320 – Used for Radium-228; SW-846: Alpha-Emitting Radium Isotopes, part of Test Methods for Evaluation Solid Waste, Physical/Chemical Methods

Southern Company

Table 3. Groundwater Elevations Summary

Plant Gaston Gypsum Storage Area
04/11/2022 - 04/11/2022

Well	Measure Date	TOCElevation (ft. NAVD)	Depth To Water (ft. BTOC)	Groundwater Elevation (ft. NAVD)
GN-GSA-GS2-1	04/11/2022	418.46	8.03	410.43
GN-GSA-GS2-4	04/11/2022	417.52	12.32	405.20
GN-GSA-MW-1	04/11/2022	426.35	25.71	400.64
GN-GSA-MW-10	04/11/2022	417.73	20.72	397.01
GN-GSA-MW-11	04/11/2022	417.47	20.82	396.65
GN-GSA-MW-12	04/11/2022	416.71	18.61	398.10
GN-GSA-MW-13	04/11/2022	422.42	22.24	400.18
GN-GSA-MW-14S	04/11/2022	421.12	13.58	407.54
GN-GSA-MW-15	04/11/2022	423.06	9.01	414.05
GN-GSA-MW-2	04/11/2022	420.92	12.47	408.45
GN-GSA-MW-3	04/11/2022	424.75	11.48	413.27
GN-GSA-MW-5	04/11/2022	429.33	27.23	402.10
GN-GSA-MW-6	04/11/2022	427.40	26.66	400.74
GN-GSA-MW-7	04/11/2022	423.47	25.74	397.73
GN-GSA-MW-8	04/11/2022	417.31	20.53	396.78
GN-GSA-MW-9	04/11/2022	417.51	18.34	399.17

Notes:

ft. = feet; ft. NAVD = elevation in feet, referenced to North American Vertical Datum (1988); TOC = top of casing; BTOC = below top of casing

Southern Company

Table 4a. Relative Percent Difference (RPD) Calculations

Plant Gaston Gypsum Storage Area

04/12/2022 - 04/13/2022

GN-GSA-MW-10				
Sample Date = 4/13/2022				
Analyte	**Units**	**Original Result**	**Duplicate Result**	**RPD (%)**
Calcium	mg/L	107	104	2.84%
Chloride	mg/L	2.77	2.78	0.36%
Barium	mg/L	0.0403	0.0404	0.25%
GN-GSA-MW-9				
Sample Date = 4/12/2022				
Analyte	**Units**	**Original Result**	**Duplicate Result**	**RPD (%)**
Calcium	mg/L	50.4	49.4	2.00%
Chloride	mg/L	1.91	1.94	1.56%
Sulfate	mg/L	4.09	4.05	0.98%
Barium	mg/L	0.0252	0.0255	1.18%
Molybdenum	mg/L	0.00021	0.00024	10.67%

Notes:

1. The RPD calculations presented are for analyte pairs where original and duplicate results are valid, unqualified detections.
2. RPD calculation results less than or equal to 20% are considered acceptable.
3. Results greater than 20% are given data validation flags to indicate RPD criteria failure. Communication to sampling team and lab may be necessary to explore nature of RPD failure(s).

Table 4b. - Field QC: Blank Detections

Plant Gaston Gypsum Storage Area
04/12/2022 - 04/13/2022

Parameters Detected Above MDL					
Sample Date	**QC Location**	**Parameter**	**Blank Concentration**	**Units**	**MDL**
04/13/2022	FB-2	Chromium	0.00064 J	mg/L	0.0002

Notes:
1. Lab qualifiers have been appended to result when applicable
2. MDL = Method Detection Limit
3. Only Appendix 4 Constituents were compared and validated. Radium data was not validated.
4. mg/L = milligrams per liter

Table 4c – Field QC: Data Validation Results (Blanks)

Plant Gaston Gypsum Storage Area
04/12/2022 - 04/13/2022

List of Compliance Sample Concentrations < 5x Blank Concentrations							
Sample Date	**QC Sample**	**Parameter**	**QC Sample Result (5x)**	**Sample Location**	**Result**	**Units**	**Validation Flag**
04/13/2022	FB-2	Chromium	0.0032	GN-GSA-MW-12	0.00021 J	mg/L	+(U)*
04/13/2022	FB-2	Chromium	0.0032	GN-GSA-MW-13	0.00052 J	mg/L	+(U)*
04/13/2022	FB-2	Chromium	0.0032	GN-GSA-MW-14S	0.0007 J	mg/L	+(U)*

Notes:
1. Lab qualifiers have been appended to result when applicable
2. QC Sample listed represents the source of comparison, validation flag.
3. Only Appendix 4 Constituents were compared and validated. Radium data was not validated.
4. mg/L = milligrams per liter
5. Wells with concentrations less than 5x Blank Detections are flagged with (U)*.

Southern Company

Table 5. Summary of Background Levels and Groundwater Protection Standards

Plant Gaston Gypsum Storage Area

Appendix IV Analytes			
Analyte	**Units**	**Background**	**GWPS**
Antimony	mg/L	0.00117	0.006
Arsenic	mg/L	0.00032	0.01
Barium	mg/L	0.0622	2
Beryllium	mg/L	0.00102	0.004
Cadmium	mg/L	0.0002	0.005
Chromium	mg/L	0.00102	0.1
Cobalt	mg/L	0.00313	0.01
Fluoride	mg/L	0.111	4
Lead	mg/L	0.0002	0.015
Lithium	mg/L	0.02	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.00046	0.1
Selenium	mg/L	0.00102	0.05
Thallium	mg/L	0.000228	0.002
Combined Radium 226 + 228	pCi/L	2.36	5

Notes:
1. mg/L - Milligrams per liter
2. pCi/L - Picocuries per liter
3. Background concentrations/limits are used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and ADEM Rule 335-13-15-.06(h).
4. GWPS are generally updated on a 2 year basis which began in the Fall of 2019 (Fall 2019, Fall 2021, etc).

Southern Company

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gaston Gypsum Storage Area
04/12/2022 - 04/13/2022

Field Parameters								
Hydraulic Location	Well	Sample Date	DO mg/L	ORP mv	Turbidity NTU	Field Temperature C	pH_Field SU	Conductivity uS/cm
Upgradient	GN-GSA-MW-14S	04/13/2022	3.36	16.42	3.8	19.31	7.4	320.94
Upgradient	GN-GSA-MW-15	04/12/2022	3.77	115.18	9.73	20.47	5.25	27.47
Upgradient	GN-GSA-MW-2	04/12/2022	3.1	29.81	1.99	21.7	6.48	477.36
Upgradient	GN-GSA-MW-3	04/12/2022	1.75	132.02	1.12	20.83	5.57	250.86
Downgradient	GN-GSA-MW-1	04/13/2022	0.15	-58.89	1.56	20.05	7.5	379.96
Downgradient	GN-GSA-MW-10	04/13/2022	0.2	179.51	0.72	30.23	6.85	449.82
Downgradient	GN-GSA-MW-11	04/13/2022	0.46	285.42	0.57	29	5.29	140.99
Downgradient	GN-GSA-MW-12	04/13/2022	0.45	148.05	0.71	28.15	6.74	415.59
Downgradient	GN-GSA-MW-13	04/13/2022	1.61	18.85	0.85	19.83	6.84	459.11
Downgradient	GN-GSA-MW-5	04/12/2022	0.66	-13.09	1.24	25.39	6.32	599.71
Downgradient	GN-GSA-MW-6	04/12/2022	0.7	381.78	1.39	27.16	4.38	32.7
Downgradient	GN-GSA-MW-7	04/12/2022	1.36	155.76	1.05	30.35	6.73	379.98
Downgradient	GN-GSA-MW-8	04/12/2022	1.13	-83.82	2.91	28.08	7.22	294.59
Downgradient	GN-GSA-MW-9	04/12/2022	0.82	162.55	4.95	28.12	6.22	240.7
Piezometer	GN-GSA-GS2-4	04/12/2022	1.01	-1.81	3.19	18.98	6.29	550.79

Notes:
1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurment.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocurries per liter.

Southern Company

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gaston Gypsum Storage Area
04/12/2022 - 04/13/2022

EPA Appendix III Set								
Hydraulic Location	Well	Sample Date	Boron mg/L	Calcium mg/L	Chloride mg/L	Fluoride mg/L	pH_Field SU	Sulfate mg/L
Upgradient	GN-GSA-MW-14S	04/13/2022	<0.03	58.9	2.42	<0.06	7.4	2.44
Upgradient	GN-GSA-MW-15	04/12/2022	<0.03	4.59	1.88	<0.06	5.25	1.76 J
Upgradient	GN-GSA-MW-2	04/12/2022	<0.03	87.1	3.23	<0.06	6.48	8.36
Upgradient	GN-GSA-MW-3	04/12/2022	<0.03	55.1	2.67	<0.06	5.57	7.36
Downgradient	GN-GSA-MW-1	04/13/2022	0.0353 J	47.5	2.17	0.307	7.5	4.24
Downgradient	GN-GSA-MW-10	04/13/2022	<0.03	107	2.77	<0.06	6.85	1.68 J
Downgradient	GN-GSA-MW-11	04/13/2022	0.0565 J	15	19.6	<0.06	5.29	2.73
Downgradient	GN-GSA-MW-12	04/13/2022	<0.03	88	3.76	<0.06	6.74	8.25
Downgradient	GN-GSA-MW-13	04/13/2022	<0.03	91.8	3.01	<0.06	6.84	7.27
Downgradient	GN-GSA-MW-5	04/12/2022	0.0481 J	94.1	7.35	<0.06	6.32	145
Downgradient	GN-GSA-MW-6	04/12/2022	<0.03	0.516	3.38	<0.06	4.38	<0.6
Downgradient	GN-GSA-MW-7	04/12/2022	<0.03	71.2	3.29	0.0724 J	6.73	5.75
Downgradient	GN-GSA-MW-8	04/12/2022	<0.03	54.4	1.54	0.0621 J	7.22	3.13
Downgradient	GN-GSA-MW-9	04/12/2022	<0.03	50.4	1.91	<0.06	6.22	4.09
Piezometer	GN-GSA-GS2-4	04/12/2022	<0.03	91	4.93	0.0798 J	6.29	23.2

Notes:
1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurment.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocurries per liter.

Southern Company

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gaston Gypsum Storage Area
04/12/2022 - 04/13/2022

EPA Appendix IV Set										
Hydraulic Location	Well	Sample Date	Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Cadmium mg/L	Chromium mg/L	Cobalt mg/L	Fluoride mg/L
Upgradient	GN-GSA-MW-14S	04/13/2022	<0.000508	0.000143 J	0.0217	<0.000406	<6.8e-005	0.000699 J	<6.8e-005	<0.06
Upgradient	GN-GSA-MW-15	04/12/2022	<0.000508	0.000281	0.00927	<0.000406	<6.8e-005	0.000234 J	0.000658	<0.06
Upgradient	GN-GSA-MW-2	04/12/2022	<0.000508	0.000102 J	0.034	<0.000406	<6.8e-005	0.000518 J	<6.8e-005	<0.06
Upgradient	GN-GSA-MW-3	04/12/2022	<0.000508	<8.1e-005	0.0309	<0.000406	<6.8e-005	0.000249 J	<6.8e-005	<0.06
Downgradient	GN-GSA-MW-1	04/13/2022	<0.000508	0.00248	2.68	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.307
Downgradient	GN-GSA-MW-10	04/13/2022	<0.000508	<8.1e-005	0.0403	<0.000406	<6.8e-005	<0.000203	<6.8e-005	<0.06
Downgradient	GN-GSA-MW-11	04/13/2022	<0.000508	8.77e-005 J	0.0162	<0.000406	<6.8e-005	<0.000203	0.00324	<0.06
Downgradient	GN-GSA-MW-12	04/13/2022	<0.000508	0.00021	0.0272	<0.000406	<6.8e-005	0.00021 J	0.000155 J	<0.06
Downgradient	GN-GSA-MW-13	04/13/2022	<0.000508	0.000141 J	0.0415	<0.000406	<6.8e-005	0.000523 J	<6.8e-005	<0.06
Downgradient	GN-GSA-MW-5	04/12/2022	<0.000508	0.000896	0.0666	<0.000406	<6.8e-005	0.000287 J	0.00215	<0.06
Downgradient	GN-GSA-MW-6	04/12/2022	<0.000508	0.000109 J	0.0214	<0.000406	<6.8e-005	0.000221 J	0.000665	<0.06
Downgradient	GN-GSA-MW-7	04/12/2022	<0.000508	0.000431	0.0192	<0.000406	<6.8e-005	<0.000203	0.000601	0.0724 J
Downgradient	GN-GSA-MW-8	04/12/2022	<0.000508	0.00124	0.0294	<0.000406	<6.8e-005	0.000346 J	7.46e-005 J	0.0621 J
Downgradient	GN-GSA-MW-9	04/12/2022	<0.000508	0.000178 J	0.0252	<0.000406	<6.8e-005	<0.000203	<6.8e-005	<0.06
Piezometer	GN-GSA-GS2-4	04/12/2022	--	--	0.0781	--	--	--	--	0.0798 J

Notes:
1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurment.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocurries per liter.

Southern Company

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gaston Gypsum Storage Area
04/12/2022 - 04/13/2022

EPA Appendix IV Set								
Hydraulic Location	Well	Sample Date	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Selenium mg/L	Thallium mg/L
Upgradient	GN-GSA-MW-14S	04/13/2022	<6.8e-005	<0.007105	<0.0003	0.000247	<0.000508	<6.8e-005
Upgradient	GN-GSA-MW-15	04/12/2022	0.000226	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005
Upgradient	GN-GSA-MW-2	04/12/2022	<6.8e-005	<0.007105	<0.0003	0.000259	<0.000508	<6.8e-005
Upgradient	GN-GSA-MW-3	04/12/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	0.00051 J	<6.8e-005
Downgradient	GN-GSA-MW-1	04/13/2022	<6.8e-005	0.00966 J	<0.0003	0.0033	<0.000508	<6.8e-005
Downgradient	GN-GSA-MW-10	04/13/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005
Downgradient	GN-GSA-MW-11	04/13/2022	0.000106 J	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005
Downgradient	GN-GSA-MW-12	04/13/2022	<6.8e-005	<0.007105	<0.0003	0.00031	<0.000508	<6.8e-005
Downgradient	GN-GSA-MW-13	04/13/2022	<6.8e-005	<0.007105	<0.0003	0.00021	<0.000508	<6.8e-005
Downgradient	GN-GSA-MW-5	04/12/2022	<6.8e-005	<0.007105	<0.0003	0.000121 J	<0.000508	<6.8e-005
Downgradient	GN-GSA-MW-6	04/12/2022	0.000396	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005
Downgradient	GN-GSA-MW-7	04/12/2022	<6.8e-005	<0.007105	<0.0003	0.000272	<0.000508	<6.8e-005
Downgradient	GN-GSA-MW-8	04/12/2022	<6.8e-005	<0.007105	<0.0003	0.00347	<0.000508	<6.8e-005
Downgradient	GN-GSA-MW-9	04/12/2022	0.000112 J	<0.007105	<0.0003	0.000213	<0.000508	<6.8e-005
Piezometer	GN-GSA-GS2-4	04/12/2022	--	--	--	--	--	--

Notes:
1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurment.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocurries per liter.

Southern Company

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gaston Gypsum Storage Area
04/12/2022 - 04/13/2022

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Sulfide mg/L	Iron Total mg/L	Magnesium Total mg/L	Silicon mg/L	Sodium mg/L	Calcium mg/L	Silica mg/L	Aluminum mg/L
Upgradient	GN-GSA-MW-14S	04/13/2022	0	0.0362 J	8.73	4.62	5.97	58.9	9.89	0.0336
Upgradient	GN-GSA-MW-15	04/12/2022	0	0.336	0.343 J	4.4	0.994	4.59	9.42	0.0512
Upgradient	GN-GSA-MW-2	04/12/2022	0	0.022 J	20.5	5.29	2.12	87.1	11.3	<0.00609
Upgradient	GN-GSA-MW-3	04/12/2022	0	0.0103 J	2.59	3.55	4.72	55.1	7.6	0.0187
Downgradient	GN-GSA-MW-1	04/13/2022	0	0.216	22.1	9.37	9.17	47.5	20.1	<0.00609
Downgradient	GN-GSA-MW-10	04/13/2022	0	<0.00812	1.81	4.24	2.03	107	9.07	<0.00609
Downgradient	GN-GSA-MW-11	04/13/2022	0	0.0323 J	2.76	3.43	5.34	15	7.34	0.0101 J
Downgradient	GN-GSA-MW-12	04/13/2022	0	0.0122 J	8.3	3.41	4.4	88	7.3	<0.00609
Downgradient	GN-GSA-MW-13	04/13/2022	0	<0.00812	10.5	4.6	3.31	91.8	9.84	<0.00609
Downgradient	GN-GSA-MW-5	04/12/2022	0	1.73	21.1	5.04	18.6	94.1	10.8	<0.00609
Downgradient	GN-GSA-MW-6	04/12/2022	0	0.0173 J	0.405 J	4.1	2.65	0.516	8.77	0.102
Downgradient	GN-GSA-MW-7	04/12/2022	--	0.056	9.14	3.37	5.12	71.2	7.21	<0.00609
Downgradient	GN-GSA-MW-8	04/12/2022	0	0.404	10.5	4.05	1.33	54.4	8.67	0.0152
Downgradient	GN-GSA-MW-9	04/12/2022	0	0.172	6.3	4.47	2.86	50.4	9.57	0.0171
Piezometer	GN-GSA-GS2-4	04/12/2022	0	--	--	--	--	91	--	--

Notes:
1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurment.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocurries per liter.

Southern Company

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gaston Gypsum Storage Area
04/12/2022 - 04/13/2022

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Manganese Total mg/L	Potassium mg/L	Nitrate Nitrite mg/L as N	Alkalinity Total as CaCO3 mg/L	Carbonate Alkalinity as CaCO3 mg/L	Bicarbonate Alkalinity as CaCO3 mg/L	Carbon, Total Organic mg/L	Chloride mg/L
Upgradient	GN-GSA-MW-14S	04/13/2022	0.00854	0.634	0.271 J	183	1.59	181	<1	2.42
Upgradient	GN-GSA-MW-15	04/12/2022	0.0806	0.257 J	<0.2	12	-10000	12	<1	1.88
Upgradient	GN-GSA-MW-2	04/12/2022	0.000618	0.465 J	0.306	287	0.954	286	<1	3.23
Upgradient	GN-GSA-MW-3	04/12/2022	0.0169	7.94	<0.2	138	-10000	138	<1	2.67
Downgradient	GN-GSA-MW-1	04/13/2022	0.00661	1.07	<0.2	224	1.82	222	<1	2.17
Downgradient	GN-GSA-MW-10	04/13/2022	0.00712	<0.169505	<0.2	263	0.874	262	<1	2.77
Downgradient	GN-GSA-MW-11	04/13/2022	0.239	0.256 J	<0.2	33.6	-10000	33.6	<1	19.6
Downgradient	GN-GSA-MW-12	04/13/2022	0.0996	0.244 J	<0.2	223	0.603	222	<1	3.76
Downgradient	GN-GSA-MW-13	04/13/2022	0.00175	0.874	0.419	278	1.8	276	<1	3.01
Downgradient	GN-GSA-MW-5	04/12/2022	0.601	0.297 J	<0.2	198	1.8	196	1.62 J	7.35
Downgradient	GN-GSA-MW-6	04/12/2022	0.00805	<0.169505	<0.2	2.72	-10000	2.72	<1	3.38
Downgradient	GN-GSA-MW-7	04/12/2022	0.315	0.619	<0.2	206	0.902	205	1.45 J	3.29
Downgradient	GN-GSA-MW-8	04/12/2022	0.116	1.36	<0.2	182	2.44	179	<1	1.54
Downgradient	GN-GSA-MW-9	04/12/2022	0.0157	0.703	<0.2	151	1.89	149	<1	1.91
Piezometer	GN-GSA-GS2-4	04/12/2022	--	--	--	--	--	--	--	4.93

Notes:
1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurment.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocurries per liter.

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gaston Gypsum Storage Area
04/12/2022 - 04/13/2022

General Chemistry and MNA Parameters			
Hydraulic Location	**Well**	**Sample Date**	**Sulfate mg/L**
Upgradient	GN-GSA-MW-14S	04/13/2022	2.44
Upgradient	GN-GSA-MW-15	04/12/2022	1.76 J
Upgradient	GN-GSA-MW-2	04/12/2022	8.36
Upgradient	GN-GSA-MW-3	04/12/2022	7.36
Downgradient	GN-GSA-MW-1	04/13/2022	4.24
Downgradient	GN-GSA-MW-10	04/13/2022	1.68 J
Downgradient	GN-GSA-MW-11	04/13/2022	2.73
Downgradient	GN-GSA-MW-12	04/13/2022	8.25
Downgradient	GN-GSA-MW-13	04/13/2022	7.27
Downgradient	GN-GSA-MW-5	04/12/2022	145
Downgradient	GN-GSA-MW-6	04/12/2022	<0.6
Downgradient	GN-GSA-MW-7	04/12/2022	5.75
Downgradient	GN-GSA-MW-8	04/12/2022	3.13
Downgradient	GN-GSA-MW-9	04/12/2022	4.09
Piezometer	GN-GSA-GS2-4	04/12/2022	23.2

Notes:
1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurment.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocurries per liter.

Appendix A

Southern Company

Appendix A. Historical Analytical Data
Plant Gaston Gyspum Pond

Analyte	Units	GROUNDWATER MONITORING WELL																		
		GN-GSA-MW-2																		
		03/23/2016	05/10/2016	07/05/2016	09/06/2016	11/08/2016	02/21/2017	05/31/2017	07/05/2017	09/05/2017	02/05/2018	06/12/2018	10/22/2018	05/20/2019	09/04/2019	02/12/2020	09/09/2020	04/13/2021	10/04/2021	04/12/2022
Appendix III																				
Boron	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	75.3	75.7	78.8	84.3	87.2	80	75.2	77.2	77.5	--	78.9	96.9	87.3	89.8	81.4	80.9	77.5	85	79.8
Chloride	mg/L	3.6	4.18	3.12	3.21	3.33	4.6	3.8	3.4	4.4	--	3.4	3.6	3.53	3.56	3.66	3.44	3.55	3.59	3.23
Fluoride	mg/L	0.022 J	0.068 J	0.052 J	0.038 J	<0.01	0.1	0.1	<0.032	<0.032	0.04 J	<0.032	<0.032	<0.05	<0.05	<0.05	0.0644 J	<0.06	0.0664 J	<0.06
Sulfate	mg/L	6.48	11.1	6.7	6.85	7.3	7.7	5.3	6.4	6.1	--	7.2	8.3	7.52	9.25	10.7	7.77	7.44	6.86	8.36
TDS	mg/L	272	283	294	295	310	280	287	287	280	--	284	278	286	297	276	272	283	287	271
Appendix IV																				
Antimony	mg/L	<0.0006	0.000616 J	<0.0006	0.00073 J	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	0.00117 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000123 J	0.000168 J	0.000102 J
Barium	mg/L	0.0389	0.0552	0.0329	0.0297	0.0313	0.0396	0.0301	0.0274	--	0.0325	0.0286	0.0324	0.0256	0.0325	0.0372	0.03	0.0371	0.0353	0.034
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000517 J	0.000605 J	0.000471 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium 226+228	pCi/L	3 U	0.24 U	0.225 U	0.0553 U	0.614 U	1.6	0.0999 U	0.241 U	--	0.206 U	0.592	0.351 U	0.435	0.347 U	0.419 U	0.611 U	0.258 U	1.1 U	--
Fluoride	mg/L	0.022 J	0.068 J	0.052 J	0.038 J	<0.01	0.1	0.1	<0.032	<0.032	0.04 J	<0.032	<0.032	<0.05	<0.05	<0.05	0.0644 J	<0.06	0.0664 J	<0.06
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000307	0.000338	0.000259
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Appendix A. Historical Analytical Data
Plant Gaston Gyspum Pond

Analyte	Units	GROUNDWATER MONITORING WELL																		
		GN-GSA-MW-3																		
		03/23/2016	05/10/2016	07/06/2016	09/07/2016	11/08/2016	02/20/2017	05/31/2017	07/05/2017	09/05/2017	02/06/2018	06/12/2018	10/23/2018	05/22/2019	09/04/2019	02/12/2020	09/09/2020	04/13/2021	10/04/2021	04/12/2022
Appendix III																				
Boron	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	106	109	98.7	98.6	99.7	93.4	84.1	92.6	86.1	--	76.5	68.8	53.1	76.4	89.6	63.1	57.8	43.7	55.1
Chloride	mg/L	3.67	3.34	3.08	2.95	2.92	3.3	2.9	2.6	3.5	--	3.1	2.6	2.83	2.92	2.49	2.74	2.76	2.88	2.67
Fluoride	mg/L	0.06 J	0.111 J	0.089 J	0.073 J	<0.01	0.05 J	0.06 J	0.05 J	0.06 J	0.06 J	0.05 J	0.05 J	0.0515 J	0.0594 J	0.0566 J	0.0748 J	0.069 J	0.0637 J	<0.06
Sulfate	mg/L	32.6	27.6	23.6	22.2	20.4	14	15	11	17	--	14	12	11	10.9	9.13	8.76	7.88	8.09	7.36
TDS	mg/L	334	349	316	309	302	297	287	283	284	--	248	215	184	225	250	220	196	168	156
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00011 J	<6.8e-005	<8.1e-005
Barium	mg/L	0.0597	0.0622	0.0512	0.0453	0.0423	0.0306	0.0347	0.0287	--	0.0341	0.0323	0.035	0.0271	0.0358	0.0257	0.0273	0.0259	0.0232	0.0309
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000337 J	0.000455 J	0.00026 J
Cobalt	mg/L	0.00232 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium 226+228	pCi/L	3 U	0.94	0.878	1.45	1.48	0.755	0.91	0.154 U	--	0.111 U	0.289 U	0.879	0.643 U	2.36	0.444 U	1.02	0.652 U	1.22 U	--
Fluoride	mg/L	0.06 J	0.111 J	0.089 J	0.073 J	<0.01	0.05 J	0.06 J	0.05 J	0.06 J	0.06 J	0.05 J	0.05 J	0.0515 J	0.0594 J	0.0566 J	0.0748 J	0.069 J	0.0637 J	<0.06
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	7.49e-005 J	<6.8e-005	<0.000102
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	0.000598 J	<0.000508
Thallium	mg/L	0.000228 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Appendix A. Historical Analytical Data
Plant Gaston Gypsum Pond

Analyte	Units	GROUNDWATER MONITORING WELL																		
		GN-GSA-MW-14S																		
		07/05/2016	08/23/2016	09/07/2016	11/08/2016	01/03/2017	02/21/2017	05/31/2017	07/05/2017	09/05/2017	02/06/2018	06/12/2018	10/23/2018	05/22/2019	09/04/2019	02/12/2020	09/09/2020	04/13/2021	10/04/2021	04/13/2022
Appendix III																				
Boron	mg/L	<0.02	<0.02	<0.02	<0.02	0.0211 J	<0.02	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	50.8	51.7	48.4	50.7	55.4	48	45.4	45.7	48.5	--	45.2	44.4	47.1	47.4	57.3	46.7	48.4	48	58.9
Chloride	mg/L	3.86	4.69	4.6	4.68	5.25	4.3	4.2	3.4	4.5	--	3.6	3.4	2.89	2.88	2.4	2.49	2.56	2.5	2.42
Fluoride	mg/L	0.072 J	0.066 J	0.062 J	<0.01	<0.01	0.1	0.06 J	0.04 J	0.06 J	0.06 J	0.05 J	0.07 J	0.0601 J	0.0703 J	<0.05	0.0847 J	<0.06	0.0838 J	<0.06
Sulfate	mg/L	11.7	13.7	12.4	12.9	14.1	6.1	8	3.8 J	6.8	--	5	5.4	5.57	6.37	3.09	5.26	3.45	3.78	2.44
TDS	mg/L	194	208	198	205	221	195	220	185	202	--	205	204	202	195	189	198	191	183	187
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000187 J	0.000158 J	0.000143 J
Barium	mg/L	0.0375	0.0353	0.0365	0.0393	0.0373	0.0262	0.0305	0.0245	--	0.034	0.0291	0.032	0.0257	0.0303	0.0239	0.0262	0.0217	0.024	0.0217
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000697 J	0.000653 J	0.000699 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium 226+228	pCi/L	0.385 U	0.411 U	0.88	0.791	0.412 U	0.746	0.115 U	0.152 U	--	0.308 U	0.672	0.248 U	0.24 U	2.02	0.79	0.453 U	0.788 U	0.573 U	--
Fluoride	mg/L	0.072 J	0.066 J	0.062 J	<0.01	<0.01	0.1	0.06 J	0.04 J	0.06 J	0.06 J	0.05 J	0.07 J	0.0601 J	0.0703 J	<0.05	0.0847 J	<0.06	0.0838 J	<0.06
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000334	0.000456	0.000215
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Appendix A. Historical Analytical Data
Plant Gaston Gyspum Pond

Analyte	Units	GROUNDWATER MONITORING WELL																		
		GN-GSA-MW-15																		
		07/06/2016	08/23/2016	09/07/2016	11/08/2016	01/03/2017	02/20/2017	05/31/2017	07/05/2017	09/05/2017	02/07/2018	06/12/2018	10/23/2018	05/22/2019	09/04/2019	02/12/2020	09/09/2020	04/13/2021	10/06/2021	04/12/2022
Appendix III																				
Boron	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	10.7	7.34	7.86	8.94	9.21	8.53	7.02	8.08	7.44	--	7.37	5.94	6.34	6.07	5.62	4.73	5.17	4.62	4.52
Chloride	mg/L	3.78	3.47	3.4	3.29	3.11	2.7	2.3	2	2.5	--	2	1.5 J	1.75	1.95	1.8	1.95	1.86	2.07	1.88
Fluoride	mg/L	0.062 J	0.045 J	0.042 J	<0.01	<0.01	0.1	0.1	<0.032	<0.032	<0.032	<0.032	<0.032	<0.05	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06
Sulfate	mg/L	5.38	4.23	3.84	3.23	3	3.1 J	2.1 J	2 J	2.2 J	--	2.3 J	<1.4	2.82	2.3	1.77	2	2.51	2.15	1.76 J
TDS	mg/L	55.3	45.3	37.3	40.7	47.3	55.3	46.7	41.3	34.7	--	38	27.3	35.3	28	30.7	32.7	35.3	--	27.3
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000134 J	0.000319	0.000281
Barium	mg/L	0.014	0.00858 J	0.00994 J	0.0108	0.00989 J	0.00932 J	0.00876 J	0.00935 J	--	0.00897 J	0.0112	0.00948 J	0.00958 J	0.00964 J	0.0088 J	0.00706 J	0.00801	0.00769	0.00927
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000375 J	<0.000203	0.000234 J
Cobalt	mg/L	0.00313 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00046	0.000501	0.000658
Combined Radium 226+228	pCi/L	0.563	0.352 U	1.08	0.908	0.661	0.155 U	-0.105 U	0.372	--	0.0874 U	0.446	0.829	0.588	1.06	0.297 U	0.258 U	0.452 U	1.33	--
Fluoride	mg/L	0.062 J	0.045 J	0.042 J	<0.01	<0.01	0.1	0.1	<0.032	<0.032	<0.032	<0.032	<0.032	<0.05	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	0.000226
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.000102
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Appendix A. Historical Analytical Data
Plant Gaston Gypsum Pond

Analyte	Units	GROUNDWATER MONITORING WELL																				
		GN-GSA-MW-1																				
		03/24/2016	05/10/2016	07/05/2016	09/06/2016	11/08/2016	02/22/2017	03/01/2017	05/31/2017	07/05/2017	09/07/2017	02/05/2018	06/12/2018	10/23/2018	05/21/2019	09/04/2019	02/12/2020	09/09/2020	04/13/2021	10/04/2021	02/08/2022	04/13/2022
Appendix III																						
Boron	mg/L	0.0311 J	0.0334 J	0.0359 J	0.0316 J	0.0361 J	0.028 J	--	0.0297 J	0.0302 J	0.0345 J	--	0.0331 J	0.0345 J	0.0376 J	0.0363 J	0.0349 J	0.0366 J	0.0306 J	0.0343 J	0.0361 J	0.0355 J
Calcium	mg/L	36.9	37.9	35.3	34.8	34.3	35.9	--	34.3	35.5	36.7	--	42.2	38.9	47.8	41.4	44.1	44.5	44	45.4	42.3	44.8
Chloride	mg/L	3.35	3.06	2.9	2.54	2.34	2.9	--	2.7	2.2	2.9	--	2.4	2.1	2.6	2.39	2.36	2.49	2.54	2.58	2.4	2.17
Fluoride	mg/L	0.325	0.33	0.325	0.315	0.227 J	0.34	--	0.3	0.3	0.37	0.37	0.32	0.39	0.264	0.33	0.301	0.313	0.29	0.376	0.282	0.307
Sulfate	mg/L	6.06	5.47	4.8	3.91	2.95	3.3 J	--	3.4 J	3.4 J	3.6 J	--	4.2 J	3 J	4.58	4.82	5.11	3.97	4.43	4.08	4.41	4.24
TDS	mg/L	203	204	188	188	197	165	--	244	201	196	--	221	195	244	200	219	221	237	221	207	217
Appendix IV																						
Antimony	mg/L	0.00116 J	0.000629 J	0.000718 J	0.000833 J	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	0.000909 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	0.0444	0.041	0.0333	0.0289	0.0241	0.0192	--	0.0154	0.0155	--	0.014	0.011	0.00829	0.00722	0.00534	0.0062	0.0046 J	0.00427	0.00335	0.00275	0.00248
Barium	mg/L	1.43	1.83	1.71	1.65	1.6	1.53	--	1.66	1.66	--	1.8	2.32	2.22	2.51	1.96	2.15	2.5	2.41	1.92	2.43	2.1
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000203	0.000207 J	<0.000203	<0.000203
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium 226+228	pCi/L	3 U	0.904	0.971	1.09	1.13	--	0.736	0.961	1.1	--	0.596	0.89	1.14	1.38	2.39	1.17	1.02	0.909 U	1.43	--	--
Fluoride	mg/L	0.325	0.33	0.325	0.315	0.227 J	0.34	--	0.3	0.3	0.37	0.37	0.32	0.39	0.264	0.33	0.301	0.313	0.29	0.376	0.282	0.307
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0101 J	0.00953 J	0.00963 J	0.0095 J	0.0099 J
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0241	0.0239	0.0176	0.0138	0.0102	0.0102	--	0.00805 J	0.009 J	--	0.00908 J	0.00655 J	0.006 J	0.00504 J	0.00504 J	0.00448 J	0.00405 J	0.00353	0.00372	0.00348	0.0033
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Appendix A. Historical Analytical Data
Plant Gaston Gyspum Pond

Analyte	Units	GROUNDWATER MONITORING WELL																		
		GN-GSA-MW-5																		
		03/23/2016	05/11/2016	07/06/2016	09/06/2016	11/08/2016	02/20/2017	05/30/2017	07/05/2017	09/07/2017	02/06/2018	06/11/2018	10/22/2018	05/20/2019	09/04/2019	02/11/2020	09/08/2020	04/13/2021	10/04/2021	04/12/2022
Appendix III																				
Boron	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.022 J	--	0.0386 J	0.0456 J	0.0769 J	0.0641 J	0.0406 J	0.0425 J	0.0333 J	0.0395 J	0.0481 J
Calcium	mg/L	48.1	46	52.1	49.7	54.3	51.3	50	56.9	66.5	--	62.4	60.6	58.8	57.9	76.6	83.9	79.2	81.2	94.1
Chloride	mg/L	4.84	4.19	4.67	4.23	4.51	5.8	13	17	17	--	14	14	12.9	11.9	11.2	11.7	9.78	9.45	7.35
Fluoride	mg/L	0.028 J	0.074 J	0.065 J	0.052 J	<0.01	0.1	0.04 J	<0.032	<0.032	<0.032	0.04 J	0.06 J	0.0842 J	0.0962 J	<0.05	<0.06	<0.06	<0.06	<0.06
Sulfate	mg/L	14.1	13.5	17.1	11.2	10.9	8.8	12	19	33	--	47	40	75.6	56.3	79.7	113	108	115	145
TDS	mg/L	185	176	203	180	187	205	187	238	269	--	312	292	398	388	308	360	350	395	400
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	0.00241 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	0.00119 J	0.00188 J	0.00259 J	0.00305 J	<0.001	<0.001	0.000587	0.000571	0.000896
Barium	mg/L	0.0333	0.0378	0.0456	0.0378	0.039	0.0337	0.0374	0.0361	--	0.0418	0.056	0.0711	0.0671	0.0824	0.0513	0.0464	0.0478	0.0517	0.0666
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000203	0.000277 J	0.000287 J
Cobalt	mg/L	0.00403 J	0.00289 J	0.00485 J	0.00281 J	0.0035 J	<0.002	<0.002	<0.002	--	0.00274 J	0.00472 J	0.0049 J	0.00489 J	0.00527	<0.002	<0.002	0.00104	0.00144	0.00215
Combined Radium 226+228	pCi/L	3 U	0.0157 U	0.648	0.633	0.67	0.073 U	0.646	0.16 U	--	0.0645 U	0.577	1.16	-0.251 U	1.05	0.585	0.921	0.434 U	0.11 U	--
Fluoride	mg/L	0.028 J	0.074 J	0.065 J	0.052 J	<0.01	0.1	0.04 J	<0.032	<0.032	<0.032	0.04 J	0.06 J	0.0842 J	0.0962 J	<0.05	<0.06	<0.06	<0.06	<0.06
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	9.4e-005 J	8.83e-005 J	0.000139 J
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Appendix A. Historical Analytical Data
Plant Gaston Gyspum Pond

Analyte	Units	GROUNDWATER MONITORING WELL																		
		GN-GSA-MW-6																		
		03/23/2016	05/11/2016	07/06/2016	09/06/2016	11/08/2016	02/20/2017	05/30/2017	07/05/2017	09/07/2017	02/06/2018	06/11/2018	10/22/2018	05/20/2019	09/04/2019	02/11/2020	09/08/2020	04/13/2021	10/04/2021	04/12/2022
Appendix III																				
Boron	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	1.32	1.13	1.18	1.09	1.32	0.829	0.743	0.68	0.825	--	0.722	0.79	0.652	0.872	0.562	0.652	0.505	0.53	0.516
Chloride	mg/L	3.36	3.04	2.86	2.92	3.01	3.7	3.2	2.8	3	--	2.7	2.6	3.15	3.21	3.36	3.29	3.54	3.61	3.38
Fluoride	mg/L	<0.01	0.055 J	0.047 J	0.036 J	<0.01	0.1	0.1	<0.032	<0.032	<0.032	<0.032	<0.032	<0.05	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06
Sulfate	mg/L	1.89	1.79	1.3	1.14	0.622 J	5	5	<1.4	<1.4	--	<1.4	<1.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.6
TDS	mg/L	27.3	--	--	--	--	30	--	26	--	--	--	--	27.3	--	--	--	26	32	--
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	0.00171 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	9.88e-005 J	7.81e-005 J	<8.1e-005
Barium	mg/L	0.0149	0.0168	0.0166	0.0144	0.015	0.0126	0.0146	0.0143	--	0.0156	0.0155	0.0185	0.0156	0.0176	0.0175	0.0159	0.0175	0.0161	0.0157
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000257 J	0.000245 J	0.000221 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000682	0.000651	0.000665
Combined Radium 226+228	pCi/L	3 U	0.222 U	0.375 U	0.607 U	1.36	0.524	-0.1 U	0.376 U	--	-0.14 U	0.436	1.07	0.498	0.608	0.743	-0.109 U	0.611 U	1.7	--
Fluoride	mg/L	<0.01	0.055 J	0.047 J	0.036 J	<0.01	0.1	0.1	<0.032	<0.032	<0.032	<0.032	<0.032	<0.05	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000305	0.000314	0.000396
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.000102
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Appendix A. Historical Analytical Data
Plant Gaston Gyspum Pond

Analyte	Units	GROUNDWATER MONITORING WELL																		
		GN-GSA-MW-7																		
		03/23/2016	05/11/2016	07/06/2016	09/06/2016	11/08/2016	02/20/2017	05/31/2017	07/05/2017	09/07/2017	02/06/2018	06/11/2018	10/22/2018	05/20/2019	09/04/2019	02/11/2020	09/09/2020	04/13/2021	10/04/2021	04/12/2022
Appendix III																				
Boron	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	59.1	58.9	60.8	62.2	63.9	69.6	63	64.6	70.5	--	63.5	70.3	72.5	72	71.2	66.7	64.1	70.4	63.6
Chloride	mg/L	3.28	3.08	2.96	2.97	3.22	4	4.3	3.4	4	--	3.6	3.7	3.25	4.31	3.69	3.34	3.64	3.48	3.29
Fluoride	mg/L	0.063 J	0.105 J	0.094 J	0.08 J	<0.01	0.09 J	0.08 J	0.08 J	0.09 J	0.08 J	0.09 J	0.1	0.0919 J	0.07 J	0.0912 J	0.118	0.129	0.12	0.0724 J
Sulfate	mg/L	13.8	11.9	11.1	10.6	12.1	9.7	11	8.3	8.6	--	7.5	8.8	6.85	10.1	8.5	7.13	6.37	6.02	5.75
TDS	mg/L	202	207	202	204	212	251	234	229	225	--	210	209	218	233	241	234	220	232	214
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	0.00123 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.001 J	<0.001	0.000469	0.000286	0.000492
Barium	mg/L	0.02	0.0221	0.0227	0.0204	0.0208	0.0193	0.0201	0.0181	--	0.0183	0.0196	0.0228	0.0163	0.0256	0.0194	0.0161	0.016	0.0181	0.0161
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000361 J	0.000563 J	0.000222 J
Cobalt	mg/L	0.00656 J	0.00505 J	0.00515 J	0.0037 J	0.00375 J	0.00263 J	0.00287 J	<0.002	--	<0.002	<0.002	<0.002	<0.002	0.00217 J	<0.002	<0.002	0.00077	0.000326	0.000714
Combined Radium 226+228	pCi/L	3 U	0.329 U	-0.129 U	0.858	0.49 U	0.506	0.272 U	0.216 U	--	0.168 U	0.199 U	1.03	0.465	1.28	0.513 U	0.382 U	0.492 U	0.144 U	--
Fluoride	mg/L	0.063 J	0.105 J	0.094 J	0.08 J	<0.01	0.09 J	0.08 J	0.08 J	0.09 J	0.08 J	0.09 J	0.1	0.0919 J	0.07 J	0.0912 J	0.118	0.129	0.12	0.0724 J
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	0.00229 J	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000276	0.000248	0.000282
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Appendix A. Historical Analytical Data
Plant Gaston Gyspum Pond

Analyte	Units	GROUNDWATER MONITORING WELL																		
		GN-GSA-MW-8																		
		03/24/2016	05/11/2016	07/06/2016	09/06/2016	11/08/2016	02/20/2017	05/30/2017	07/05/2017	09/07/2017	02/06/2018	06/12/2018	10/22/2018	05/21/2019	09/03/2019	02/12/2020	09/09/2020	04/13/2021	10/04/2021	04/12/2022
Appendix III																				
Boron	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	57.4	57	56.7	57.3	59.4	57.7	52.5	52.7	58.4	--	53.7	55.4	55.7	57.4	55.7	55.3	52.2	55.1	54.4
Chloride	mg/L	1.73	1.68	1.68	1.7	2.03	2.3	2.2	1.6 J	2.4	--	1.9 J	<1.4	1.51	1.64	1.64	1.61	1.64	1.76	1.54
Fluoride	mg/L	0.132 J	0.176 J	0.167 J	0.153 J	0.043 J	0.15	0.14	0.13	0.13	0.15	0.13	0.15	0.109	0.123	0.108	0.14	0.119	0.134	0.0621 J
Sulfate	mg/L	2.42	2.16	1.7	1.31	1.4	2 J	1.6 J	1.9 J	2.1 J	--	2.7 J	2.2 J	3.39	4.15	4.31	3.67	4.49	5.05	3.13
TDS	mg/L	179	195	192	193	198	195	184	194	193	--	186	184	185	184	182	192	186	203	176
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	0.00106 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00112 J	<0.001	0.00124 J	0.00137 J	0.00162 J	0.00127 J	0.00129 J	0.00116 J	--	0.00131 J	0.00115 J	0.0015 J	0.00128 J	0.00118 J	0.00133 J	0.00126 J	0.00134	0.00135	0.00124
Barium	mg/L	0.0249	0.0291	0.0317	0.0312	0.0349	0.0264	0.027	0.0245	--	0.0248	0.0299	0.0314	0.0264	0.0314	0.0257	0.026	0.0262	0.0265	0.0239
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000291 J	0.000365 J	0.000263 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000123 J	0.000137 J	7.46e-005 J
Combined Radium 226+228	pCi/L	3 U	0.202 U	0.291 U	-0.0526 U	0.364 U	0.174 U	0.368 U	0.224 U	--	-0.011 U	0.324 U	0.748	0.21 U	0.983	-0.0587 U	0.287 U	0.391 U	0.794 U	--
Fluoride	mg/L	0.132 J	0.176 J	0.167 J	0.153 J	0.043 J	0.15	0.14	0.13	0.13	0.15	0.13	0.15	0.109	0.123	0.108	0.14	0.119	0.134	0.0621 J
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00317 J	0.00424 J	0.00489 J	0.00466 J	0.00422 J	0.00422 J	0.00344 J	0.00369 J	--	0.00331 J	0.00325 J	0.00359 J	0.00379 J	0.00437 J	0.00322 J	0.00418 J	0.00318	0.00345	0.00347
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Appendix A. Historical Analytical Data
Plant Gaston Gyspum Pond

Analyte	Units	GROUNDWATER MONITORING WELL																		
		GN-GSA-MW-9																		
		03/23/2016	05/11/2016	07/06/2016	09/07/2016	11/08/2016	02/21/2017	05/30/2017	07/05/2017	09/07/2017	02/06/2018	06/12/2018	10/22/2018	05/21/2019	09/03/2019	02/12/2020	09/08/2020	04/13/2021	10/05/2021	04/12/2022
Appendix III																				
Boron	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	45.9	49.4	56	53.8	64.3	45.6	45.8	36.4	53.5	--	47.6	52.4	51.6	60.3	45.3	57.5	43.5	54.6	46.3
Chloride	mg/L	2.26	2.26	2.28	2.32	2.26	2.9	2.9	2.7	2.8	--	2.6	2	2.12	2.26	2.24	2.06	2.14	2.16	1.94
Fluoride	mg/L	0.035 J	0.08 J	0.072 J	0.057 J	<0.01	0.1	0.04 J	<0.032	0.04 J	0.04 J	0.04 J	0.05 J	0.0526 J	0.0554 J	<0.05	0.097 J	0.0602 J	<0.06	<0.06
Sulfate	mg/L	5.54	5.66	5.62	5.31	4.42	5.3	5.2	4.4 J	5.9	--	5.7	5.1	6.07	6.53	5.67	5.42	4.65	4.08	4.05
TDS	mg/L	149	179	183	173	207	153	158	138	171	--	167	177	176	189	153	187	163	170	155
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	0.00112 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	0.00101 J	0.00121 J	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000237	0.000144 J	0.000107 J
Barium	mg/L	0.0252	0.0327	0.0342	0.0292	0.0281	0.0235	0.0214	0.0213	--	0.0232	0.0259	0.0265	0.0249	0.0271	0.0214	0.0234	0.0226	0.0234	0.0208
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000276 J	0.000208 J	0.00022 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	8.16e-005 J	0.000406	<6.8e-005
Combined Radium 226+228	pCi/L	3 U	0.903 U	0.19 U	0.458 U	1.25	0.657	0.373 U	0.415	--	0.328 U	0.141 U	0.21 U	0.289 U	0.994	0.377 U	1.07	0.592 U	0.2 U	--
Fluoride	mg/L	0.035 J	0.08 J	0.072 J	0.057 J	<0.01	0.1	0.04 J	<0.032	0.04 J	0.04 J	0.04 J	0.05 J	0.0526 J	0.0554 J	<0.05	0.097 J	0.0602 J	<0.06	<0.06
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000207	0.000319	0.000253
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Appendix A. Historical Analytical Data
Plant Gaston Gyspum Pond

Analyte	Units	GROUNDWATER MONITORING WELL																		
		GN-GSA-MW-10																		
		03/24/2016	05/11/2016	07/06/2016	09/06/2016	11/09/2016	02/21/2017	05/31/2017	07/05/2017	09/07/2017	02/06/2018	06/12/2018	10/24/2018	05/21/2019	09/03/2019	02/12/2020	09/08/2020	04/13/2021	10/05/2021	04/13/2022
Appendix III																				
Boron	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	90.3	91.1	90.7	94.5	92.9	93.1	86.6	91.5	99	--	101	104	101	102	99.2	99.9	97.1	108	95.7
Chloride	mg/L	2.78	2.62	2.53	2.51	2.67	3.4	3.6	2.7	3.9	--	2.8	2.9	2.98	2.84	2.86	2.8	3.07	3.04	2.78
Fluoride	mg/L	0.02 J	0.062 J	0.051 J	0.037 J	<0.01	0.1	0.1	<0.032	<0.032	<0.032	<0.032	<0.032	<0.05	<0.05	<0.05	0.0617 J	<0.06	<0.06	<0.06
Sulfate	mg/L	1.62	2.15	1.89	1.53	1.69	2.2 J	1.7 J	<1.4	1.7 J	--	1.8 J	<1.4	1.72	1.73	1.65	1.62	1.68	1.8	1.66 J
TDS	mg/L	2240	257	256	245	258	243	252	257	259	--	266	265	274	260	259	275	273	293	273
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	0.000916 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	8.71e-005 J	7.29e-005 J	0.000112 J
Barium	mg/L	0.0339	0.0375	0.0374	0.0331	0.0367	0.0335	0.0314	0.0321	--	0.0337	0.0342	0.0393	0.0323	0.0377	0.0344	0.0331	0.0373	0.0359	0.033
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	8.16e-005 J	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000203	0.000234 J	<0.000203
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium 226+228	pCi/L	3 U	0.197 U	-0.0714 U	0.59 U	0.621 U	1.01	0.191 U	0.166 U	--	0.275 U	0.218 U	1.4	5.12 U	0.793	0.13 U	0.65 U	0.531 U	0.269 U	--
Fluoride	mg/L	0.02 J	0.062 J	0.051 J	0.037 J	<0.01	0.1	0.1	<0.032	<0.032	<0.032	<0.032	<0.032	<0.05	<0.05	<0.05	0.0617 J	<0.06	<0.06	<0.06
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.000102
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Appendix A. Historical Analytical Data
Plant Gaston Gyspum Pond

Analyte	Units	GROUNDWATER MONITORING WELL																		
		GN-GSA-MW-11																		
		03/23/2016	05/11/2016	07/06/2016	09/07/2016	11/09/2016	02/21/2017	05/31/2017	07/05/2017	09/07/2017	02/06/2018	06/12/2018	10/24/2018	05/21/2019	09/03/2019	02/12/2020	09/09/2020	04/13/2021	10/05/2021	04/13/2022
Appendix III																				
Boron	mg/L	0.0309 J	0.0306 J	0.0307 J	0.0319 J	0.0362 J	0.0295 J	0.0312 J	0.0315 J	0.0408 J	--	0.034 J	0.0416 J	0.0413 J	0.0452 J	0.043 J	0.044 J	0.0422 J	0.0472 J	0.0571 J
Calcium	mg/L	14.8	11.5	10.4	9.73	8.07	13.2	8.56	11.9	9.2	--	11.5	7.73	11.7	8.9	13.1	9.3	12.3	13.8	15
Chloride	mg/L	2.64	3.02	4.01	4.51	3.74	4.1	5.3	4.6	6.5	--	8.8	7.2	10.4	7.1	7.16	6.27	9.8	13.8	19.6
Fluoride	mg/L	0.02 J	0.063 J	0.053 J	0.041 J	<0.01	0.1	0.1	<0.032	0.04 J	<0.032	<0.032	<0.032	<0.05	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06
Sulfate	mg/L	7.59	6.6	11.8	14.9	4.5	5.7	5.6	4.6 J	6.2	--	3.5 J	2.4 J	3.55	2.83	3.89	3.01	2.77	2.86	2.73
TDS	mg/L	56.7	54.7	76	96	57.3	76.7	75.3	80	105	--	72	68	66	51.3	66	59.3	66	92.7	84
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	9.35e-005 J	0.000111 J	8.77e-005 J
Barium	mg/L	0.00756 J	0.00769 J	0.00975 J	0.0101	0.00934 J	0.00713 J	0.00552 J	0.00664 J	--	0.00614 J	0.00637 J	0.00522 J	0.0056 J	0.00656 J	0.00444 J	0.00545 J	0.00636	0.00871	0.0162
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000203	0.000303 J	<0.000203
Cobalt	mg/L	0.00454 J	0.00407 J	0.00654 J	0.00737 J	0.00732 J	0.00315 J	0.0023 J	0.00303 J	--	0.00324 J	0.00251 J	0.00286 J	0.00245 J	0.00298 J	<0.002	0.00256 J	0.00212	0.00217	0.00333
Combined Radium 226+228	pCi/L	3 U	0.0833 U	0.0827 U	2.13	0.419 U	1.19	0.215 U	0.289 U	--	-0.183 U	0.569	0.898	0.0995 U	3.47	0.0433 U	0.798	0.589 U	0.524 U	--
Fluoride	mg/L	0.02 J	0.063 J	0.053 J	0.041 J	<0.01	0.1	0.1	<0.032	0.04 J	<0.032	<0.032	<0.032	<0.05	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	0.00011 J
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.000102
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Appendix A. Historical Analytical Data
Plant Gaston Gyspum Pond

Analyte	Units	GROUNDWATER MONITORING WELL																		
		GN-GSA-MW-12																		
		03/23/2016	05/10/2016	07/06/2016	09/06/2016	11/09/2016	02/21/2017	05/31/2017	07/05/2017	09/07/2017	02/05/2018	06/12/2018	10/23/2018	05/21/2019	09/04/2019	02/12/2020	09/09/2020	04/13/2021	10/05/2021	04/13/2022
Appendix III																				
Boron	mg/L	0.0387 J	0.0384 J	0.029 J	0.0278 J	0.0331 J	0.0323 J	0.0316 J	0.0318 J	0.0338 J	--	0.0305 J	0.0347 J	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	70.2	65.6	58.2	62.3	62.7	69.9	66.5	66.9	72.9	--	69.9	64.3	77.9	74.2	77.8	77	81.6	87.9	81.9
Chloride	mg/L	4.43	3.38	2.62	2.65	2.55	4.7	4.1	3.2	3.5	--	3.1	2.1	3.02	2.73	4.21	2.8	3.97	3.69	3.76
Fluoride	mg/L	0.058 J	0.095 J	0.069 J	0.055 J	<0.01	0.05 J	0.06 J	0.05 J	0.06 J	0.08 J	0.06 J	0.06 J	0.0649 J	0.0547 J	0.0586 J	0.068 J	<0.06	<0.06	<0.06
Sulfate	mg/L	16.2	12.1	7.7	6.97	5.77	12	8.7	7.7	7	--	8.7	4.8 J	7.81	6.25	13.1	5.85	8.86	8.02	8.25
TDS	mg/L	237	226	191	200	190	264	242	231	225	--	230	201	231	217	256	230	260	255	250
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	0.000813 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.0013 J	0.00107 J	0.00113 J	0.00169 J	0.00168 J	<0.001	0.00102 J	0.00117 J	--	0.00127 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00033	0.000232	0.00021
Barium	mg/L	0.0224	0.0232	0.0199	0.0195	0.017	0.0214	0.0223	0.022	--	0.0254	0.023	0.0176	0.0214	0.0205	0.024	0.0182	0.0234	0.0212	0.0227
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000203	0.00029 J	0.00021 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000218	0.000417	0.000155 J
Combined Radium 226+228	pCi/L	3 U	0.0311 U	0.359 U	1.03 U	1.22	0.0581 U	0.186 U	0.245 U	--	0.321 U	0.321 U	0.723	0.376 U	0.534	0.836	1.88	0.592 U	1.42	--
Fluoride	mg/L	0.058 J	0.095 J	0.069 J	0.055 J	<0.01	0.05 J	0.06 J	0.05 J	0.06 J	0.08 J	0.06 J	0.06 J	0.0649 J	0.0547 J	0.0586 J	0.068 J	<0.06	<0.06	<0.06
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000298	0.000325	0.00031
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Appendix A. Historical Analytical Data
Plant Gaston Gyspum Pond

Analyte	Units	GROUNDWATER MONITORING WELL																		
		GN-GSA-MW-13																		
		03/24/2016	05/10/2016	07/06/2016	09/06/2016	11/08/2016	02/22/2017	05/31/2017	07/05/2017	09/07/2017	02/05/2018	06/12/2018	10/23/2018	05/21/2019	09/04/2019	02/12/2020	09/09/2020	04/13/2021	10/04/2021	04/13/2022
Appendix III																				
Boron	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	79.9	77.6	72	81.6	83.8	86.4	84.1	89.5	93.2	--	101	97.6	106	93.7	93.1	88.7	89.8	92.2	91.8
Chloride	mg/L	3.16	3.02	3.1	3.31	3.32	4.8	4	3.6	4.5	--	3.5	3.5	3.3	3.33	4.1	3.4	3.56	3.37	3.01
Fluoride	mg/L	0.039 J	0.085 J	0.075 J	0.058 J	<0.01	0.04 J	0.04 J	0.04 J	0.05 J	0.04 J	0.04 J	0.05 J	0.0595 J	0.0555 J	<0.05	0.0655 J	0.0633 J	0.0748 J	<0.06
Sulfate	mg/L	7.64	6.79	7.59	9.56	8.87	10	8	8.2	8.3	--	8.3	6.7	8.29	8.18	9.06	7.89	8.38	7.18	7.27
TDS	mg/L	244	247	247	264	173	260	277	296	294	--	282	279	286	271	282	271	286	277	266
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	0.00127 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00157 J	0.00182 J	0.00152 J	0.00197 J	<0.001	0.0011 J	<0.001	<0.001	--	<0.001	<0.001	<0.001	0.00348 J	<0.001	<0.001	<0.001	0.000189 J	0.000126 J	0.000126 J
Barium	mg/L	0.0432	0.0609	0.0542	0.0544	0.0491	0.0537	0.0452	0.0461	--	0.0469	0.0469	0.0457	0.0697	0.0455	0.0419	0.039	0.0403	0.0374	0.0338
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	0.002 J	<0.002	<0.002	<0.002	0.000518 J	0.000597 J	0.000523 J
Cobalt	mg/L	0.00662 J	0.00549 J	0.00537 J	0.00568 J	0.00388 J	0.00412 J	<0.002	<0.002	--	<0.002	<0.002	<0.002	0.0578	<0.002	<0.002	<0.002	0.000158 J	8.7e-005 J	7.16e-005 J
Combined Radium 226+228	pCi/L	3 U	-0.0573 U	0.607	0.47 U	0.177 U	0.783	0.153 U	0.444	--	-0.0362 U	-0.0382 U	1.04	0.503 U	3.92	0.799	0.27 U	0.667 U	0.231 U	--
Fluoride	mg/L	0.039 J	0.085 J	0.075 J	0.058 J	<0.01	0.04 J	0.04 J	0.04 J	0.05 J	0.04 J	0.04 J	0.05 J	0.0595 J	0.0555 J	<0.05	0.0655 J	0.0633 J	0.0748 J	<0.06
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	0.00228 J	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000175 J	0.000162 J	0.000164 J
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Appendix B

Appendix B.
Historical Groundwater Elevations Summary

Well Name	Top of Casing Elevation	Groundwater Elevation (ft. AMSL)									
		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
GN-GSA-MW-1	426.73	399.89	400.55	399.31	396.15	396.46	394.18	399.83	398.12	400.75	398.09
GN-GSA-MW-2	421.19	403.92	402.87	401.41	398.08	397.71	397.31	401.40	399.44	405.73	399.15
GN-GSA-MW-3	425.30	411.24	409.76	407.57	402.71	400.85	399.16	402.18	403.33	408.43	403.55
GN-GSA-PZ-4	427.71	--	--	--	--	--	--	--	--	--	--
GN-GSA-MW-5	429.49	401.23	401.09	400.13	397.51	397.17	396.30	400.39	399.22	401.99	399.17
GN-GSA-MW-6	427.64	400.10	400.07	399.25	397.27	397.02	395.44	399.55	398.66	400.74	398.55
GN-GSA-MW-7	423.79	391.38	398.01	397.35	395.97	395.77	394.57	397.65	397.24	398.14	397.30
GN-GSA-MW-8	417.58	396.41	397.38	396.20	395.84	395.75	395.46	396.50	395.90	396.71	396.33
GN-GSA-MW-9	417.68	397.03	398.56	396.61	395.76	395.74	394.99	397.13	396.05	398.57	396.75
GN-GSA-MW-10	418.04	396.51	397.33	396.29	395.64	395.68	395.05	396.67	396.21	396.71	396.40
GN-GSA-MW-11	417.69	396.44	397.28	396.21	395.47	395.55	395.13	396.60	396.09	396.38	396.21
GN-GSA-MW-12	417.10	397.82	398.40	397.12	395.67	395.80	394.76	397.69	396.81	397.92	396.92
GN-GSA-MW-13	422.74	399.60	400.87	398.76	395.49	395.93	393.46	399.56	397.83	400.36	397.79
GN-GSA-MW-14S	424.06	--	--	--	400.16	398.80	397.63	401.59	400.86	406.18	400.84
GN-GSA-MW-15	426.19	--	--	--	402.95	401.21	399.07	407.15	404.90	414.83	404.61

Well Name	Top of Casing Elevation	Groundwater Elevation (ft. AMSL)									
		1/9/2018	4/16/2018	10/1/2018	5/20/2019	9/3/2019	2/11/2020	9/8/2020	4/12/2021	10/4/2021	4/11/2022
GN-GSA-MW-1	426.73	400.03	398.84	395.23	398.50	394.93	402.13	395.97	400.84	398.49	401.02
GN-GSA-MW-2	421.19	399.14	401.37	397.59	400.52	397.66	410.56	398.01	404.97	400.61	408.72
GN-GSA-MW-3	425.30	402.09	405.13	399.85	405.62	400.51	410.32	401.64	409.03	404.55	413.82
GN-GSA-PZ-4	427.71	--	--	--	414.22	410.95	424.34	411.95	421.49	414.04	423.62
GN-GSA-MW-5	429.49	400.45	399.53	396.02	399.55	396.04	403.27	397.52	402.00	399.23	402.26
GN-GSA-MW-6	427.64	399.80	398.84	395.94	398.84	395.88	401.96	397.27	400.92	398.72	400.98
GN-GSA-MW-7	423.79	398.17	396.93	394.89	397.16	395.37	399.91	396.37	398.23	397.22	398.05
GN-GSA-MW-8	417.58	397.18	396.07	394.08	396.10	395.62	401.36	395.70	397.12	396.26	397.05
GN-GSA-MW-9	417.68	399.12	396.53	394.25	396.61	395.39	402.97	395.82	399.68	396.74	399.34
GN-GSA-MW-10	418.04	397.39	396.24	394.02	396.26	395.37	400.76	395.74	397.34	396.61	397.32
GN-GSA-MW-11	417.69	397.13	396.09	394.39	396.01	395.34	400.66	395.47	396.78	397.48	396.87
GN-GSA-MW-12	417.10	398.35	396.87	394.95	397.04	395.30	400.44	395.90	398.44	397.19	398.49
GN-GSA-MW-13	422.74	400.73	398.52	394.78	398.11	394.36	402.74	395.55	400.46	398.26	400.50
GN-GSA-MW-14S	424.06	400.00	402.34	398.14	402.39	398.44	411.16	399.33	405.73	401.55	410.48
GN-GSA-MW-15	426.19	406.76	407.66	400.17	406.92	400.43	418.13	402.03	414.67	406.04	417.18

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

Appendix C

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 Gypsum Storage Area

2022 Compliance Event 1

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

Field quality control procedures were performed as follows:

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

Water Level Record/Well Inspection
Groundwater
APC General Testing Laboratory
General Service Complex Building 8

Submit

Date	04/11/2022	Weather	Cloudy 65
Location	Gaston Gypsum		
Collector	Dallas Gentry		

			In Good Condition					
Well	Time	Water Level (ft)	Locks	Bollards	Pad	Protective Casing	Name Plate	Comment
MW-1	1345	25.71	✔	✔	✔	✔	✔	Collected by TJD
MW-2	1337	12.47	✔	✔	✔	✔	✔	Well pad covered in ants
MW-3	1330	11.48	✔	✔	✔	✔	✔	
MW-4	1325	4.09		✔	✔	✔	✔	Water Level Only, lock holder broken
MW-5	1315	27.23	✔	✔	✔	✔	✔	Collected by TJD
MW-6	1319	26.66	✔	✔	✔	✔	✔	Collected by TJD
MW-7	1322	25.74	✔	✔	✔	✔	✔	Collected by TJD
MW-8	1324	20.53	✔	✔	✔	✔	✔	Collected by TJD
MW-9	1331	18.34	✔	✔	✔	✔	✔	Collected by TJD
MW-10	1335	20.72	✔	✔	✔	✔	✔	Collected by TJD
MW-11	1337	20.82	✔	✔	✔	✔	✔	Collected by TJD
MW-12	1340	18.61	✔	✔	✔	✔	✔	Collected by TJD
MW-13	1343	22.24	✔	✔	✔	✔	✔	Collected by TJD
MW-14S	1332	13.58	✔	✔	✔	✔	✔	
MW-15	1328	9.01	✔	✔	✔	✔	✔	
GS2-1	1340	8.03	✔	✔	✔	✔		No name plate
GS2-4	1344	12.32	✔	✔	✔	✔		No name plate

Alabama Power Company
Plant Gaston Gypsum Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-3	Conductivity	4/12/2022 15:33	235.67	uS/cm
GN-GSA-MW-3	DO	4/12/2022 15:33	1.73	mg/L
GN-GSA-MW-3	Depth to Water Detail	4/12/2022 15:33	17.31	ft
GN-GSA-MW-3	Oxidation Reduction Potention	4/12/2022 15:33	139.9	mv
GN-GSA-MW-3	pH	4/12/2022 15:33	5.45	SU
GN-GSA-MW-3	Temperature	4/12/2022 15:33	20.91	C
GN-GSA-MW-3	Turbidity	4/12/2022 15:33	1.08	NTU
GN-GSA-MW-3	Conductivity	4/12/2022 15:38	241.1	uS/cm
GN-GSA-MW-3	DO	4/12/2022 15:38	1.72	mg/L
GN-GSA-MW-3	Depth to Water Detail	4/12/2022 15:38	17.53	ft
GN-GSA-MW-3	Oxidation Reduction Potention	4/12/2022 15:38	135.13	mv
GN-GSA-MW-3	pH	4/12/2022 15:38	5.49	SU
GN-GSA-MW-3	Temperature	4/12/2022 15:38	20.91	C
GN-GSA-MW-3	Turbidity	4/12/2022 15:38	1.55	NTU
GN-GSA-MW-3	Conductivity	4/12/2022 15:43	246.25	uS/cm
GN-GSA-MW-3	DO	4/12/2022 15:43	1.73	mg/L
GN-GSA-MW-3	Depth to Water Detail	4/12/2022 15:43	17.66	ft
GN-GSA-MW-3	Oxidation Reduction Potention	4/12/2022 15:43	133.68	mv
GN-GSA-MW-3	pH	4/12/2022 15:43	5.53	SU
GN-GSA-MW-3	Temperature	4/12/2022 15:43	20.93	C
GN-GSA-MW-3	Turbidity	4/12/2022 15:43	1.21	NTU
GN-GSA-MW-3	Conductivity	4/12/2022 15:48	250.86	uS/cm
GN-GSA-MW-3	DO	4/12/2022 15:48	1.75	mg/L
GN-GSA-MW-3	Depth to Water Detail	4/12/2022 15:48	17.78	ft
GN-GSA-MW-3	Oxidation Reduction Potention	4/12/2022 15:48	132.02	mv
GN-GSA-MW-3	pH	4/12/2022 15:48	5.57	SU
GN-GSA-MW-3	Sulfide	4/12/2022 15:48	0	mg/L
GN-GSA-MW-3	Temperature	4/12/2022 15:48	20.83	C
GN-GSA-MW-3	Turbidity	4/12/2022 15:48	1.12	NTU

Alabama Power Company
Plant Gaston Gypsum Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-5	Conductivity	4/12/2022 9:16	607.21	uS/cm
GN-GSA-MW-5	DO	4/12/2022 9:16	0.79	mg/L
GN-GSA-MW-5	Depth to Water Detail	4/12/2022 9:16	27.55	ft
GN-GSA-MW-5	Oxidation Reduction Potention	4/12/2022 9:16	-29.13	mv
GN-GSA-MW-5	pH	4/12/2022 9:16	6.37	SU
GN-GSA-MW-5	Temperature	4/12/2022 9:16	25.29	C
GN-GSA-MW-5	Turbidity	4/12/2022 9:16	2	NTU
GN-GSA-MW-5	Conductivity	4/12/2022 9:21	607.54	uS/cm
GN-GSA-MW-5	DO	4/12/2022 9:21	0.77	mg/L
GN-GSA-MW-5	Depth to Water Detail	4/12/2022 9:21	27.55	ft
GN-GSA-MW-5	Oxidation Reduction Potention	4/12/2022 9:21	-23.07	mv
GN-GSA-MW-5	pH	4/12/2022 9:21	6.36	SU
GN-GSA-MW-5	Temperature	4/12/2022 9:21	25.33	C
GN-GSA-MW-5	Turbidity	4/12/2022 9:21	2.67	NTU
GN-GSA-MW-5	Conductivity	4/12/2022 9:26	607.99	uS/cm
GN-GSA-MW-5	DO	4/12/2022 9:26	0.67	mg/L
GN-GSA-MW-5	Depth to Water Detail	4/12/2022 9:26	27.55	ft
GN-GSA-MW-5	Oxidation Reduction Potention	4/12/2022 9:26	-12.75	mv
GN-GSA-MW-5	pH	4/12/2022 9:26	6.25	SU
GN-GSA-MW-5	Temperature	4/12/2022 9:26	25.39	C
GN-GSA-MW-5	Turbidity	4/12/2022 9:26	1.99	NTU
GN-GSA-MW-5	Conductivity	4/12/2022 9:31	599.71	uS/cm
GN-GSA-MW-5	DO	4/12/2022 9:31	0.66	mg/L
GN-GSA-MW-5	Depth to Water Detail	4/12/2022 9:31	27.55	ft
GN-GSA-MW-5	Oxidation Reduction Potention	4/12/2022 9:31	-13.09	mv
GN-GSA-MW-5	pH	4/12/2022 9:31	6.32	SU
GN-GSA-MW-5	Sulfide	4/12/2022 9:31	0	mg/L
GN-GSA-MW-5	Temperature	4/12/2022 9:31	25.39	C
GN-GSA-MW-5	Turbidity	4/12/2022 9:31	1.24	NTU

Alabama Power Company
Plant Gaston Gypsum Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-6	Conductivity	4/12/2022 10:07	32.41	uS/cm
GN-GSA-MW-6	DO	4/12/2022 10:07	1.41	mg/L
GN-GSA-MW-6	Depth to Water Detail	4/12/2022 10:07	27.65	ft
GN-GSA-MW-6	Oxidation Reduction Potention	4/12/2022 10:07	285.23	mv
GN-GSA-MW-6	pH	4/12/2022 10:07	4.35	SU
GN-GSA-MW-6	Temperature	4/12/2022 10:07	26.82	C
GN-GSA-MW-6	Turbidity	4/12/2022 10:07	2.6	NTU
GN-GSA-MW-6	Conductivity	4/12/2022 10:12	32.01	uS/cm
GN-GSA-MW-6	DO	4/12/2022 10:12	1	mg/L
GN-GSA-MW-6	Depth to Water Detail	4/12/2022 10:12	27.73	ft
GN-GSA-MW-6	Oxidation Reduction Potention	4/12/2022 10:12	305.04	mv
GN-GSA-MW-6	pH	4/12/2022 10:12	4.45	SU
GN-GSA-MW-6	Temperature	4/12/2022 10:12	26.91	C
GN-GSA-MW-6	Turbidity	4/12/2022 10:12	2.6	NTU
GN-GSA-MW-6	Conductivity	4/12/2022 10:17	31.79	uS/cm
GN-GSA-MW-6	DO	4/12/2022 10:17	0.82	mg/L
GN-GSA-MW-6	Depth to Water Detail	4/12/2022 10:17	27.74	ft
GN-GSA-MW-6	Oxidation Reduction Potention	4/12/2022 10:17	320.7	mv
GN-GSA-MW-6	pH	4/12/2022 10:17	4.5	SU
GN-GSA-MW-6	Temperature	4/12/2022 10:17	26.87	C
GN-GSA-MW-6	Turbidity	4/12/2022 10:17	1.45	NTU
GN-GSA-MW-6	Conductivity	4/12/2022 10:22	31.87	uS/cm
GN-GSA-MW-6	DO	4/12/2022 10:22	0.91	mg/L
GN-GSA-MW-6	Depth to Water Detail	4/12/2022 10:22	27.76	ft
GN-GSA-MW-6	Oxidation Reduction Potention	4/12/2022 10:22	347.74	mv
GN-GSA-MW-6	pH	4/12/2022 10:22	4.27	SU
GN-GSA-MW-6	Temperature	4/12/2022 10:22	26.96	C
GN-GSA-MW-6	Turbidity	4/12/2022 10:22	2.18	NTU
GN-GSA-MW-6	Conductivity	4/12/2022 10:27	31.62	uS/cm
GN-GSA-MW-6	DO	4/12/2022 10:27	0.75	mg/L
GN-GSA-MW-6	Depth to Water Detail	4/12/2022 10:27	27.78	ft
GN-GSA-MW-6	Oxidation Reduction Potention	4/12/2022 10:27	347.55	mv
GN-GSA-MW-6	pH	4/12/2022 10:27	4.44	SU
GN-GSA-MW-6	Temperature	4/12/2022 10:27	26.89	C
GN-GSA-MW-6	Turbidity	4/12/2022 10:27	2.5	NTU
GN-GSA-MW-6	Conductivity	4/12/2022 10:30	32.48	uS/cm
GN-GSA-MW-6	DO	4/12/2022 10:30	1.14	mg/L
GN-GSA-MW-6	Depth to Water Detail	4/12/2022 10:30	27.78	ft
GN-GSA-MW-6	Oxidation Reduction Potention	4/12/2022 10:30	366.58	mv
GN-GSA-MW-6	pH	4/12/2022 10:30	4.44	SU
GN-GSA-MW-6	Temperature	4/12/2022 10:30	26.97	C
GN-GSA-MW-6	Turbidity	4/12/2022 10:30	0.84	NTU
GN-GSA-MW-6	Conductivity	4/12/2022 10:35	32.5	uS/cm
GN-GSA-MW-6	DO	4/12/2022 10:35	0.68	mg/L
GN-GSA-MW-6	Depth to Water Detail	4/12/2022 10:35	27.78	ft
GN-GSA-MW-6	Oxidation Reduction Potention	4/12/2022 10:35	358.7	mv
GN-GSA-MW-6	pH	4/12/2022 10:35	4.52	SU
GN-GSA-MW-6	Temperature	4/12/2022 10:35	26.87	C

Alabama Power Company
Plant Gaston Gypsum Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-6	Turbidity	4/12/2022 10:35	2.04	NTU
GN-GSA-MW-6	Conductivity	4/12/2022 10:40	32.44	uS/cm
GN-GSA-MW-6	DO	4/12/2022 10:40	0.7	mg/L
GN-GSA-MW-6	Depth to Water Detail	4/12/2022 10:40	27.78	ft
GN-GSA-MW-6	Oxidation Reduction Potention	4/12/2022 10:40	374.76	mv
GN-GSA-MW-6	pH	4/12/2022 10:40	4.17	SU
GN-GSA-MW-6	Temperature	4/12/2022 10:40	27	C
GN-GSA-MW-6	Turbidity	4/12/2022 10:40	2.8	NTU
GN-GSA-MW-6	Conductivity	4/12/2022 10:45	32.6	uS/cm
GN-GSA-MW-6	DO	4/12/2022 10:45	0.63	mg/L
GN-GSA-MW-6	Depth to Water Detail	4/12/2022 10:45	27.78	ft
GN-GSA-MW-6	Oxidation Reduction Potention	4/12/2022 10:45	372.82	mv
GN-GSA-MW-6	pH	4/12/2022 10:45	4.4	SU
GN-GSA-MW-6	Temperature	4/12/2022 10:45	27.03	C
GN-GSA-MW-6	Turbidity	4/12/2022 10:45	1.59	NTU
GN-GSA-MW-6	Conductivity	4/12/2022 10:46	32.31	uS/cm
GN-GSA-MW-6	DO	4/12/2022 10:46	0.68	mg/L
GN-GSA-MW-6	Depth to Water Detail	4/12/2022 10:46	27.78	ft
GN-GSA-MW-6	Oxidation Reduction Potention	4/12/2022 10:46	366.92	mv
GN-GSA-MW-6	pH	4/12/2022 10:46	4.5	SU
GN-GSA-MW-6	Temperature	4/12/2022 10:46	27.07	C
GN-GSA-MW-6	Turbidity	4/12/2022 10:46	1.04	NTU
GN-GSA-MW-6	Conductivity	4/12/2022 10:51	32.51	uS/cm
GN-GSA-MW-6	DO	4/12/2022 10:51	0.71	mg/L
GN-GSA-MW-6	Depth to Water Detail	4/12/2022 10:51	27.78	ft
GN-GSA-MW-6	Oxidation Reduction Potention	4/12/2022 10:51	378.8	mv
GN-GSA-MW-6	pH	4/12/2022 10:51	4.35	SU
GN-GSA-MW-6	Temperature	4/12/2022 10:51	27.13	C
GN-GSA-MW-6	Turbidity	4/12/2022 10:51	1.15	NTU
GN-GSA-MW-6	Conductivity	4/12/2022 10:56	29.05	uS/cm
GN-GSA-MW-6	DO	4/12/2022 10:56	0.69	mg/L
GN-GSA-MW-6	Depth to Water Detail	4/12/2022 10:56	27.78	ft
GN-GSA-MW-6	Oxidation Reduction Potention	4/12/2022 10:56	372.46	mv
GN-GSA-MW-6	pH	4/12/2022 10:56	4.49	SU
GN-GSA-MW-6	Temperature	4/12/2022 10:56	27.09	C
GN-GSA-MW-6	Turbidity	4/12/2022 10:56	1.35	NTU
GN-GSA-MW-6	Conductivity	4/12/2022 11:01	32.39	uS/cm
GN-GSA-MW-6	DO	4/12/2022 11:01	0.66	mg/L
GN-GSA-MW-6	Depth to Water Detail	4/12/2022 11:01	27.78	ft
GN-GSA-MW-6	Oxidation Reduction Potention	4/12/2022 11:01	370.05	mv
GN-GSA-MW-6	pH	4/12/2022 11:01	4.55	SU
GN-GSA-MW-6	Temperature	4/12/2022 11:01	27.12	C
GN-GSA-MW-6	Turbidity	4/12/2022 11:01	2.25	NTU
GN-GSA-MW-6	Conductivity	4/12/2022 11:06	32.64	uS/cm
GN-GSA-MW-6	DO	4/12/2022 11:06	0.69	mg/L
GN-GSA-MW-6	Depth to Water Detail	4/12/2022 11:06	27.78	ft
GN-GSA-MW-6	Oxidation Reduction Potention	4/12/2022 11:06	370.34	mv
GN-GSA-MW-6	pH	4/12/2022 11:06	4.57	SU
GN-GSA-MW-6	Temperature	4/12/2022 11:06	27.06	C

Alabama Power Company
Plant Gaston Gypsum Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-6	Turbidity	4/12/2022 11:06	2.1	NTU
GN-GSA-MW-6	Conductivity	4/12/2022 11:11	32.7	uS/cm
GN-GSA-MW-6	DO	4/12/2022 11:11	0.7	mg/L
GN-GSA-MW-6	Depth to Water Detail	4/12/2022 11:11	27.78	ft
GN-GSA-MW-6	Oxidation Reduction Potention	4/12/2022 11:11	381.78	mv
GN-GSA-MW-6	pH	4/12/2022 11:11	4.38	SU
GN-GSA-MW-6	Sulfide	4/12/2022 11:11	0	mg/L
GN-GSA-MW-6	Temperature	4/12/2022 11:11	27.16	C
GN-GSA-MW-6	Turbidity	4/12/2022 11:11	1.39	NTU

Alabama Power Company
Plant Gaston Gypsum Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-7	Conductivity	4/12/2022 11:51	401.36	uS/cm
GN-GSA-MW-7	DO	4/12/2022 11:51	2.77	mg/L
GN-GSA-MW-7	Depth to Water Detail	4/12/2022 11:51	28.06	ft
GN-GSA-MW-7	Oxidation Reduction Potention	4/12/2022 11:51	527.61	mv
GN-GSA-MW-7	pH	4/12/2022 11:51	6.88	SU
GN-GSA-MW-7	Temperature	4/12/2022 11:51	28.82	C
GN-GSA-MW-7	Turbidity	4/12/2022 11:51	1.74	NTU
GN-GSA-MW-7	Conductivity	4/12/2022 11:56	397.79	uS/cm
GN-GSA-MW-7	DO	4/12/2022 11:56	3.07	mg/L
GN-GSA-MW-7	Depth to Water Detail	4/12/2022 11:56	28.26	ft
GN-GSA-MW-7	Oxidation Reduction Potention	4/12/2022 11:56	531.24	mv
GN-GSA-MW-7	pH	4/12/2022 11:56	6.91	SU
GN-GSA-MW-7	Temperature	4/12/2022 11:56	28.98	C
GN-GSA-MW-7	Turbidity	4/12/2022 11:56	1.56	NTU
GN-GSA-MW-7	Conductivity	4/12/2022 12:01	396.5	uS/cm
GN-GSA-MW-7	DO	4/12/2022 12:01	2.89	mg/L
GN-GSA-MW-7	Depth to Water Detail	4/12/2022 12:01	28.53	ft
GN-GSA-MW-7	Oxidation Reduction Potention	4/12/2022 12:01	533.41	mv
GN-GSA-MW-7	pH	4/12/2022 12:01	6.89	SU
GN-GSA-MW-7	Temperature	4/12/2022 12:01	28.8	C
GN-GSA-MW-7	Turbidity	4/12/2022 12:01	1.11	NTU
GN-GSA-MW-7	Conductivity	4/12/2022 12:06	393.77	uS/cm
GN-GSA-MW-7	DO	4/12/2022 12:06	2.68	mg/L
GN-GSA-MW-7	Depth to Water Detail	4/12/2022 12:06	28.76	ft
GN-GSA-MW-7	Oxidation Reduction Potention	4/12/2022 12:06	532.26	mv
GN-GSA-MW-7	pH	4/12/2022 12:06	6.88	SU
GN-GSA-MW-7	Temperature	4/12/2022 12:06	28.57	C
GN-GSA-MW-7	Turbidity	4/12/2022 12:06	1.12	NTU
GN-GSA-MW-7	Conductivity	4/12/2022 12:11	392.18	uS/cm
GN-GSA-MW-7	DO	4/12/2022 12:11	2.44	mg/L
GN-GSA-MW-7	Depth to Water Detail	4/12/2022 12:11	28.81	ft
GN-GSA-MW-7	Oxidation Reduction Potention	4/12/2022 12:11	526.58	mv
GN-GSA-MW-7	pH	4/12/2022 12:11	6.85	SU
GN-GSA-MW-7	Temperature	4/12/2022 12:11	28.87	C
GN-GSA-MW-7	Turbidity	4/12/2022 12:11	1.3	NTU
GN-GSA-MW-7	Conductivity	4/12/2022 12:16	392.1	uS/cm
GN-GSA-MW-7	DO	4/12/2022 12:16	2.12	mg/L
GN-GSA-MW-7	Depth to Water Detail	4/12/2022 12:16	28.88	ft
GN-GSA-MW-7	Oxidation Reduction Potention	4/12/2022 12:16	524.9	mv
GN-GSA-MW-7	pH	4/12/2022 12:16	6.81	SU
GN-GSA-MW-7	Temperature	4/12/2022 12:16	29.29	C
GN-GSA-MW-7	Turbidity	4/12/2022 12:16	1.19	NTU
GN-GSA-MW-7	Conductivity	4/12/2022 12:21	389.86	uS/cm
GN-GSA-MW-7	DO	4/12/2022 12:21	1.91	mg/L
GN-GSA-MW-7	Depth to Water Detail	4/12/2022 12:21	28.97	ft
GN-GSA-MW-7	Oxidation Reduction Potention	4/12/2022 12:21	511.75	mv
GN-GSA-MW-7	pH	4/12/2022 12:21	6.79	SU
GN-GSA-MW-7	Temperature	4/12/2022 12:21	29.15	C
GN-GSA-MW-7	Turbidity	4/12/2022 12:21	1.03	NTU
GN-GSA-MW-7	Conductivity	4/12/2022 12:26	385.65	uS/cm
GN-GSA-MW-7	DO	4/12/2022 12:26	1.76	mg/L
GN-GSA-MW-7	Depth to Water Detail	4/12/2022 12:26	29.04	ft
GN-GSA-MW-7	Oxidation Reduction Potention	4/12/2022 12:26	494.99	mv

Alabama Power Company
Plant Gaston Gypsum Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-7	pH	4/12/2022 12:26	6.79	SU
GN-GSA-MW-7	Temperature	4/12/2022 12:26	29.14	C
GN-GSA-MW-7	Turbidity	4/12/2022 12:26	1.12	NTU
GN-GSA-MW-7	Conductivity	4/12/2022 12:31	383.76	uS/cm
GN-GSA-MW-7	DO	4/12/2022 12:31	1.62	mg/L
GN-GSA-MW-7	Depth to Water Detail	4/12/2022 12:31	29.08	ft
GN-GSA-MW-7	Oxidation Reduction Potention	4/12/2022 12:31	467.07	mv
GN-GSA-MW-7	pH	4/12/2022 12:31	6.77	SU
GN-GSA-MW-7	Temperature	4/12/2022 12:31	29.3	C
GN-GSA-MW-7	Turbidity	4/12/2022 12:31	1	NTU
GN-GSA-MW-7	Conductivity	4/12/2022 12:36	379.78	uS/cm
GN-GSA-MW-7	DO	4/12/2022 12:36	1.49	mg/L
GN-GSA-MW-7	Depth to Water Detail	4/12/2022 12:36	29.09	ft
GN-GSA-MW-7	Oxidation Reduction Potention	4/12/2022 12:36	406.28	mv
GN-GSA-MW-7	pH	4/12/2022 12:36	6.75	SU
GN-GSA-MW-7	Temperature	4/12/2022 12:36	29.28	C
GN-GSA-MW-7	Turbidity	4/12/2022 12:36	0.89	NTU
GN-GSA-MW-7	Conductivity	4/12/2022 12:43	381.44	uS/cm
GN-GSA-MW-7	DO	4/12/2022 12:43	1.52	mg/L
GN-GSA-MW-7	Depth to Water Detail	4/12/2022 12:43	29.09	ft
GN-GSA-MW-7	Oxidation Reduction Potention	4/12/2022 12:43	268.91	mv
GN-GSA-MW-7	pH	4/12/2022 12:43	6.73	SU
GN-GSA-MW-7	Temperature	4/12/2022 12:43	29.88	C
GN-GSA-MW-7	Turbidity	4/12/2022 12:43	1.13	NTU
GN-GSA-MW-7	Conductivity	4/12/2022 12:48	382.74	uS/cm
GN-GSA-MW-7	DO	4/12/2022 12:48	1.4	mg/L
GN-GSA-MW-7	Depth to Water Detail	4/12/2022 12:48	29.09	ft
GN-GSA-MW-7	Oxidation Reduction Potention	4/12/2022 12:48	194.39	mv
GN-GSA-MW-7	pH	4/12/2022 12:48	6.73	SU
GN-GSA-MW-7	Temperature	4/12/2022 12:48	30.5	C
GN-GSA-MW-7	Turbidity	4/12/2022 12:48	1.25	NTU
GN-GSA-MW-7	Sulfide	4/12/2022 12:52	0	mg/L
GN-GSA-MW-7	Conductivity	4/12/2022 12:53	379.98	uS/cm
GN-GSA-MW-7	DO	4/12/2022 12:53	1.36	mg/L
GN-GSA-MW-7	Depth to Water Detail	4/12/2022 12:53	29.09	ft
GN-GSA-MW-7	Oxidation Reduction Potention	4/12/2022 12:53	155.76	mv
GN-GSA-MW-7	pH	4/12/2022 12:53	6.73	SU
GN-GSA-MW-7	Temperature	4/12/2022 12:53	30.35	C
GN-GSA-MW-7	Turbidity	4/12/2022 12:53	1.05	NTU

Alabama Power Company
Plant Gaston Gypsum Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-8	Conductivity	4/12/2022 14:04	299.08	uS/cm
GN-GSA-MW-8	DO	4/12/2022 14:04	1.18	mg/L
GN-GSA-MW-8	Depth to Water Detail	4/12/2022 14:04	21.64	ft
GN-GSA-MW-8	Oxidation Reduction Potention	4/12/2022 14:04	-66.32	mv
GN-GSA-MW-8	pH	4/12/2022 14:04	7.42	SU
GN-GSA-MW-8	Temperature	4/12/2022 14:04	28.34	C
GN-GSA-MW-8	Turbidity	4/12/2022 14:04	14.1	NTU
GN-GSA-MW-8	Conductivity	4/12/2022 14:09	298.17	uS/cm
GN-GSA-MW-8	DO	4/12/2022 14:09	1.12	mg/L
GN-GSA-MW-8	Depth to Water Detail	4/12/2022 14:09	21.81	ft
GN-GSA-MW-8	Oxidation Reduction Potention	4/12/2022 14:09	-82.07	mv
GN-GSA-MW-8	pH	4/12/2022 14:09	7.41	SU
GN-GSA-MW-8	Temperature	4/12/2022 14:09	28.3	C
GN-GSA-MW-8	Turbidity	4/12/2022 14:09	10.86	NTU
GN-GSA-MW-8	Conductivity	4/12/2022 14:14	297.28	uS/cm
GN-GSA-MW-8	DO	4/12/2022 14:14	1.09	mg/L
GN-GSA-MW-8	Depth to Water Detail	4/12/2022 14:14	22.09	ft
GN-GSA-MW-8	Oxidation Reduction Potention	4/12/2022 14:14	-87.2	mv
GN-GSA-MW-8	pH	4/12/2022 14:14	7.35	SU
GN-GSA-MW-8	Temperature	4/12/2022 14:14	28.28	C
GN-GSA-MW-8	Turbidity	4/12/2022 14:14	5.96	NTU
GN-GSA-MW-8	Conductivity	4/12/2022 14:19	295.25	uS/cm
GN-GSA-MW-8	DO	4/12/2022 14:19	1.11	mg/L
GN-GSA-MW-8	Depth to Water Detail	4/12/2022 14:19	22.18	ft
GN-GSA-MW-8	Oxidation Reduction Potention	4/12/2022 14:19	-85.31	mv
GN-GSA-MW-8	pH	4/12/2022 14:19	7.29	SU
GN-GSA-MW-8	Temperature	4/12/2022 14:19	28.17	C
GN-GSA-MW-8	Turbidity	4/12/2022 14:19	4.38	NTU
GN-GSA-MW-8	Conductivity	4/12/2022 14:24	294.59	uS/cm
GN-GSA-MW-8	DO	4/12/2022 14:24	1.13	mg/L
GN-GSA-MW-8	Depth to Water Detail	4/12/2022 14:24	22.29	ft
GN-GSA-MW-8	Oxidation Reduction Potention	4/12/2022 14:24	-83.82	mv
GN-GSA-MW-8	pH	4/12/2022 14:24	7.22	SU
GN-GSA-MW-8	Sulfide	4/12/2022 14:24	0	mg/L
GN-GSA-MW-8	Temperature	4/12/2022 14:24	28.08	C
GN-GSA-MW-8	Turbidity	4/12/2022 14:24	2.91	NTU

Alabama Power Company
Plant Gaston Gypsum Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-9	Conductivity	4/12/2022 15:12	145.35	uS/cm
GN-GSA-MW-9	DO	4/12/2022 15:12	0.72	mg/L
GN-GSA-MW-9	Depth to Water Detail	4/12/2022 15:12	22.84	ft
GN-GSA-MW-9	Oxidation Reduction Potention	4/12/2022 15:12	144.75	mv
GN-GSA-MW-9	pH	4/12/2022 15:12	6.07	SU
GN-GSA-MW-9	Temperature	4/12/2022 15:12	28.18	C
GN-GSA-MW-9	Turbidity	4/12/2022 15:12	2.84	NTU
GN-GSA-MW-9	Conductivity	4/12/2022 15:17	170.45	uS/cm
GN-GSA-MW-9	DO	4/12/2022 15:17	0.81	mg/L
GN-GSA-MW-9	Depth to Water Detail	4/12/2022 15:17	23.61	ft
GN-GSA-MW-9	Oxidation Reduction Potention	4/12/2022 15:17	157.46	mv
GN-GSA-MW-9	pH	4/12/2022 15:17	6.1	SU
GN-GSA-MW-9	Temperature	4/12/2022 15:17	28.41	C
GN-GSA-MW-9	Turbidity	4/12/2022 15:17	3.3	NTU
GN-GSA-MW-9	Conductivity	4/12/2022 15:22	201.21	uS/cm
GN-GSA-MW-9	DO	4/12/2022 15:22	0.9	mg/L
GN-GSA-MW-9	Depth to Water Detail	4/12/2022 15:22	24.11	ft
GN-GSA-MW-9	Oxidation Reduction Potention	4/12/2022 15:22	154.8	mv
GN-GSA-MW-9	pH	4/12/2022 15:22	6.3	SU
GN-GSA-MW-9	Temperature	4/12/2022 15:22	27.97	C
GN-GSA-MW-9	Turbidity	4/12/2022 15:22	4.78	NTU
GN-GSA-MW-9	Conductivity	4/12/2022 15:27	219.85	uS/cm
GN-GSA-MW-9	DO	4/12/2022 15:27	0.89	mg/L
GN-GSA-MW-9	Depth to Water Detail	4/12/2022 15:27	24.39	ft
GN-GSA-MW-9	Oxidation Reduction Potention	4/12/2022 15:27	154.81	mv
GN-GSA-MW-9	pH	4/12/2022 15:27	6.33	SU
GN-GSA-MW-9	Temperature	4/12/2022 15:27	27.99	C
GN-GSA-MW-9	Turbidity	4/12/2022 15:27	3.03	NTU
GN-GSA-MW-9	Conductivity	4/12/2022 15:32	231.64	uS/cm
GN-GSA-MW-9	DO	4/12/2022 15:32	0.88	mg/L
GN-GSA-MW-9	Depth to Water Detail	4/12/2022 15:32	24.54	ft
GN-GSA-MW-9	Oxidation Reduction Potention	4/12/2022 15:32	157.93	mv
GN-GSA-MW-9	pH	4/12/2022 15:32	6.29	SU
GN-GSA-MW-9	Temperature	4/12/2022 15:32	28.07	C
GN-GSA-MW-9	Turbidity	4/12/2022 15:32	3.2	NTU
GN-GSA-MW-9	Conductivity	4/12/2022 15:37	238.59	uS/cm
GN-GSA-MW-9	DO	4/12/2022 15:37	0.86	mg/L
GN-GSA-MW-9	Depth to Water Detail	4/12/2022 15:37	24.66	ft
GN-GSA-MW-9	Oxidation Reduction Potention	4/12/2022 15:37	160.43	mv
GN-GSA-MW-9	pH	4/12/2022 15:37	6.26	SU
GN-GSA-MW-9	Temperature	4/12/2022 15:37	28.15	C
GN-GSA-MW-9	Turbidity	4/12/2022 15:37	2.71	NTU
GN-GSA-MW-9	Conductivity	4/12/2022 15:42	240.7	uS/cm
GN-GSA-MW-9	DO	4/12/2022 15:42	0.82	mg/L
GN-GSA-MW-9	Depth to Water Detail	4/12/2022 15:42	24.77	ft
GN-GSA-MW-9	Oxidation Reduction Potention	4/12/2022 15:42	162.55	mv
GN-GSA-MW-9	pH	4/12/2022 15:42	6.22	SU
GN-GSA-MW-9	Sulfide	4/12/2022 15:42	0	mg/L
GN-GSA-MW-9	Temperature	4/12/2022 15:42	28.12	C
GN-GSA-MW-9	Turbidity	4/12/2022 15:42	4.95	NTU

Alabama Power Company
Plant Gaston Gypsum Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-10	Conductivity	4/13/2022 9:46	454.81	uS/cm
GN-GSA-MW-10	DO	4/13/2022 9:46	0.29	mg/L
GN-GSA-MW-10	Depth to Water Detail	4/13/2022 9:46	21.98	ft
GN-GSA-MW-10	Oxidation Reduction Potention	4/13/2022 9:46	189.11	mv
GN-GSA-MW-10	pH	4/13/2022 9:46	6.86	SU
GN-GSA-MW-10	Temperature	4/13/2022 9:46	30.21	C
GN-GSA-MW-10	Turbidity	4/13/2022 9:46	0.83	NTU
GN-GSA-MW-10	Conductivity	4/13/2022 9:51	453.91	uS/cm
GN-GSA-MW-10	DO	4/13/2022 9:51	0.23	mg/L
GN-GSA-MW-10	Depth to Water Detail	4/13/2022 9:51	21.98	ft
GN-GSA-MW-10	Oxidation Reduction Potention	4/13/2022 9:51	185.39	mv
GN-GSA-MW-10	pH	4/13/2022 9:51	6.86	SU
GN-GSA-MW-10	Temperature	4/13/2022 9:51	30.24	C
GN-GSA-MW-10	Turbidity	4/13/2022 9:51	0.73	NTU
GN-GSA-MW-10	Conductivity	4/13/2022 9:56	452.3	uS/cm
GN-GSA-MW-10	DO	4/13/2022 9:56	0.21	mg/L
GN-GSA-MW-10	Depth to Water Detail	4/13/2022 9:56	21.98	ft
GN-GSA-MW-10	Oxidation Reduction Potention	4/13/2022 9:56	187.4	mv
GN-GSA-MW-10	pH	4/13/2022 9:56	6.77	SU
GN-GSA-MW-10	Temperature	4/13/2022 9:56	30.29	C
GN-GSA-MW-10	Turbidity	4/13/2022 9:56	0.87	NTU
GN-GSA-MW-10	Conductivity	4/13/2022 10:01	449.82	uS/cm
GN-GSA-MW-10	DO	4/13/2022 10:01	0.2	mg/L
GN-GSA-MW-10	Depth to Water Detail	4/13/2022 10:01	21.98	ft
GN-GSA-MW-10	Oxidation Reduction Potention	4/13/2022 10:01	179.51	mv
GN-GSA-MW-10	pH	4/13/2022 10:01	6.85	SU
GN-GSA-MW-10	Sulfide	4/13/2022 10:01	0	mg/L
GN-GSA-MW-10	Temperature	4/13/2022 10:01	30.23	C
GN-GSA-MW-10	Turbidity	4/13/2022 10:01	0.72	NTU

Alabama Power Company
Plant Gaston Gypsum Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-11	Conductivity	4/13/2022 11:04	163.17	uS/cm
GN-GSA-MW-11	DO	4/13/2022 11:04	1.17	mg/L
GN-GSA-MW-11	Depth to Water Detail	4/13/2022 11:04	21.36	ft
GN-GSA-MW-11	Oxidation Reduction Potention	4/13/2022 11:04	260.58	mv
GN-GSA-MW-11	pH	4/13/2022 11:04	5.57	SU
GN-GSA-MW-11	Temperature	4/13/2022 11:04	29.23	C
GN-GSA-MW-11	Turbidity	4/13/2022 11:04	0.86	NTU
GN-GSA-MW-11	Conductivity	4/13/2022 11:09	156.79	uS/cm
GN-GSA-MW-11	DO	4/13/2022 11:09	0.93	mg/L
GN-GSA-MW-11	Depth to Water Detail	4/13/2022 11:09	21.36	ft
GN-GSA-MW-11	Oxidation Reduction Potention	4/13/2022 11:09	260.14	mv
GN-GSA-MW-11	pH	4/13/2022 11:09	5.39	SU
GN-GSA-MW-11	Temperature	4/13/2022 11:09	29.11	C
GN-GSA-MW-11	Turbidity	4/13/2022 11:09	1.04	NTU
GN-GSA-MW-11	Conductivity	4/13/2022 11:14	146.4	uS/cm
GN-GSA-MW-11	DO	4/13/2022 11:14	0.69	mg/L
GN-GSA-MW-11	Depth to Water Detail	4/13/2022 11:14	21.36	ft
GN-GSA-MW-11	Oxidation Reduction Potention	4/13/2022 11:14	257.05	mv
GN-GSA-MW-11	pH	4/13/2022 11:14	5.39	SU
GN-GSA-MW-11	Temperature	4/13/2022 11:14	29.03	C
GN-GSA-MW-11	Turbidity	4/13/2022 11:14	0.83	NTU
GN-GSA-MW-11	Conductivity	4/13/2022 11:19	145.69	uS/cm
GN-GSA-MW-11	DO	4/13/2022 11:19	0.61	mg/L
GN-GSA-MW-11	Depth to Water Detail	4/13/2022 11:19	21.36	ft
GN-GSA-MW-11	Oxidation Reduction Potention	4/13/2022 11:19	262.37	mv
GN-GSA-MW-11	pH	4/13/2022 11:19	5.41	SU
GN-GSA-MW-11	Temperature	4/13/2022 11:19	29.02	C
GN-GSA-MW-11	Turbidity	4/13/2022 11:19	0.9	NTU
GN-GSA-MW-11	Conductivity	4/13/2022 11:24	143.07	uS/cm
GN-GSA-MW-11	DO	4/13/2022 11:24	0.53	mg/L
GN-GSA-MW-11	Depth to Water Detail	4/13/2022 11:24	21.36	ft
GN-GSA-MW-11	Oxidation Reduction Potention	4/13/2022 11:24	271.46	mv
GN-GSA-MW-11	pH	4/13/2022 11:24	5.41	SU
GN-GSA-MW-11	Temperature	4/13/2022 11:24	28.97	C
GN-GSA-MW-11	Turbidity	4/13/2022 11:24	0.61	NTU
GN-GSA-MW-11	Conductivity	4/13/2022 11:29	140.99	uS/cm
GN-GSA-MW-11	DO	4/13/2022 11:29	0.46	mg/L
GN-GSA-MW-11	Depth to Water Detail	4/13/2022 11:29	21.36	ft
GN-GSA-MW-11	Oxidation Reduction Potention	4/13/2022 11:29	285.42	mv
GN-GSA-MW-11	pH	4/13/2022 11:29	5.29	SU
GN-GSA-MW-11	Sulfide	4/13/2022 11:29	0	mg/L
GN-GSA-MW-11	Temperature	4/13/2022 11:29	29	C
GN-GSA-MW-11	Turbidity	4/13/2022 11:29	0.57	NTU

Alabama Power Company
Plant Gaston Gypsum Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-12	Conductivity	4/13/2022 12:05	426.06	uS/cm
GN-GSA-MW-12	DO	4/13/2022 12:05	1.39	mg/L
GN-GSA-MW-12	Depth to Water Detail	4/13/2022 12:05	18.94	ft
GN-GSA-MW-12	Oxidation Reduction Potention	4/13/2022 12:05	192.76	mv
GN-GSA-MW-12	pH	4/13/2022 12:05	6.78	SU
GN-GSA-MW-12	Temperature	4/13/2022 12:05	28.16	C
GN-GSA-MW-12	Turbidity	4/13/2022 12:05	1.58	NTU
GN-GSA-MW-12	Conductivity	4/13/2022 12:10	421.8	uS/cm
GN-GSA-MW-12	DO	4/13/2022 12:10	0.88	mg/L
GN-GSA-MW-12	Depth to Water Detail	4/13/2022 12:10	18.96	ft
GN-GSA-MW-12	Oxidation Reduction Potention	4/13/2022 12:10	184.63	mv
GN-GSA-MW-12	pH	4/13/2022 12:10	6.76	SU
GN-GSA-MW-12	Temperature	4/13/2022 12:10	28.1	C
GN-GSA-MW-12	Turbidity	4/13/2022 12:10	1.29	NTU
GN-GSA-MW-12	Conductivity	4/13/2022 12:15	418.29	uS/cm
GN-GSA-MW-12	DO	4/13/2022 12:15	0.62	mg/L
GN-GSA-MW-12	Depth to Water Detail	4/13/2022 12:15	18.96	ft
GN-GSA-MW-12	Oxidation Reduction Potention	4/13/2022 12:15	162.97	mv
GN-GSA-MW-12	pH	4/13/2022 12:15	6.75	SU
GN-GSA-MW-12	Temperature	4/13/2022 12:15	28.09	C
GN-GSA-MW-12	Turbidity	4/13/2022 12:15	0.85	NTU
GN-GSA-MW-12	Conductivity	4/13/2022 12:20	415.59	uS/cm
GN-GSA-MW-12	DO	4/13/2022 12:20	0.45	mg/L
GN-GSA-MW-12	Depth to Water Detail	4/13/2022 12:20	18.96	ft
GN-GSA-MW-12	Oxidation Reduction Potention	4/13/2022 12:20	148.05	mv
GN-GSA-MW-12	pH	4/13/2022 12:20	6.74	SU
GN-GSA-MW-12	Sulfide	4/13/2022 12:20	0	mg/L
GN-GSA-MW-12	Temperature	4/13/2022 12:20	28.15	C
GN-GSA-MW-12	Turbidity	4/13/2022 12:20	0.71	NTU

Alabama Power Company
Plant Gaston Gypsum Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-13	Conductivity	4/13/2022 10:41	465.24	uS/cm
GN-GSA-MW-13	DO	4/13/2022 10:41	1.85	mg/L
GN-GSA-MW-13	Depth to Water Detail	4/13/2022 10:41	22.52	ft
GN-GSA-MW-13	Oxidation Reduction Potention	4/13/2022 10:41	18.43	mv
GN-GSA-MW-13	pH	4/13/2022 10:41	6.75	SU
GN-GSA-MW-13	Temperature	4/13/2022 10:41	19.95	C
GN-GSA-MW-13	Turbidity	4/13/2022 10:41	0.69	NTU
GN-GSA-MW-13	Conductivity	4/13/2022 10:46	463.02	uS/cm
GN-GSA-MW-13	DO	4/13/2022 10:46	1.7	mg/L
GN-GSA-MW-13	Depth to Water Detail	4/13/2022 10:46	22.52	ft
GN-GSA-MW-13	Oxidation Reduction Potention	4/13/2022 10:46	18.2	mv
GN-GSA-MW-13	pH	4/13/2022 10:46	6.78	SU
GN-GSA-MW-13	Temperature	4/13/2022 10:46	19.9	C
GN-GSA-MW-13	Turbidity	4/13/2022 10:46	0.63	NTU
GN-GSA-MW-13	Conductivity	4/13/2022 10:51	460.39	uS/cm
GN-GSA-MW-13	DO	4/13/2022 10:51	1.68	mg/L
GN-GSA-MW-13	Depth to Water Detail	4/13/2022 10:51	22.52	ft
GN-GSA-MW-13	Oxidation Reduction Potention	4/13/2022 10:51	18.83	mv
GN-GSA-MW-13	pH	4/13/2022 10:51	6.81	SU
GN-GSA-MW-13	Temperature	4/13/2022 10:51	19.82	C
GN-GSA-MW-13	Turbidity	4/13/2022 10:51	0.65	NTU
GN-GSA-MW-13	Conductivity	4/13/2022 10:56	459.11	uS/cm
GN-GSA-MW-13	DO	4/13/2022 10:56	1.61	mg/L
GN-GSA-MW-13	Depth to Water Detail	4/13/2022 10:56	22.52	ft
GN-GSA-MW-13	Oxidation Reduction Potention	4/13/2022 10:56	18.85	mv
GN-GSA-MW-13	pH	4/13/2022 10:56	6.84	SU
GN-GSA-MW-13	Sulfide	4/13/2022 10:56	0	mg/L
GN-GSA-MW-13	Temperature	4/13/2022 10:56	19.83	C
GN-GSA-MW-13	Turbidity	4/13/2022 10:56	0.85	NTU

Alabama Power Company
Plant Gaston Gypsum Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-14S	Conductivity	4/13/2022 8:25	322.93	uS/cm
GN-GSA-MW-14S	DO	4/13/2022 8:25	3.21	mg/L
GN-GSA-MW-14S	Depth to Water Detail	4/13/2022 8:25	14.43	ft
GN-GSA-MW-14S	Oxidation Reduction Potention	4/13/2022 8:25	3.55	mv
GN-GSA-MW-14S	pH	4/13/2022 8:25	7.43	SU
GN-GSA-MW-14S	Temperature	4/13/2022 8:25	19.27	C
GN-GSA-MW-14S	Turbidity	4/13/2022 8:25	3.87	NTU
GN-GSA-MW-14S	Conductivity	4/13/2022 8:30	315.3	uS/cm
GN-GSA-MW-14S	DO	4/13/2022 8:30	3.37	mg/L
GN-GSA-MW-14S	Depth to Water Detail	4/13/2022 8:30	14.46	ft
GN-GSA-MW-14S	Oxidation Reduction Potention	4/13/2022 8:30	9.98	mv
GN-GSA-MW-14S	pH	4/13/2022 8:30	7.4	SU
GN-GSA-MW-14S	Temperature	4/13/2022 8:30	19.28	C
GN-GSA-MW-14S	Turbidity	4/13/2022 8:30	3.97	NTU
GN-GSA-MW-14S	Conductivity	4/13/2022 8:35	321.29	uS/cm
GN-GSA-MW-14S	DO	4/13/2022 8:35	3.35	mg/L
GN-GSA-MW-14S	Depth to Water Detail	4/13/2022 8:35	14.47	ft
GN-GSA-MW-14S	Oxidation Reduction Potention	4/13/2022 8:35	14.37	mv
GN-GSA-MW-14S	pH	4/13/2022 8:35	7.4	SU
GN-GSA-MW-14S	Temperature	4/13/2022 8:35	19.3	C
GN-GSA-MW-14S	Turbidity	4/13/2022 8:35	3.7	NTU
GN-GSA-MW-14S	Conductivity	4/13/2022 8:40	320.94	uS/cm
GN-GSA-MW-14S	DO	4/13/2022 8:40	3.36	mg/L
GN-GSA-MW-14S	Depth to Water Detail	4/13/2022 8:40	14.49	ft
GN-GSA-MW-14S	Oxidation Reduction Potention	4/13/2022 8:40	16.42	mv
GN-GSA-MW-14S	pH	4/13/2022 8:40	7.4	SU
GN-GSA-MW-14S	Sulfide	4/13/2022 8:40	0	mg/L
GN-GSA-MW-14S	Temperature	4/13/2022 8:40	19.31	C
GN-GSA-MW-14S	Turbidity	4/13/2022 8:40	3.8	NTU

Alabama Power Company
Plant Gaston Gypsum Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-15	Conductivity	4/12/2022 11:58	42.99	uS/cm
GN-GSA-MW-15	DO	4/12/2022 11:58	0.88	mg/L
GN-GSA-MW-15	Depth to Water Detail	4/12/2022 11:58	10.41	ft
GN-GSA-MW-15	Oxidation Reduction Potention	4/12/2022 11:58	109.56	mv
GN-GSA-MW-15	pH	4/12/2022 11:58	4.89	SU
GN-GSA-MW-15	Temperature	4/12/2022 11:58	19.94	C
GN-GSA-MW-15	Turbidity	4/12/2022 11:58	6.42	NTU
GN-GSA-MW-15	Conductivity	4/12/2022 12:03	39.08	uS/cm
GN-GSA-MW-15	DO	4/12/2022 12:03	1.73	mg/L
GN-GSA-MW-15	Depth to Water Detail	4/12/2022 12:03	10.84	ft
GN-GSA-MW-15	Oxidation Reduction Potention	4/12/2022 12:03	116.06	mv
GN-GSA-MW-15	pH	4/12/2022 12:03	4.84	SU
GN-GSA-MW-15	Temperature	4/12/2022 12:03	19.78	C
GN-GSA-MW-15	Turbidity	4/12/2022 12:03	5.71	NTU
GN-GSA-MW-15	Conductivity	4/12/2022 12:08	33.92	uS/cm
GN-GSA-MW-15	DO	4/12/2022 12:08	3.75	mg/L
GN-GSA-MW-15	Depth to Water Detail	4/12/2022 12:08	11.2	ft
GN-GSA-MW-15	Oxidation Reduction Potention	4/12/2022 12:08	120.6	mv
GN-GSA-MW-15	pH	4/12/2022 12:08	4.85	SU
GN-GSA-MW-15	Temperature	4/12/2022 12:08	19.46	C
GN-GSA-MW-15	Turbidity	4/12/2022 12:08	8.36	NTU
GN-GSA-MW-15	Conductivity	4/12/2022 12:13	32.37	uS/cm
GN-GSA-MW-15	DO	4/12/2022 12:13	4.3	mg/L
GN-GSA-MW-15	Depth to Water Detail	4/12/2022 12:13	11.43	ft
GN-GSA-MW-15	Oxidation Reduction Potention	4/12/2022 12:13	119.65	mv
GN-GSA-MW-15	pH	4/12/2022 12:13	4.94	SU
GN-GSA-MW-15	Temperature	4/12/2022 12:13	19.88	C
GN-GSA-MW-15	Turbidity	4/12/2022 12:13	12.69	NTU
GN-GSA-MW-15	Conductivity	4/12/2022 12:18	31.56	uS/cm
GN-GSA-MW-15	DO	4/12/2022 12:18	4.35	mg/L
GN-GSA-MW-15	Depth to Water Detail	4/12/2022 12:18	11.6	ft
GN-GSA-MW-15	Oxidation Reduction Potention	4/12/2022 12:18	115.39	mv
GN-GSA-MW-15	pH	4/12/2022 12:18	5.06	SU
GN-GSA-MW-15	Temperature	4/12/2022 12:18	20.1	C
GN-GSA-MW-15	Turbidity	4/12/2022 12:18	14.3	NTU
GN-GSA-MW-15	Conductivity	4/12/2022 12:23	30.77	uS/cm
GN-GSA-MW-15	DO	4/12/2022 12:23	4.25	mg/L
GN-GSA-MW-15	Depth to Water Detail	4/12/2022 12:23	11.72	ft
GN-GSA-MW-15	Oxidation Reduction Potention	4/12/2022 12:23	113.24	mv
GN-GSA-MW-15	pH	4/12/2022 12:23	5.17	SU
GN-GSA-MW-15	Temperature	4/12/2022 12:23	20.08	C
GN-GSA-MW-15	Turbidity	4/12/2022 12:23	14.6	NTU
GN-GSA-MW-15	Conductivity	4/12/2022 12:28	30.14	uS/cm
GN-GSA-MW-15	DO	4/12/2022 12:28	4.12	mg/L
GN-GSA-MW-15	Depth to Water Detail	4/12/2022 12:28	11.8	ft
GN-GSA-MW-15	Oxidation Reduction Potention	4/12/2022 12:28	121.47	mv
GN-GSA-MW-15	pH	4/12/2022 12:28	5.12	SU
GN-GSA-MW-15	Temperature	4/12/2022 12:28	19.77	C
GN-GSA-MW-15	Turbidity	4/12/2022 12:28	16.4	NTU
GN-GSA-MW-15	Conductivity	4/12/2022 12:33	29.98	uS/cm
GN-GSA-MW-15	DO	4/12/2022 12:33	3.95	mg/L
GN-GSA-MW-15	Depth to Water Detail	4/12/2022 12:33	11.86	ft
GN-GSA-MW-15	Oxidation Reduction Potention	4/12/2022 12:33	114.55	mv

Alabama Power Company
Plant Gaston Gypsum Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-15	pH	4/12/2022 12:33	5.22	SU
GN-GSA-MW-15	Temperature	4/12/2022 12:33	19.91	C
GN-GSA-MW-15	Turbidity	4/12/2022 12:33	16	NTU
GN-GSA-MW-15	Conductivity	4/12/2022 12:38	29.52	uS/cm
GN-GSA-MW-15	DO	4/12/2022 12:38	3.85	mg/L
GN-GSA-MW-15	Depth to Water Detail	4/12/2022 12:38	11.89	ft
GN-GSA-MW-15	Oxidation Reduction Potention	4/12/2022 12:38	114.25	mv
GN-GSA-MW-15	pH	4/12/2022 12:38	5.23	SU
GN-GSA-MW-15	Temperature	4/12/2022 12:38	20	C
GN-GSA-MW-15	Turbidity	4/12/2022 12:38	15.2	NTU
GN-GSA-MW-15	Conductivity	4/12/2022 12:43	29.31	uS/cm
GN-GSA-MW-15	DO	4/12/2022 12:43	3.81	mg/L
GN-GSA-MW-15	Depth to Water Detail	4/12/2022 12:43	11.92	ft
GN-GSA-MW-15	Oxidation Reduction Potention	4/12/2022 12:43	111.2	mv
GN-GSA-MW-15	pH	4/12/2022 12:43	5.29	SU
GN-GSA-MW-15	Temperature	4/12/2022 12:43	20	C
GN-GSA-MW-15	Turbidity	4/12/2022 12:43	14.4	NTU
GN-GSA-MW-15	Conductivity	4/12/2022 12:48	29.03	uS/cm
GN-GSA-MW-15	DO	4/12/2022 12:48	3.74	mg/L
GN-GSA-MW-15	Depth to Water Detail	4/12/2022 12:48	11.95	ft
GN-GSA-MW-15	Oxidation Reduction Potention	4/12/2022 12:48	112.34	mv
GN-GSA-MW-15	pH	4/12/2022 12:48	5.31	SU
GN-GSA-MW-15	Temperature	4/12/2022 12:48	20.27	C
GN-GSA-MW-15	Turbidity	4/12/2022 12:48	13	NTU
GN-GSA-MW-15	Conductivity	4/12/2022 12:53	28.65	uS/cm
GN-GSA-MW-15	DO	4/12/2022 12:53	3.69	mg/L
GN-GSA-MW-15	Depth to Water Detail	4/12/2022 12:53	11.97	ft
GN-GSA-MW-15	Oxidation Reduction Potention	4/12/2022 12:53	110.49	mv
GN-GSA-MW-15	pH	4/12/2022 12:53	5.32	SU
GN-GSA-MW-15	Temperature	4/12/2022 12:53	20.35	C
GN-GSA-MW-15	Turbidity	4/12/2022 12:53	11.8	NTU
GN-GSA-MW-15	Conductivity	4/12/2022 12:58	28.51	uS/cm
GN-GSA-MW-15	DO	4/12/2022 12:58	3.66	mg/L
GN-GSA-MW-15	Depth to Water Detail	4/12/2022 12:58	11.98	ft
GN-GSA-MW-15	Oxidation Reduction Potention	4/12/2022 12:58	111.83	mv
GN-GSA-MW-15	pH	4/12/2022 12:58	5.31	SU
GN-GSA-MW-15	Temperature	4/12/2022 12:58	20.17	C
GN-GSA-MW-15	Turbidity	4/12/2022 12:58	11	NTU
GN-GSA-MW-15	Conductivity	4/12/2022 13:03	28.39	uS/cm
GN-GSA-MW-15	DO	4/12/2022 13:03	3.65	mg/L
GN-GSA-MW-15	Depth to Water Detail	4/12/2022 13:03	12.01	ft
GN-GSA-MW-15	Oxidation Reduction Potention	4/12/2022 13:03	113.22	mv
GN-GSA-MW-15	pH	4/12/2022 13:03	5.29	SU
GN-GSA-MW-15	Temperature	4/12/2022 13:03	20.25	C
GN-GSA-MW-15	Turbidity	4/12/2022 13:03	13.43	NTU
GN-GSA-MW-15	Conductivity	4/12/2022 13:08	28.41	uS/cm
GN-GSA-MW-15	DO	4/12/2022 13:08	3.64	mg/L
GN-GSA-MW-15	Depth to Water Detail	4/12/2022 13:08	12.03	ft
GN-GSA-MW-15	Oxidation Reduction Potention	4/12/2022 13:08	114.11	mv
GN-GSA-MW-15	pH	4/12/2022 13:08	5.28	SU
GN-GSA-MW-15	Temperature	4/12/2022 13:08	20.34	C
GN-GSA-MW-15	Turbidity	4/12/2022 13:08	12.76	NTU
GN-GSA-MW-15	Conductivity	4/12/2022 13:13	28.51	uS/cm

Alabama Power Company
Plant Gaston Gypsum Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-15	DO	4/12/2022 13:13	3.62	mg/L
GN-GSA-MW-15	Depth to Water Detail	4/12/2022 13:13	12.03	ft
GN-GSA-MW-15	Oxidation Reduction Potention	4/12/2022 13:13	116.24	mv
GN-GSA-MW-15	pH	4/12/2022 13:13	5.27	SU
GN-GSA-MW-15	Temperature	4/12/2022 13:13	20.15	C
GN-GSA-MW-15	Turbidity	4/12/2022 13:13	12.84	NTU
GN-GSA-MW-15	Conductivity	4/12/2022 13:18	28.53	uS/cm
GN-GSA-MW-15	DO	4/12/2022 13:18	3.62	mg/L
GN-GSA-MW-15	Depth to Water Detail	4/12/2022 13:18	12.05	ft
GN-GSA-MW-15	Oxidation Reduction Potention	4/12/2022 13:18	117.32	mv
GN-GSA-MW-15	pH	4/12/2022 13:18	5.24	SU
GN-GSA-MW-15	Temperature	4/12/2022 13:18	20.26	C
GN-GSA-MW-15	Turbidity	4/12/2022 13:18	12.83	NTU
GN-GSA-MW-15	Conductivity	4/12/2022 13:23	28.68	uS/cm
GN-GSA-MW-15	DO	4/12/2022 13:23	3.61	mg/L
GN-GSA-MW-15	Depth to Water Detail	4/12/2022 13:23	12.06	ft
GN-GSA-MW-15	Oxidation Reduction Potention	4/12/2022 13:23	113.7	mv
GN-GSA-MW-15	pH	4/12/2022 13:23	5.3	SU
GN-GSA-MW-15	Temperature	4/12/2022 13:23	20.28	C
GN-GSA-MW-15	Turbidity	4/12/2022 13:23	13.17	NTU
GN-GSA-MW-15	Conductivity	4/12/2022 13:28	28.97	uS/cm
GN-GSA-MW-15	DO	4/12/2022 13:28	3.6	mg/L
GN-GSA-MW-15	Depth to Water Detail	4/12/2022 13:28	12.06	ft
GN-GSA-MW-15	Oxidation Reduction Potention	4/12/2022 13:28	112.67	mv
GN-GSA-MW-15	pH	4/12/2022 13:28	5.33	SU
GN-GSA-MW-15	Temperature	4/12/2022 13:28	20.3	C
GN-GSA-MW-15	Turbidity	4/12/2022 13:28	12.4	NTU
GN-GSA-MW-15	Conductivity	4/12/2022 13:33	29.09	uS/cm
GN-GSA-MW-15	DO	4/12/2022 13:33	3.62	mg/L
GN-GSA-MW-15	Depth to Water Detail	4/12/2022 13:33	12.07	ft
GN-GSA-MW-15	Oxidation Reduction Potention	4/12/2022 13:33	111.72	mv
GN-GSA-MW-15	pH	4/12/2022 13:33	5.34	SU
GN-GSA-MW-15	Temperature	4/12/2022 13:33	20.33	C
GN-GSA-MW-15	Turbidity	4/12/2022 13:33	12.32	NTU
GN-GSA-MW-15	Conductivity	4/12/2022 13:38	29.06	uS/cm
GN-GSA-MW-15	DO	4/12/2022 13:38	3.63	mg/L
GN-GSA-MW-15	Depth to Water Detail	4/12/2022 13:38	12.07	ft
GN-GSA-MW-15	Oxidation Reduction Potention	4/12/2022 13:38	106.51	mv
GN-GSA-MW-15	pH	4/12/2022 13:38	5.39	SU
GN-GSA-MW-15	Temperature	4/12/2022 13:38	20.48	C
GN-GSA-MW-15	Turbidity	4/12/2022 13:38	11.1	NTU
GN-GSA-MW-15	Conductivity	4/12/2022 13:43	28.98	uS/cm
GN-GSA-MW-15	DO	4/12/2022 13:43	3.65	mg/L
GN-GSA-MW-15	Depth to Water Detail	4/12/2022 13:43	12.09	ft
GN-GSA-MW-15	Oxidation Reduction Potention	4/12/2022 13:43	110.3	mv
GN-GSA-MW-15	pH	4/12/2022 13:43	5.33	SU
GN-GSA-MW-15	Temperature	4/12/2022 13:43	20.15	C
GN-GSA-MW-15	Turbidity	4/12/2022 13:43	11	NTU
GN-GSA-MW-15	Conductivity	4/12/2022 13:48	29.04	uS/cm
GN-GSA-MW-15	DO	4/12/2022 13:48	3.67	mg/L
GN-GSA-MW-15	Depth to Water Detail	4/12/2022 13:48	12.09	ft
GN-GSA-MW-15	Oxidation Reduction Potention	4/12/2022 13:48	109.35	mv
GN-GSA-MW-15	pH	4/12/2022 13:48	5.35	SU

Alabama Power Company
Plant Gaston Gypsum Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-15	Temperature	4/12/2022 13:48	20.45	C
GN-GSA-MW-15	Turbidity	4/12/2022 13:48	13.7	NTU
GN-GSA-MW-15	Conductivity	4/12/2022 13:53	28.85	uS/cm
GN-GSA-MW-15	DO	4/12/2022 13:53	3.66	mg/L
GN-GSA-MW-15	Depth to Water Detail	4/12/2022 13:53	12.09	ft
GN-GSA-MW-15	Oxidation Reduction Potention	4/12/2022 13:53	108.56	mv
GN-GSA-MW-15	pH	4/12/2022 13:53	5.35	SU
GN-GSA-MW-15	Temperature	4/12/2022 13:53	20.37	C
GN-GSA-MW-15	Turbidity	4/12/2022 13:53	11.1	NTU
GN-GSA-MW-15	Conductivity	4/12/2022 13:58	28.49	uS/cm
GN-GSA-MW-15	DO	4/12/2022 13:58	3.7	mg/L
GN-GSA-MW-15	Depth to Water Detail	4/12/2022 13:58	12.09	ft
GN-GSA-MW-15	Oxidation Reduction Potention	4/12/2022 13:58	109.23	mv
GN-GSA-MW-15	pH	4/12/2022 13:58	5.33	SU
GN-GSA-MW-15	Temperature	4/12/2022 13:58	20.45	C
GN-GSA-MW-15	Turbidity	4/12/2022 13:58	12.17	NTU
GN-GSA-MW-15	Conductivity	4/12/2022 14:03	28.08	uS/cm
GN-GSA-MW-15	DO	4/12/2022 14:03	3.74	mg/L
GN-GSA-MW-15	Depth to Water Detail	4/12/2022 14:03	12.09	ft
GN-GSA-MW-15	Oxidation Reduction Potention	4/12/2022 14:03	112.74	mv
GN-GSA-MW-15	pH	4/12/2022 14:03	5.27	SU
GN-GSA-MW-15	Temperature	4/12/2022 14:03	20.3	C
GN-GSA-MW-15	Turbidity	4/12/2022 14:03	9.72	NTU
GN-GSA-MW-15	Conductivity	4/12/2022 14:08	27.73	uS/cm
GN-GSA-MW-15	DO	4/12/2022 14:08	3.74	mg/L
GN-GSA-MW-15	Depth to Water Detail	4/12/2022 14:08	12.09	ft
GN-GSA-MW-15	Oxidation Reduction Potention	4/12/2022 14:08	115.22	mv
GN-GSA-MW-15	pH	4/12/2022 14:08	5.25	SU
GN-GSA-MW-15	Temperature	4/12/2022 14:08	20.52	C
GN-GSA-MW-15	Turbidity	4/12/2022 14:08	9.79	NTU
GN-GSA-MW-15	Conductivity	4/12/2022 14:13	27.47	uS/cm
GN-GSA-MW-15	DO	4/12/2022 14:13	3.77	mg/L
GN-GSA-MW-15	Depth to Water Detail	4/12/2022 14:13	12.09	ft
GN-GSA-MW-15	Oxidation Reduction Potention	4/12/2022 14:13	115.18	mv
GN-GSA-MW-15	pH	4/12/2022 14:13	5.25	SU
GN-GSA-MW-15	Sulfide	4/12/2022 14:13	0	mg/L
GN-GSA-MW-15	Temperature	4/12/2022 14:13	20.47	C
GN-GSA-MW-15	Turbidity	4/12/2022 14:13	9.73	NTU

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

Analytical Report

Alabama Power

Sample Group : WMWGASG_1359

Project/Site : Gaston Gypsum
Wilsonville, AL 35186

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

Attention : Dustin Brooks & Greg Dyer

Released By : Brooke Caton
(205) 664-6101
tbwill@southernco.com

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

May 06, 2022

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on April 14, 2022.
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, 2022

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

Sincerely,

Quality Control: Brooke Caton

Digitally signed by Brooke Caton
Date: 2022.05.06 13:11:51 -05'00'

Supervision: T Durant Maske

Digitally signed by T Durant Maske
DN: cn=T Durant Maske gn=T Durant Maske c=US United States l=US United States e=tdmaske@southernco.com
Reason: I am approving this document
Location:
Date: 2022-05-09 10:41-05:00

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.

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

Case Narrative

Alabama Power

Total Metals ICP

Gaston Gypsum

WMWGASG_1359

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BC07343	724286	WMWGASG_1359
BC07344	724286	WMWGASG_1359
BC07345	724286	WMWGASG_1359
BC07346	724286	WMWGASG_1359
BC07347	724286	WMWGASG_1359
BC07348	724286	WMWGASG_1359
BC07349	724286	WMWGASG_1359
BC07350	724286	WMWGASG_1359
BC07351	724286	WMWGASG_1359
BC07352	724286	WMWGASG_1359
BC07353	724287	WMWGASG_1359
BC07354	724287	WMWGASG_1359
BC07355	724287	WMWGASG_1359
BC07356	724287	WMWGASG_1359
BC07357	724287	WMWGASG_1359
BC07358	724287	WMWGASG_1359
BC07359	724287	WMWGASG_1359
BC07360	724287	WMWGASG_1359
BC07361	724287	WMWGASG_1359

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 all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.

- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed, and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

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

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for accuracy were met.
- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.

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

Sample ID	Analyte	Dilution Factor
BC07343	Calcium	10.15
BC07345	Calcium	10.15
BC07346	Calcium	10.15
BC07347	Calcium	10.15
BC07348	Calcium	10.15
BC07350	Calcium	10.15
BC07352	Calcium	10.15
BC07353	Calcium	10.15
BC07354	Calcium	10.15
BC07355	Calcium	10.15
BC07356	Calcium	10.15
BC07357	Calcium	10.15
BC07360	Calcium	10.15

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

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

Case Narrative

Alabama Power

Dissolved Metals ICP

Gaston Gypsum

WMWGASG_1359

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BC07343	724436	WMWGASG_1359
BC07344	724436	WMWGASG_1359
BC07345	724436	WMWGASG_1359
BC07346	724436	WMWGASG_1359
BC07347	724436	WMWGASG_1359
BC07348	724436	WMWGASG_1359
BC07350	724436	WMWGASG_1359
BC07351	724436	WMWGASG_1359
BC07352	724436	WMWGASG_1359
BC07353	724436	WMWGASG_1359
BC07354	724437	WMWGASG_1359
BC07355	724437	WMWGASG_1359
BC07356	724437	WMWGASG_1359
BC07357	724437	WMWGASG_1359
BC07359	724437	WMWGASG_1359
BC07360	724437	WMWGASG_1359

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 all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.

- The method blank associated with each batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

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

- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for accuracy were met, except for the following:
    - BC07360 Calcium MS/MSD spike levels were <30% of the sample concentrations.
- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for precision were met.

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

Sample ID	Analyte	Dilution Factor
BC07343	Calcium	10.15
BC07345	Calcium	10.15
BC07346	Calcium	10.15
BC07347	Calcium	10.15
BC07348	Calcium	10.15
BC07350	Calcium	10.15
BC07352	Calcium	10.15
BC07353	Calcium	10.15
BC07354	Calcium	10.15
BC07355	Calcium	10.15
BC07356	Calcium	10.15
BC07357	Calcium	10.15
BC07360	Calcium	10.15

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

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

Case Narrative

Alabama Power

Total Metals ICPMS

Gaston Gypsum

WMWGASG_1359

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BC07343	724101	WMWGASG_1359
BC07344	724101	WMWGASG_1359
BC07345	724101	WMWGASG_1359
BC07346	724101	WMWGASG_1359
BC07347	724101	WMWGASG_1359
BC07348	724101	WMWGASG_1359
BC07349	724101	WMWGASG_1359
BC07350	724101	WMWGASG_1359
BC07351	724101	WMWGASG_1359
BC07352	724101	WMWGASG_1359
BC07353	724102	WMWGASG_1359
BC07354	724102	WMWGASG_1359
BC07355	724102	WMWGASG_1359
BC07356	724102	WMWGASG_1359
BC07357	724102	WMWGASG_1359
BC07358	724102	WMWGASG_1359
BC07359	724102	WMWGASG_1359
BC07360	724102	WMWGASG_1359
BC07361	724102	WMWGASG_1359

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.
- 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 ICPMS batch. All acceptance criteria for accuracy were met.
- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for precision were met.

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

Sample ID	Analyte	Dilution Factor
BC07347	Barium	5.075

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

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

Case Narrative

Alabama Power

Dissolved Metals ICPMS

Gaston Gypsum

WMWGASG_1359

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BC07343	724142	WMWWGASG_1359
BC07344	724142	WMWWGASG_1359
BC07345	724142	WMWWGASG_1359
BC07346	724142	WMWWGASG_1359
BC07347	724142	WMWWGASG_1359
BC07348	724142	WMWWGASG_1359
BC07350	724142	WMWWGASG_1359
BC07351	724142	WMWWGASG_1359
BC07352	724142	WMWWGASG_1359
BC07353	724142	WMWWGASG_1359
BC07354	724143	WMWWGASG_1359
BC07355	724143	WMWWGASG_1359
BC07356	724143	WMWWGASG_1359
BC07357	724143	WMWWGASG_1359
BC07359	724143	WMWWGASG_1359
BC07360	724143	WMWWGASG_1359

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

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.

- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each preparation batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- 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 ICPMS batch. All acceptance criteria for accuracy were met.
- A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for precision were met.

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

Sample ID	Analyte	Dilution Factor
BC07347	Barium	5.075

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

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

Case Narrative

Alabama Power

Mercury

Gaston Gypsum

WMWGASG_1359

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BC07343	724731	WMWGASG_1359
BC07344	724731	WMWGASG_1359
BC07345	724731	WMWGASG_1359
BC07346	724731	WMWGASG_1359
BC07347	724731	WMWGASG_1359
BC07348	724731	WMWGASG_1359
BC07349	724731	WMWGASG_1359
BC07350	724731	WMWGASG_1359
BC07351	724731	WMWGASG_1359
BC07352	724731	WMWGASG_1359
BC07353	724732	WMWGASG_1359
BC07354	724732	WMWGASG_1359
BC07355	724732	WMWGASG_1359
BC07356	724732	WMWGASG_1359
BC07357	724732	WMWGASG_1359
BC07358	724732	WMWGASG_1359
BC07359	724732	WMWGASG_1359
BC07360	724732	WMWGASG_1359
BC07361	724732	WMWGASG_1359

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 analytical batch. All acceptance criteria for accuracy were met.
- A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for precision were met.

7. All samples were analyzed without a dilution.

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

Case Narrative

Alabama Power

Nitrate-Nitrite

Gaston Gypsum

WMWGASG_1359

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BC07343	723877	WMWGASG_1359
BC07344	723877	WMWGASG_1359
BC07345	723877	WMWGASG_1359
BC07346	723877	WMWGASG_1359
BC07347	723877	WMWGASG_1359
BC07348	723877	WMWGASG_1359
BC07349	723877	WMWGASG_1359
BC07350	723877	WMWGASG_1359
BC07351	723877	WMWGASG_1359
BC07352	723877	WMWGASG_1359
BC07353	723878	WMWGASG_1359
BC07354	723878	WMWGASG_1359
BC07355	723878	WMWGASG_1359
BC07356	723878	WMWGASG_1359
BC07357	723878	WMWGASG_1359
BC07358	723878	WMWGASG_1359
BC07359	723878	WMWGASG_1359
BC07360	723878	WMWGASG_1359
BC07361	723878	WMWGASG_1359

4. All of the above samples were prepared and analyzed for NO_x by EPA 353.2.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Water baseline report was run and met criteria.
- All calibration met criteria for the requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- All continued calibration verification (CCV) were within the acceptance criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and were below limit of detection.

- All continued calibration blanks (CCB) were below the limit of detection.

EPA 353.2 Specific QC:

- Prior to sample analysis, Cadmium coil reduction efficiency check met criteria.
- Matrix Specific QC:
    - A sample duplicate was run and criteria for precision was met.
    - A matrix spike was run and criteria for accuracy was met.

7. All samples were analyzed without a dilution factor.
8. The raw data results are shown with dilution factors included.

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

Case Narrative

Alabama Power

Total Organic Carbon

Gaston Gypsum

WMWGASG_1359

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BC07343	724406	WMWGASG_1359
BC07344	724406	WMWGASG_1359
BC07345	724406	WMWGASG_1359
BC07346	724406	WMWGASG_1359
BC07347	724406	WMWGASG_1359
BC07348	724406	WMWGASG_1359
BC07349	724406	WMWGASG_1359
BC07350	724406	WMWGASG_1359
BC07351	724406	WMWGASG_1359
BC07352	724406	WMWGASG_1359
BC07353	724407	WMWGASG_1359
BC07354	724407	WMWGASG_1359
BC07355	724407	WMWGASG_1359
BC07356	724407	WMWGASG_1359
BC07357	724407	WMWGASG_1359
BC07358	724407	WMWGASG_1359
BC07359	724407	WMWGASG_1359
BC07360	724407	WMWGASG_1359
BC07361	724407	WMWGASG_1359

4. All of the above samples were prepared and analyzed by Standard Method 5310B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration criteria were met.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was <1/2RL.
- All continued calibration verifications (CCVs) were within the acceptance range.
- All continued calibration blanks (CCBs) were <1/2RL.

Matrix Specific Quality Control Procedures:

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.

7. All samples were analyzed without a dilution factor.
8. The raw data results are shown with dilution factors included.

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

Case Narrative

Alabama Power

Total Dissolved Solids

Gaston Gypsum

WMWGASG_1359

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BC07343	723695	WMWGASG_1359
BC07344	723695	WMWGASG_1359
BC07345	723695	WMWGASG_1359
BC07346	723695	WMWGASG_1359
BC07347	723695	WMWGASG_1359
BC07348	723695	WMWGASG_1359
BC07349	723696	WMWGASG_1359
BC07350	723696	WMWGASG_1359
BC07351	723696	WMWGASG_1359
BC07352	723696	WMWGASG_1359
BC07353	723696	WMWGASG_1359
BC07354	723696	WMWGASG_1359
BC07355	723696	WMWGASG_1359
BC07356	723696	WMWGASG_1359
BC07357	723696	WMWGASG_1359
BC07358	723696	WMWGASG_1359
BC07359	723772	WMWGASG_1359
BC07360	723772	WMWGASG_1359
BC07361	723772	WMWGASG_1359

4. All of the above samples were prepared and analyzed by Standard Method 2540C.
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:

- 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, and RPD was ≤10%.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.

Revision 5

- All samples with residue <2.5mg had the maximum volume of 150mL filtered. Affected samples are as follows:
  - BC07349
  - BC07358
  - BC07361

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

Case Narrative

Alabama Power

Anions

Gaston Gypsum

WMWGASG_1359

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BC07343	723766, 723769, 723829	WMWGASG_1359
BC07344	723766, 723769, 723829	WMWGASG_1359
BC07345	723766, 723769, 723829	WMWGASG_1359
BC07346	723766, 723769, 723829	WMWGASG_1359
BC07347	723766, 723769, 723829	WMWGASG_1359
BC07348	723766, 723769, 723829	WMWGASG_1359
BC07349	723766, 723769, 723829	WMWGASG_1359
BC07350	723766, 723769, 723829	WMWGASG_1359
BC07351	723766, 723769, 723829	WMWGASG_1359
BC07352	723766, 723769, 723829	WMWGASG_1359
BC07353	723767, 723770, 723830	WMWGASG_1359
BC07354	723767, 723770, 723830	WMWGASG_1359
BC07355	723767, 723770, 723830	WMWGASG_1359
BC07356	723767, 723770, 723830	WMWGASG_1359
BC07357	723767, 723770, 723830	WMWGASG_1359
BC07358	723767, 723770, 723830	WMWGASG_1359
BC07359	723767, 723770, 723830	WMWGASG_1359
BC07360	723767, 723770, 723830	WMWGASG_1359
BC07361	723767, 723770, 723830	WMWGASG_1359

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

General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV), and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below half the limit of quantitation for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.

- All continued calibration blanks (CCB) were below 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 and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.

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

Sample ID	Analyte	Dilution Factor
BC07350	Sulfate	10

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

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

Case Narrative

Alkalinity

Gaston Gypsum

WMWGASG_1359

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BC07343	724491, 724492	WMWGASG_1359
BC07344	724499, 724500	WMWGASG_1359
BC07345	724499, 724500	WMWGASG_1359
BC07346	724547, 724548	WMWGASG_1359
BC07347	724547, 724548	WMWGASG_1359
BC07348	724547, 724548	WMWGASG_1359
BC07350	724491, 724492	WMWGASG_1359
BC07351	724491, 724492	WMWGASG_1359
BC07352	724499, 724500	WMWGASG_1359
BC07353	724499, 724500	WMWGASG_1359
BC07354	724499, 724500	WMWGASG_1359
BC07355	724499, 724500	WMWGASG_1359
BC07356	724547, 724548	WMWGASG_1359
BC07357	724547, 724548	WMWGASG_1359
BC07359	724547, 724548	WMWGASG_1359
BC07360	724547, 724548	WMWGASG_1359

4. All of the above samples were prepared and analyzed by Standard Method 2320B.
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:

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

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-2

Location Code: WMWGASG
Collected: 4/12/22 11:05
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07343

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/22/22 14:24	4/25/22 11:09		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/22/22 14:24	4/25/22 13:00		10.15	87.1	mg/L	0.70035	4.06	
* Iron, Total	4/22/22 14:24	4/25/22 11:09		1.015	0.0220	mg/L	0.008120	0.0406	J
* Lithium, Total	4/22/22 14:24	4/25/22 11:09		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/22/22 14:24	4/25/22 11:09		1.015	20.5	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/22/22 14:24	4/25/22 11:09		1	11.3	mg/L			
Silicon, Total	4/22/22 14:24	4/25/22 11:09		1.015	5.29	mg/L	0.02030	0.25375	
* Sodium, Total	4/22/22 14:24	4/25/22 11:09		1.015	2.12	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	4/26/22 10:33	4/27/22 09:35		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	4/26/22 10:33	4/27/22 10:57		10.15	79.8	mg/L	0.70035	4.06	
* Iron, Dissolved	4/26/22 10:33	4/27/22 09:35		1.015	0.0165	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	4/26/22 10:33	4/27/22 09:35		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/26/22 10:33	4/27/22 09:35		1.015	20.8	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/26/22 10:33	4/27/22 09:35		1	11.4	mg/L			
Silicon, Dissolved	4/26/22 10:33	4/27/22 09:35		1.015	5.31	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/26/22 10:33	4/27/22 09:35		1.015	2.18	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/18/22 10:35	4/19/22 17:08		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/18/22 10:35	4/19/22 17:08		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/18/22 10:35	4/19/22 17:08		1.015	0.000102	mg/L	0.000081	0.000203	J
* Barium, Total	4/18/22 10:35	4/19/22 17:08		1.015	0.0340	mg/L	0.000102	0.000203	
* Beryllium, Total	4/18/22 10:35	4/19/22 17:08		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/18/22 10:35	4/19/22 17:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/18/22 10:35	4/19/22 17:08		1.015	0.000518	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/18/22 10:35	4/19/22 17:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/18/22 10:35	4/19/22 17:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/18/22 10:35	4/19/22 17:08		1.015	0.000618	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/18/22 10:35	4/19/22 17:08		1.015	0.000259	mg/L	0.000102	0.000203	
* Potassium, Total	4/18/22 10:35	4/19/22 17:08		1.015	0.465	mg/L	0.169505	0.5075	J

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-2

Location Code: WMWGASG
Collected: 4/12/22 11:05
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07343

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/18/22 10:35	4/19/22 17:08		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/18/22 10:35	4/19/22 17:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	4/18/22 10:40	4/19/22 12:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/18/22 10:40	4/19/22 12:58		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/18/22 10:40	4/19/22 12:58		1.015	0.000146	mg/L	0.000081	0.000203	J
* Barium, Dissolved	4/18/22 10:40	4/19/22 12:58		1.015	0.0284	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/18/22 10:40	4/19/22 12:58		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/18/22 10:40	4/19/22 12:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/18/22 10:40	4/19/22 12:58		1.015	0.000471	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	4/18/22 10:40	4/19/22 12:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/18/22 10:40	4/19/22 12:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/18/22 10:40	4/19/22 12:58		1.015	0.000446	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/18/22 10:40	4/19/22 12:58		1.015	0.000333	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/18/22 10:40	4/19/22 12:58		1.015	0.449	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	4/18/22 10:40	4/19/22 12:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/18/22 10:40	4/19/22 12:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/22/22 11:23	4/22/22 14:14		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/19/22 14:11	4/19/22 14:11		1	0.306	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	4/26/22 09:03	4/26/22 09:03		1	287	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/14/22 14:13	4/18/22 13:18		1	271	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	4/26/22 09:03	4/26/22 09:03		1	286	mg/L			
Carbonate Alkalinity, (calc.)	4/26/22 09:03	4/26/22 09:03		1	0.954	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	4/25/22 15:27	4/25/22 15:27		1	Not Detected	mg/L	1.00	2	U

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-2

Location Code: WMWGASG
Collected: 4/12/22 11:05
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07343

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/15/22 09:51	4/15/22 09:51		1	3.23	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/15/22 14:55	4/15/22 14:55		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/19/22 11:41	4/19/22 11:41		1	8.36	mg/L	0.6	2	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/12/22 11:02	4/12/22 11:02			477.36	uS/cm			FA
pH	4/12/22 11:02	4/12/22 11:02			6.48	SU			FA
Temperature	4/12/22 11:02	4/12/22 11:02			21.70	C			FA
Turbidity	4/12/22 11:02	4/12/22 11:02			1.99	NTU			FA
Sulfide	4/12/22 11:02	4/12/22 11:02			0	mg/L			FA

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/12/22 11:05
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-2

Laboratory ID Number: BC07343

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07353	Aluminum, Dissolved	mg/L	0.000593	0.010	0.100	0.0986	0.0979	0.102	0.0850 to 0.115	98.6	70.0 to 130	0.712	20.0
BC07352	Aluminum, Total	mg/L	0.000653	0.010	0.100	0.111	0.111	0.114	0.0850 to 0.115	111	70.0 to 130	0.00	20.0
BC07353	Antimony, Dissolved	mg/L	0.000184	0.00100	0.100	0.0905	0.0947	0.0867	0.0850 to 0.115	90.5	70.0 to 130	4.54	20.0
BC07352	Antimony, Total	mg/L	0.000310	0.00100	0.100	0.110	0.112	0.104	0.0850 to 0.115	110	70.0 to 130	1.80	20.0
BC07353	Arsenic, Dissolved	mg/L	0.0000278	0.000176	0.100	0.0970	0.0975	0.102	0.0850 to 0.115	95.9	70.0 to 130	0.514	20.0
BC07352	Arsenic, Total	mg/L	0.0000077	0.000176	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07353	Barium, Dissolved	mg/L	-0.0000005	0.00100	0.100	0.114	0.119	0.0908	0.0850 to 0.115	90.1	70.0 to 130	4.29	20.0
BC07352	Barium, Total	mg/L	-0.0000092	0.00100	0.100	0.132	0.134	0.110	0.0850 to 0.115	113	70.0 to 130	1.50	20.0
BC07353	Beryllium, Dissolved	mg/L	0.0000897	0.000880	0.100	0.0905	0.0879	0.0914	0.0850 to 0.115	90.5	70.0 to 130	2.91	20.0
BC07352	Beryllium, Total	mg/L	0.0000051	0.000880	0.100	0.106	0.107	0.109	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC07353	Boron, Dissolved	mg/L	0.000005	0.0650	1.00	1.02	1.03	1.03	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BC07352	Boron, Total	mg/L	-0.000208	0.0650	1.00	1.05	1.04	1.02	0.850 to 1.15	105	70.0 to 130	0.957	20.0
BC07353	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0980	0.0990	0.100	0.0850 to 0.115	98.0	70.0 to 130	1.02	20.0
BC07352	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.106	0.106	0.111	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BC07353	Calcium, Dissolved	mg/L	-0.00159	0.152	5.00	55.7	56.2	4.85	4.25 to 5.75	70.0	70.0 to 130	0.894	20.0
BC07352	Calcium, Total	mg/L	0.00105	0.152	5.00	76.3	75.2	4.89	4.25 to 5.75	102	70.0 to 130	1.45	20.0
BC07352	Chloride	mg/L	0.0507	1.00	10.0	13.9	13.7	9.83	9.00 to 11.0	106	80.0 to 120	1.45	20.0
BC07353	Chromium, Dissolved	mg/L	-0.0000240	0.000440	0.100	0.0967	0.0957	0.0979	0.0850 to 0.115	96.4	70.0 to 130	1.04	20.0
BC07352	Chromium, Total	mg/L	-0.0000857	0.000440	0.100	0.0987	0.0966	0.101	0.0850 to 0.115	98.7	70.0 to 130	2.15	20.0
BC07353	Cobalt, Dissolved	mg/L	-0.0000046	0.000147	0.100	0.0984	0.0972	0.0982	0.0850 to 0.115	98.3	70.0 to 130	1.23	20.0
BC07352	Cobalt, Total	mg/L	-0.0000744	0.000147	0.100	0.102	0.101	0.107	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07352	Fluoride	mg/L	-0.0248	0.125	2.50	2.63	2.65	2.62	2.25 to 2.75	102	80.0 to 120	0.758	20.0
BC07353	Iron, Dissolved	mg/L	0.000084	0.0176	0.2	0.498	0.509	0.207	0.170 to 0.230	97.5	70.0 to 130	2.18	20.0

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/12/22 11:05
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-2

Laboratory ID Number: BC07343

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07352	Iron, Total	mg/L	0.000618	0.0176	0.2	0.257	0.256	0.198	0.170 to 0.230	100	70.0 to 130	0.390	20.0
BC07353	Lead, Dissolved	mg/L	0.0000177	0.000147	0.100	0.102	0.0985	0.0986	0.0850 to 0.115	102	70.0 to 130	3.49	20.0
BC07352	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.114	0.114	0.114	0.0850 to 0.115	114	70.0 to 130	0.00	20.0
BC07353	Lithium, Dissolved	mg/L	-0.000113	0.0154	0.200	0.206	0.203	0.211	0.170 to 0.230	103	70.0 to 130	1.47	20.0
BC07352	Lithium, Total	mg/L	0.000204	0.0154	0.200	0.204	0.204	0.202	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BC07353	Magnesium, Dissolved	mg/L	-0.000969	0.0462	5.00	15.9	15.9	5.36	4.25 to 5.75	102	70.0 to 130	0.00	20.0
BC07352	Magnesium, Total	mg/L	0.00546	0.0462	5.00	14.2	14.3	5.18	4.25 to 5.75	101	70.0 to 130	0.702	20.0
BC07353	Manganese, Dissolved	mg/L	-0.0000191	0.0002	0.100	0.185	0.185	0.100	0.0850 to 0.115	95.6	70.0 to 130	0.00	20.0
BC07352	Manganese, Total	mg/L	-0.0000103	0.0002	0.100	0.421	0.424	0.109	0.0850 to 0.115	106	70.0 to 130	0.710	20.0
BC07352	Mercury, Total by CVAA	mg/L	0.000110	0.000500	0.004	0.00343	0.00348	0.00387	0.00340 to 0.00460	85.8	70.0 to 130	1.45	20.0
BC07353	Molybdenum, Dissolved	mg/L	0.0000130	0.0002	0.100	0.0992	0.0996	0.0949	0.0850 to 0.115	95.8	70.0 to 130	0.402	20.0
BC07352	Molybdenum, Total	mg/L	0.0000091	0.0002	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC07353	Potassium, Dissolved	mg/L	-0.000327	0.367	10.0	11.2	11.1	10.2	8.50 to 11.5	98.6	70.0 to 130	0.897	20.0
BC07352	Potassium, Total	mg/L	-0.00861	0.367	10.0	10.4	10.5	10.1	8.50 to 11.5	97.8	70.0 to 130	0.957	20.0
BC07353	Selenium, Dissolved	mg/L	0.0000335	0.00100	0.100	0.103	0.103	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC07352	Selenium, Total	mg/L	0.0000746	0.00100	0.100	0.104	0.106	0.108	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BC07353	Silicon, Dissolved	mg/L	-0.000426	0.0440	1.00	5.09	5.12	1.03	0.850 to 1.15	103	70.0 to 130	0.588	20.0
BC07352	Silicon, Total	mg/L	0.000115	0.0440	1.00	4.41	4.40	1.01	0.850 to 1.15	104	70.0 to 130	0.227	20.0
BC07353	Sodium, Dissolved	mg/L	0.000333	0.0660	5.00	6.60	6.52	5.39	4.25 to 5.75	105	70.0 to 130	1.22	20.0
BC07352	Sodium, Total	mg/L	0.00015	0.0660	5.00	10.3	10.3	5.16	4.25 to 5.75	104	70.0 to 130	0.00	20.0
BC07352	Sulfate	mg/L	0.0352	2.0	20.0	26.6	27.1	20.0	18.0 to 22.0	104	80.0 to 120	1.86	20.0
BC07353	Thallium, Dissolved	mg/L	0.0000153	0.000147	0.100	0.103	0.0998	0.0996	0.0850 to 0.115	103	70.0 to 130	3.16	20.0

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/12/22 11:05
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-2

Laboratory ID Number: BC07343

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07352	Thallium, Total	mg/L	-0.0000834	0.000147	0.100	0.109	0.113	0.111	0.0850 to 0.115	109	70.0 to 130	3.60	20.0
BC07352	Total Organic Carbon	mg/L	0.250	1.00	10.0	11.6	11.4	25.5		102	80.0 to 120	1.74	20.0

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

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASG
Sample Date: 4/12/22 11:05
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-2

Laboratory ID Number: BC07343

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07351	Alkalinity, Total as CaCO3	mg/L					2.96	50.8	45.0 to 55.0			8.45	10.0
BC07352	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.06	0.200	2.00	2.00	-0.051	1.96	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BC07348	Solids, Dissolved	mg/L	0.0000	25.0			259	48.0	40.0 to 60.0			2.67	10.0

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-15

Location Code: WMWGASG
Collected: 4/12/22 14:16
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07344

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/22/22 14:24	4/25/22 11:12		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/22/22 14:24	4/25/22 11:12		1.015	4.59	mg/L	0.070035	0.406	
* Iron, Total	4/22/22 14:24	4/25/22 11:12		1.015	0.336	mg/L	0.008120	0.0406	
* Lithium, Total	4/22/22 14:24	4/25/22 11:12		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/22/22 14:24	4/25/22 11:12		1.015	0.343	mg/L	0.021315	0.406	J
Silica, Total (calc.)	4/22/22 14:24	4/25/22 11:12		1	9.42	mg/L			
Silicon, Total	4/22/22 14:24	4/25/22 11:12		1.015	4.40	mg/L	0.02030	0.25375	
* Sodium, Total	4/22/22 14:24	4/25/22 11:12		1.015	0.994	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	4/26/22 10:33	4/27/22 09:38		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	4/26/22 10:33	4/27/22 09:38		1.015	4.52	mg/L	0.070035	0.406	
* Iron, Dissolved	4/26/22 10:33	4/27/22 09:38		1.015	0.195	mg/L	0.008120	0.0406	
* Lithium, Dissolved	4/26/22 10:33	4/27/22 09:38		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/26/22 10:33	4/27/22 09:38		1.015	0.323	mg/L	0.021315	0.406	J
Silica, Dissolved (calc.)	4/26/22 10:33	4/27/22 09:38		1	9.24	mg/L			
Silicon, Dissolved	4/26/22 10:33	4/27/22 09:38		1.015	4.32	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/26/22 10:33	4/27/22 09:38		1.015	0.996	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/18/22 10:35	4/19/22 17:12		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/18/22 10:35	4/19/22 17:12		1.015	0.0512	mg/L	0.006090	0.01015	
* Arsenic, Total	4/18/22 10:35	4/19/22 17:12		1.015	0.000281	mg/L	0.000081	0.000203	
* Barium, Total	4/18/22 10:35	4/19/22 17:12		1.015	0.00927	mg/L	0.000102	0.000203	
* Beryllium, Total	4/18/22 10:35	4/19/22 17:12		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/18/22 10:35	4/19/22 17:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/18/22 10:35	4/19/22 17:12		1.015	0.000234	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/18/22 10:35	4/19/22 17:12		1.015	0.000658	mg/L	0.000068	0.000203	
* Lead, Total	4/18/22 10:35	4/19/22 17:12		1.015	0.000226	mg/L	0.000068	0.000203	
* Manganese, Total	4/18/22 10:35	4/19/22 17:12		1.015	0.0806	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/18/22 10:35	4/19/22 17:12		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	4/18/22 10:35	4/19/22 17:12		1.015	0.257	mg/L	0.169505	0.5075	J

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-15

Location Code: WMWGASG
Collected: 4/12/22 14:16
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07344

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/18/22 10:35	4/19/22 17:12		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/18/22 10:35	4/19/22 17:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	4/18/22 10:40	4/19/22 13:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/18/22 10:40	4/19/22 13:02		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/18/22 10:40	4/19/22 13:02		1.015	0.000198	mg/L	0.000081	0.000203	J
* Barium, Dissolved	4/18/22 10:40	4/19/22 13:02		1.015	0.00684	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/18/22 10:40	4/19/22 13:02		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/18/22 10:40	4/19/22 13:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/18/22 10:40	4/19/22 13:02		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/18/22 10:40	4/19/22 13:02		1.015	0.000574	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/18/22 10:40	4/19/22 13:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/18/22 10:40	4/19/22 13:02		1.015	0.0672	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/18/22 10:40	4/19/22 13:02		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	4/18/22 10:40	4/19/22 13:02		1.015	0.244	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	4/18/22 10:40	4/19/22 13:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/18/22 10:40	4/19/22 13:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/22/22 11:23	4/22/22 14:16		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/19/22 14:13	4/19/22 14:13		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	4/26/22 10:56	4/26/22 13:12		1	12.0	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/14/22 14:13	4/18/22 13:18		1	27.3	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	4/26/22 10:56	4/26/22 13:12		1	12.0	mg/L			
Carbonate Alkalinity, (calc.)	4/26/22 10:56	4/26/22 13:12		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	4/25/22 15:48	4/25/22 15:48		1	Not Detected	mg/L	1.00	2	U

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-15

Location Code: WMWGASG
Collected: 4/12/22 14:16
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07344

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/15/22 09:52	4/15/22 09:52		1	1.88	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/15/22 14:56	4/15/22 14:56		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/19/22 11:42	4/19/22 11:42		1	1.76	mg/L	0.6	2	J
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/12/22 14:13	4/12/22 14:13			27.47	uS/cm			FA
pH	4/12/22 14:13	4/12/22 14:13			5.25	SU			FA
Temperature	4/12/22 14:13	4/12/22 14:13			20.47	C			FA
Turbidity	4/12/22 14:13	4/12/22 14:13			9.73	NTU			FA
Sulfide	4/12/22 14:13	4/12/22 14:13			0	mg/L			FA

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/12/22 14:16
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-15

Laboratory ID Number: BC07344

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07353	Aluminum, Dissolved	mg/L	0.000593	0.010	0.100	0.0986	0.0979	0.102	0.0850 to 0.115	98.6	70.0 to 130	0.712	20.0
BC07352	Aluminum, Total	mg/L	0.000653	0.010	0.100	0.111	0.111	0.114	0.0850 to 0.115	111	70.0 to 130	0.00	20.0
BC07353	Antimony, Dissolved	mg/L	0.000184	0.00100	0.100	0.0905	0.0947	0.0867	0.0850 to 0.115	90.5	70.0 to 130	4.54	20.0
BC07352	Antimony, Total	mg/L	0.000310	0.00100	0.100	0.110	0.112	0.104	0.0850 to 0.115	110	70.0 to 130	1.80	20.0
BC07353	Arsenic, Dissolved	mg/L	0.0000278	0.000176	0.100	0.0970	0.0975	0.102	0.0850 to 0.115	95.9	70.0 to 130	0.514	20.0
BC07352	Arsenic, Total	mg/L	0.0000077	0.000176	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07353	Barium, Dissolved	mg/L	-0.0000005	0.00100	0.100	0.114	0.119	0.0908	0.0850 to 0.115	90.1	70.0 to 130	4.29	20.0
BC07352	Barium, Total	mg/L	-0.0000092	0.00100	0.100	0.132	0.134	0.110	0.0850 to 0.115	113	70.0 to 130	1.50	20.0
BC07353	Beryllium, Dissolved	mg/L	0.0000897	0.000880	0.100	0.0905	0.0879	0.0914	0.0850 to 0.115	90.5	70.0 to 130	2.91	20.0
BC07352	Beryllium, Total	mg/L	0.0000051	0.000880	0.100	0.106	0.107	0.109	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC07353	Boron, Dissolved	mg/L	0.000005	0.0650	1.00	1.02	1.03	1.03	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BC07352	Boron, Total	mg/L	-0.000208	0.0650	1.00	1.05	1.04	1.02	0.850 to 1.15	105	70.0 to 130	0.957	20.0
BC07353	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0980	0.0990	0.100	0.0850 to 0.115	98.0	70.0 to 130	1.02	20.0
BC07352	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.106	0.106	0.111	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BC07353	Calcium, Dissolved	mg/L	-0.00159	0.152	5.00	55.7	56.2	4.85	4.25 to 5.75	70.0	70.0 to 130	0.894	20.0
BC07352	Calcium, Total	mg/L	0.00105	0.152	5.00	76.3	75.2	4.89	4.25 to 5.75	102	70.0 to 130	1.45	20.0
BC07352	Chloride	mg/L	0.0507	1.00	10.0	13.9	13.7	9.83	9.00 to 11.0	106	80.0 to 120	1.45	20.0
BC07353	Chromium, Dissolved	mg/L	-0.0000240	0.000440	0.100	0.0967	0.0957	0.0979	0.0850 to 0.115	96.4	70.0 to 130	1.04	20.0
BC07352	Chromium, Total	mg/L	-0.0000857	0.000440	0.100	0.0987	0.0966	0.101	0.0850 to 0.115	98.7	70.0 to 130	2.15	20.0
BC07353	Cobalt, Dissolved	mg/L	-0.0000046	0.000147	0.100	0.0984	0.0972	0.0982	0.0850 to 0.115	98.3	70.0 to 130	1.23	20.0
BC07352	Cobalt, Total	mg/L	-0.0000744	0.000147	0.100	0.102	0.101	0.107	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07352	Fluoride	mg/L	-0.0248	0.125	2.50	2.63	2.65	2.62	2.25 to 2.75	102	80.0 to 120	0.758	20.0
BC07353	Iron, Dissolved	mg/L	0.000084	0.0176	0.2	0.498	0.509	0.207	0.170 to 0.230	97.5	70.0 to 130	2.18	20.0

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/12/22 14:16
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-15

Laboratory ID Number: BC07344

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07352	Iron, Total	mg/L	0.000618	0.0176	0.2	0.257	0.256	0.198	0.170 to 0.230	100	70.0 to 130	0.390	20.0
BC07353	Lead, Dissolved	mg/L	0.0000177	0.000147	0.100	0.102	0.0985	0.0986	0.0850 to 0.115	102	70.0 to 130	3.49	20.0
BC07352	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.114	0.114	0.114	0.0850 to 0.115	114	70.0 to 130	0.00	20.0
BC07353	Lithium, Dissolved	mg/L	-0.000113	0.0154	0.200	0.206	0.203	0.211	0.170 to 0.230	103	70.0 to 130	1.47	20.0
BC07352	Lithium, Total	mg/L	0.000204	0.0154	0.200	0.204	0.204	0.202	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BC07353	Magnesium, Dissolved	mg/L	-0.000969	0.0462	5.00	15.9	15.9	5.36	4.25 to 5.75	102	70.0 to 130	0.00	20.0
BC07352	Magnesium, Total	mg/L	0.00546	0.0462	5.00	14.2	14.3	5.18	4.25 to 5.75	101	70.0 to 130	0.702	20.0
BC07353	Manganese, Dissolved	mg/L	-0.0000191	0.0002	0.100	0.185	0.185	0.100	0.0850 to 0.115	95.6	70.0 to 130	0.00	20.0
BC07352	Manganese, Total	mg/L	-0.0000103	0.0002	0.100	0.421	0.424	0.109	0.0850 to 0.115	106	70.0 to 130	0.710	20.0
BC07352	Mercury, Total by CVAA	mg/L	0.000110	0.000500	0.004	0.00343	0.00348	0.00387	0.00340 to 0.00460	85.8	70.0 to 130	1.45	20.0
BC07353	Molybdenum, Dissolved	mg/L	0.0000130	0.0002	0.100	0.0992	0.0996	0.0949	0.0850 to 0.115	95.8	70.0 to 130	0.402	20.0
BC07352	Molybdenum, Total	mg/L	0.0000091	0.0002	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC07353	Potassium, Dissolved	mg/L	-0.000327	0.367	10.0	11.2	11.1	10.2	8.50 to 11.5	98.6	70.0 to 130	0.897	20.0
BC07352	Potassium, Total	mg/L	-0.00861	0.367	10.0	10.4	10.5	10.1	8.50 to 11.5	97.8	70.0 to 130	0.957	20.0
BC07353	Selenium, Dissolved	mg/L	0.0000335	0.00100	0.100	0.103	0.103	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC07352	Selenium, Total	mg/L	0.0000746	0.00100	0.100	0.104	0.106	0.108	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BC07353	Silicon, Dissolved	mg/L	-0.000426	0.0440	1.00	5.09	5.12	1.03	0.850 to 1.15	103	70.0 to 130	0.588	20.0
BC07352	Silicon, Total	mg/L	0.000115	0.0440	1.00	4.41	4.40	1.01	0.850 to 1.15	104	70.0 to 130	0.227	20.0
BC07353	Sodium, Dissolved	mg/L	0.000333	0.0660	5.00	6.60	6.52	5.39	4.25 to 5.75	105	70.0 to 130	1.22	20.0
BC07352	Sodium, Total	mg/L	0.00015	0.0660	5.00	10.3	10.3	5.16	4.25 to 5.75	104	70.0 to 130	0.00	20.0
BC07352	Sulfate	mg/L	0.0352	2.0	20.0	26.6	27.1	20.0	18.0 to 22.0	104	80.0 to 120	1.86	20.0
BC07353	Thallium, Dissolved	mg/L	0.0000153	0.000147	0.100	0.103	0.0998	0.0996	0.0850 to 0.115	103	70.0 to 130	3.16	20.0

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/12/22 14:16
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-15

Laboratory ID Number: BC07344

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07352	Thallium, Total	mg/L	-0.0000834	0.000147	0.100	0.109	0.113	0.111	0.0850 to 0.115	109	70.0 to 130	3.60	20.0
BC07352	Total Organic Carbon	mg/L	0.250	1.00	10.0	11.6	11.4	25.5		102	80.0 to 120	1.74	20.0

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

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASG
Sample Date: 4/12/22 14:16
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-15

Laboratory ID Number: BC07344

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07355	Alkalinity, Total as CaCO3	mg/L					143	50.8	45.0 to 55.0			3.44	10.0
BC07352	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.06	0.200	2.00	2.00	-0.051	1.96	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BC07348	Solids, Dissolved	mg/L	0.0000	25.0			259	48.0	40.0 to 60.0			2.67	10.0

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

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-3

Location Code: WMWGASG
Collected: 4/12/22 15:51
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07345

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/22/22 14:24	4/25/22 11:15		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/22/22 14:24	4/25/22 13:03		10.15	55.1	mg/L	0.70035	4.06	
* Iron, Total	4/22/22 14:24	4/25/22 11:15		1.015	0.0103	mg/L	0.008120	0.0406	J
* Lithium, Total	4/22/22 14:24	4/25/22 11:15		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/22/22 14:24	4/25/22 11:15		1.015	2.59	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/22/22 14:24	4/25/22 11:15		1	7.60	mg/L			
Silicon, Total	4/22/22 14:24	4/25/22 11:15		1.015	3.55	mg/L	0.02030	0.25375	
* Sodium, Total	4/22/22 14:24	4/25/22 11:15		1.015	4.72	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	4/26/22 10:33	4/27/22 09:41		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	4/26/22 10:33	4/27/22 11:01		10.15	54.1	mg/L	0.70035	4.06	
* Iron, Dissolved	4/26/22 10:33	4/27/22 09:41		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	4/26/22 10:33	4/27/22 09:41		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/26/22 10:33	4/27/22 09:41		1.015	2.60	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/26/22 10:33	4/27/22 09:41		1	7.47	mg/L			
Silicon, Dissolved	4/26/22 10:33	4/27/22 09:41		1.015	3.49	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/26/22 10:33	4/27/22 09:41		1.015	4.74	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/18/22 10:35	4/19/22 17:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/18/22 10:35	4/19/22 17:15		1.015	0.0187	mg/L	0.006090	0.01015	
* Arsenic, Total	4/18/22 10:35	4/19/22 17:15		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	4/18/22 10:35	4/19/22 17:15		1.015	0.0309	mg/L	0.000102	0.000203	
* Beryllium, Total	4/18/22 10:35	4/19/22 17:15		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/18/22 10:35	4/19/22 17:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/18/22 10:35	4/19/22 17:15		1.015	0.000249	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/18/22 10:35	4/19/22 17:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/18/22 10:35	4/19/22 17:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/18/22 10:35	4/19/22 17:15		1.015	0.0169	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/18/22 10:35	4/19/22 17:15		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	4/18/22 10:35	4/19/22 17:15		1.015	7.94	mg/L	0.169505	0.5075	

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.

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-3

Location Code: WMWGASG
Collected: 4/12/22 15:51
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07345

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/18/22 10:35	4/19/22 17:15		1.015	0.000510	mg/L	0.000508	0.001015	J
* Thallium, Total	4/18/22 10:35	4/19/22 17:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	4/18/22 10:40	4/19/22 13:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/18/22 10:40	4/19/22 13:05		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/18/22 10:40	4/19/22 13:05		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	4/18/22 10:40	4/19/22 13:05		1.015	0.0253	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/18/22 10:40	4/19/22 13:05		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/18/22 10:40	4/19/22 13:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/18/22 10:40	4/19/22 13:05		1.015	0.000260	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	4/18/22 10:40	4/19/22 13:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/18/22 10:40	4/19/22 13:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/18/22 10:40	4/19/22 13:05		1.015	0.00224	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/18/22 10:40	4/19/22 13:05		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	4/18/22 10:40	4/19/22 13:05		1.015	7.74	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/18/22 10:40	4/19/22 13:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/18/22 10:40	4/19/22 13:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/22/22 11:23	4/22/22 14:18		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/19/22 14:15	4/19/22 14:15		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	4/26/22 10:56	4/26/22 13:12		1	138	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/14/22 14:13	4/18/22 13:18		1	156	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	4/26/22 10:56	4/26/22 13:12		1	138	mg/L			
Carbonate Alkalinity, (calc.)	4/26/22 10:56	4/26/22 13:12		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	4/25/22 16:03	4/25/22 16:03		1	Not Detected	mg/L	1.00	2	U

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-3

Location Code: WMWGASG
Collected: 4/12/22 15:51
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07345

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/15/22 09:53	4/15/22 09:53		1	2.67	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/15/22 14:57	4/15/22 14:57		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/19/22 11:43	4/19/22 11:43		1	7.36	mg/L	0.6	2	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/12/22 15:48	4/12/22 15:48			250.86	uS/cm			FA
pH	4/12/22 15:48	4/12/22 15:48			5.57	SU			FA
Temperature	4/12/22 15:48	4/12/22 15:48			20.83	C			FA
Turbidity	4/12/22 15:48	4/12/22 15:48			1.12	NTU			FA
Sulfide	4/12/22 15:48	4/12/22 15:48			0	mg/L			FA

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/12/22 15:51
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-3

Laboratory ID Number: BC07345

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07353	Aluminum, Dissolved	mg/L	0.000593	0.010	0.100	0.0986	0.0979	0.102	0.0850 to 0.115	98.6	70.0 to 130	0.712	20.0
BC07352	Aluminum, Total	mg/L	0.000653	0.010	0.100	0.111	0.111	0.114	0.0850 to 0.115	111	70.0 to 130	0.00	20.0
BC07353	Antimony, Dissolved	mg/L	0.000184	0.00100	0.100	0.0905	0.0947	0.0867	0.0850 to 0.115	90.5	70.0 to 130	4.54	20.0
BC07352	Antimony, Total	mg/L	0.000310	0.00100	0.100	0.110	0.112	0.104	0.0850 to 0.115	110	70.0 to 130	1.80	20.0
BC07353	Arsenic, Dissolved	mg/L	0.0000278	0.000176	0.100	0.0970	0.0975	0.102	0.0850 to 0.115	95.9	70.0 to 130	0.514	20.0
BC07352	Arsenic, Total	mg/L	0.0000077	0.000176	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07353	Barium, Dissolved	mg/L	-0.0000005	0.00100	0.100	0.114	0.119	0.0908	0.0850 to 0.115	90.1	70.0 to 130	4.29	20.0
BC07352	Barium, Total	mg/L	-0.0000092	0.00100	0.100	0.132	0.134	0.110	0.0850 to 0.115	113	70.0 to 130	1.50	20.0
BC07353	Beryllium, Dissolved	mg/L	0.0000897	0.000880	0.100	0.0905	0.0879	0.0914	0.0850 to 0.115	90.5	70.0 to 130	2.91	20.0
BC07352	Beryllium, Total	mg/L	0.0000051	0.000880	0.100	0.106	0.107	0.109	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC07353	Boron, Dissolved	mg/L	0.000005	0.0650	1.00	1.02	1.03	1.03	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BC07352	Boron, Total	mg/L	-0.000208	0.0650	1.00	1.05	1.04	1.02	0.850 to 1.15	105	70.0 to 130	0.957	20.0
BC07353	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0980	0.0990	0.100	0.0850 to 0.115	98.0	70.0 to 130	1.02	20.0
BC07352	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.106	0.106	0.111	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BC07353	Calcium, Dissolved	mg/L	-0.00159	0.152	5.00	55.7	56.2	4.85	4.25 to 5.75	70.0	70.0 to 130	0.894	20.0
BC07352	Calcium, Total	mg/L	0.00105	0.152	5.00	76.3	75.2	4.89	4.25 to 5.75	102	70.0 to 130	1.45	20.0
BC07352	Chloride	mg/L	0.0507	1.00	10.0	13.9	13.7	9.83	9.00 to 11.0	106	80.0 to 120	1.45	20.0
BC07353	Chromium, Dissolved	mg/L	-0.0000240	0.000440	0.100	0.0967	0.0957	0.0979	0.0850 to 0.115	96.4	70.0 to 130	1.04	20.0
BC07352	Chromium, Total	mg/L	-0.0000857	0.000440	0.100	0.0987	0.0966	0.101	0.0850 to 0.115	98.7	70.0 to 130	2.15	20.0
BC07353	Cobalt, Dissolved	mg/L	-0.0000046	0.000147	0.100	0.0984	0.0972	0.0982	0.0850 to 0.115	98.3	70.0 to 130	1.23	20.0
BC07352	Cobalt, Total	mg/L	-0.0000744	0.000147	0.100	0.102	0.101	0.107	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07352	Fluoride	mg/L	-0.0248	0.125	2.50	2.63	2.65	2.62	2.25 to 2.75	102	80.0 to 120	0.758	20.0
BC07353	Iron, Dissolved	mg/L	0.000084	0.0176	0.2	0.498	0.509	0.207	0.170 to 0.230	97.5	70.0 to 130	2.18	20.0

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/12/22 15:51
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-3

Laboratory ID Number: BC07345

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07352	Iron, Total	mg/L	0.000618	0.0176	0.2	0.257	0.256	0.198	0.170 to 0.230	100	70.0 to 130	0.390	20.0
BC07353	Lead, Dissolved	mg/L	0.0000177	0.000147	0.100	0.102	0.0985	0.0986	0.0850 to 0.115	102	70.0 to 130	3.49	20.0
BC07352	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.114	0.114	0.114	0.0850 to 0.115	114	70.0 to 130	0.00	20.0
BC07353	Lithium, Dissolved	mg/L	-0.000113	0.0154	0.200	0.206	0.203	0.211	0.170 to 0.230	103	70.0 to 130	1.47	20.0
BC07352	Lithium, Total	mg/L	0.000204	0.0154	0.200	0.204	0.204	0.202	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BC07353	Magnesium, Dissolved	mg/L	-0.000969	0.0462	5.00	15.9	15.9	5.36	4.25 to 5.75	102	70.0 to 130	0.00	20.0
BC07352	Magnesium, Total	mg/L	0.00546	0.0462	5.00	14.2	14.3	5.18	4.25 to 5.75	101	70.0 to 130	0.702	20.0
BC07353	Manganese, Dissolved	mg/L	-0.0000191	0.0002	0.100	0.185	0.185	0.100	0.0850 to 0.115	95.6	70.0 to 130	0.00	20.0
BC07352	Manganese, Total	mg/L	-0.0000103	0.0002	0.100	0.421	0.424	0.109	0.0850 to 0.115	106	70.0 to 130	0.710	20.0
BC07352	Mercury, Total by CVAA	mg/L	0.000110	0.000500	0.004	0.00343	0.00348	0.00387	0.00340 to 0.00460	85.8	70.0 to 130	1.45	20.0
BC07353	Molybdenum, Dissolved	mg/L	0.0000130	0.0002	0.100	0.0992	0.0996	0.0949	0.0850 to 0.115	95.8	70.0 to 130	0.402	20.0
BC07352	Molybdenum, Total	mg/L	0.0000091	0.0002	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC07353	Potassium, Dissolved	mg/L	-0.000327	0.367	10.0	11.2	11.1	10.2	8.50 to 11.5	98.6	70.0 to 130	0.897	20.0
BC07352	Potassium, Total	mg/L	-0.00861	0.367	10.0	10.4	10.5	10.1	8.50 to 11.5	97.8	70.0 to 130	0.957	20.0
BC07353	Selenium, Dissolved	mg/L	0.0000335	0.00100	0.100	0.103	0.103	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC07352	Selenium, Total	mg/L	0.0000746	0.00100	0.100	0.104	0.106	0.108	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BC07353	Silicon, Dissolved	mg/L	-0.000426	0.0440	1.00	5.09	5.12	1.03	0.850 to 1.15	103	70.0 to 130	0.588	20.0
BC07352	Silicon, Total	mg/L	0.000115	0.0440	1.00	4.41	4.40	1.01	0.850 to 1.15	104	70.0 to 130	0.227	20.0
BC07353	Sodium, Dissolved	mg/L	0.000333	0.0660	5.00	6.60	6.52	5.39	4.25 to 5.75	105	70.0 to 130	1.22	20.0
BC07352	Sodium, Total	mg/L	0.00015	0.0660	5.00	10.3	10.3	5.16	4.25 to 5.75	104	70.0 to 130	0.00	20.0
BC07352	Sulfate	mg/L	0.0352	2.0	20.0	26.6	27.1	20.0	18.0 to 22.0	104	80.0 to 120	1.86	20.0
BC07353	Thallium, Dissolved	mg/L	0.0000153	0.000147	0.100	0.103	0.0998	0.0996	0.0850 to 0.115	103	70.0 to 130	3.16	20.0

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/12/22 15:51
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-3

Laboratory ID Number: BC07345

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07352	Thallium, Total	mg/L	-0.0000834	0.000147	0.100	0.109	0.113	0.111	0.0850 to 0.115	109	70.0 to 130	3.60	20.0
BC07352	Total Organic Carbon	mg/L	0.250	1.00	10.0	11.6	11.4	25.5		102	80.0 to 120	1.74	20.0

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

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASG
Sample Date: 4/12/22 15:51
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-3

Laboratory ID Number: BC07345

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07355	Alkalinity, Total as CaCO3	mg/L					143	50.8	45.0 to 55.0			3.44	10.0
BC07352	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.06	0.200	2.00	2.00	-0.051	1.96	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BC07348	Solids, Dissolved	mg/L	0.0000	25.0			259	48.0	40.0 to 60.0			2.67	10.0

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

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-14S

Location Code: WMWGASG
Collected: 4/13/22 08:43
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07346

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/22/22 14:24	4/25/22 11:18		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/22/22 14:24	4/25/22 13:06		10.15	58.9	mg/L	0.70035	4.06	
* Iron, Total	4/22/22 14:24	4/25/22 11:18		1.015	0.0362	mg/L	0.008120	0.0406	J
* Lithium, Total	4/22/22 14:24	4/25/22 11:18		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/22/22 14:24	4/25/22 11:18		1.015	8.73	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/22/22 14:24	4/25/22 11:18		1	9.89	mg/L			
Silicon, Total	4/22/22 14:24	4/25/22 11:18		1.015	4.62	mg/L	0.02030	0.25375	
* Sodium, Total	4/22/22 14:24	4/25/22 11:18		1.015	5.97	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	4/26/22 10:33	4/27/22 09:44		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	4/26/22 10:33	4/27/22 11:04		10.15	55.5	mg/L	0.70035	4.06	
* Iron, Dissolved	4/26/22 10:33	4/27/22 09:44		1.015	0.0164	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	4/26/22 10:33	4/27/22 09:44		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/26/22 10:33	4/27/22 09:44		1.015	8.90	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/26/22 10:33	4/27/22 09:44		1	9.84	mg/L			
Silicon, Dissolved	4/26/22 10:33	4/27/22 09:44		1.015	4.60	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/26/22 10:33	4/27/22 09:44		1.015	6.10	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/18/22 10:35	4/19/22 17:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/18/22 10:35	4/19/22 17:19		1.015	0.0336	mg/L	0.006090	0.01015	
* Arsenic, Total	4/18/22 10:35	4/19/22 17:19		1.015	0.000143	mg/L	0.000081	0.000203	J
* Barium, Total	4/18/22 10:35	4/19/22 17:19		1.015	0.0217	mg/L	0.000102	0.000203	
* Beryllium, Total	4/18/22 10:35	4/19/22 17:19		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/18/22 10:35	4/19/22 17:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/18/22 10:35	4/19/22 17:19		1.015	0.000699	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/18/22 10:35	4/19/22 17:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/18/22 10:35	4/19/22 17:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/18/22 10:35	4/19/22 17:19		1.015	0.00854	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/18/22 10:35	4/19/22 17:19		1.015	0.000247	mg/L	0.000102	0.000203	
* Potassium, Total	4/18/22 10:35	4/19/22 17:19		1.015	0.634	mg/L	0.169505	0.5075	

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.

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-14S

Location Code: WMWGASG
Collected: 4/13/22 08:43
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07346

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/18/22 10:35	4/19/22 17:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/18/22 10:35	4/19/22 17:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	4/18/22 10:40	4/19/22 13:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/18/22 10:40	4/19/22 13:09		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/18/22 10:40	4/19/22 13:09		1.015	0.000169	mg/L	0.000081	0.000203	J
* Barium, Dissolved	4/18/22 10:40	4/19/22 13:09		1.015	0.0173	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/18/22 10:40	4/19/22 13:09		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/18/22 10:40	4/19/22 13:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/18/22 10:40	4/19/22 13:09		1.015	0.000719	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	4/18/22 10:40	4/19/22 13:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/18/22 10:40	4/19/22 13:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/18/22 10:40	4/19/22 13:09		1.015	0.00686	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/18/22 10:40	4/19/22 13:09		1.015	0.000215	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/18/22 10:40	4/19/22 13:09		1.015	0.651	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/18/22 10:40	4/19/22 13:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/18/22 10:40	4/19/22 13:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/22/22 11:23	4/22/22 14:21		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/19/22 14:17	4/19/22 14:17		1	0.271	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	4/27/22 07:52	4/27/22 07:52		1	183	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/14/22 14:13	4/18/22 13:18		1	187	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	4/27/22 07:52	4/27/22 07:52		1	181	mg/L			
Carbonate Alkalinity, (calc.)	4/27/22 07:52	4/27/22 07:52		1	1.59	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	4/25/22 16:24	4/25/22 16:24		1	Not Detected	mg/L	1.00	2	U

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-14S

Location Code: WMWGASG
Collected: 4/13/22 08:43
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07346

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/15/22 09:55	4/15/22 09:55		1	2.42	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/15/22 14:58	4/15/22 14:58		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/19/22 11:44	4/19/22 11:44		1	2.44	mg/L	0.6	2	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/13/22 08:40	4/13/22 08:40			320.94	uS/cm			FA
pH	4/13/22 08:40	4/13/22 08:40			7.40	SU			FA
Temperature	4/13/22 08:40	4/13/22 08:40			19.31	C			FA
Turbidity	4/13/22 08:40	4/13/22 08:40			3.8	NTU			FA
Sulfide	4/13/22 08:40	4/13/22 08:40			0	mg/L			FA

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/13/22 08:43
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-14S

Laboratory ID Number: BC07346

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07353	Aluminum, Dissolved	mg/L	0.000593	0.010	0.100	0.0986	0.0979	0.102	0.0850 to 0.115	98.6	70.0 to 130	0.712	20.0
BC07352	Aluminum, Total	mg/L	0.000653	0.010	0.100	0.111	0.111	0.114	0.0850 to 0.115	111	70.0 to 130	0.00	20.0
BC07353	Antimony, Dissolved	mg/L	0.000184	0.00100	0.100	0.0905	0.0947	0.0867	0.0850 to 0.115	90.5	70.0 to 130	4.54	20.0
BC07352	Antimony, Total	mg/L	0.000310	0.00100	0.100	0.110	0.112	0.104	0.0850 to 0.115	110	70.0 to 130	1.80	20.0
BC07353	Arsenic, Dissolved	mg/L	0.0000278	0.000176	0.100	0.0970	0.0975	0.102	0.0850 to 0.115	95.9	70.0 to 130	0.514	20.0
BC07352	Arsenic, Total	mg/L	0.0000077	0.000176	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07353	Barium, Dissolved	mg/L	-0.0000005	0.00100	0.100	0.114	0.119	0.0908	0.0850 to 0.115	90.1	70.0 to 130	4.29	20.0
BC07352	Barium, Total	mg/L	-0.0000092	0.00100	0.100	0.132	0.134	0.110	0.0850 to 0.115	113	70.0 to 130	1.50	20.0
BC07353	Beryllium, Dissolved	mg/L	0.0000897	0.000880	0.100	0.0905	0.0879	0.0914	0.0850 to 0.115	90.5	70.0 to 130	2.91	20.0
BC07352	Beryllium, Total	mg/L	0.0000051	0.000880	0.100	0.106	0.107	0.109	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC07353	Boron, Dissolved	mg/L	0.000005	0.0650	1.00	1.02	1.03	1.03	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BC07352	Boron, Total	mg/L	-0.000208	0.0650	1.00	1.05	1.04	1.02	0.850 to 1.15	105	70.0 to 130	0.957	20.0
BC07353	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0980	0.0990	0.100	0.0850 to 0.115	98.0	70.0 to 130	1.02	20.0
BC07352	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.106	0.106	0.111	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BC07353	Calcium, Dissolved	mg/L	-0.00159	0.152	5.00	55.7	56.2	4.85	4.25 to 5.75	70.0	70.0 to 130	0.894	20.0
BC07352	Calcium, Total	mg/L	0.00105	0.152	5.00	76.3	75.2	4.89	4.25 to 5.75	102	70.0 to 130	1.45	20.0
BC07352	Chloride	mg/L	0.0507	1.00	10.0	13.9	13.7	9.83	9.00 to 11.0	106	80.0 to 120	1.45	20.0
BC07353	Chromium, Dissolved	mg/L	-0.0000240	0.000440	0.100	0.0967	0.0957	0.0979	0.0850 to 0.115	96.4	70.0 to 130	1.04	20.0
BC07352	Chromium, Total	mg/L	-0.0000857	0.000440	0.100	0.0987	0.0966	0.101	0.0850 to 0.115	98.7	70.0 to 130	2.15	20.0
BC07353	Cobalt, Dissolved	mg/L	-0.0000046	0.000147	0.100	0.0984	0.0972	0.0982	0.0850 to 0.115	98.3	70.0 to 130	1.23	20.0
BC07352	Cobalt, Total	mg/L	-0.0000744	0.000147	0.100	0.102	0.101	0.107	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07352	Fluoride	mg/L	-0.0248	0.125	2.50	2.63	2.65	2.62	2.25 to 2.75	102	80.0 to 120	0.758	20.0
BC07353	Iron, Dissolved	mg/L	0.000084	0.0176	0.2	0.498	0.509	0.207	0.170 to 0.230	97.5	70.0 to 130	2.18	20.0

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/13/22 08:43
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-14S

Laboratory ID Number: BC07346

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07352	Iron, Total	mg/L	0.000618	0.0176	0.2	0.257	0.256	0.198	0.170 to 0.230	100	70.0 to 130	0.390	20.0
BC07353	Lead, Dissolved	mg/L	0.0000177	0.000147	0.100	0.102	0.0985	0.0986	0.0850 to 0.115	102	70.0 to 130	3.49	20.0
BC07352	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.114	0.114	0.114	0.0850 to 0.115	114	70.0 to 130	0.00	20.0
BC07353	Lithium, Dissolved	mg/L	-0.000113	0.0154	0.200	0.206	0.203	0.211	0.170 to 0.230	103	70.0 to 130	1.47	20.0
BC07352	Lithium, Total	mg/L	0.000204	0.0154	0.200	0.204	0.204	0.202	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BC07353	Magnesium, Dissolved	mg/L	-0.000969	0.0462	5.00	15.9	15.9	5.36	4.25 to 5.75	102	70.0 to 130	0.00	20.0
BC07352	Magnesium, Total	mg/L	0.00546	0.0462	5.00	14.2	14.3	5.18	4.25 to 5.75	101	70.0 to 130	0.702	20.0
BC07353	Manganese, Dissolved	mg/L	-0.0000191	0.0002	0.100	0.185	0.185	0.100	0.0850 to 0.115	95.6	70.0 to 130	0.00	20.0
BC07352	Manganese, Total	mg/L	-0.0000103	0.0002	0.100	0.421	0.424	0.109	0.0850 to 0.115	106	70.0 to 130	0.710	20.0
BC07352	Mercury, Total by CVAA	mg/L	0.000110	0.000500	0.004	0.00343	0.00348	0.00387	0.00340 to 0.00460	85.8	70.0 to 130	1.45	20.0
BC07353	Molybdenum, Dissolved	mg/L	0.0000130	0.0002	0.100	0.0992	0.0996	0.0949	0.0850 to 0.115	95.8	70.0 to 130	0.402	20.0
BC07352	Molybdenum, Total	mg/L	0.0000091	0.0002	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC07353	Potassium, Dissolved	mg/L	-0.000327	0.367	10.0	11.2	11.1	10.2	8.50 to 11.5	98.6	70.0 to 130	0.897	20.0
BC07352	Potassium, Total	mg/L	-0.00861	0.367	10.0	10.4	10.5	10.1	8.50 to 11.5	97.8	70.0 to 130	0.957	20.0
BC07353	Selenium, Dissolved	mg/L	0.0000335	0.00100	0.100	0.103	0.103	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC07352	Selenium, Total	mg/L	0.0000746	0.00100	0.100	0.104	0.106	0.108	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BC07353	Silicon, Dissolved	mg/L	-0.000426	0.0440	1.00	5.09	5.12	1.03	0.850 to 1.15	103	70.0 to 130	0.588	20.0
BC07352	Silicon, Total	mg/L	0.000115	0.0440	1.00	4.41	4.40	1.01	0.850 to 1.15	104	70.0 to 130	0.227	20.0
BC07353	Sodium, Dissolved	mg/L	0.000333	0.0660	5.00	6.60	6.52	5.39	4.25 to 5.75	105	70.0 to 130	1.22	20.0
BC07352	Sodium, Total	mg/L	0.00015	0.0660	5.00	10.3	10.3	5.16	4.25 to 5.75	104	70.0 to 130	0.00	20.0
BC07352	Sulfate	mg/L	0.0352	2.0	20.0	26.6	27.1	20.0	18.0 to 22.0	104	80.0 to 120	1.86	20.0
BC07353	Thallium, Dissolved	mg/L	0.0000153	0.000147	0.100	0.103	0.0998	0.0996	0.0850 to 0.115	103	70.0 to 130	3.16	20.0

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/13/22 08:43
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-14S

Laboratory ID Number: BC07346

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07352	Thallium, Total	mg/L	-0.0000834	0.000147	0.100	0.109	0.113	0.111	0.0850 to 0.115	109	70.0 to 130	3.60	20.0
BC07352	Total Organic Carbon	mg/L	0.250	1.00	10.0	11.6	11.4	25.5		102	80.0 to 120	1.74	20.0

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

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASG
Sample Date: 4/13/22 08:43
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-14S

Laboratory ID Number: BC07346

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07360	Alkalinity, Total as CaCO3	mg/L					241	50.9	45.0 to 55.0			7.76	10.0
BC07352	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.06	0.200	2.00	2.00	-0.051	1.96	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BC07348	Solids, Dissolved	mg/L	0.0000	25.0			259	48.0	40.0 to 60.0			2.67	10.0

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-1

Location Code: WMWGASG
Collected: 4/13/22 10:00
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07347

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/22/22 14:24	4/25/22 11:21		1.015	0.0353	mg/L	0.030000	0.1015	J
* Calcium, Total	4/22/22 14:24	4/25/22 13:10		10.15	47.5	mg/L	0.70035	4.06	
* Iron, Total	4/22/22 14:24	4/25/22 11:21		1.015	0.216	mg/L	0.008120	0.0406	
* Lithium, Total	4/22/22 14:24	4/25/22 11:21		1.015	0.00966	mg/L	0.007105	0.01999956	J
* Magnesium, Total	4/22/22 14:24	4/25/22 11:21		1.015	22.1	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/22/22 14:24	4/25/22 11:21		1	20.1	mg/L			
Silicon, Total	4/22/22 14:24	4/25/22 11:21		1.015	9.37	mg/L	0.02030	0.25375	
* Sodium, Total	4/22/22 14:24	4/25/22 11:21		1.015	9.17	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	4/26/22 10:33	4/27/22 09:47		1.015	0.0355	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	4/26/22 10:33	4/27/22 11:08		10.15	44.8	mg/L	0.70035	4.06	
* Iron, Dissolved	4/26/22 10:33	4/27/22 09:47		1.015	0.213	mg/L	0.008120	0.0406	
* Lithium, Dissolved	4/26/22 10:33	4/27/22 09:47		1.015	0.00990	mg/L	0.007105	0.01999956	J
* Magnesium, Dissolved	4/26/22 10:33	4/27/22 09:47		1.015	22.5	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/26/22 10:33	4/27/22 09:47		1	20.1	mg/L			
Silicon, Dissolved	4/26/22 10:33	4/27/22 09:47		1.015	9.37	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/26/22 10:33	4/27/22 09:47		1.015	9.24	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/18/22 10:35	4/19/22 17:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/18/22 10:35	4/19/22 17:22		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/18/22 10:35	4/19/22 17:22		1.015	0.00248	mg/L	0.000081	0.000203	
* Barium, Total	4/18/22 10:35	4/19/22 18:41		5.075	2.68	mg/L	0.000508	0.001015	
* Beryllium, Total	4/18/22 10:35	4/19/22 17:22		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/18/22 10:35	4/19/22 17:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/18/22 10:35	4/19/22 17:22		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/18/22 10:35	4/19/22 17:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/18/22 10:35	4/19/22 17:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/18/22 10:35	4/19/22 17:22		1.015	0.00661	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/18/22 10:35	4/19/22 17:22		1.015	0.00330	mg/L	0.000102	0.000203	
* Potassium, Total	4/18/22 10:35	4/19/22 17:22		1.015	1.07	mg/L	0.169505	0.5075	

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.

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-1

Location Code: WMWGASG
Collected: 4/13/22 10:00
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07347

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/18/22 10:35	4/19/22 17:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/18/22 10:35	4/19/22 17:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	4/18/22 10:40	4/19/22 13:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/18/22 10:40	4/19/22 13:13		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/18/22 10:40	4/19/22 13:13		1.015	0.00239	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/18/22 10:40	4/19/22 14:22		5.075	2.10	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/18/22 10:40	4/19/22 13:13		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/18/22 10:40	4/19/22 13:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/18/22 10:40	4/19/22 13:13		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/18/22 10:40	4/19/22 13:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/18/22 10:40	4/19/22 13:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/18/22 10:40	4/19/22 13:13		1.015	0.00584	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/18/22 10:40	4/19/22 13:13		1.015	0.00306	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/18/22 10:40	4/19/22 13:13		1.015	1.05	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/18/22 10:40	4/19/22 13:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/18/22 10:40	4/19/22 13:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/22/22 11:23	4/22/22 14:23		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/19/22 14:19	4/19/22 14:19		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	4/27/22 08:00	4/27/22 08:00		1	224	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/14/22 14:13	4/18/22 13:18		1	217	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	4/27/22 08:00	4/27/22 08:00		1	222	mg/L			
Carbonate Alkalinity, (calc.)	4/27/22 08:00	4/27/22 08:00		1	1.82	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	4/25/22 16:43	4/25/22 16:43		1	Not Detected	mg/L	1.00	2	U

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-1

Location Code: WMWGASG
Collected: 4/13/22 10:00
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07347

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/15/22 09:56	4/15/22 09:56		1	2.17	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/15/22 15:00	4/15/22 15:00		1	0.307	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/19/22 11:45	4/19/22 11:45		1	4.24	mg/L	0.6	2	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/13/22 09:57	4/13/22 09:57			379.96	uS/cm			FA
pH	4/13/22 09:57	4/13/22 09:57			7.50	SU			FA
Temperature	4/13/22 09:57	4/13/22 09:57			20.05	C			FA
Turbidity	4/13/22 09:57	4/13/22 09:57			1.56	NTU			FA
Sulfide	4/13/22 09:57	4/13/22 09:57			0	mg/L			FA

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/13/22 10:00
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-1

Laboratory ID Number: BC07347

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07353	Aluminum, Dissolved	mg/L	0.000593	0.010	0.100	0.0986	0.0979	0.102	0.0850 to 0.115	98.6	70.0 to 130	0.712	20.0
BC07352	Aluminum, Total	mg/L	0.000653	0.010	0.100	0.111	0.111	0.114	0.0850 to 0.115	111	70.0 to 130	0.00	20.0
BC07353	Antimony, Dissolved	mg/L	0.000184	0.00100	0.100	0.0905	0.0947	0.0867	0.0850 to 0.115	90.5	70.0 to 130	4.54	20.0
BC07352	Antimony, Total	mg/L	0.000310	0.00100	0.100	0.110	0.112	0.104	0.0850 to 0.115	110	70.0 to 130	1.80	20.0
BC07353	Arsenic, Dissolved	mg/L	0.0000278	0.000176	0.100	0.0970	0.0975	0.102	0.0850 to 0.115	95.9	70.0 to 130	0.514	20.0
BC07352	Arsenic, Total	mg/L	0.0000077	0.000176	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07353	Barium, Dissolved	mg/L	-0.0000005	0.00100	0.100	0.114	0.119	0.0908	0.0850 to 0.115	90.1	70.0 to 130	4.29	20.0
BC07352	Barium, Total	mg/L	-0.0000092	0.00100	0.100	0.132	0.134	0.110	0.0850 to 0.115	113	70.0 to 130	1.50	20.0
BC07353	Beryllium, Dissolved	mg/L	0.0000897	0.000880	0.100	0.0905	0.0879	0.0914	0.0850 to 0.115	90.5	70.0 to 130	2.91	20.0
BC07352	Beryllium, Total	mg/L	0.0000051	0.000880	0.100	0.106	0.107	0.109	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC07353	Boron, Dissolved	mg/L	0.000005	0.0650	1.00	1.02	1.03	1.03	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BC07352	Boron, Total	mg/L	-0.000208	0.0650	1.00	1.05	1.04	1.02	0.850 to 1.15	105	70.0 to 130	0.957	20.0
BC07353	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0980	0.0990	0.100	0.0850 to 0.115	98.0	70.0 to 130	1.02	20.0
BC07352	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.106	0.106	0.111	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BC07353	Calcium, Dissolved	mg/L	-0.00159	0.152	5.00	55.7	56.2	4.85	4.25 to 5.75	70.0	70.0 to 130	0.894	20.0
BC07352	Calcium, Total	mg/L	0.00105	0.152	5.00	76.3	75.2	4.89	4.25 to 5.75	102	70.0 to 130	1.45	20.0
BC07352	Chloride	mg/L	0.0507	1.00	10.0	13.9	13.7	9.83	9.00 to 11.0	106	80.0 to 120	1.45	20.0
BC07353	Chromium, Dissolved	mg/L	-0.0000240	0.000440	0.100	0.0967	0.0957	0.0979	0.0850 to 0.115	96.4	70.0 to 130	1.04	20.0
BC07352	Chromium, Total	mg/L	-0.0000857	0.000440	0.100	0.0987	0.0966	0.101	0.0850 to 0.115	98.7	70.0 to 130	2.15	20.0
BC07353	Cobalt, Dissolved	mg/L	-0.0000046	0.000147	0.100	0.0984	0.0972	0.0982	0.0850 to 0.115	98.3	70.0 to 130	1.23	20.0
BC07352	Cobalt, Total	mg/L	-0.0000744	0.000147	0.100	0.102	0.101	0.107	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07352	Fluoride	mg/L	-0.0248	0.125	2.50	2.63	2.65	2.62	2.25 to 2.75	102	80.0 to 120	0.758	20.0
BC07353	Iron, Dissolved	mg/L	0.000084	0.0176	0.2	0.498	0.509	0.207	0.170 to 0.230	97.5	70.0 to 130	2.18	20.0

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/13/22 10:00
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-1

Laboratory ID Number: BC07347

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07352	Iron, Total	mg/L	0.000618	0.0176	0.2	0.257	0.256	0.198	0.170 to 0.230	100	70.0 to 130	0.390	20.0
BC07353	Lead, Dissolved	mg/L	0.0000177	0.000147	0.100	0.102	0.0985	0.0986	0.0850 to 0.115	102	70.0 to 130	3.49	20.0
BC07352	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.114	0.114	0.114	0.0850 to 0.115	114	70.0 to 130	0.00	20.0
BC07353	Lithium, Dissolved	mg/L	-0.000113	0.0154	0.200	0.206	0.203	0.211	0.170 to 0.230	103	70.0 to 130	1.47	20.0
BC07352	Lithium, Total	mg/L	0.000204	0.0154	0.200	0.204	0.204	0.202	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BC07353	Magnesium, Dissolved	mg/L	-0.000969	0.0462	5.00	15.9	15.9	5.36	4.25 to 5.75	102	70.0 to 130	0.00	20.0
BC07352	Magnesium, Total	mg/L	0.00546	0.0462	5.00	14.2	14.3	5.18	4.25 to 5.75	101	70.0 to 130	0.702	20.0
BC07353	Manganese, Dissolved	mg/L	-0.0000191	0.0002	0.100	0.185	0.185	0.100	0.0850 to 0.115	95.6	70.0 to 130	0.00	20.0
BC07352	Manganese, Total	mg/L	-0.0000103	0.0002	0.100	0.421	0.424	0.109	0.0850 to 0.115	106	70.0 to 130	0.710	20.0
BC07352	Mercury, Total by CVAA	mg/L	0.000110	0.000500	0.004	0.00343	0.00348	0.00387	0.00340 to 0.00460	85.8	70.0 to 130	1.45	20.0
BC07353	Molybdenum, Dissolved	mg/L	0.0000130	0.0002	0.100	0.0992	0.0996	0.0949	0.0850 to 0.115	95.8	70.0 to 130	0.402	20.0
BC07352	Molybdenum, Total	mg/L	0.0000091	0.0002	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC07353	Potassium, Dissolved	mg/L	-0.000327	0.367	10.0	11.2	11.1	10.2	8.50 to 11.5	98.6	70.0 to 130	0.897	20.0
BC07352	Potassium, Total	mg/L	-0.00861	0.367	10.0	10.4	10.5	10.1	8.50 to 11.5	97.8	70.0 to 130	0.957	20.0
BC07353	Selenium, Dissolved	mg/L	0.0000335	0.00100	0.100	0.103	0.103	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC07352	Selenium, Total	mg/L	0.0000746	0.00100	0.100	0.104	0.106	0.108	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BC07353	Silicon, Dissolved	mg/L	-0.000426	0.0440	1.00	5.09	5.12	1.03	0.850 to 1.15	103	70.0 to 130	0.588	20.0
BC07352	Silicon, Total	mg/L	0.000115	0.0440	1.00	4.41	4.40	1.01	0.850 to 1.15	104	70.0 to 130	0.227	20.0
BC07353	Sodium, Dissolved	mg/L	0.000333	0.0660	5.00	6.60	6.52	5.39	4.25 to 5.75	105	70.0 to 130	1.22	20.0
BC07352	Sodium, Total	mg/L	0.00015	0.0660	5.00	10.3	10.3	5.16	4.25 to 5.75	104	70.0 to 130	0.00	20.0
BC07352	Sulfate	mg/L	0.0352	2.0	20.0	26.6	27.1	20.0	18.0 to 22.0	104	80.0 to 120	1.86	20.0
BC07353	Thallium, Dissolved	mg/L	0.0000153	0.000147	0.100	0.103	0.0998	0.0996	0.0850 to 0.115	103	70.0 to 130	3.16	20.0

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/13/22 10:00
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-1

Laboratory ID Number: BC07347

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07352	Thallium, Total	mg/L	-0.0000834	0.000147	0.100	0.109	0.113	0.111	0.0850 to 0.115	109	70.0 to 130	3.60	20.0
BC07352	Total Organic Carbon	mg/L	0.250	1.00	10.0	11.6	11.4	25.5		102	80.0 to 120	1.74	20.0

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

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASG
Sample Date: 4/13/22 10:00
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-1

Laboratory ID Number: BC07347

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07360	Alkalinity, Total as CaCO3	mg/L					241	50.9	45.0 to 55.0			7.76	10.0
BC07352	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.06	0.200	2.00	2.00	-0.051	1.96	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BC07348	Solids, Dissolved	mg/L	0.0000	25.0			259	48.0	40.0 to 60.0			2.67	10.0

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-13

Location Code: WMWGASG
Collected: 4/13/22 10:59
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07348

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/22/22 14:24	4/25/22 11:24		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/22/22 14:24	4/25/22 13:13		10.15	91.8	mg/L	0.70035	4.06	
* Iron, Total	4/22/22 14:24	4/25/22 11:24		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/22/22 14:24	4/25/22 11:24		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/22/22 14:24	4/25/22 11:24		1.015	10.5	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/22/22 14:24	4/25/22 11:24		1	9.84	mg/L			
Silicon, Total	4/22/22 14:24	4/25/22 11:24		1.015	4.60	mg/L	0.02030	0.25375	
* Sodium, Total	4/22/22 14:24	4/25/22 11:24		1.015	3.31	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	4/26/22 10:33	4/27/22 09:50		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	4/26/22 10:33	4/27/22 11:11		10.15	87.8	mg/L	0.70035	4.06	
* Iron, Dissolved	4/26/22 10:33	4/27/22 09:50		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	4/26/22 10:33	4/27/22 09:50		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/26/22 10:33	4/27/22 09:50		1.015	10.6	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/26/22 10:33	4/27/22 09:50		1	9.74	mg/L			
Silicon, Dissolved	4/26/22 10:33	4/27/22 09:50		1.015	4.55	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/26/22 10:33	4/27/22 09:50		1.015	3.35	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/18/22 10:35	4/19/22 17:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/18/22 10:35	4/19/22 17:26		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/18/22 10:35	4/19/22 17:26		1.015	0.000141	mg/L	0.000081	0.000203	J
* Barium, Total	4/18/22 10:35	4/19/22 17:26		1.015	0.0415	mg/L	0.000102	0.000203	
* Beryllium, Total	4/18/22 10:35	4/19/22 17:26		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/18/22 10:35	4/19/22 17:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/18/22 10:35	4/19/22 17:26		1.015	0.000523	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/18/22 10:35	4/19/22 17:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/18/22 10:35	4/19/22 17:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/18/22 10:35	4/19/22 17:26		1.015	0.00175	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/18/22 10:35	4/19/22 17:26		1.015	0.000210	mg/L	0.000102	0.000203	
* Potassium, Total	4/18/22 10:35	4/19/22 17:26		1.015	0.874	mg/L	0.169505	0.5075	

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.

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-13

Location Code: WMWGASG
Collected: 4/13/22 10:59
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07348

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/18/22 10:35	4/19/22 17:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/18/22 10:35	4/19/22 17:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	4/18/22 10:40	4/19/22 13:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/18/22 10:40	4/19/22 13:16		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/18/22 10:40	4/19/22 13:16		1.015	0.000126	mg/L	0.000081	0.000203	J
* Barium, Dissolved	4/18/22 10:40	4/19/22 13:16		1.015	0.0338	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/18/22 10:40	4/19/22 13:16		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/18/22 10:40	4/19/22 13:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/18/22 10:40	4/19/22 13:16		1.015	0.000492	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	4/18/22 10:40	4/19/22 13:16		1.015	0.0000716	mg/L	0.000068	0.000203	J
* Lead, Dissolved	4/18/22 10:40	4/19/22 13:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/18/22 10:40	4/19/22 13:16		1.015	Not Detected	mg/L	0.000152	0.000203	U
* Molybdenum, Dissolved	4/18/22 10:40	4/19/22 13:16		1.015	0.000164	mg/L	0.000102	0.000203	J
* Potassium, Dissolved	4/18/22 10:40	4/19/22 13:16		1.015	0.876	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/18/22 10:40	4/19/22 13:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/18/22 10:40	4/19/22 13:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/22/22 11:23	4/22/22 14:25		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/19/22 14:20	4/19/22 14:20		1	0.419	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	1/8/00 08:10	4/27/22 09:02		1	278	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/14/22 14:13	4/18/22 13:18		1	266	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	1/8/00 08:10	4/27/22 09:02		1	276	mg/L			
Carbonate Alkalinity, (calc.)	1/8/00 08:10	4/27/22 09:02		1	1.80	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	4/25/22 17:01	4/25/22 17:01		1	Not Detected	mg/L	1.00	2	U

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-13

Location Code: WMWGASG
Collected: 4/13/22 10:59
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07348

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/15/22 09:57	4/15/22 09:57		1	3.01	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/15/22 15:01	4/15/22 15:01		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/19/22 11:47	4/19/22 11:47		1	7.27	mg/L	0.6	2	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/13/22 10:56	4/13/22 10:56			459.11	uS/cm			FA
pH	4/13/22 10:56	4/13/22 10:56			6.84	SU			FA
Temperature	4/13/22 10:56	4/13/22 10:56			19.83	C			FA
Turbidity	4/13/22 10:56	4/13/22 10:56			0.85	NTU			FA
Sulfide	4/13/22 10:56	4/13/22 10:56			0	mg/L			FA

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/13/22 10:59
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-13

Laboratory ID Number: BC07348

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07353	Aluminum, Dissolved	mg/L	0.000593	0.010	0.100	0.0986	0.0979	0.102	0.0850 to 0.115	98.6	70.0 to 130	0.712	20.0
BC07352	Aluminum, Total	mg/L	0.000653	0.010	0.100	0.111	0.111	0.114	0.0850 to 0.115	111	70.0 to 130	0.00	20.0
BC07353	Antimony, Dissolved	mg/L	0.000184	0.00100	0.100	0.0905	0.0947	0.0867	0.0850 to 0.115	90.5	70.0 to 130	4.54	20.0
BC07352	Antimony, Total	mg/L	0.000310	0.00100	0.100	0.110	0.112	0.104	0.0850 to 0.115	110	70.0 to 130	1.80	20.0
BC07353	Arsenic, Dissolved	mg/L	0.0000278	0.000176	0.100	0.0970	0.0975	0.102	0.0850 to 0.115	95.9	70.0 to 130	0.514	20.0
BC07352	Arsenic, Total	mg/L	0.0000077	0.000176	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07353	Barium, Dissolved	mg/L	-0.0000005	0.00100	0.100	0.114	0.119	0.0908	0.0850 to 0.115	90.1	70.0 to 130	4.29	20.0
BC07352	Barium, Total	mg/L	-0.0000092	0.00100	0.100	0.132	0.134	0.110	0.0850 to 0.115	113	70.0 to 130	1.50	20.0
BC07353	Beryllium, Dissolved	mg/L	0.0000897	0.000880	0.100	0.0905	0.0879	0.0914	0.0850 to 0.115	90.5	70.0 to 130	2.91	20.0
BC07352	Beryllium, Total	mg/L	0.0000051	0.000880	0.100	0.106	0.107	0.109	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC07353	Boron, Dissolved	mg/L	0.000005	0.0650	1.00	1.02	1.03	1.03	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BC07352	Boron, Total	mg/L	-0.000208	0.0650	1.00	1.05	1.04	1.02	0.850 to 1.15	105	70.0 to 130	0.957	20.0
BC07353	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0980	0.0990	0.100	0.0850 to 0.115	98.0	70.0 to 130	1.02	20.0
BC07352	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.106	0.106	0.111	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BC07353	Calcium, Dissolved	mg/L	-0.00159	0.152	5.00	55.7	56.2	4.85	4.25 to 5.75	70.0	70.0 to 130	0.894	20.0
BC07352	Calcium, Total	mg/L	0.00105	0.152	5.00	76.3	75.2	4.89	4.25 to 5.75	102	70.0 to 130	1.45	20.0
BC07352	Chloride	mg/L	0.0507	1.00	10.0	13.9	13.7	9.83	9.00 to 11.0	106	80.0 to 120	1.45	20.0
BC07353	Chromium, Dissolved	mg/L	-0.0000240	0.000440	0.100	0.0967	0.0957	0.0979	0.0850 to 0.115	96.4	70.0 to 130	1.04	20.0
BC07352	Chromium, Total	mg/L	-0.0000857	0.000440	0.100	0.0987	0.0966	0.101	0.0850 to 0.115	98.7	70.0 to 130	2.15	20.0
BC07353	Cobalt, Dissolved	mg/L	-0.0000046	0.000147	0.100	0.0984	0.0972	0.0982	0.0850 to 0.115	98.3	70.0 to 130	1.23	20.0
BC07352	Cobalt, Total	mg/L	-0.0000744	0.000147	0.100	0.102	0.101	0.107	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07352	Fluoride	mg/L	-0.0248	0.125	2.50	2.63	2.65	2.62	2.25 to 2.75	102	80.0 to 120	0.758	20.0
BC07353	Iron, Dissolved	mg/L	0.000084	0.0176	0.2	0.498	0.509	0.207	0.170 to 0.230	97.5	70.0 to 130	2.18	20.0

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/13/22 10:59
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-13

Laboratory ID Number: BC07348

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07352	Iron, Total	mg/L	0.000618	0.0176	0.2	0.257	0.256	0.198	0.170 to 0.230	100	70.0 to 130	0.390	20.0
BC07353	Lead, Dissolved	mg/L	0.0000177	0.000147	0.100	0.102	0.0985	0.0986	0.0850 to 0.115	102	70.0 to 130	3.49	20.0
BC07352	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.114	0.114	0.114	0.0850 to 0.115	114	70.0 to 130	0.00	20.0
BC07353	Lithium, Dissolved	mg/L	-0.000113	0.0154	0.200	0.206	0.203	0.211	0.170 to 0.230	103	70.0 to 130	1.47	20.0
BC07352	Lithium, Total	mg/L	0.000204	0.0154	0.200	0.204	0.204	0.202	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BC07353	Magnesium, Dissolved	mg/L	-0.000969	0.0462	5.00	15.9	15.9	5.36	4.25 to 5.75	102	70.0 to 130	0.00	20.0
BC07352	Magnesium, Total	mg/L	0.00546	0.0462	5.00	14.2	14.3	5.18	4.25 to 5.75	101	70.0 to 130	0.702	20.0
BC07353	Manganese, Dissolved	mg/L	-0.0000191	0.0002	0.100	0.185	0.185	0.100	0.0850 to 0.115	95.6	70.0 to 130	0.00	20.0
BC07352	Manganese, Total	mg/L	-0.0000103	0.0002	0.100	0.421	0.424	0.109	0.0850 to 0.115	106	70.0 to 130	0.710	20.0
BC07352	Mercury, Total by CVAA	mg/L	0.000110	0.000500	0.004	0.00343	0.00348	0.00387	0.00340 to 0.00460	85.8	70.0 to 130	1.45	20.0
BC07353	Molybdenum, Dissolved	mg/L	0.0000130	0.0002	0.100	0.0992	0.0996	0.0949	0.0850 to 0.115	95.8	70.0 to 130	0.402	20.0
BC07352	Molybdenum, Total	mg/L	0.0000091	0.0002	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC07353	Potassium, Dissolved	mg/L	-0.000327	0.367	10.0	11.2	11.1	10.2	8.50 to 11.5	98.6	70.0 to 130	0.897	20.0
BC07352	Potassium, Total	mg/L	-0.00861	0.367	10.0	10.4	10.5	10.1	8.50 to 11.5	97.8	70.0 to 130	0.957	20.0
BC07353	Selenium, Dissolved	mg/L	0.0000335	0.00100	0.100	0.103	0.103	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC07352	Selenium, Total	mg/L	0.0000746	0.00100	0.100	0.104	0.106	0.108	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BC07353	Silicon, Dissolved	mg/L	-0.000426	0.0440	1.00	5.09	5.12	1.03	0.850 to 1.15	103	70.0 to 130	0.588	20.0
BC07352	Silicon, Total	mg/L	0.000115	0.0440	1.00	4.41	4.40	1.01	0.850 to 1.15	104	70.0 to 130	0.227	20.0
BC07353	Sodium, Dissolved	mg/L	0.000333	0.0660	5.00	6.60	6.52	5.39	4.25 to 5.75	105	70.0 to 130	1.22	20.0
BC07352	Sodium, Total	mg/L	0.00015	0.0660	5.00	10.3	10.3	5.16	4.25 to 5.75	104	70.0 to 130	0.00	20.0
BC07352	Sulfate	mg/L	0.0352	2.0	20.0	26.6	27.1	20.0	18.0 to 22.0	104	80.0 to 120	1.86	20.0
BC07353	Thallium, Dissolved	mg/L	0.0000153	0.000147	0.100	0.103	0.0998	0.0996	0.0850 to 0.115	103	70.0 to 130	3.16	20.0

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/13/22 10:59
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-13

Laboratory ID Number: BC07348

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07352	Thallium, Total	mg/L	-0.0000834	0.000147	0.100	0.109	0.113	0.111	0.0850 to 0.115	109	70.0 to 130	3.60	20.0
BC07352	Total Organic Carbon	mg/L	0.250	1.00	10.0	11.6	11.4	25.5		102	80.0 to 120	1.74	20.0

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

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASG
Sample Date: 4/13/22 10:59
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-13

Laboratory ID Number: BC07348

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07360	Alkalinity, Total as CaCO3	mg/L					241	50.9	45.0 to 55.0			7.76	10.0
BC07352	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.06	0.200	2.00	2.00	-0.051	1.96	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BC07348	Solids, Dissolved	mg/L	0.0000	25.0			259	48.0	40.0 to 60.0			2.67	10.0

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

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum Field Blank-2

Location Code: WMWGASGFB
Collected: 4/13/22 11:25
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07349

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/22/22 14:24	4/25/22 11:27		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/22/22 14:24	4/25/22 11:27		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	4/22/22 14:24	4/25/22 11:27		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/22/22 14:24	4/25/22 11:27		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/22/22 14:24	4/25/22 11:27		1.015	Not Detected	mg/L	0.021315	0.406	U
Silica, Total (calc.)	4/22/22 14:24	4/25/22 11:27		1	Not Detected	mg/L			
Silicon, Total	4/22/22 14:24	4/25/22 11:27		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	4/22/22 14:24	4/25/22 11:27		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/18/22 10:35	4/19/22 17:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/18/22 10:35	4/19/22 17:29		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/18/22 10:35	4/19/22 17:29		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	4/18/22 10:35	4/19/22 17:29		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Beryllium, Total	4/18/22 10:35	4/19/22 17:29		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/18/22 10:35	4/19/22 17:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/18/22 10:35	4/19/22 17:29		1.015	0.000640	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/18/22 10:35	4/19/22 17:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/18/22 10:35	4/19/22 17:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/18/22 10:35	4/19/22 17:29		1.015	Not Detected	mg/L	0.000152	0.000203	U
* Molybdenum, Total	4/18/22 10:35	4/19/22 17:29		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	4/18/22 10:35	4/19/22 17:29		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	4/18/22 10:35	4/19/22 17:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/18/22 10:35	4/19/22 17:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/22/22 11:23	4/22/22 14:28		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/19/22 14:22	4/19/22 14:22		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/14/22 14:13	4/18/22 13:18		1	Not Detected	mg/L		25	U

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

Comments:

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum Field Blank-2

Location Code: WMWGASGFB
Collected: 4/13/22 11:25
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07349

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		***Analyst: ELH***							
* Total Organic Carbon	4/25/22 17:21	4/25/22 17:21		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	4/15/22 09:58	4/15/22 09:58		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	4/15/22 15:02	4/15/22 15:02		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	4/19/22 11:48	4/19/22 11:48		1	Not Detected	mg/L	0.6	2	U

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

Comments:

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASGFB
Sample Date: 4/13/22 11:25
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum Field Blank-2

Laboratory ID Number: BC07349

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07352	Aluminum, Total	mg/L	0.000653	0.010	0.100	0.111	0.111	0.114	0.0850 to 0.115	111	70.0 to 130	0.00	20.0
BC07352	Antimony, Total	mg/L	0.000310	0.00100	0.100	0.110	0.112	0.104	0.0850 to 0.115	110	70.0 to 130	1.80	20.0
BC07352	Arsenic, Total	mg/L	0.0000077	0.000176	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07352	Barium, Total	mg/L	-0.0000092	0.00100	0.100	0.132	0.134	0.110	0.0850 to 0.115	113	70.0 to 130	1.50	20.0
BC07352	Beryllium, Total	mg/L	0.0000051	0.000880	0.100	0.106	0.107	0.109	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC07352	Boron, Total	mg/L	-0.000208	0.0650	1.00	1.05	1.04	1.02	0.850 to 1.15	105	70.0 to 130	0.957	20.0
BC07352	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.106	0.106	0.111	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BC07352	Calcium, Total	mg/L	0.00105	0.152	5.00	76.3	75.2	4.89	4.25 to 5.75	102	70.0 to 130	1.45	20.0
BC07352	Chloride	mg/L	0.0507	1.00	10.0	13.9	13.7	9.83	9.00 to 11.0	106	80.0 to 120	1.45	20.0
BC07352	Chromium, Total	mg/L	-0.0000857	0.000440	0.100	0.0987	0.0966	0.101	0.0850 to 0.115	98.7	70.0 to 130	2.15	20.0
BC07352	Cobalt, Total	mg/L	-0.0000744	0.000147	0.100	0.102	0.101	0.107	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07352	Fluoride	mg/L	-0.0248	0.125	2.50	2.63	2.65	2.62	2.25 to 2.75	102	80.0 to 120	0.758	20.0
BC07352	Iron, Total	mg/L	0.000618	0.0176	0.2	0.257	0.256	0.198	0.170 to 0.230	100	70.0 to 130	0.390	20.0
BC07352	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.114	0.114	0.114	0.0850 to 0.115	114	70.0 to 130	0.00	20.0
BC07352	Lithium, Total	mg/L	0.000204	0.0154	0.200	0.204	0.204	0.202	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BC07352	Magnesium, Total	mg/L	0.00546	0.0462	5.00	14.2	14.3	5.18	4.25 to 5.75	101	70.0 to 130	0.702	20.0
BC07352	Manganese, Total	mg/L	-0.0000103	0.0002	0.100	0.421	0.424	0.109	0.0850 to 0.115	106	70.0 to 130	0.710	20.0
BC07352	Mercury, Total by CVAA	mg/L	0.000110	0.000500	0.004	0.00343	0.00348	0.00387	0.00340 to 0.00460	85.8	70.0 to 130	1.45	20.0
BC07352	Molybdenum, Total	mg/L	0.0000091	0.0002	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC07352	Potassium, Total	mg/L	-0.00861	0.367	10.0	10.4	10.5	10.1	8.50 to 11.5	97.8	70.0 to 130	0.957	20.0
BC07352	Selenium, Total	mg/L	0.0000746	0.00100	0.100	0.104	0.106	0.108	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BC07352	Silicon, Total	mg/L	0.000115	0.0440	1.00	4.41	4.40	1.01	0.850 to 1.15	104	70.0 to 130	0.227	20.0
BC07352	Sodium, Total	mg/L	0.00015	0.0660	5.00	10.3	10.3	5.16	4.25 to 5.75	104	70.0 to 130	0.00	20.0

Comments:

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASGFB
Sample Date: 4/13/22 11:25
Customer ID:
Delivery Date: 4/14/22 11:53

Description:Gaston Gypsum Field Blank-2

Laboratory ID Number: BC07349

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07352	Sulfate	mg/L	0.0352	2.0	20.0	26.6	27.1	20.0	18.0 to 22.0	104	80.0 to 120	1.86	20.0
BC07352	Thallium, Total	mg/L	-0.0000834	0.000147	0.100	0.109	0.113	0.111	0.0850 to 0.115	109	70.0 to 130	3.60	20.0
BC07352	Total Organic Carbon	mg/L	0.250	1.00	10.0	11.6	11.4	25.5		102	80.0 to 120	1.74	20.0

Comments:

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASGFB
Sample Date: 4/13/22 11:25
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum Field Blank-2

Laboratory ID Number: BC07349

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07352	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.06	0.200	2.00	2.00	-0.051	1.96	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BC07357	Solids, Dissolved	mg/L	0.0000	25.0			270	48.0	40.0 to 60.0			0.00	10.0

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-5

Location Code: WMWGASG
Collected: 4/12/22 09:35
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07350

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/22/22 14:24	4/25/22 11:30		1.015	0.0481	mg/L	0.030000	0.1015	J
* Calcium, Total	4/22/22 14:24	4/25/22 13:17		10.15	94.1	mg/L	0.70035	4.06	
* Iron, Total	4/22/22 14:24	4/25/22 11:30		1.015	1.73	mg/L	0.008120	0.0406	
* Lithium, Total	4/22/22 14:24	4/25/22 11:30		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/22/22 14:24	4/25/22 11:30		1.015	21.1	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/22/22 14:24	4/25/22 11:30		1	10.8	mg/L			
Silicon, Total	4/22/22 14:24	4/25/22 11:30		1.015	5.04	mg/L	0.02030	0.25375	
* Sodium, Total	4/22/22 14:24	4/25/22 11:30		1.015	18.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	4/26/22 10:33	4/27/22 09:53		1.015	0.0477	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	4/26/22 10:33	4/27/22 11:14		10.15	89.2	mg/L	0.70035	4.06	
* Iron, Dissolved	4/26/22 10:33	4/27/22 09:53		1.015	1.70	mg/L	0.008120	0.0406	
* Lithium, Dissolved	4/26/22 10:33	4/27/22 09:53		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/26/22 10:33	4/27/22 09:53		1.015	21.4	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/26/22 10:33	4/27/22 09:53		1	10.8	mg/L			
Silicon, Dissolved	4/26/22 10:33	4/27/22 09:53		1.015	5.03	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/26/22 10:33	4/27/22 09:53		1.015	18.5	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/18/22 10:35	4/19/22 17:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/18/22 10:35	4/19/22 17:33		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/18/22 10:35	4/19/22 17:33		1.015	0.000896	mg/L	0.000081	0.000203	
* Barium, Total	4/18/22 10:35	4/19/22 17:33		1.015	0.0666	mg/L	0.000102	0.000203	
* Beryllium, Total	4/18/22 10:35	4/19/22 17:33		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/18/22 10:35	4/19/22 17:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/18/22 10:35	4/19/22 17:33		1.015	0.000287	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/18/22 10:35	4/19/22 17:33		1.015	0.00215	mg/L	0.000068	0.000203	
* Lead, Total	4/18/22 10:35	4/19/22 17:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/18/22 10:35	4/19/22 17:33		1.015	0.601	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/18/22 10:35	4/19/22 17:33		1.015	0.000121	mg/L	0.000102	0.000203	J
* Potassium, Total	4/18/22 10:35	4/19/22 17:33		1.015	0.297	mg/L	0.169505	0.5075	J

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-5

Location Code: WMWGASG
Collected: 4/12/22 09:35
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07350

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/18/22 10:35	4/19/22 17:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/18/22 10:35	4/19/22 17:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	4/18/22 10:40	4/19/22 13:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/18/22 10:40	4/19/22 13:20		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/18/22 10:40	4/19/22 13:20		1.015	0.000856	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/18/22 10:40	4/19/22 13:20		1.015	0.0569	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/18/22 10:40	4/19/22 13:20		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/18/22 10:40	4/19/22 13:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/18/22 10:40	4/19/22 13:20		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/18/22 10:40	4/19/22 13:20		1.015	0.00220	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/18/22 10:40	4/19/22 13:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/18/22 10:40	4/19/22 13:20		1.015	0.572	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/18/22 10:40	4/19/22 13:20		1.015	0.000139	mg/L	0.000102	0.000203	J
* Potassium, Dissolved	4/18/22 10:40	4/19/22 13:20		1.015	0.279	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	4/18/22 10:40	4/19/22 13:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/18/22 10:40	4/19/22 13:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/22/22 11:23	4/22/22 14:30		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/19/22 14:24	4/19/22 14:24		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	4/26/22 09:10	4/26/22 09:10		1	198	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/14/22 14:13	4/18/22 13:18		1	400	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	4/26/22 09:10	4/26/22 09:10		1	196	mg/L			
Carbonate Alkalinity, (calc.)	4/26/22 09:10	4/26/22 09:10		1	1.80	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	4/25/22 17:40	4/25/22 17:40		1	1.62	mg/L	1.00	2	J

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-5

Location Code: WMWGASG
Collected: 4/12/22 09:35
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07350

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/15/22 09:59	4/15/22 09:59		1	7.35	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/15/22 15:03	4/15/22 15:03		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/19/22 11:55	4/19/22 11:55		10	145	mg/L	6.0	20	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/12/22 09:31	4/12/22 09:31			599.71	uS/cm			FA
pH	4/12/22 09:31	4/12/22 09:31			6.32	SU			FA
Temperature	4/12/22 09:31	4/12/22 09:31			25.39	C			FA
Turbidity	4/12/22 09:31	4/12/22 09:31			1.24	NTU			FA
Sulfide	4/12/22 09:31	4/12/22 09:31			0	mg/L			FA

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/12/22 09:35
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-5

Laboratory ID Number: BC07350

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07353	Aluminum, Dissolved	mg/L	0.000593	0.010	0.100	0.0986	0.0979	0.102	0.0850 to 0.115	98.6	70.0 to 130	0.712	20.0
BC07352	Aluminum, Total	mg/L	0.000653	0.010	0.100	0.111	0.111	0.114	0.0850 to 0.115	111	70.0 to 130	0.00	20.0
BC07353	Antimony, Dissolved	mg/L	0.000184	0.00100	0.100	0.0905	0.0947	0.0867	0.0850 to 0.115	90.5	70.0 to 130	4.54	20.0
BC07352	Antimony, Total	mg/L	0.000310	0.00100	0.100	0.110	0.112	0.104	0.0850 to 0.115	110	70.0 to 130	1.80	20.0
BC07353	Arsenic, Dissolved	mg/L	0.0000278	0.000176	0.100	0.0970	0.0975	0.102	0.0850 to 0.115	95.9	70.0 to 130	0.514	20.0
BC07352	Arsenic, Total	mg/L	0.0000077	0.000176	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07353	Barium, Dissolved	mg/L	-0.0000005	0.00100	0.100	0.114	0.119	0.0908	0.0850 to 0.115	90.1	70.0 to 130	4.29	20.0
BC07352	Barium, Total	mg/L	-0.0000092	0.00100	0.100	0.132	0.134	0.110	0.0850 to 0.115	113	70.0 to 130	1.50	20.0
BC07353	Beryllium, Dissolved	mg/L	0.0000897	0.000880	0.100	0.0905	0.0879	0.0914	0.0850 to 0.115	90.5	70.0 to 130	2.91	20.0
BC07352	Beryllium, Total	mg/L	0.0000051	0.000880	0.100	0.106	0.107	0.109	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC07353	Boron, Dissolved	mg/L	0.000005	0.0650	1.00	1.02	1.03	1.03	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BC07352	Boron, Total	mg/L	-0.000208	0.0650	1.00	1.05	1.04	1.02	0.850 to 1.15	105	70.0 to 130	0.957	20.0
BC07353	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0980	0.0990	0.100	0.0850 to 0.115	98.0	70.0 to 130	1.02	20.0
BC07352	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.106	0.106	0.111	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BC07353	Calcium, Dissolved	mg/L	-0.00159	0.152	5.00	55.7	56.2	4.85	4.25 to 5.75	70.0	70.0 to 130	0.894	20.0
BC07352	Calcium, Total	mg/L	0.00105	0.152	5.00	76.3	75.2	4.89	4.25 to 5.75	102	70.0 to 130	1.45	20.0
BC07352	Chloride	mg/L	0.0507	1.00	10.0	13.9	13.7	9.83	9.00 to 11.0	106	80.0 to 120	1.45	20.0
BC07353	Chromium, Dissolved	mg/L	-0.0000240	0.000440	0.100	0.0967	0.0957	0.0979	0.0850 to 0.115	96.4	70.0 to 130	1.04	20.0
BC07352	Chromium, Total	mg/L	-0.0000857	0.000440	0.100	0.0987	0.0966	0.101	0.0850 to 0.115	98.7	70.0 to 130	2.15	20.0
BC07353	Cobalt, Dissolved	mg/L	-0.0000046	0.000147	0.100	0.0984	0.0972	0.0982	0.0850 to 0.115	98.3	70.0 to 130	1.23	20.0
BC07352	Cobalt, Total	mg/L	-0.0000744	0.000147	0.100	0.102	0.101	0.107	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07352	Fluoride	mg/L	-0.0248	0.125	2.50	2.63	2.65	2.62	2.25 to 2.75	102	80.0 to 120	0.758	20.0
BC07353	Iron, Dissolved	mg/L	0.000084	0.0176	0.2	0.498	0.509	0.207	0.170 to 0.230	97.5	70.0 to 130	2.18	20.0

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/12/22 09:35
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-5

Laboratory ID Number: BC07350

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07352	Iron, Total	mg/L	0.000618	0.0176	0.2	0.257	0.256	0.198	0.170 to 0.230	100	70.0 to 130	0.390	20.0
BC07353	Lead, Dissolved	mg/L	0.0000177	0.000147	0.100	0.102	0.0985	0.0986	0.0850 to 0.115	102	70.0 to 130	3.49	20.0
BC07352	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.114	0.114	0.114	0.0850 to 0.115	114	70.0 to 130	0.00	20.0
BC07353	Lithium, Dissolved	mg/L	-0.000113	0.0154	0.200	0.206	0.203	0.211	0.170 to 0.230	103	70.0 to 130	1.47	20.0
BC07352	Lithium, Total	mg/L	0.000204	0.0154	0.200	0.204	0.204	0.202	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BC07353	Magnesium, Dissolved	mg/L	-0.000969	0.0462	5.00	15.9	15.9	5.36	4.25 to 5.75	102	70.0 to 130	0.00	20.0
BC07352	Magnesium, Total	mg/L	0.00546	0.0462	5.00	14.2	14.3	5.18	4.25 to 5.75	101	70.0 to 130	0.702	20.0
BC07353	Manganese, Dissolved	mg/L	-0.0000191	0.0002	0.100	0.185	0.185	0.100	0.0850 to 0.115	95.6	70.0 to 130	0.00	20.0
BC07352	Manganese, Total	mg/L	-0.0000103	0.0002	0.100	0.421	0.424	0.109	0.0850 to 0.115	106	70.0 to 130	0.710	20.0
BC07352	Mercury, Total by CVAA	mg/L	0.000110	0.000500	0.004	0.00343	0.00348	0.00387	0.00340 to 0.00460	85.8	70.0 to 130	1.45	20.0
BC07353	Molybdenum, Dissolved	mg/L	0.0000130	0.0002	0.100	0.0992	0.0996	0.0949	0.0850 to 0.115	95.8	70.0 to 130	0.402	20.0
BC07352	Molybdenum, Total	mg/L	0.0000091	0.0002	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC07353	Potassium, Dissolved	mg/L	-0.000327	0.367	10.0	11.2	11.1	10.2	8.50 to 11.5	98.6	70.0 to 130	0.897	20.0
BC07352	Potassium, Total	mg/L	-0.00861	0.367	10.0	10.4	10.5	10.1	8.50 to 11.5	97.8	70.0 to 130	0.957	20.0
BC07353	Selenium, Dissolved	mg/L	0.0000335	0.00100	0.100	0.103	0.103	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC07352	Selenium, Total	mg/L	0.0000746	0.00100	0.100	0.104	0.106	0.108	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BC07353	Silicon, Dissolved	mg/L	-0.000426	0.0440	1.00	5.09	5.12	1.03	0.850 to 1.15	103	70.0 to 130	0.588	20.0
BC07352	Silicon, Total	mg/L	0.000115	0.0440	1.00	4.41	4.40	1.01	0.850 to 1.15	104	70.0 to 130	0.227	20.0
BC07353	Sodium, Dissolved	mg/L	0.000333	0.0660	5.00	6.60	6.52	5.39	4.25 to 5.75	105	70.0 to 130	1.22	20.0
BC07352	Sodium, Total	mg/L	0.00015	0.0660	5.00	10.3	10.3	5.16	4.25 to 5.75	104	70.0 to 130	0.00	20.0
BC07352	Sulfate	mg/L	0.0352	2.0	20.0	26.6	27.1	20.0	18.0 to 22.0	104	80.0 to 120	1.86	20.0
BC07353	Thallium, Dissolved	mg/L	0.0000153	0.000147	0.100	0.103	0.0998	0.0996	0.0850 to 0.115	103	70.0 to 130	3.16	20.0

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/12/22 09:35
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-5

Laboratory ID Number: BC07350

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07352	Thallium, Total	mg/L	-0.0000834	0.000147	0.100	0.109	0.113	0.111	0.0850 to 0.115	109	70.0 to 130	3.60	20.0
BC07352	Total Organic Carbon	mg/L	0.250	1.00	10.0	11.6	11.4	25.5		102	80.0 to 120	1.74	20.0

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

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASG
Sample Date: 4/12/22 09:35
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-5

Laboratory ID Number: BC07350

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07351	Alkalinity, Total as CaCO3	mg/L					2.96	50.8	45.0 to 55.0			8.45	10.0
BC07352	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.06	0.200	2.00	2.00	-0.051	1.96	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BC07357	Solids, Dissolved	mg/L	0.0000	25.0			270	48.0	40.0 to 60.0			0.00	10.0

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-6

Location Code: WMWGASG
Collected: 4/12/22 11:15
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07351

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/22/22 14:24	4/25/22 11:33		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/22/22 14:24	4/25/22 11:33		1.015	0.516	mg/L	0.070035	0.406	
* Iron, Total	4/22/22 14:24	4/25/22 11:33		1.015	0.0173	mg/L	0.008120	0.0406	J
* Lithium, Total	4/22/22 14:24	4/25/22 11:33		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/22/22 14:24	4/25/22 11:33		1.015	0.405	mg/L	0.021315	0.406	J
Silica, Total (calc.)	4/22/22 14:24	4/25/22 11:33		1	8.77	mg/L			
Silicon, Total	4/22/22 14:24	4/25/22 11:33		1.015	4.10	mg/L	0.02030	0.25375	
* Sodium, Total	4/22/22 14:24	4/25/22 11:33		1.015	2.65	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	4/26/22 10:33	4/27/22 09:56		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	4/26/22 10:33	4/27/22 09:56		1.015	0.517	mg/L	0.070035	0.406	
* Iron, Dissolved	4/26/22 10:33	4/27/22 09:56		1.015	0.0160	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	4/26/22 10:33	4/27/22 09:56		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/26/22 10:33	4/27/22 09:56		1.015	0.363	mg/L	0.021315	0.406	J
Silica, Dissolved (calc.)	4/26/22 10:33	4/27/22 09:56		1	8.90	mg/L			
Silicon, Dissolved	4/26/22 10:33	4/27/22 09:56		1.015	4.16	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/26/22 10:33	4/27/22 09:56		1.015	2.78	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/18/22 10:35	4/19/22 17:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/18/22 10:35	4/19/22 17:37		1.015	0.102	mg/L	0.006090	0.01015	
* Arsenic, Total	4/18/22 10:35	4/19/22 17:37		1.015	0.000109	mg/L	0.000081	0.000203	J
* Barium, Total	4/18/22 10:35	4/19/22 17:37		1.015	0.0214	mg/L	0.000102	0.000203	
* Beryllium, Total	4/18/22 10:35	4/19/22 17:37		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/18/22 10:35	4/19/22 17:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/18/22 10:35	4/19/22 17:37		1.015	0.000221	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/18/22 10:35	4/19/22 17:37		1.015	0.000665	mg/L	0.000068	0.000203	
* Lead, Total	4/18/22 10:35	4/19/22 17:37		1.015	0.000396	mg/L	0.000068	0.000203	
* Manganese, Total	4/18/22 10:35	4/19/22 17:37		1.015	0.00805	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/18/22 10:35	4/19/22 17:37		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	4/18/22 10:35	4/19/22 17:37		1.015	Not Detected	mg/L	0.169505	0.5075	U

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-6

Location Code: WMWGASG
Collected: 4/12/22 11:15
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07351

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/18/22 10:35	4/19/22 17:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/18/22 10:35	4/19/22 17:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	4/18/22 10:40	4/19/22 13:24		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/18/22 10:40	4/19/22 13:24		1.015	0.0203	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	4/18/22 10:40	4/19/22 13:24		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	4/18/22 10:40	4/19/22 13:24		1.015	0.0157	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/18/22 10:40	4/19/22 13:24		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/18/22 10:40	4/19/22 13:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/18/22 10:40	4/19/22 13:24		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/18/22 10:40	4/19/22 13:24		1.015	0.000664	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/18/22 10:40	4/19/22 13:24		1.015	0.000291	mg/L	0.000068	0.000203	
* Manganese, Dissolved	4/18/22 10:40	4/19/22 13:24		1.015	0.00676	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/18/22 10:40	4/19/22 13:24		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	4/18/22 10:40	4/19/22 13:24		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Dissolved	4/18/22 10:40	4/19/22 13:24		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/18/22 10:40	4/19/22 13:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/22/22 11:23	4/22/22 14:32		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/19/22 14:26	4/19/22 14:26		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	4/26/22 09:31	4/26/22 09:31		1	2.72	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/14/22 14:13	4/18/22 13:18		1	Not Detected	mg/L		25	U
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	4/26/22 09:31	4/26/22 09:31		1	2.72	mg/L			
Carbonate Alkalinity, (calc.)	4/26/22 09:31	4/26/22 09:31		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	4/25/22 17:58	4/25/22 17:58		1	Not Detected	mg/L	1.00	2	U

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-6

Location Code: WMWGASG
Collected: 4/12/22 11:15
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07351

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/15/22 10:00	4/15/22 10:00		1	3.38	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/15/22 15:04	4/15/22 15:04		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/19/22 11:50	4/19/22 11:50		1	Not Detected	mg/L	0.6	2	U
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/12/22 11:11	4/12/22 11:11			32.70	uS/cm			FA
pH	4/12/22 11:11	4/12/22 11:11			4.38	SU			FA
Temperature	4/12/22 11:11	4/12/22 11:11			27.16	C			FA
Turbidity	4/12/22 11:11	4/12/22 11:11			1.39	NTU			FA
Sulfide	4/12/22 11:11	4/12/22 11:11			0	mg/L			FA

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/12/22 11:15
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-6

Laboratory ID Number: BC07351

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07353	Aluminum, Dissolved	mg/L	0.000593	0.010	0.100	0.0986	0.0979	0.102	0.0850 to 0.115	98.6	70.0 to 130	0.712	20.0
BC07352	Aluminum, Total	mg/L	0.000653	0.010	0.100	0.111	0.111	0.114	0.0850 to 0.115	111	70.0 to 130	0.00	20.0
BC07353	Antimony, Dissolved	mg/L	0.000184	0.00100	0.100	0.0905	0.0947	0.0867	0.0850 to 0.115	90.5	70.0 to 130	4.54	20.0
BC07352	Antimony, Total	mg/L	0.000310	0.00100	0.100	0.110	0.112	0.104	0.0850 to 0.115	110	70.0 to 130	1.80	20.0
BC07353	Arsenic, Dissolved	mg/L	0.0000278	0.000176	0.100	0.0970	0.0975	0.102	0.0850 to 0.115	95.9	70.0 to 130	0.514	20.0
BC07352	Arsenic, Total	mg/L	0.0000077	0.000176	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07353	Barium, Dissolved	mg/L	-0.0000005	0.00100	0.100	0.114	0.119	0.0908	0.0850 to 0.115	90.1	70.0 to 130	4.29	20.0
BC07352	Barium, Total	mg/L	-0.0000092	0.00100	0.100	0.132	0.134	0.110	0.0850 to 0.115	113	70.0 to 130	1.50	20.0
BC07353	Beryllium, Dissolved	mg/L	0.0000897	0.000880	0.100	0.0905	0.0879	0.0914	0.0850 to 0.115	90.5	70.0 to 130	2.91	20.0
BC07352	Beryllium, Total	mg/L	0.0000051	0.000880	0.100	0.106	0.107	0.109	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC07353	Boron, Dissolved	mg/L	0.000005	0.0650	1.00	1.02	1.03	1.03	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BC07352	Boron, Total	mg/L	-0.000208	0.0650	1.00	1.05	1.04	1.02	0.850 to 1.15	105	70.0 to 130	0.957	20.0
BC07353	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0980	0.0990	0.100	0.0850 to 0.115	98.0	70.0 to 130	1.02	20.0
BC07352	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.106	0.106	0.111	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BC07353	Calcium, Dissolved	mg/L	-0.00159	0.152	5.00	55.7	56.2	4.85	4.25 to 5.75	70.0	70.0 to 130	0.894	20.0
BC07352	Calcium, Total	mg/L	0.00105	0.152	5.00	76.3	75.2	4.89	4.25 to 5.75	102	70.0 to 130	1.45	20.0
BC07352	Chloride	mg/L	0.0507	1.00	10.0	13.9	13.7	9.83	9.00 to 11.0	106	80.0 to 120	1.45	20.0
BC07353	Chromium, Dissolved	mg/L	-0.0000240	0.000440	0.100	0.0967	0.0957	0.0979	0.0850 to 0.115	96.4	70.0 to 130	1.04	20.0
BC07352	Chromium, Total	mg/L	-0.0000857	0.000440	0.100	0.0987	0.0966	0.101	0.0850 to 0.115	98.7	70.0 to 130	2.15	20.0
BC07353	Cobalt, Dissolved	mg/L	-0.0000046	0.000147	0.100	0.0984	0.0972	0.0982	0.0850 to 0.115	98.3	70.0 to 130	1.23	20.0
BC07352	Cobalt, Total	mg/L	-0.0000744	0.000147	0.100	0.102	0.101	0.107	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07352	Fluoride	mg/L	-0.0248	0.125	2.50	2.63	2.65	2.62	2.25 to 2.75	102	80.0 to 120	0.758	20.0
BC07353	Iron, Dissolved	mg/L	0.000084	0.0176	0.2	0.498	0.509	0.207	0.170 to 0.230	97.5	70.0 to 130	2.18	20.0

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/12/22 11:15
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-6

Laboratory ID Number: BC07351

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07352	Iron, Total	mg/L	0.000618	0.0176	0.2	0.257	0.256	0.198	0.170 to 0.230	100	70.0 to 130	0.390	20.0
BC07353	Lead, Dissolved	mg/L	0.0000177	0.000147	0.100	0.102	0.0985	0.0986	0.0850 to 0.115	102	70.0 to 130	3.49	20.0
BC07352	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.114	0.114	0.114	0.0850 to 0.115	114	70.0 to 130	0.00	20.0
BC07353	Lithium, Dissolved	mg/L	-0.000113	0.0154	0.200	0.206	0.203	0.211	0.170 to 0.230	103	70.0 to 130	1.47	20.0
BC07352	Lithium, Total	mg/L	0.000204	0.0154	0.200	0.204	0.204	0.202	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BC07353	Magnesium, Dissolved	mg/L	-0.000969	0.0462	5.00	15.9	15.9	5.36	4.25 to 5.75	102	70.0 to 130	0.00	20.0
BC07352	Magnesium, Total	mg/L	0.00546	0.0462	5.00	14.2	14.3	5.18	4.25 to 5.75	101	70.0 to 130	0.702	20.0
BC07353	Manganese, Dissolved	mg/L	-0.0000191	0.0002	0.100	0.185	0.185	0.100	0.0850 to 0.115	95.6	70.0 to 130	0.00	20.0
BC07352	Manganese, Total	mg/L	-0.0000103	0.0002	0.100	0.421	0.424	0.109	0.0850 to 0.115	106	70.0 to 130	0.710	20.0
BC07352	Mercury, Total by CVAA	mg/L	0.000110	0.000500	0.004	0.00343	0.00348	0.00387	0.00340 to 0.00460	85.8	70.0 to 130	1.45	20.0
BC07353	Molybdenum, Dissolved	mg/L	0.0000130	0.0002	0.100	0.0992	0.0996	0.0949	0.0850 to 0.115	95.8	70.0 to 130	0.402	20.0
BC07352	Molybdenum, Total	mg/L	0.0000091	0.0002	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC07353	Potassium, Dissolved	mg/L	-0.000327	0.367	10.0	11.2	11.1	10.2	8.50 to 11.5	98.6	70.0 to 130	0.897	20.0
BC07352	Potassium, Total	mg/L	-0.00861	0.367	10.0	10.4	10.5	10.1	8.50 to 11.5	97.8	70.0 to 130	0.957	20.0
BC07353	Selenium, Dissolved	mg/L	0.0000335	0.00100	0.100	0.103	0.103	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC07352	Selenium, Total	mg/L	0.0000746	0.00100	0.100	0.104	0.106	0.108	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BC07353	Silicon, Dissolved	mg/L	-0.000426	0.0440	1.00	5.09	5.12	1.03	0.850 to 1.15	103	70.0 to 130	0.588	20.0
BC07352	Silicon, Total	mg/L	0.000115	0.0440	1.00	4.41	4.40	1.01	0.850 to 1.15	104	70.0 to 130	0.227	20.0
BC07353	Sodium, Dissolved	mg/L	0.000333	0.0660	5.00	6.60	6.52	5.39	4.25 to 5.75	105	70.0 to 130	1.22	20.0
BC07352	Sodium, Total	mg/L	0.00015	0.0660	5.00	10.3	10.3	5.16	4.25 to 5.75	104	70.0 to 130	0.00	20.0
BC07352	Sulfate	mg/L	0.0352	2.0	20.0	26.6	27.1	20.0	18.0 to 22.0	104	80.0 to 120	1.86	20.0
BC07353	Thallium, Dissolved	mg/L	0.0000153	0.000147	0.100	0.103	0.0998	0.0996	0.0850 to 0.115	103	70.0 to 130	3.16	20.0

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/12/22 11:15
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-6

Laboratory ID Number: BC07351

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07352	Thallium, Total	mg/L	-0.0000834	0.000147	0.100	0.109	0.113	0.111	0.0850 to 0.115	109	70.0 to 130	3.60	20.0
BC07352	Total Organic Carbon	mg/L	0.250	1.00	10.0	11.6	11.4	25.5		102	80.0 to 120	1.74	20.0

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

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASG
Sample Date: 4/12/22 11:15
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-6

Laboratory ID Number: BC07351

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07351	Alkalinity, Total as CaCO3	mg/L					2.96	50.8	45.0 to 55.0			8.45	10.0
BC07352	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.06	0.200	2.00	2.00	-0.051	1.96	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BC07357	Solids, Dissolved	mg/L	0.0000	25.0			270	48.0	40.0 to 60.0			0.00	10.0

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

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-7

Location Code: WMWGASG
Collected: 4/12/22 12:55
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07352

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/22/22 14:24	4/25/22 11:36		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/22/22 14:24	4/25/22 13:20		10.15	71.2	mg/L	0.70035	4.06	
* Iron, Total	4/22/22 14:24	4/25/22 11:36		1.015	0.0560	mg/L	0.008120	0.0406	
* Lithium, Total	4/22/22 14:24	4/25/22 11:36		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/22/22 14:24	4/25/22 11:36		1.015	9.14	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/22/22 14:24	4/25/22 11:36		1	7.21	mg/L			
Silicon, Total	4/22/22 14:24	4/25/22 11:36		1.015	3.37	mg/L	0.02030	0.25375	
* Sodium, Total	4/22/22 14:24	4/25/22 11:36		1.015	5.12	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	4/26/22 10:33	4/27/22 09:59		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	4/26/22 10:33	4/27/22 11:18		10.15	63.6	mg/L	0.70035	4.06	
* Iron, Dissolved	4/26/22 10:33	4/27/22 09:59		1.015	0.0650	mg/L	0.008120	0.0406	
* Lithium, Dissolved	4/26/22 10:33	4/27/22 09:59		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/26/22 10:33	4/27/22 09:59		1.015	9.15	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/26/22 10:33	4/27/22 09:59		1	7.40	mg/L			
Silicon, Dissolved	4/26/22 10:33	4/27/22 09:59		1.015	3.46	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/26/22 10:33	4/27/22 09:59		1.015	5.39	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/18/22 10:35	4/19/22 17:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/18/22 10:35	4/19/22 17:40		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/18/22 10:35	4/19/22 17:40		1.015	0.000431	mg/L	0.000081	0.000203	
* Barium, Total	4/18/22 10:35	4/19/22 17:40		1.015	0.0192	mg/L	0.000102	0.000203	
* Beryllium, Total	4/18/22 10:35	4/19/22 17:40		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/18/22 10:35	4/19/22 17:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/18/22 10:35	4/19/22 17:40		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/18/22 10:35	4/19/22 17:40		1.015	0.000601	mg/L	0.000068	0.000203	
* Lead, Total	4/18/22 10:35	4/19/22 17:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/18/22 10:35	4/19/22 17:40		1.015	0.315	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/18/22 10:35	4/19/22 17:40		1.015	0.000272	mg/L	0.000102	0.000203	
* Potassium, Total	4/18/22 10:35	4/19/22 17:40		1.015	0.619	mg/L	0.169505	0.5075	

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.

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-7

Location Code: WMWGASG
Collected: 4/12/22 12:55
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07352

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/18/22 10:35	4/19/22 17:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/18/22 10:35	4/19/22 17:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	4/18/22 10:40	4/19/22 13:27		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/18/22 10:40	4/19/22 13:27		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/18/22 10:40	4/19/22 13:27		1.015	0.000492	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/18/22 10:40	4/19/22 13:27		1.015	0.0161	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/18/22 10:40	4/19/22 13:27		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/18/22 10:40	4/19/22 13:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/18/22 10:40	4/19/22 13:27		1.015	0.000222	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	4/18/22 10:40	4/19/22 13:27		1.015	0.000714	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/18/22 10:40	4/19/22 13:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/18/22 10:40	4/19/22 13:27		1.015	0.323	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/18/22 10:40	4/19/22 13:27		1.015	0.000282	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/18/22 10:40	4/19/22 13:27		1.015	0.618	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/18/22 10:40	4/19/22 13:27		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/18/22 10:40	4/19/22 13:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/22/22 11:23	4/22/22 14:35		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/19/22 14:28	4/19/22 14:28		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	4/26/22 10:56	4/26/22 13:12		1	206	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/14/22 14:13	4/18/22 13:18		1	214	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	4/26/22 10:56	4/26/22 13:12		1	205	mg/L			
Carbonate Alkalinity, (calc.)	4/26/22 10:56	4/26/22 13:12		1	0.902	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	4/25/22 18:18	4/25/22 18:18		1	1.45	mg/L	1.00	2	J

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-7

Location Code: WMWGASG
Collected: 4/12/22 12:55
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07352

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/15/22 10:02	4/15/22 10:02		1	3.29	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/15/22 15:06	4/15/22 15:06		1	0.0724	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/19/22 11:51	4/19/22 11:51		1	5.75	mg/L	0.6	2	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/12/22 12:53	4/12/22 12:53			379.98	uS/cm			FA
pH	4/12/22 12:53	4/12/22 12:53			6.73	SU			FA
Temperature	4/12/22 12:53	4/12/22 12:53			30.35	C			FA
Turbidity	4/12/22 12:53	4/12/22 12:53			1.05	NTU			FA
Sulfide	4/12/22 12:52	4/12/22 12:52			0	mg/L			FA

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/12/22 12:55
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-7

Laboratory ID Number: BC07352

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07353	Aluminum, Dissolved	mg/L	0.000593	0.010	0.100	0.0986	0.0979	0.102	0.0850 to 0.115	98.6	70.0 to 130	0.712	20.0
BC07352	Aluminum, Total	mg/L	0.000653	0.010	0.100	0.111	0.111	0.114	0.0850 to 0.115	111	70.0 to 130	0.00	20.0
BC07353	Antimony, Dissolved	mg/L	0.000184	0.00100	0.100	0.0905	0.0947	0.0867	0.0850 to 0.115	90.5	70.0 to 130	4.54	20.0
BC07352	Antimony, Total	mg/L	0.000310	0.00100	0.100	0.110	0.112	0.104	0.0850 to 0.115	110	70.0 to 130	1.80	20.0
BC07353	Arsenic, Dissolved	mg/L	0.0000278	0.000176	0.100	0.0970	0.0975	0.102	0.0850 to 0.115	95.9	70.0 to 130	0.514	20.0
BC07352	Arsenic, Total	mg/L	0.0000077	0.000176	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07353	Barium, Dissolved	mg/L	-0.0000005	0.00100	0.100	0.114	0.119	0.0908	0.0850 to 0.115	90.1	70.0 to 130	4.29	20.0
BC07352	Barium, Total	mg/L	-0.0000092	0.00100	0.100	0.132	0.134	0.110	0.0850 to 0.115	113	70.0 to 130	1.50	20.0
BC07353	Beryllium, Dissolved	mg/L	0.0000897	0.000880	0.100	0.0905	0.0879	0.0914	0.0850 to 0.115	90.5	70.0 to 130	2.91	20.0
BC07352	Beryllium, Total	mg/L	0.0000051	0.000880	0.100	0.106	0.107	0.109	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC07353	Boron, Dissolved	mg/L	0.000005	0.0650	1.00	1.02	1.03	1.03	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BC07352	Boron, Total	mg/L	-0.000208	0.0650	1.00	1.05	1.04	1.02	0.850 to 1.15	105	70.0 to 130	0.957	20.0
BC07353	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0980	0.0990	0.100	0.0850 to 0.115	98.0	70.0 to 130	1.02	20.0
BC07352	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.106	0.106	0.111	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BC07353	Calcium, Dissolved	mg/L	-0.00159	0.152	5.00	55.7	56.2	4.85	4.25 to 5.75	70.0	70.0 to 130	0.894	20.0
BC07352	Calcium, Total	mg/L	0.00105	0.152	5.00	76.3	75.2	4.89	4.25 to 5.75	102	70.0 to 130	1.45	20.0
BC07352	Chloride	mg/L	0.0507	1.00	10.0	13.9	13.7	9.83	9.00 to 11.0	106	80.0 to 120	1.45	20.0
BC07353	Chromium, Dissolved	mg/L	-0.0000240	0.000440	0.100	0.0967	0.0957	0.0979	0.0850 to 0.115	96.4	70.0 to 130	1.04	20.0
BC07352	Chromium, Total	mg/L	-0.0000857	0.000440	0.100	0.0987	0.0966	0.101	0.0850 to 0.115	98.7	70.0 to 130	2.15	20.0
BC07353	Cobalt, Dissolved	mg/L	-0.0000046	0.000147	0.100	0.0984	0.0972	0.0982	0.0850 to 0.115	98.3	70.0 to 130	1.23	20.0
BC07352	Cobalt, Total	mg/L	-0.0000744	0.000147	0.100	0.102	0.101	0.107	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07352	Fluoride	mg/L	-0.0248	0.125	2.50	2.63	2.65	2.62	2.25 to 2.75	102	80.0 to 120	0.758	20.0
BC07353	Iron, Dissolved	mg/L	0.000084	0.0176	0.2	0.498	0.509	0.207	0.170 to 0.230	97.5	70.0 to 130	2.18	20.0

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/12/22 12:55
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-7

Laboratory ID Number: BC07352

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07352	Iron, Total	mg/L	0.000618	0.0176	0.2	0.257	0.256	0.198	0.170 to 0.230	100	70.0 to 130	0.390	20.0
BC07353	Lead, Dissolved	mg/L	0.0000177	0.000147	0.100	0.102	0.0985	0.0986	0.0850 to 0.115	102	70.0 to 130	3.49	20.0
BC07352	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.114	0.114	0.114	0.0850 to 0.115	114	70.0 to 130	0.00	20.0
BC07353	Lithium, Dissolved	mg/L	-0.000113	0.0154	0.200	0.206	0.203	0.211	0.170 to 0.230	103	70.0 to 130	1.47	20.0
BC07352	Lithium, Total	mg/L	0.000204	0.0154	0.200	0.204	0.204	0.202	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BC07353	Magnesium, Dissolved	mg/L	-0.000969	0.0462	5.00	15.9	15.9	5.36	4.25 to 5.75	102	70.0 to 130	0.00	20.0
BC07352	Magnesium, Total	mg/L	0.00546	0.0462	5.00	14.2	14.3	5.18	4.25 to 5.75	101	70.0 to 130	0.702	20.0
BC07353	Manganese, Dissolved	mg/L	-0.0000191	0.0002	0.100	0.185	0.185	0.100	0.0850 to 0.115	95.6	70.0 to 130	0.00	20.0
BC07352	Manganese, Total	mg/L	-0.0000103	0.0002	0.100	0.421	0.424	0.109	0.0850 to 0.115	106	70.0 to 130	0.710	20.0
BC07352	Mercury, Total by CVAA	mg/L	0.000110	0.000500	0.004	0.00343	0.00348	0.00387	0.00340 to 0.00460	85.8	70.0 to 130	1.45	20.0
BC07353	Molybdenum, Dissolved	mg/L	0.0000130	0.0002	0.100	0.0992	0.0996	0.0949	0.0850 to 0.115	95.8	70.0 to 130	0.402	20.0
BC07352	Molybdenum, Total	mg/L	0.0000091	0.0002	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC07353	Potassium, Dissolved	mg/L	-0.000327	0.367	10.0	11.2	11.1	10.2	8.50 to 11.5	98.6	70.0 to 130	0.897	20.0
BC07352	Potassium, Total	mg/L	-0.00861	0.367	10.0	10.4	10.5	10.1	8.50 to 11.5	97.8	70.0 to 130	0.957	20.0
BC07353	Selenium, Dissolved	mg/L	0.0000335	0.00100	0.100	0.103	0.103	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC07352	Selenium, Total	mg/L	0.0000746	0.00100	0.100	0.104	0.106	0.108	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BC07353	Silicon, Dissolved	mg/L	-0.000426	0.0440	1.00	5.09	5.12	1.03	0.850 to 1.15	103	70.0 to 130	0.588	20.0
BC07352	Silicon, Total	mg/L	0.000115	0.0440	1.00	4.41	4.40	1.01	0.850 to 1.15	104	70.0 to 130	0.227	20.0
BC07353	Sodium, Dissolved	mg/L	0.000333	0.0660	5.00	6.60	6.52	5.39	4.25 to 5.75	105	70.0 to 130	1.22	20.0
BC07352	Sodium, Total	mg/L	0.00015	0.0660	5.00	10.3	10.3	5.16	4.25 to 5.75	104	70.0 to 130	0.00	20.0
BC07352	Sulfate	mg/L	0.0352	2.0	20.0	26.6	27.1	20.0	18.0 to 22.0	104	80.0 to 120	1.86	20.0
BC07353	Thallium, Dissolved	mg/L	0.0000153	0.000147	0.100	0.103	0.0998	0.0996	0.0850 to 0.115	103	70.0 to 130	3.16	20.0

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/12/22 12:55
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-7

Laboratory ID Number: BC07352

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07352	Thallium, Total	mg/L	-0.0000834	0.000147	0.100	0.109	0.113	0.111	0.0850 to 0.115	109	70.0 to 130	3.60	20.0
BC07352	Total Organic Carbon	mg/L	0.250	1.00	10.0	11.6	11.4	25.5		102	80.0 to 120	1.74	20.0

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

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASG
Sample Date: 4/12/22 12:55
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-7

Laboratory ID Number: BC07352

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07355	Alkalinity, Total as CaCO3	mg/L					143	50.8	45.0 to 55.0			3.44	10.0
BC07352	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.06	0.200	2.00	2.00	-0.051	1.96	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BC07357	Solids, Dissolved	mg/L	0.0000	25.0			270	48.0	40.0 to 60.0			0.00	10.0

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

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-8

Location Code: WMWGASG
Collected: 4/12/22 14:28
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07353

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/22/22 14:24	4/25/22 11:50		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/22/22 14:24	4/25/22 13:37		10.15	54.4	mg/L	0.70035	4.06	
* Iron, Total	4/22/22 14:24	4/25/22 11:50		1.015	0.404	mg/L	0.008120	0.0406	
* Lithium, Total	4/22/22 14:24	4/25/22 11:50		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/22/22 14:24	4/25/22 11:50		1.015	10.5	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/22/22 14:24	4/25/22 11:50		1	8.67	mg/L			
Silicon, Total	4/22/22 14:24	4/25/22 11:50		1.015	4.05	mg/L	0.02030	0.25375	
* Sodium, Total	4/22/22 14:24	4/25/22 11:50		1.015	1.33	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	4/26/22 10:33	4/27/22 10:01		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	4/26/22 10:33	4/27/22 11:21		10.15	52.2	mg/L	0.70035	4.06	
* Iron, Dissolved	4/26/22 10:33	4/27/22 10:01		1.015	0.303	mg/L	0.008120	0.0406	
* Lithium, Dissolved	4/26/22 10:33	4/27/22 10:01		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/26/22 10:33	4/27/22 10:01		1.015	10.8	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/26/22 10:33	4/27/22 10:01		1	8.69	mg/L			
Silicon, Dissolved	4/26/22 10:33	4/27/22 10:01		1.015	4.06	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/26/22 10:33	4/27/22 10:01		1.015	1.36	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/18/22 10:35	4/19/22 18:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/18/22 10:35	4/19/22 18:02		1.015	0.0152	mg/L	0.006090	0.01015	
* Arsenic, Total	4/18/22 10:35	4/19/22 18:02		1.015	0.00124	mg/L	0.000081	0.000203	
* Barium, Total	4/18/22 10:35	4/19/22 18:02		1.015	0.0294	mg/L	0.000102	0.000203	
* Beryllium, Total	4/18/22 10:35	4/19/22 18:02		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/18/22 10:35	4/19/22 18:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/18/22 10:35	4/19/22 18:02		1.015	0.000346	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/18/22 10:35	4/19/22 18:02		1.015	0.0000746	mg/L	0.000068	0.000203	J
* Lead, Total	4/18/22 10:35	4/19/22 18:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/18/22 10:35	4/19/22 18:02		1.015	0.116	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/18/22 10:35	4/19/22 18:02		1.015	0.00347	mg/L	0.000102	0.000203	
* Potassium, Total	4/18/22 10:35	4/19/22 18:02		1.015	1.36	mg/L	0.169505	0.5075	

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.

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-8

Location Code: WMWGASG
Collected: 4/12/22 14:28
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07353

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/18/22 10:35	4/19/22 18:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/18/22 10:35	4/19/22 18:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	4/18/22 10:40	4/19/22 13:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/18/22 10:40	4/19/22 13:31		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/18/22 10:40	4/19/22 13:31		1.015	0.00110	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/18/22 10:40	4/19/22 13:31		1.015	0.0239	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/18/22 10:40	4/19/22 13:31		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/18/22 10:40	4/19/22 13:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/18/22 10:40	4/19/22 13:31		1.015	0.000263	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	4/18/22 10:40	4/19/22 13:31		1.015	0.000112	mg/L	0.000068	0.000203	J
* Lead, Dissolved	4/18/22 10:40	4/19/22 13:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/18/22 10:40	4/19/22 13:31		1.015	0.0894	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/18/22 10:40	4/19/22 13:31		1.015	0.00343	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/18/22 10:40	4/19/22 13:31		1.015	1.34	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/18/22 10:40	4/19/22 13:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/18/22 10:40	4/19/22 13:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/22/22 11:23	4/22/22 14:47		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/19/22 14:37	4/19/22 14:37		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	4/26/22 10:56	4/26/22 13:12		1	182	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/14/22 14:13	4/18/22 13:18		1	176	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	4/26/22 10:56	4/26/22 13:12		1	179	mg/L			
Carbonate Alkalinity, (calc.)	4/26/22 10:56	4/26/22 13:12		1	2.44	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	4/25/22 19:43	4/25/22 19:43		1	Not Detected	mg/L	1.00	2	U

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-8

Location Code: WMWGASG
Collected: 4/12/22 14:28
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07353

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/15/22 10:14	4/15/22 10:14		1	1.54	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/15/22 15:18	4/15/22 15:18		1	0.0621	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/19/22 12:06	4/19/22 12:06		1	3.13	mg/L	0.6	2	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/12/22 14:24	4/12/22 14:24			294.59	uS/cm			FA
pH	4/12/22 14:24	4/12/22 14:24			7.22	SU			FA
Temperature	4/12/22 14:24	4/12/22 14:24			28.08	C			FA
Turbidity	4/12/22 14:24	4/12/22 14:24			2.91	NTU			FA
Sulfide	4/12/22 14:24	4/12/22 14:24			0	mg/L			FA

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/12/22 14:28
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-8

Laboratory ID Number: BC07353

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07353	Aluminum, Dissolved	mg/L	0.000593	0.010	0.100	0.0986	0.0979	0.102	0.0850 to 0.115	98.6	70.0 to 130	0.712	20.0
BC07361	Aluminum, Total	mg/L	0.000653	0.010	0.100	0.106	0.109	0.114	0.0850 to 0.115	106	70.0 to 130	2.79	20.0
BC07353	Antimony, Dissolved	mg/L	0.000184	0.00100	0.100	0.0905	0.0947	0.0867	0.0850 to 0.115	90.5	70.0 to 130	4.54	20.0
BC07361	Antimony, Total	mg/L	0.000310	0.00100	0.100	0.104	0.108	0.104	0.0850 to 0.115	104	70.0 to 130	3.77	20.0
BC07353	Arsenic, Dissolved	mg/L	0.0000278	0.000176	0.100	0.0970	0.0975	0.102	0.0850 to 0.115	95.9	70.0 to 130	0.514	20.0
BC07361	Arsenic, Total	mg/L	0.0000077	0.000176	0.100	0.0993	0.101	0.104	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0
BC07353	Barium, Dissolved	mg/L	-0.0000005	0.00100	0.100	0.114	0.119	0.0908	0.0850 to 0.115	90.1	70.0 to 130	4.29	20.0
BC07361	Barium, Total	mg/L	-0.0000092	0.00100	0.100	0.112	0.114	0.110	0.0850 to 0.115	112	70.0 to 130	1.77	20.0
BC07353	Beryllium, Dissolved	mg/L	0.0000897	0.000880	0.100	0.0905	0.0879	0.0914	0.0850 to 0.115	90.5	70.0 to 130	2.91	20.0
BC07361	Beryllium, Total	mg/L	0.0000051	0.000880	0.100	0.106	0.105	0.109	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BC07353	Boron, Dissolved	mg/L	0.000005	0.0650	1.00	1.02	1.03	1.03	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BC07361	Boron, Total	mg/L	-0.000208	0.0650	1.00	1.01	1.01	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC07353	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0980	0.0990	0.100	0.0850 to 0.115	98.0	70.0 to 130	1.02	20.0
BC07361	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.107	0.106	0.111	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BC07353	Calcium, Dissolved	mg/L	-0.00159	0.152	5.00	55.7	56.2	4.85	4.25 to 5.75	70.0	70.0 to 130	0.894	20.0
BC07361	Calcium, Total	mg/L	0.00105	0.152	5.00	4.84	4.83	4.89	4.25 to 5.75	96.8	70.0 to 130	0.207	20.0
BC07361	Chloride	mg/L	0.0101	1.00	10.0	9.92	9.84	9.85	9.00 to 11.0	99.2	80.0 to 120	0.810	20.0
BC07353	Chromium, Dissolved	mg/L	-0.0000240	0.000440	0.100	0.0967	0.0957	0.0979	0.0850 to 0.115	96.4	70.0 to 130	1.04	20.0
BC07361	Chromium, Total	mg/L	-0.0000857	0.000440	0.100	0.0964	0.0975	0.101	0.0850 to 0.115	96.4	70.0 to 130	1.13	20.0
BC07353	Cobalt, Dissolved	mg/L	-0.0000046	0.000147	0.100	0.0984	0.0972	0.0982	0.0850 to 0.115	98.3	70.0 to 130	1.23	20.0
BC07361	Cobalt, Total	mg/L	-0.0000744	0.000147	0.100	0.101	0.103	0.107	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BC07361	Fluoride	mg/L	-0.00923	0.125	2.50	2.61	2.50	2.60	2.25 to 2.75	104	80.0 to 120	4.31	20.0
BC07353	Iron, Dissolved	mg/L	0.000084	0.0176	0.2	0.498	0.509	0.207	0.170 to 0.230	97.5	70.0 to 130	2.18	20.0

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/12/22 14:28
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-8

Laboratory ID Number: BC07353

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07361	Iron, Total	mg/L	0.000618	0.0176	0.2	0.197	0.196	0.198	0.170 to 0.230	98.5	70.0 to 130	0.509	20.0
BC07353	Lead, Dissolved	mg/L	0.0000177	0.000147	0.100	0.102	0.0985	0.0986	0.0850 to 0.115	102	70.0 to 130	3.49	20.0
BC07361	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.115	0.116	0.114	0.0850 to 0.115	115	70.0 to 130	0.866	20.0
BC07353	Lithium, Dissolved	mg/L	-0.000113	0.0154	0.200	0.206	0.203	0.211	0.170 to 0.230	103	70.0 to 130	1.47	20.0
BC07361	Lithium, Total	mg/L	0.000204	0.0154	0.200	0.202	0.198	0.202	0.170 to 0.230	101	70.0 to 130	2.00	20.0
BC07353	Magnesium, Dissolved	mg/L	-0.000969	0.0462	5.00	15.9	15.9	5.36	4.25 to 5.75	102	70.0 to 130	0.00	20.0
BC07361	Magnesium, Total	mg/L	0.00546	0.0462	5.00	5.18	5.11	5.18	4.25 to 5.75	104	70.0 to 130	1.36	20.0
BC07353	Manganese, Dissolved	mg/L	-0.0000191	0.0002	0.100	0.185	0.185	0.100	0.0850 to 0.115	95.6	70.0 to 130	0.00	20.0
BC07361	Manganese, Total	mg/L	-0.0000103	0.0002	0.100	0.103	0.105	0.109	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC07361	Mercury, Total by CVAA	mg/L	0.000110	0.000500	0.004	0.00375	0.00370	0.00387	0.00340 to 0.00460	93.8	70.0 to 130	1.34	20.0
BC07353	Molybdenum, Dissolved	mg/L	0.0000130	0.0002	0.100	0.0992	0.0996	0.0949	0.0850 to 0.115	95.8	70.0 to 130	0.402	20.0
BC07361	Molybdenum, Total	mg/L	0.0000091	0.0002	0.100	0.100	0.101	0.103	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC07353	Potassium, Dissolved	mg/L	-0.000327	0.367	10.0	11.2	11.1	10.2	8.50 to 11.5	98.6	70.0 to 130	0.897	20.0
BC07361	Potassium, Total	mg/L	-0.00861	0.367	10.0	9.55	9.72	10.1	8.50 to 11.5	95.5	70.0 to 130	1.76	20.0
BC07353	Selenium, Dissolved	mg/L	0.0000335	0.00100	0.100	0.103	0.103	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC07361	Selenium, Total	mg/L	0.0000746	0.00100	0.100	0.104	0.105	0.108	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BC07353	Silicon, Dissolved	mg/L	-0.000426	0.0440	1.00	5.09	5.12	1.03	0.850 to 1.15	103	70.0 to 130	0.588	20.0
BC07361	Silicon, Total	mg/L	0.000115	0.0440	1.00	0.999	0.992	1.01	0.850 to 1.15	99.9	70.0 to 130	0.703	20.0
BC07353	Sodium, Dissolved	mg/L	0.000333	0.0660	5.00	6.60	6.52	5.39	4.25 to 5.75	105	70.0 to 130	1.22	20.0
BC07361	Sodium, Total	mg/L	0.00015	0.0660	5.00	5.08	4.99	5.16	4.25 to 5.75	102	70.0 to 130	1.79	20.0
BC07361	Sulfate	mg/L	0.157	2.0	20.0	20.4	20.3	19.9	18.0 to 22.0	102	80.0 to 120	0.491	20.0
BC07353	Thallium, Dissolved	mg/L	0.0000153	0.000147	0.100	0.103	0.0998	0.0996	0.0850 to 0.115	103	70.0 to 130	3.16	20.0

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/12/22 14:28
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-8

Laboratory ID Number: BC07353

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07361	Thallium, Total	mg/L	-0.0000834	0.000147	0.100	0.110	0.112	0.111	0.0850 to 0.115	110	70.0 to 130	1.80	20.0
BC07361	Total Organic Carbon	mg/L	0.250	1.00	10.0	10.3	10.3	25.6		103	80.0 to 120	0.00	20.0

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

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASG
Sample Date: 4/12/22 14:28
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-8

Laboratory ID Number: BC07353

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07355	Alkalinity, Total as CaCO3	mg/L					143	50.8	45.0 to 55.0			3.44	10.0
BC07361	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.05	0.200	2.00	2.02	-0.069	1.96	1.80 to 2.20	101	90.0 to 110	0.00	15.0
BC07357	Solids, Dissolved	mg/L	0.0000	25.0			270	48.0	40.0 to 60.0			0.00	10.0

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

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-9

Location Code: WMWGASG
Collected: 4/12/22 15:45
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07354

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/22/22 14:24	4/25/22 11:53		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/22/22 14:24	4/25/22 13:40		10.15	50.4	mg/L	0.70035	4.06	
* Iron, Total	4/22/22 14:24	4/25/22 11:53		1.015	0.172	mg/L	0.008120	0.0406	
* Lithium, Total	4/22/22 14:24	4/25/22 11:53		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/22/22 14:24	4/25/22 11:53		1.015	6.30	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/22/22 14:24	4/25/22 11:53		1	9.57	mg/L			
Silicon, Total	4/22/22 14:24	4/25/22 11:53		1.015	4.47	mg/L	0.02030	0.25375	
* Sodium, Total	4/22/22 14:24	4/25/22 11:53		1.015	2.86	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	4/26/22 10:33	4/27/22 10:16		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	4/26/22 10:33	4/27/22 11:38		10.15	47.8	mg/L	0.70035	4.06	
* Iron, Dissolved	4/26/22 10:33	4/27/22 10:16		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	4/26/22 10:33	4/27/22 10:16		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/26/22 10:33	4/27/22 10:16		1.015	6.48	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/26/22 10:33	4/27/22 10:16		1	9.54	mg/L			
Silicon, Dissolved	4/26/22 10:33	4/27/22 10:16		1.015	4.46	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/26/22 10:33	4/27/22 10:16		1.015	2.82	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/18/22 10:35	4/19/22 18:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/18/22 10:35	4/19/22 18:05		1.015	0.0171	mg/L	0.006090	0.01015	
* Arsenic, Total	4/18/22 10:35	4/19/22 18:05		1.015	0.000178	mg/L	0.000081	0.000203	J
* Barium, Total	4/18/22 10:35	4/19/22 18:05		1.015	0.0252	mg/L	0.000102	0.000203	
* Beryllium, Total	4/18/22 10:35	4/19/22 18:05		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/18/22 10:35	4/19/22 18:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/18/22 10:35	4/19/22 18:05		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/18/22 10:35	4/19/22 18:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/18/22 10:35	4/19/22 18:05		1.015	0.000112	mg/L	0.000068	0.000203	J
* Manganese, Total	4/18/22 10:35	4/19/22 18:05		1.015	0.0157	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/18/22 10:35	4/19/22 18:05		1.015	0.000213	mg/L	0.000102	0.000203	
* Potassium, Total	4/18/22 10:35	4/19/22 18:05		1.015	0.703	mg/L	0.169505	0.5075	

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.

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-9

Location Code: WMWGASG
Collected: 4/12/22 15:45
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07354

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/18/22 10:35	4/19/22 18:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/18/22 10:35	4/19/22 18:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	4/18/22 10:40	4/19/22 13:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/18/22 10:40	4/19/22 13:53		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/18/22 10:40	4/19/22 13:53		1.015	0.000107	mg/L	0.000081	0.000203	J
* Barium, Dissolved	4/18/22 10:40	4/19/22 13:53		1.015	0.0205	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/18/22 10:40	4/19/22 13:53		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/18/22 10:40	4/19/22 13:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/18/22 10:40	4/19/22 13:53		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/18/22 10:40	4/19/22 13:53		1.015	0.000106	mg/L	0.000068	0.000203	J
* Lead, Dissolved	4/18/22 10:40	4/19/22 13:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/18/22 10:40	4/19/22 13:53		1.015	0.0172	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/18/22 10:40	4/19/22 13:53		1.015	0.000253	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/18/22 10:40	4/19/22 13:53		1.015	0.681	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/18/22 10:40	4/19/22 13:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/18/22 10:40	4/19/22 13:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/22/22 11:23	4/22/22 14:49		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/19/22 14:39	4/19/22 14:39		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	4/26/22 10:56	4/26/22 13:12		1	151	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/14/22 14:13	4/18/22 13:18		1	155	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	4/26/22 10:56	4/26/22 13:12		1	149	mg/L			
Carbonate Alkalinity, (calc.)	4/26/22 10:56	4/26/22 13:12		1	1.89	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	4/25/22 20:04	4/25/22 20:04		1	Not Detected	mg/L	1.00	2	U

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-9

Location Code: WMWGASG
Collected: 4/12/22 15:45
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07354

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/15/22 10:15	4/15/22 10:15		1	1.91	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/15/22 15:19	4/15/22 15:19		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/19/22 12:07	4/19/22 12:07		1	4.09	mg/L	0.6	2	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/12/22 15:42	4/12/22 15:42			240.70	uS/cm			FA
pH	4/12/22 15:42	4/12/22 15:42			6.22	SU			FA
Temperature	4/12/22 15:42	4/12/22 15:42			28.12	C			FA
Turbidity	4/12/22 15:42	4/12/22 15:42			4.95	NTU			FA
Sulfide	4/12/22 15:42	4/12/22 15:42			0	mg/L			FA

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/12/22 15:45
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-9

Laboratory ID Number: BC07354

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07360	Aluminum, Dissolved	mg/L	0.000593	0.010	0.100	0.0994	0.0976	0.102	0.0850 to 0.115	99.4	70.0 to 130	1.83	20.0
BC07361	Aluminum, Total	mg/L	0.000653	0.010	0.100	0.106	0.109	0.114	0.0850 to 0.115	106	70.0 to 130	2.79	20.0
BC07360	Antimony, Dissolved	mg/L	0.000184	0.00100	0.100	0.0948	0.0962	0.0867	0.0850 to 0.115	94.8	70.0 to 130	1.47	20.0
BC07361	Antimony, Total	mg/L	0.000310	0.00100	0.100	0.104	0.108	0.104	0.0850 to 0.115	104	70.0 to 130	3.77	20.0
BC07360	Arsenic, Dissolved	mg/L	0.0000278	0.000176	0.100	0.0979	0.0963	0.102	0.0850 to 0.115	97.7	70.0 to 130	1.65	20.0
BC07361	Arsenic, Total	mg/L	0.0000077	0.000176	0.100	0.0993	0.101	0.104	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0
BC07360	Barium, Dissolved	mg/L	-0.0000005	0.00100	0.100	0.112	0.112	0.0908	0.0850 to 0.115	89.3	70.0 to 130	0.00	20.0
BC07361	Barium, Total	mg/L	-0.0000092	0.00100	0.100	0.112	0.114	0.110	0.0850 to 0.115	112	70.0 to 130	1.77	20.0
BC07360	Beryllium, Dissolved	mg/L	0.0000897	0.000880	0.100	0.0877	0.0882	0.0914	0.0850 to 0.115	87.7	70.0 to 130	0.569	20.0
BC07361	Beryllium, Total	mg/L	0.0000051	0.000880	0.100	0.106	0.105	0.109	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BC07360	Boron, Dissolved	mg/L	0.000005	0.0650	1.00	1.06	1.06	1.03	0.850 to 1.15	106	70.0 to 130	0.00	20.0
BC07361	Boron, Total	mg/L	-0.000208	0.0650	1.00	1.01	1.01	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC07360	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0986	0.0991	0.100	0.0850 to 0.115	98.6	70.0 to 130	0.506	20.0
BC07361	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.107	0.106	0.111	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BC07360	Calcium, Dissolved	mg/L	-0.00159	0.152	5.00	84.5	90.8	4.85	4.25 to 5.75	52.0	70.0 to 130	7.19	20.0
BC07361	Calcium, Total	mg/L	0.00105	0.152	5.00	4.84	4.83	4.89	4.25 to 5.75	96.8	70.0 to 130	0.207	20.0
BC07361	Chloride	mg/L	0.0101	1.00	10.0	9.92	9.84	9.85	9.00 to 11.0	99.2	80.0 to 120	0.810	20.0
BC07360	Chromium, Dissolved	mg/L	-0.0000240	0.000440	0.100	0.0973	0.0957	0.0979	0.0850 to 0.115	96.7	70.0 to 130	1.66	20.0
BC07361	Chromium, Total	mg/L	-0.0000857	0.000440	0.100	0.0964	0.0975	0.101	0.0850 to 0.115	96.4	70.0 to 130	1.13	20.0
BC07360	Cobalt, Dissolved	mg/L	-0.0000046	0.000147	0.100	0.0998	0.0987	0.0982	0.0850 to 0.115	99.6	70.0 to 130	1.11	20.0
BC07361	Cobalt, Total	mg/L	-0.0000744	0.000147	0.100	0.101	0.103	0.107	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BC07361	Fluoride	mg/L	-0.00923	0.125	2.50	2.61	2.50	2.60	2.25 to 2.75	104	80.0 to 120	4.31	20.0
BC07360	Iron, Dissolved	mg/L	0.000084	0.0176	0.2	0.202	0.202	0.207	0.170 to 0.230	101	70.0 to 130	0.00	20.0

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/12/22 15:45
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-9

Laboratory ID Number: BC07354

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07361	Iron, Total	mg/L	0.000618	0.0176	0.2	0.197	0.196	0.198	0.170 to 0.230	98.5	70.0 to 130	0.509	20.0
BC07360	Lead, Dissolved	mg/L	0.0000177	0.000147	0.100	0.0995	0.0995	0.0986	0.0850 to 0.115	99.5	70.0 to 130	0.00	20.0
BC07361	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.115	0.116	0.114	0.0850 to 0.115	115	70.0 to 130	0.866	20.0
BC07360	Lithium, Dissolved	mg/L	-0.000113	0.0154	0.200	0.205	0.209	0.211	0.170 to 0.230	102	70.0 to 130	1.93	20.0
BC07361	Lithium, Total	mg/L	0.000204	0.0154	0.200	0.202	0.198	0.202	0.170 to 0.230	101	70.0 to 130	2.00	20.0
BC07360	Magnesium, Dissolved	mg/L	-0.000969	0.0462	5.00	13.7	13.6	5.36	4.25 to 5.75	106	70.0 to 130	0.733	20.0
BC07361	Magnesium, Total	mg/L	0.00546	0.0462	5.00	5.18	5.11	5.18	4.25 to 5.75	104	70.0 to 130	1.36	20.0
BC07360	Manganese, Dissolved	mg/L	-0.0000191	0.0002	0.100	0.187	0.182	0.100	0.0850 to 0.115	99.4	70.0 to 130	2.71	20.0
BC07361	Manganese, Total	mg/L	-0.0000103	0.0002	0.100	0.103	0.105	0.109	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC07361	Mercury, Total by CVAA	mg/L	0.000110	0.000500	0.004	0.00375	0.00370	0.00387	0.00340 to 0.00460	93.8	70.0 to 130	1.34	20.0
BC07360	Molybdenum, Dissolved	mg/L	0.0000130	0.0002	0.100	0.0960	0.0965	0.0949	0.0850 to 0.115	95.7	70.0 to 130	0.519	20.0
BC07361	Molybdenum, Total	mg/L	0.0000091	0.0002	0.100	0.100	0.101	0.103	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC07360	Potassium, Dissolved	mg/L	-0.000327	0.367	10.0	10.2	10.1	10.2	8.50 to 11.5	99.6	70.0 to 130	0.985	20.0
BC07361	Potassium, Total	mg/L	-0.00861	0.367	10.0	9.55	9.72	10.1	8.50 to 11.5	95.5	70.0 to 130	1.76	20.0
BC07360	Selenium, Dissolved	mg/L	0.0000335	0.00100	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07361	Selenium, Total	mg/L	0.0000746	0.00100	0.100	0.104	0.105	0.108	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BC07360	Silicon, Dissolved	mg/L	-0.000426	0.0440	1.00	4.47	4.47	1.03	0.850 to 1.15	106	70.0 to 130	0.00	20.0
BC07361	Silicon, Total	mg/L	0.000115	0.0440	1.00	0.999	0.992	1.01	0.850 to 1.15	99.9	70.0 to 130	0.703	20.0
BC07360	Sodium, Dissolved	mg/L	0.000333	0.0660	5.00	9.67	9.89	5.39	4.25 to 5.75	102	70.0 to 130	2.25	20.0
BC07361	Sodium, Total	mg/L	0.00015	0.0660	5.00	5.08	4.99	5.16	4.25 to 5.75	102	70.0 to 130	1.79	20.0
BC07361	Sulfate	mg/L	0.157	2.0	20.0	20.4	20.3	19.9	18.0 to 22.0	102	80.0 to 120	0.491	20.0
BC07360	Thallium, Dissolved	mg/L	0.0000153	0.000147	0.100	0.102	0.100	0.0996	0.0850 to 0.115	102	70.0 to 130	1.98	20.0

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

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/12/22 15:45
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-9

Laboratory ID Number: BC07354

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07361	Thallium, Total	mg/L	-0.0000834	0.000147	0.100	0.110	0.112	0.111	0.0850 to 0.115	110	70.0 to 130	1.80	20.0
BC07361	Total Organic Carbon	mg/L	0.250	1.00	10.0	10.3	10.3	25.6		103	80.0 to 120	0.00	20.0

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

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASG
Sample Date: 4/12/22 15:45
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-9

Laboratory ID Number: BC07354

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07355	Alkalinity, Total as CaCO3	mg/L					143	50.8	45.0 to 55.0			3.44	10.0
BC07361	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.05	0.200	2.00	2.02	-0.069	1.96	1.80 to 2.20	101	90.0 to 110	0.00	15.0
BC07357	Solids, Dissolved	mg/L	0.0000	25.0			270	48.0	40.0 to 60.0			0.00	10.0

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

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-9 DUP

Location Code: WMWGASG
Collected: 4/12/22 15:45
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07355

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/22/22 14:24	4/25/22 11:56		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/22/22 14:24	4/25/22 13:44		10.15	49.4	mg/L	0.70035	4.06	
* Iron, Total	4/22/22 14:24	4/25/22 11:56		1.015	0.0943	mg/L	0.008120	0.0406	
* Lithium, Total	4/22/22 14:24	4/25/22 11:56		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/22/22 14:24	4/25/22 11:56		1.015	6.22	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/22/22 14:24	4/25/22 11:56		1	9.61	mg/L			
Silicon, Total	4/22/22 14:24	4/25/22 11:56		1.015	4.49	mg/L	0.02030	0.25375	
* Sodium, Total	4/22/22 14:24	4/25/22 11:56		1.015	2.80	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	4/26/22 10:33	4/27/22 10:19		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	4/26/22 10:33	4/27/22 12:10		10.15	46.3	mg/L	0.70035	4.06	
* Iron, Dissolved	4/26/22 10:33	4/27/22 10:19		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	4/26/22 10:33	4/27/22 10:19		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/26/22 10:33	4/27/22 10:19		1.015	6.43	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/26/22 10:33	4/27/22 10:19		1	9.57	mg/L			
Silicon, Dissolved	4/26/22 10:33	4/27/22 10:19		1.015	4.47	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/26/22 10:33	4/27/22 10:19		1.015	2.82	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/18/22 10:35	4/19/22 18:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/18/22 10:35	4/19/22 18:09		1.015	0.0210	mg/L	0.006090	0.01015	
* Arsenic, Total	4/18/22 10:35	4/19/22 18:09		1.015	0.000122	mg/L	0.000081	0.000203	J
* Barium, Total	4/18/22 10:35	4/19/22 18:09		1.015	0.0255	mg/L	0.000102	0.000203	
* Beryllium, Total	4/18/22 10:35	4/19/22 18:09		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/18/22 10:35	4/19/22 18:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/18/22 10:35	4/19/22 18:09		1.015	0.000220	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/18/22 10:35	4/19/22 18:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/18/22 10:35	4/19/22 18:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/18/22 10:35	4/19/22 18:09		1.015	0.0150	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/18/22 10:35	4/19/22 18:09		1.015	0.000237	mg/L	0.000102	0.000203	
* Potassium, Total	4/18/22 10:35	4/19/22 18:09		1.015	0.689	mg/L	0.169505	0.5075	

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.

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-9 DUP

Location Code: WMWGASG
Collected: 4/12/22 15:45
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07355

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/18/22 10:35	4/19/22 18:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/18/22 10:35	4/19/22 18:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	4/18/22 10:40	4/19/22 13:56		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/18/22 10:40	4/19/22 13:56		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/18/22 10:40	4/19/22 13:56		1.015	0.000148	mg/L	0.000081	0.000203	J
* Barium, Dissolved	4/18/22 10:40	4/19/22 13:56		1.015	0.0208	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/18/22 10:40	4/19/22 13:56		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/18/22 10:40	4/19/22 13:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/18/22 10:40	4/19/22 13:56		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/18/22 10:40	4/19/22 13:56		1.015	0.0000877	mg/L	0.000068	0.000203	J
* Lead, Dissolved	4/18/22 10:40	4/19/22 13:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/18/22 10:40	4/19/22 13:56		1.015	0.0164	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/18/22 10:40	4/19/22 13:56		1.015	0.000235	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/18/22 10:40	4/19/22 13:56		1.015	0.681	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/18/22 10:40	4/19/22 13:56		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/18/22 10:40	4/19/22 13:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/22/22 11:23	4/22/22 14:51		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/19/22 14:41	4/19/22 14:41		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	4/26/22 10:56	4/26/22 13:12		1	148	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/14/22 14:13	4/18/22 13:18		1	159	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	4/26/22 10:56	4/26/22 13:12		1	147	mg/L			
Carbonate Alkalinity, (calc.)	4/26/22 10:56	4/26/22 13:12		1	0.956	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	4/25/22 20:22	4/25/22 20:22		1	Not Detected	mg/L	1.00	2	U

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-9 DUP

Location Code: WMWGASG
Collected: 4/12/22 15:45
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07355

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/15/22 10:17	4/15/22 10:17		1	1.94	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/15/22 15:21	4/15/22 15:21		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/19/22 12:08	4/19/22 12:08		1	4.05	mg/L	0.6	2	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/12/22 15:42	4/12/22 15:42			240.70	uS/cm			FA
pH	4/12/22 15:42	4/12/22 15:42			6.22	SU			FA
Temperature	4/12/22 15:42	4/12/22 15:42			28.12	C			FA
Turbidity	4/12/22 15:42	4/12/22 15:42			4.95	NTU			FA
Sulfide	4/12/22 15:42	4/12/22 15:42			0	mg/L			FA

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/12/22 15:45
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-9 DUP

Laboratory ID Number: BC07355

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07360	Aluminum, Dissolved	mg/L	0.000593	0.010	0.100	0.0994	0.0976	0.102	0.0850 to 0.115	99.4	70.0 to 130	1.83	20.0
BC07361	Aluminum, Total	mg/L	0.000653	0.010	0.100	0.106	0.109	0.114	0.0850 to 0.115	106	70.0 to 130	2.79	20.0
BC07360	Antimony, Dissolved	mg/L	0.000184	0.00100	0.100	0.0948	0.0962	0.0867	0.0850 to 0.115	94.8	70.0 to 130	1.47	20.0
BC07361	Antimony, Total	mg/L	0.000310	0.00100	0.100	0.104	0.108	0.104	0.0850 to 0.115	104	70.0 to 130	3.77	20.0
BC07360	Arsenic, Dissolved	mg/L	0.0000278	0.000176	0.100	0.0979	0.0963	0.102	0.0850 to 0.115	97.7	70.0 to 130	1.65	20.0
BC07361	Arsenic, Total	mg/L	0.0000077	0.000176	0.100	0.0993	0.101	0.104	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0
BC07360	Barium, Dissolved	mg/L	-0.0000005	0.00100	0.100	0.112	0.112	0.0908	0.0850 to 0.115	89.3	70.0 to 130	0.00	20.0
BC07361	Barium, Total	mg/L	-0.0000092	0.00100	0.100	0.112	0.114	0.110	0.0850 to 0.115	112	70.0 to 130	1.77	20.0
BC07360	Beryllium, Dissolved	mg/L	0.0000897	0.000880	0.100	0.0877	0.0882	0.0914	0.0850 to 0.115	87.7	70.0 to 130	0.569	20.0
BC07361	Beryllium, Total	mg/L	0.0000051	0.000880	0.100	0.106	0.105	0.109	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BC07360	Boron, Dissolved	mg/L	0.000005	0.0650	1.00	1.06	1.06	1.03	0.850 to 1.15	106	70.0 to 130	0.00	20.0
BC07361	Boron, Total	mg/L	-0.000208	0.0650	1.00	1.01	1.01	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC07360	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0986	0.0991	0.100	0.0850 to 0.115	98.6	70.0 to 130	0.506	20.0
BC07361	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.107	0.106	0.111	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BC07360	Calcium, Dissolved	mg/L	-0.00159	0.152	5.00	84.5	90.8	4.85	4.25 to 5.75	52.0	70.0 to 130	7.19	20.0
BC07361	Calcium, Total	mg/L	0.00105	0.152	5.00	4.84	4.83	4.89	4.25 to 5.75	96.8	70.0 to 130	0.207	20.0
BC07361	Chloride	mg/L	0.0101	1.00	10.0	9.92	9.84	9.85	9.00 to 11.0	99.2	80.0 to 120	0.810	20.0
BC07360	Chromium, Dissolved	mg/L	-0.0000240	0.000440	0.100	0.0973	0.0957	0.0979	0.0850 to 0.115	96.7	70.0 to 130	1.66	20.0
BC07361	Chromium, Total	mg/L	-0.0000857	0.000440	0.100	0.0964	0.0975	0.101	0.0850 to 0.115	96.4	70.0 to 130	1.13	20.0
BC07360	Cobalt, Dissolved	mg/L	-0.0000046	0.000147	0.100	0.0998	0.0987	0.0982	0.0850 to 0.115	99.6	70.0 to 130	1.11	20.0
BC07361	Cobalt, Total	mg/L	-0.0000744	0.000147	0.100	0.101	0.103	0.107	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BC07361	Fluoride	mg/L	-0.00923	0.125	2.50	2.61	2.50	2.60	2.25 to 2.75	104	80.0 to 120	4.31	20.0
BC07360	Iron, Dissolved	mg/L	0.000084	0.0176	0.2	0.202	0.202	0.207	0.170 to 0.230	101	70.0 to 130	0.00	20.0

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

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/12/22 15:45
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-9 DUP

Laboratory ID Number: BC07355

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07361	Iron, Total	mg/L	0.000618	0.0176	0.2	0.197	0.196	0.198	0.170 to 0.230	98.5	70.0 to 130	0.509	20.0
BC07360	Lead, Dissolved	mg/L	0.0000177	0.000147	0.100	0.0995	0.0995	0.0986	0.0850 to 0.115	99.5	70.0 to 130	0.00	20.0
BC07361	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.115	0.116	0.114	0.0850 to 0.115	115	70.0 to 130	0.866	20.0
BC07360	Lithium, Dissolved	mg/L	-0.000113	0.0154	0.200	0.205	0.209	0.211	0.170 to 0.230	102	70.0 to 130	1.93	20.0
BC07361	Lithium, Total	mg/L	0.000204	0.0154	0.200	0.202	0.198	0.202	0.170 to 0.230	101	70.0 to 130	2.00	20.0
BC07360	Magnesium, Dissolved	mg/L	-0.000969	0.0462	5.00	13.7	13.6	5.36	4.25 to 5.75	106	70.0 to 130	0.733	20.0
BC07361	Magnesium, Total	mg/L	0.00546	0.0462	5.00	5.18	5.11	5.18	4.25 to 5.75	104	70.0 to 130	1.36	20.0
BC07360	Manganese, Dissolved	mg/L	-0.0000191	0.0002	0.100	0.187	0.182	0.100	0.0850 to 0.115	99.4	70.0 to 130	2.71	20.0
BC07361	Manganese, Total	mg/L	-0.0000103	0.0002	0.100	0.103	0.105	0.109	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC07361	Mercury, Total by CVAA	mg/L	0.000110	0.000500	0.004	0.00375	0.00370	0.00387	0.00340 to 0.00460	93.8	70.0 to 130	1.34	20.0
BC07360	Molybdenum, Dissolved	mg/L	0.0000130	0.0002	0.100	0.0960	0.0965	0.0949	0.0850 to 0.115	95.7	70.0 to 130	0.519	20.0
BC07361	Molybdenum, Total	mg/L	0.0000091	0.0002	0.100	0.100	0.101	0.103	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC07360	Potassium, Dissolved	mg/L	-0.000327	0.367	10.0	10.2	10.1	10.2	8.50 to 11.5	99.6	70.0 to 130	0.985	20.0
BC07361	Potassium, Total	mg/L	-0.00861	0.367	10.0	9.55	9.72	10.1	8.50 to 11.5	95.5	70.0 to 130	1.76	20.0
BC07360	Selenium, Dissolved	mg/L	0.0000335	0.00100	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07361	Selenium, Total	mg/L	0.0000746	0.00100	0.100	0.104	0.105	0.108	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BC07360	Silicon, Dissolved	mg/L	-0.000426	0.0440	1.00	4.47	4.47	1.03	0.850 to 1.15	106	70.0 to 130	0.00	20.0
BC07361	Silicon, Total	mg/L	0.000115	0.0440	1.00	0.999	0.992	1.01	0.850 to 1.15	99.9	70.0 to 130	0.703	20.0
BC07360	Sodium, Dissolved	mg/L	0.000333	0.0660	5.00	9.67	9.89	5.39	4.25 to 5.75	102	70.0 to 130	2.25	20.0
BC07361	Sodium, Total	mg/L	0.00015	0.0660	5.00	5.08	4.99	5.16	4.25 to 5.75	102	70.0 to 130	1.79	20.0
BC07361	Sulfate	mg/L	0.157	2.0	20.0	20.4	20.3	19.9	18.0 to 22.0	102	80.0 to 120	0.491	20.0
BC07360	Thallium, Dissolved	mg/L	0.0000153	0.000147	0.100	0.102	0.100	0.0996	0.0850 to 0.115	102	70.0 to 130	1.98	20.0

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

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/12/22 15:45
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-9 DUP

Laboratory ID Number: BC07355

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07361	Thallium, Total	mg/L	-0.0000834	0.000147	0.100	0.110	0.112	0.111	0.0850 to 0.115	110	70.0 to 130	1.80	20.0
BC07361	Total Organic Carbon	mg/L	0.250	1.00	10.0	10.3	10.3	25.6		103	80.0 to 120	0.00	20.0

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

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASG
Sample Date: 4/12/22 15:45
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-9 DUP

Laboratory ID Number: BC07355

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07355	Alkalinity, Total as CaCO3	mg/L					143	50.8	45.0 to 55.0			3.44	10.0
BC07361	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.05	0.200	2.00	2.02	-0.069	1.96	1.80 to 2.20	101	90.0 to 110	0.00	15.0
BC07357	Solids, Dissolved	mg/L	0.0000	25.0			270	48.0	40.0 to 60.0			0.00	10.0

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-10

Location Code: WMWGASG
Collected: 4/13/22 10:05
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07356

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/22/22 14:24	4/25/22 11:59		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/22/22 14:24	4/25/22 13:47		10.15	107	mg/L	0.70035	4.06	
* Iron, Total	4/22/22 14:24	4/25/22 11:59		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/22/22 14:24	4/25/22 11:59		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/22/22 14:24	4/25/22 11:59		1.015	1.81	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/22/22 14:24	4/25/22 11:59		1	9.07	mg/L			
Silicon, Total	4/22/22 14:24	4/25/22 11:59		1.015	4.24	mg/L	0.02030	0.25375	
* Sodium, Total	4/22/22 14:24	4/25/22 11:59		1.015	2.03	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	4/26/22 10:33	4/27/22 10:22		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	4/26/22 10:33	4/27/22 12:13		10.15	95.7	mg/L	0.70035	4.06	
* Iron, Dissolved	4/26/22 10:33	4/27/22 10:22		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	4/26/22 10:33	4/27/22 10:22		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/26/22 10:33	4/27/22 10:22		1.015	1.80	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/26/22 10:33	4/27/22 10:22		1	9.14	mg/L			
Silicon, Dissolved	4/26/22 10:33	4/27/22 10:22		1.015	4.27	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/26/22 10:33	4/27/22 10:22		1.015	2.04	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/18/22 10:35	4/19/22 18:12		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/18/22 10:35	4/19/22 18:12		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/18/22 10:35	4/19/22 18:12		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	4/18/22 10:35	4/19/22 18:12		1.015	0.0403	mg/L	0.000102	0.000203	
* Beryllium, Total	4/18/22 10:35	4/19/22 18:12		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/18/22 10:35	4/19/22 18:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/18/22 10:35	4/19/22 18:12		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/18/22 10:35	4/19/22 18:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/18/22 10:35	4/19/22 18:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/18/22 10:35	4/19/22 18:12		1.015	0.00712	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/18/22 10:35	4/19/22 18:12		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	4/18/22 10:35	4/19/22 18:12		1.015	Not Detected	mg/L	0.169505	0.5075	U

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-10

Location Code: WMWGASG
Collected: 4/13/22 10:05
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07356

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/18/22 10:35	4/19/22 18:12		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/18/22 10:35	4/19/22 18:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	4/18/22 10:40	4/19/22 14:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/18/22 10:40	4/19/22 14:00		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/18/22 10:40	4/19/22 14:00		1.015	0.000136	mg/L	0.000081	0.000203	J
* Barium, Dissolved	4/18/22 10:40	4/19/22 14:00		1.015	0.0330	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/18/22 10:40	4/19/22 14:00		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/18/22 10:40	4/19/22 14:00		1.015	0.0000685	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	4/18/22 10:40	4/19/22 14:00		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/18/22 10:40	4/19/22 14:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/18/22 10:40	4/19/22 14:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/18/22 10:40	4/19/22 14:00		1.015	0.00714	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/18/22 10:40	4/19/22 14:00		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	4/18/22 10:40	4/19/22 14:00		1.015	0.177	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	4/18/22 10:40	4/19/22 14:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/18/22 10:40	4/19/22 14:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/22/22 11:23	4/22/22 14:54		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/19/22 14:43	4/19/22 14:43		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	4/27/22 08:10	4/27/22 09:02		1	263	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/14/22 14:13	4/18/22 13:18		1	273	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	4/27/22 08:10	4/27/22 09:02		1	262	mg/L			
Carbonate Alkalinity, (calc.)	4/27/22 08:10	4/27/22 09:02		1	0.874	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	4/25/22 20:43	4/25/22 20:43		1	Not Detected	mg/L	1.00	2	U

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-10

Location Code: WMWGASG
Collected: 4/13/22 10:05
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07356

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/15/22 10:18	4/15/22 10:18		1	2.77	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/15/22 15:22	4/15/22 15:22		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/19/22 12:09	4/19/22 12:09		1	1.68	mg/L	0.6	2	J
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/13/22 10:01	4/13/22 10:01			449.82	uS/cm			FA
pH	4/13/22 10:01	4/13/22 10:01			6.85	SU			FA
Temperature	4/13/22 10:01	4/13/22 10:01			30.23	C			FA
Turbidity	4/13/22 10:01	4/13/22 10:01			0.72	NTU			FA
Sulfide	4/13/22 10:01	4/13/22 10:01			0	mg/L			FA

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/13/22 10:05
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-10

Laboratory ID Number: BC07356

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07360	Aluminum, Dissolved	mg/L	0.000593	0.010	0.100	0.0994	0.0976	0.102	0.0850 to 0.115	99.4	70.0 to 130	1.83	20.0
BC07361	Aluminum, Total	mg/L	0.000653	0.010	0.100	0.106	0.109	0.114	0.0850 to 0.115	106	70.0 to 130	2.79	20.0
BC07360	Antimony, Dissolved	mg/L	0.000184	0.00100	0.100	0.0948	0.0962	0.0867	0.0850 to 0.115	94.8	70.0 to 130	1.47	20.0
BC07361	Antimony, Total	mg/L	0.000310	0.00100	0.100	0.104	0.108	0.104	0.0850 to 0.115	104	70.0 to 130	3.77	20.0
BC07360	Arsenic, Dissolved	mg/L	0.0000278	0.000176	0.100	0.0979	0.0963	0.102	0.0850 to 0.115	97.7	70.0 to 130	1.65	20.0
BC07361	Arsenic, Total	mg/L	0.0000077	0.000176	0.100	0.0993	0.101	0.104	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0
BC07360	Barium, Dissolved	mg/L	-0.0000005	0.00100	0.100	0.112	0.112	0.0908	0.0850 to 0.115	89.3	70.0 to 130	0.00	20.0
BC07361	Barium, Total	mg/L	-0.0000092	0.00100	0.100	0.112	0.114	0.110	0.0850 to 0.115	112	70.0 to 130	1.77	20.0
BC07360	Beryllium, Dissolved	mg/L	0.0000897	0.000880	0.100	0.0877	0.0882	0.0914	0.0850 to 0.115	87.7	70.0 to 130	0.569	20.0
BC07361	Beryllium, Total	mg/L	0.0000051	0.000880	0.100	0.106	0.105	0.109	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BC07360	Boron, Dissolved	mg/L	0.000005	0.0650	1.00	1.06	1.06	1.03	0.850 to 1.15	106	70.0 to 130	0.00	20.0
BC07361	Boron, Total	mg/L	-0.000208	0.0650	1.00	1.01	1.01	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC07360	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0986	0.0991	0.100	0.0850 to 0.115	98.6	70.0 to 130	0.506	20.0
BC07361	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.107	0.106	0.111	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BC07360	Calcium, Dissolved	mg/L	-0.00159	0.152	5.00	84.5	90.8	4.85	4.25 to 5.75	52.0	70.0 to 130	7.19	20.0
BC07361	Calcium, Total	mg/L	0.00105	0.152	5.00	4.84	4.83	4.89	4.25 to 5.75	96.8	70.0 to 130	0.207	20.0
BC07361	Chloride	mg/L	0.0101	1.00	10.0	9.92	9.84	9.85	9.00 to 11.0	99.2	80.0 to 120	0.810	20.0
BC07360	Chromium, Dissolved	mg/L	-0.0000240	0.000440	0.100	0.0973	0.0957	0.0979	0.0850 to 0.115	96.7	70.0 to 130	1.66	20.0
BC07361	Chromium, Total	mg/L	-0.0000857	0.000440	0.100	0.0964	0.0975	0.101	0.0850 to 0.115	96.4	70.0 to 130	1.13	20.0
BC07360	Cobalt, Dissolved	mg/L	-0.0000046	0.000147	0.100	0.0998	0.0987	0.0982	0.0850 to 0.115	99.6	70.0 to 130	1.11	20.0
BC07361	Cobalt, Total	mg/L	-0.0000744	0.000147	0.100	0.101	0.103	0.107	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BC07361	Fluoride	mg/L	-0.00923	0.125	2.50	2.61	2.50	2.60	2.25 to 2.75	104	80.0 to 120	4.31	20.0
BC07360	Iron, Dissolved	mg/L	0.000084	0.0176	0.2	0.202	0.202	0.207	0.170 to 0.230	101	70.0 to 130	0.00	20.0

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/13/22 10:05
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-10

Laboratory ID Number: BC07356

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07361	Iron, Total	mg/L	0.000618	0.0176	0.2	0.197	0.196	0.198	0.170 to 0.230	98.5	70.0 to 130	0.509	20.0
BC07360	Lead, Dissolved	mg/L	0.0000177	0.000147	0.100	0.0995	0.0995	0.0986	0.0850 to 0.115	99.5	70.0 to 130	0.00	20.0
BC07361	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.115	0.116	0.114	0.0850 to 0.115	115	70.0 to 130	0.866	20.0
BC07360	Lithium, Dissolved	mg/L	-0.000113	0.0154	0.200	0.205	0.209	0.211	0.170 to 0.230	102	70.0 to 130	1.93	20.0
BC07361	Lithium, Total	mg/L	0.000204	0.0154	0.200	0.202	0.198	0.202	0.170 to 0.230	101	70.0 to 130	2.00	20.0
BC07360	Magnesium, Dissolved	mg/L	-0.000969	0.0462	5.00	13.7	13.6	5.36	4.25 to 5.75	106	70.0 to 130	0.733	20.0
BC07361	Magnesium, Total	mg/L	0.00546	0.0462	5.00	5.18	5.11	5.18	4.25 to 5.75	104	70.0 to 130	1.36	20.0
BC07360	Manganese, Dissolved	mg/L	-0.0000191	0.0002	0.100	0.187	0.182	0.100	0.0850 to 0.115	99.4	70.0 to 130	2.71	20.0
BC07361	Manganese, Total	mg/L	-0.0000103	0.0002	0.100	0.103	0.105	0.109	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC07361	Mercury, Total by CVAA	mg/L	0.000110	0.000500	0.004	0.00375	0.00370	0.00387	0.00340 to 0.00460	93.8	70.0 to 130	1.34	20.0
BC07360	Molybdenum, Dissolved	mg/L	0.0000130	0.0002	0.100	0.0960	0.0965	0.0949	0.0850 to 0.115	95.7	70.0 to 130	0.519	20.0
BC07361	Molybdenum, Total	mg/L	0.0000091	0.0002	0.100	0.100	0.101	0.103	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC07360	Potassium, Dissolved	mg/L	-0.000327	0.367	10.0	10.2	10.1	10.2	8.50 to 11.5	99.6	70.0 to 130	0.985	20.0
BC07361	Potassium, Total	mg/L	-0.00861	0.367	10.0	9.55	9.72	10.1	8.50 to 11.5	95.5	70.0 to 130	1.76	20.0
BC07360	Selenium, Dissolved	mg/L	0.0000335	0.00100	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07361	Selenium, Total	mg/L	0.0000746	0.00100	0.100	0.104	0.105	0.108	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BC07360	Silicon, Dissolved	mg/L	-0.000426	0.0440	1.00	4.47	4.47	1.03	0.850 to 1.15	106	70.0 to 130	0.00	20.0
BC07361	Silicon, Total	mg/L	0.000115	0.0440	1.00	0.999	0.992	1.01	0.850 to 1.15	99.9	70.0 to 130	0.703	20.0
BC07360	Sodium, Dissolved	mg/L	0.000333	0.0660	5.00	9.67	9.89	5.39	4.25 to 5.75	102	70.0 to 130	2.25	20.0
BC07361	Sodium, Total	mg/L	0.00015	0.0660	5.00	5.08	4.99	5.16	4.25 to 5.75	102	70.0 to 130	1.79	20.0
BC07361	Sulfate	mg/L	0.157	2.0	20.0	20.4	20.3	19.9	18.0 to 22.0	102	80.0 to 120	0.491	20.0
BC07360	Thallium, Dissolved	mg/L	0.0000153	0.000147	0.100	0.102	0.100	0.0996	0.0850 to 0.115	102	70.0 to 130	1.98	20.0

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

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/13/22 10:05
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-10

Laboratory ID Number: BC07356

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07361	Thallium, Total	mg/L	-0.0000834	0.000147	0.100	0.110	0.112	0.111	0.0850 to 0.115	110	70.0 to 130	1.80	20.0
BC07361	Total Organic Carbon	mg/L	0.250	1.00	10.0	10.3	10.3	25.6		103	80.0 to 120	0.00	20.0

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

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASG
Sample Date: 4/13/22 10:05
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-10

Laboratory ID Number: BC07356

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07360	Alkalinity, Total as CaCO3	mg/L					241	50.9	45.0 to 55.0			7.76	10.0
BC07361	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.05	0.200	2.00	2.02	-0.069	1.96	1.80 to 2.20	101	90.0 to 110	0.00	15.0
BC07357	Solids, Dissolved	mg/L	0.0000	25.0			270	48.0	40.0 to 60.0			0.00	10.0

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

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-10 DUP

Location Code: WMWGASG
Collected: 4/13/22 10:05
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07357

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/22/22 14:24	4/25/22 12:02		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/22/22 14:24	4/25/22 13:50		10.15	104	mg/L	0.70035	4.06	
* Iron, Total	4/22/22 14:24	4/25/22 12:02		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/22/22 14:24	4/25/22 12:02		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/22/22 14:24	4/25/22 12:02		1.015	1.79	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/22/22 14:24	4/25/22 12:02		1	9.05	mg/L			
Silicon, Total	4/22/22 14:24	4/25/22 12:02		1.015	4.23	mg/L	0.02030	0.25375	
* Sodium, Total	4/22/22 14:24	4/25/22 12:02		1.015	2.03	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	4/26/22 10:33	4/27/22 10:25		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	4/26/22 10:33	4/27/22 12:16		10.15	95.5	mg/L	0.70035	4.06	
* Iron, Dissolved	4/26/22 10:33	4/27/22 10:25		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	4/26/22 10:33	4/27/22 10:25		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/26/22 10:33	4/27/22 10:25		1.015	1.81	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/26/22 10:33	4/27/22 10:25		1	9.24	mg/L			
Silicon, Dissolved	4/26/22 10:33	4/27/22 10:25		1.015	4.32	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/26/22 10:33	4/27/22 10:25		1.015	2.03	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/18/22 10:35	4/19/22 18:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/18/22 10:35	4/19/22 18:16		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/18/22 10:35	4/19/22 18:16		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	4/18/22 10:35	4/19/22 18:16		1.015	0.0404	mg/L	0.000102	0.000203	
* Beryllium, Total	4/18/22 10:35	4/19/22 18:16		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/18/22 10:35	4/19/22 18:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/18/22 10:35	4/19/22 18:16		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/18/22 10:35	4/19/22 18:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/18/22 10:35	4/19/22 18:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/18/22 10:35	4/19/22 18:16		1.015	0.00652	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/18/22 10:35	4/19/22 18:16		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	4/18/22 10:35	4/19/22 18:16		1.015	Not Detected	mg/L	0.169505	0.5075	U

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-10 DUP

Location Code: WMWGASG
Collected: 4/13/22 10:05
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07357

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/18/22 10:35	4/19/22 18:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/18/22 10:35	4/19/22 18:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	4/18/22 10:40	4/19/22 14:03		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/18/22 10:40	4/19/22 14:03		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/18/22 10:40	4/19/22 14:03		1.015	0.000112	mg/L	0.000081	0.000203	J
* Barium, Dissolved	4/18/22 10:40	4/19/22 14:03		1.015	0.0330	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/18/22 10:40	4/19/22 14:03		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/18/22 10:40	4/19/22 14:03		1.015	0.0000689	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	4/18/22 10:40	4/19/22 14:03		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/18/22 10:40	4/19/22 14:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/18/22 10:40	4/19/22 14:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/18/22 10:40	4/19/22 14:03		1.015	0.00692	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/18/22 10:40	4/19/22 14:03		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	4/18/22 10:40	4/19/22 14:03		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Dissolved	4/18/22 10:40	4/19/22 14:03		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/18/22 10:40	4/19/22 14:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/22/22 11:23	4/22/22 14:56		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/19/22 14:44	4/19/22 14:44		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	4/27/22 08:10	4/27/22 09:02		1	251	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/14/22 14:13	4/18/22 13:18		1	270	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	4/27/22 08:10	4/27/22 09:02		1	248	mg/L			
Carbonate Alkalinity, (calc.)	4/27/22 08:10	4/27/22 09:02		1	2.50	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	4/25/22 21:01	4/25/22 21:01		1	Not Detected	mg/L	1.00	2	U

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-10 DUP

Location Code: WMWGASG
Collected: 4/13/22 10:05
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07357

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	4/15/22 10:19	4/15/22 10:19		1	2.78	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	4/15/22 15:23	4/15/22 15:23		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	4/19/22 12:10	4/19/22 12:10		1	1.66	mg/L	0.6	2	J
Analytical Method: Field Measurements		***Analyst: TJD***							
Conductivity	4/13/22 10:01	4/13/22 10:01			449.82	uS/cm			FA
pH	4/13/22 10:01	4/13/22 10:01			6.85	SU			FA
Temperature	4/13/22 10:01	4/13/22 10:01			30.23	C			FA
Turbidity	4/13/22 10:01	4/13/22 10:01			0.72	NTU			FA
Sulfide	4/13/22 10:01	4/13/22 10:01			0	mg/L			FA

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/13/22 10:05
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-10 DUP

Laboratory ID Number: BC07357

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07360	Aluminum, Dissolved	mg/L	0.000593	0.010	0.100	0.0994	0.0976	0.102	0.0850 to 0.115	99.4	70.0 to 130	1.83	20.0
BC07361	Aluminum, Total	mg/L	0.000653	0.010	0.100	0.106	0.109	0.114	0.0850 to 0.115	106	70.0 to 130	2.79	20.0
BC07360	Antimony, Dissolved	mg/L	0.000184	0.00100	0.100	0.0948	0.0962	0.0867	0.0850 to 0.115	94.8	70.0 to 130	1.47	20.0
BC07361	Antimony, Total	mg/L	0.000310	0.00100	0.100	0.104	0.108	0.104	0.0850 to 0.115	104	70.0 to 130	3.77	20.0
BC07360	Arsenic, Dissolved	mg/L	0.0000278	0.000176	0.100	0.0979	0.0963	0.102	0.0850 to 0.115	97.7	70.0 to 130	1.65	20.0
BC07361	Arsenic, Total	mg/L	0.0000077	0.000176	0.100	0.0993	0.101	0.104	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0
BC07360	Barium, Dissolved	mg/L	-0.0000005	0.00100	0.100	0.112	0.112	0.0908	0.0850 to 0.115	89.3	70.0 to 130	0.00	20.0
BC07361	Barium, Total	mg/L	-0.0000092	0.00100	0.100	0.112	0.114	0.110	0.0850 to 0.115	112	70.0 to 130	1.77	20.0
BC07360	Beryllium, Dissolved	mg/L	0.0000897	0.000880	0.100	0.0877	0.0882	0.0914	0.0850 to 0.115	87.7	70.0 to 130	0.569	20.0
BC07361	Beryllium, Total	mg/L	0.0000051	0.000880	0.100	0.106	0.105	0.109	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BC07360	Boron, Dissolved	mg/L	0.000005	0.0650	1.00	1.06	1.06	1.03	0.850 to 1.15	106	70.0 to 130	0.00	20.0
BC07361	Boron, Total	mg/L	-0.000208	0.0650	1.00	1.01	1.01	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC07360	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0986	0.0991	0.100	0.0850 to 0.115	98.6	70.0 to 130	0.506	20.0
BC07361	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.107	0.106	0.111	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BC07360	Calcium, Dissolved	mg/L	-0.00159	0.152	5.00	84.5	90.8	4.85	4.25 to 5.75	52.0	70.0 to 130	7.19	20.0
BC07361	Calcium, Total	mg/L	0.00105	0.152	5.00	4.84	4.83	4.89	4.25 to 5.75	96.8	70.0 to 130	0.207	20.0
BC07361	Chloride	mg/L	0.0101	1.00	10.0	9.92	9.84	9.85	9.00 to 11.0	99.2	80.0 to 120	0.810	20.0
BC07360	Chromium, Dissolved	mg/L	-0.0000240	0.000440	0.100	0.0973	0.0957	0.0979	0.0850 to 0.115	96.7	70.0 to 130	1.66	20.0
BC07361	Chromium, Total	mg/L	-0.0000857	0.000440	0.100	0.0964	0.0975	0.101	0.0850 to 0.115	96.4	70.0 to 130	1.13	20.0
BC07360	Cobalt, Dissolved	mg/L	-0.0000046	0.000147	0.100	0.0998	0.0987	0.0982	0.0850 to 0.115	99.6	70.0 to 130	1.11	20.0
BC07361	Cobalt, Total	mg/L	-0.0000744	0.000147	0.100	0.101	0.103	0.107	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BC07361	Fluoride	mg/L	-0.00923	0.125	2.50	2.61	2.50	2.60	2.25 to 2.75	104	80.0 to 120	4.31	20.0
BC07360	Iron, Dissolved	mg/L	0.000084	0.0176	0.2	0.202	0.202	0.207	0.170 to 0.230	101	70.0 to 130	0.00	20.0

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/13/22 10:05
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-10 DUP

Laboratory ID Number: BC07357

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07361	Iron, Total	mg/L	0.000618	0.0176	0.2	0.197	0.196	0.198	0.170 to 0.230	98.5	70.0 to 130	0.509	20.0
BC07360	Lead, Dissolved	mg/L	0.0000177	0.000147	0.100	0.0995	0.0995	0.0986	0.0850 to 0.115	99.5	70.0 to 130	0.00	20.0
BC07361	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.115	0.116	0.114	0.0850 to 0.115	115	70.0 to 130	0.866	20.0
BC07360	Lithium, Dissolved	mg/L	-0.000113	0.0154	0.200	0.205	0.209	0.211	0.170 to 0.230	102	70.0 to 130	1.93	20.0
BC07361	Lithium, Total	mg/L	0.000204	0.0154	0.200	0.202	0.198	0.202	0.170 to 0.230	101	70.0 to 130	2.00	20.0
BC07360	Magnesium, Dissolved	mg/L	-0.000969	0.0462	5.00	13.7	13.6	5.36	4.25 to 5.75	106	70.0 to 130	0.733	20.0
BC07361	Magnesium, Total	mg/L	0.00546	0.0462	5.00	5.18	5.11	5.18	4.25 to 5.75	104	70.0 to 130	1.36	20.0
BC07360	Manganese, Dissolved	mg/L	-0.0000191	0.0002	0.100	0.187	0.182	0.100	0.0850 to 0.115	99.4	70.0 to 130	2.71	20.0
BC07361	Manganese, Total	mg/L	-0.0000103	0.0002	0.100	0.103	0.105	0.109	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC07361	Mercury, Total by CVAA	mg/L	0.000110	0.000500	0.004	0.00375	0.00370	0.00387	0.00340 to 0.00460	93.8	70.0 to 130	1.34	20.0
BC07360	Molybdenum, Dissolved	mg/L	0.0000130	0.0002	0.100	0.0960	0.0965	0.0949	0.0850 to 0.115	95.7	70.0 to 130	0.519	20.0
BC07361	Molybdenum, Total	mg/L	0.0000091	0.0002	0.100	0.100	0.101	0.103	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC07360	Potassium, Dissolved	mg/L	-0.000327	0.367	10.0	10.2	10.1	10.2	8.50 to 11.5	99.6	70.0 to 130	0.985	20.0
BC07361	Potassium, Total	mg/L	-0.00861	0.367	10.0	9.55	9.72	10.1	8.50 to 11.5	95.5	70.0 to 130	1.76	20.0
BC07360	Selenium, Dissolved	mg/L	0.0000335	0.00100	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07361	Selenium, Total	mg/L	0.0000746	0.00100	0.100	0.104	0.105	0.108	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BC07360	Silicon, Dissolved	mg/L	-0.000426	0.0440	1.00	4.47	4.47	1.03	0.850 to 1.15	106	70.0 to 130	0.00	20.0
BC07361	Silicon, Total	mg/L	0.000115	0.0440	1.00	0.999	0.992	1.01	0.850 to 1.15	99.9	70.0 to 130	0.703	20.0
BC07360	Sodium, Dissolved	mg/L	0.000333	0.0660	5.00	9.67	9.89	5.39	4.25 to 5.75	102	70.0 to 130	2.25	20.0
BC07361	Sodium, Total	mg/L	0.00015	0.0660	5.00	5.08	4.99	5.16	4.25 to 5.75	102	70.0 to 130	1.79	20.0
BC07361	Sulfate	mg/L	0.157	2.0	20.0	20.4	20.3	19.9	18.0 to 22.0	102	80.0 to 120	0.491	20.0
BC07360	Thallium, Dissolved	mg/L	0.0000153	0.000147	0.100	0.102	0.100	0.0996	0.0850 to 0.115	102	70.0 to 130	1.98	20.0

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/13/22 10:05
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-10 DUP

Laboratory ID Number: BC07357

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07361	Thallium, Total	mg/L	-0.0000834	0.000147	0.100	0.110	0.112	0.111	0.0850 to 0.115	110	70.0 to 130	1.80	20.0
BC07361	Total Organic Carbon	mg/L	0.250	1.00	10.0	10.3	10.3	25.6		103	80.0 to 120	0.00	20.0

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

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASG
Sample Date: 4/13/22 10:05
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-10 DUP

Laboratory ID Number: BC07357

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07360	Alkalinity, Total as CaCO3	mg/L					241	50.9	45.0 to 55.0			7.76	10.0
BC07361	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.05	0.200	2.00	2.02	-0.069	1.96	1.80 to 2.20	101	90.0 to 110	0.00	15.0
BC07357	Solids, Dissolved	mg/L	0.0000	25.0			270	48.0	40.0 to 60.0			0.00	10.0

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

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum Field Blank-1

Location Code: WMWGASGFB
Collected: 4/13/22 10:40
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07358

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/22/22 14:24	4/25/22 12:05		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/22/22 14:24	4/25/22 12:05		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	4/22/22 14:24	4/25/22 12:05		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/22/22 14:24	4/25/22 12:05		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/22/22 14:24	4/25/22 12:05		1.015	Not Detected	mg/L	0.021315	0.406	U
Silica, Total (calc.)	4/22/22 14:24	4/25/22 12:05		1	Not Detected	mg/L			
Silicon, Total	4/22/22 14:24	4/25/22 12:05		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	4/22/22 14:24	4/25/22 12:05		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/18/22 10:35	4/19/22 18:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/18/22 10:35	4/19/22 18:19		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/18/22 10:35	4/19/22 18:19		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	4/18/22 10:35	4/19/22 18:19		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Beryllium, Total	4/18/22 10:35	4/19/22 18:19		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/18/22 10:35	4/19/22 18:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/18/22 10:35	4/19/22 18:19		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/18/22 10:35	4/19/22 18:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/18/22 10:35	4/19/22 18:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/18/22 10:35	4/19/22 18:19		1.015	Not Detected	mg/L	0.000152	0.000203	U
* Molybdenum, Total	4/18/22 10:35	4/19/22 18:19		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	4/18/22 10:35	4/19/22 18:19		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	4/18/22 10:35	4/19/22 18:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/18/22 10:35	4/19/22 18:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/22/22 11:23	4/22/22 14:59		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/19/22 14:45	4/19/22 14:45		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/14/22 14:13	4/18/22 13:18		1	Not Detected	mg/L		25	U

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

Comments:

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum Field Blank-1

Location Code: WMWGASGFB
Collected: 4/13/22 10:40
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07358

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		***Analyst: ELH***							
* Total Organic Carbon	4/25/22 21:18	4/25/22 21:18		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	4/15/22 10:20	4/15/22 10:20		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	4/15/22 15:24	4/15/22 15:24		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	4/19/22 12:12	4/19/22 12:12		1	Not Detected	mg/L	0.6	2	U

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

Comments:

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASGFB
Sample Date: 4/13/22 10:40
Customer ID:
Delivery Date: 4/14/22 11:53

Description:Gaston Gypsum Field Blank-1

Laboratory ID Number: BC07358

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07361	Aluminum, Total	mg/L	0.000653	0.010	0.100	0.106	0.109	0.114	0.0850 to 0.115	106	70.0 to 130	2.79	20.0
BC07361	Antimony, Total	mg/L	0.000310	0.00100	0.100	0.104	0.108	0.104	0.0850 to 0.115	104	70.0 to 130	3.77	20.0
BC07361	Arsenic, Total	mg/L	0.0000077	0.000176	0.100	0.0993	0.101	0.104	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0
BC07361	Barium, Total	mg/L	-0.0000092	0.00100	0.100	0.112	0.114	0.110	0.0850 to 0.115	112	70.0 to 130	1.77	20.0
BC07361	Beryllium, Total	mg/L	0.0000051	0.000880	0.100	0.106	0.105	0.109	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BC07361	Boron, Total	mg/L	-0.000208	0.0650	1.00	1.01	1.01	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC07361	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.107	0.106	0.111	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BC07361	Calcium, Total	mg/L	0.00105	0.152	5.00	4.84	4.83	4.89	4.25 to 5.75	96.8	70.0 to 130	0.207	20.0
BC07361	Chloride	mg/L	0.0101	1.00	10.0	9.92	9.84	9.85	9.00 to 11.0	99.2	80.0 to 120	0.810	20.0
BC07361	Chromium, Total	mg/L	-0.0000857	0.000440	0.100	0.0964	0.0975	0.101	0.0850 to 0.115	96.4	70.0 to 130	1.13	20.0
BC07361	Cobalt, Total	mg/L	-0.0000744	0.000147	0.100	0.101	0.103	0.107	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BC07361	Fluoride	mg/L	-0.00923	0.125	2.50	2.61	2.50	2.60	2.25 to 2.75	104	80.0 to 120	4.31	20.0
BC07361	Iron, Total	mg/L	0.000618	0.0176	0.2	0.197	0.196	0.198	0.170 to 0.230	98.5	70.0 to 130	0.509	20.0
BC07361	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.115	0.116	0.114	0.0850 to 0.115	115	70.0 to 130	0.866	20.0
BC07361	Lithium, Total	mg/L	0.000204	0.0154	0.200	0.202	0.198	0.202	0.170 to 0.230	101	70.0 to 130	2.00	20.0
BC07361	Magnesium, Total	mg/L	0.00546	0.0462	5.00	5.18	5.11	5.18	4.25 to 5.75	104	70.0 to 130	1.36	20.0
BC07361	Manganese, Total	mg/L	-0.0000103	0.0002	0.100	0.103	0.105	0.109	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC07361	Mercury, Total by CVAA	mg/L	0.000110	0.000500	0.004	0.00375	0.00370	0.00387	0.00340 to 0.00460	93.8	70.0 to 130	1.34	20.0
BC07361	Molybdenum, Total	mg/L	0.0000091	0.0002	0.100	0.100	0.101	0.103	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC07361	Potassium, Total	mg/L	-0.00861	0.367	10.0	9.55	9.72	10.1	8.50 to 11.5	95.5	70.0 to 130	1.76	20.0
BC07361	Selenium, Total	mg/L	0.0000746	0.00100	0.100	0.104	0.105	0.108	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BC07361	Silicon, Total	mg/L	0.000115	0.0440	1.00	0.999	0.992	1.01	0.850 to 1.15	99.9	70.0 to 130	0.703	20.0
BC07361	Sodium, Total	mg/L	0.00015	0.0660	5.00	5.08	4.99	5.16	4.25 to 5.75	102	70.0 to 130	1.79	20.0

Comments:

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASGFB
Sample Date: 4/13/22 10:40
Customer ID:
Delivery Date: 4/14/22 11:53

Description:Gaston Gypsum Field Blank-1

Laboratory ID Number: BC07358

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07361	Sulfate	mg/L	0.157	2.0	20.0	20.4	20.3	19.9	18.0 to 22.0	102	80.0 to 120	0.491	20.0
BC07361	Thallium, Total	mg/L	-0.0000834	0.000147	0.100	0.110	0.112	0.111	0.0850 to 0.115	110	70.0 to 130	1.80	20.0
BC07361	Total Organic Carbon	mg/L	0.250	1.00	10.0	10.3	10.3	25.6		103	80.0 to 120	0.00	20.0

Comments:

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASGFB
Sample Date: 4/13/22 10:40
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum Field Blank-1

Laboratory ID Number: BC07358

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07361	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.05	0.200	2.00	2.02	-0.069	1.96	1.80 to 2.20	101	90.0 to 110	0.00	15.0
BC07357	Solids, Dissolved	mg/L	0.0000	25.0			270	48.0	40.0 to 60.0			0.00	10.0

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-11

Location Code: WMWGASG
Collected: 4/13/22 11:33
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07359

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/22/22 14:24	4/25/22 12:08		1.015	0.0565	mg/L	0.030000	0.1015	J
* Calcium, Total	4/22/22 14:24	4/25/22 12:08		1.015	15.0	mg/L	0.070035	0.406	
* Iron, Total	4/22/22 14:24	4/25/22 12:08		1.015	0.0323	mg/L	0.008120	0.0406	J
* Lithium, Total	4/22/22 14:24	4/25/22 12:08		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/22/22 14:24	4/25/22 12:08		1.015	2.76	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/22/22 14:24	4/25/22 12:08		1	7.34	mg/L			
Silicon, Total	4/22/22 14:24	4/25/22 12:08		1.015	3.43	mg/L	0.02030	0.25375	
* Sodium, Total	4/22/22 14:24	4/25/22 12:08		1.015	5.34	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	4/26/22 10:33	4/27/22 10:28		1.015	0.0571	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	4/26/22 10:33	4/27/22 10:28		1.015	15.1	mg/L	0.070035	0.406	
* Iron, Dissolved	4/26/22 10:33	4/27/22 10:28		1.015	0.0314	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	4/26/22 10:33	4/27/22 10:28		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/26/22 10:33	4/27/22 10:28		1.015	2.78	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/26/22 10:33	4/27/22 10:28		1	7.38	mg/L			
Silicon, Dissolved	4/26/22 10:33	4/27/22 10:28		1.015	3.45	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/26/22 10:33	4/27/22 10:28		1.015	5.47	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/18/22 10:35	4/19/22 18:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/18/22 10:35	4/19/22 18:23		1.015	0.0101	mg/L	0.006090	0.01015	J
* Arsenic, Total	4/18/22 10:35	4/19/22 18:23		1.015	0.0000877	mg/L	0.000081	0.000203	J
* Barium, Total	4/18/22 10:35	4/19/22 18:23		1.015	0.0162	mg/L	0.000102	0.000203	
* Beryllium, Total	4/18/22 10:35	4/19/22 18:23		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/18/22 10:35	4/19/22 18:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/18/22 10:35	4/19/22 18:23		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/18/22 10:35	4/19/22 18:23		1.015	0.00324	mg/L	0.000068	0.000203	
* Lead, Total	4/18/22 10:35	4/19/22 18:23		1.015	0.000106	mg/L	0.000068	0.000203	J
* Manganese, Total	4/18/22 10:35	4/19/22 18:23		1.015	0.239	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/18/22 10:35	4/19/22 18:23		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	4/18/22 10:35	4/19/22 18:23		1.015	0.256	mg/L	0.169505	0.5075	J

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-11

Location Code: WMWGASG
Collected: 4/13/22 11:33
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07359

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/18/22 10:35	4/19/22 18:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/18/22 10:35	4/19/22 18:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	4/18/22 10:40	4/19/22 14:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/18/22 10:40	4/19/22 14:07		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/18/22 10:40	4/19/22 14:07		1.015	0.000168	mg/L	0.000081	0.000203	J
* Barium, Dissolved	4/18/22 10:40	4/19/22 14:07		1.015	0.0125	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/18/22 10:40	4/19/22 14:07		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/18/22 10:40	4/19/22 14:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/18/22 10:40	4/19/22 14:07		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/18/22 10:40	4/19/22 14:07		1.015	0.00333	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/18/22 10:40	4/19/22 14:07		1.015	0.000110	mg/L	0.000068	0.000203	J
* Manganese, Dissolved	4/18/22 10:40	4/19/22 14:07		1.015	0.228	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/18/22 10:40	4/19/22 14:07		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	4/18/22 10:40	4/19/22 14:07		1.015	0.278	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	4/18/22 10:40	4/19/22 14:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/18/22 10:40	4/19/22 14:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/22/22 11:23	4/22/22 15:01		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/19/22 14:46	4/19/22 14:46		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	4/27/22 08:10	4/27/22 09:02		1	33.6	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/18/22 10:48	4/19/22 13:20		1	84.0	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	4/27/22 08:10	4/27/22 09:02		1	33.6	mg/L			
Carbonate Alkalinity, (calc.)	4/27/22 08:10	4/27/22 09:02		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	4/25/22 21:35	4/25/22 21:35		1	Not Detected	mg/L	1.00	2	U

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-11

Location Code: WMWGASG
Collected: 4/13/22 11:33
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07359

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/15/22 10:21	4/15/22 10:21		1	19.6	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/15/22 15:25	4/15/22 15:25		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/19/22 12:13	4/19/22 12:13		1	2.73	mg/L	0.6	2	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/13/22 11:29	4/13/22 11:29			140.99	uS/cm			FA
pH	4/13/22 11:29	4/13/22 11:29			5.29	SU			FA
Temperature	4/13/22 11:29	4/13/22 11:29			29.00	C			FA
Turbidity	4/13/22 11:29	4/13/22 11:29			0.57	NTU			FA
Sulfide	4/13/22 11:29	4/13/22 11:29			0	mg/L			FA

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/13/22 11:33
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-11

Laboratory ID Number: BC07359

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07360	Aluminum, Dissolved	mg/L	0.000593	0.010	0.100	0.0994	0.0976	0.102	0.0850 to 0.115	99.4	70.0 to 130	1.83	20.0
BC07361	Aluminum, Total	mg/L	0.000653	0.010	0.100	0.106	0.109	0.114	0.0850 to 0.115	106	70.0 to 130	2.79	20.0
BC07360	Antimony, Dissolved	mg/L	0.000184	0.00100	0.100	0.0948	0.0962	0.0867	0.0850 to 0.115	94.8	70.0 to 130	1.47	20.0
BC07361	Antimony, Total	mg/L	0.000310	0.00100	0.100	0.104	0.108	0.104	0.0850 to 0.115	104	70.0 to 130	3.77	20.0
BC07360	Arsenic, Dissolved	mg/L	0.0000278	0.000176	0.100	0.0979	0.0963	0.102	0.0850 to 0.115	97.7	70.0 to 130	1.65	20.0
BC07361	Arsenic, Total	mg/L	0.0000077	0.000176	0.100	0.0993	0.101	0.104	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0
BC07360	Barium, Dissolved	mg/L	-0.0000005	0.00100	0.100	0.112	0.112	0.0908	0.0850 to 0.115	89.3	70.0 to 130	0.00	20.0
BC07361	Barium, Total	mg/L	-0.0000092	0.00100	0.100	0.112	0.114	0.110	0.0850 to 0.115	112	70.0 to 130	1.77	20.0
BC07360	Beryllium, Dissolved	mg/L	0.0000897	0.000880	0.100	0.0877	0.0882	0.0914	0.0850 to 0.115	87.7	70.0 to 130	0.569	20.0
BC07361	Beryllium, Total	mg/L	0.0000051	0.000880	0.100	0.106	0.105	0.109	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BC07360	Boron, Dissolved	mg/L	0.000005	0.0650	1.00	1.06	1.06	1.03	0.850 to 1.15	106	70.0 to 130	0.00	20.0
BC07361	Boron, Total	mg/L	-0.000208	0.0650	1.00	1.01	1.01	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC07360	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0986	0.0991	0.100	0.0850 to 0.115	98.6	70.0 to 130	0.506	20.0
BC07361	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.107	0.106	0.111	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BC07360	Calcium, Dissolved	mg/L	-0.00159	0.152	5.00	84.5	90.8	4.85	4.25 to 5.75	52.0	70.0 to 130	7.19	20.0
BC07361	Calcium, Total	mg/L	0.00105	0.152	5.00	4.84	4.83	4.89	4.25 to 5.75	96.8	70.0 to 130	0.207	20.0
BC07361	Chloride	mg/L	0.0101	1.00	10.0	9.92	9.84	9.85	9.00 to 11.0	99.2	80.0 to 120	0.810	20.0
BC07360	Chromium, Dissolved	mg/L	-0.0000240	0.000440	0.100	0.0973	0.0957	0.0979	0.0850 to 0.115	96.7	70.0 to 130	1.66	20.0
BC07361	Chromium, Total	mg/L	-0.0000857	0.000440	0.100	0.0964	0.0975	0.101	0.0850 to 0.115	96.4	70.0 to 130	1.13	20.0
BC07360	Cobalt, Dissolved	mg/L	-0.0000046	0.000147	0.100	0.0998	0.0987	0.0982	0.0850 to 0.115	99.6	70.0 to 130	1.11	20.0
BC07361	Cobalt, Total	mg/L	-0.0000744	0.000147	0.100	0.101	0.103	0.107	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BC07361	Fluoride	mg/L	-0.00923	0.125	2.50	2.61	2.50	2.60	2.25 to 2.75	104	80.0 to 120	4.31	20.0
BC07360	Iron, Dissolved	mg/L	0.000084	0.0176	0.2	0.202	0.202	0.207	0.170 to 0.230	101	70.0 to 130	0.00	20.0

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/13/22 11:33
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-11

Laboratory ID Number: BC07359

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07361	Iron, Total	mg/L	0.000618	0.0176	0.2	0.197	0.196	0.198	0.170 to 0.230	98.5	70.0 to 130	0.509	20.0
BC07360	Lead, Dissolved	mg/L	0.0000177	0.000147	0.100	0.0995	0.0995	0.0986	0.0850 to 0.115	99.5	70.0 to 130	0.00	20.0
BC07361	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.115	0.116	0.114	0.0850 to 0.115	115	70.0 to 130	0.866	20.0
BC07360	Lithium, Dissolved	mg/L	-0.000113	0.0154	0.200	0.205	0.209	0.211	0.170 to 0.230	102	70.0 to 130	1.93	20.0
BC07361	Lithium, Total	mg/L	0.000204	0.0154	0.200	0.202	0.198	0.202	0.170 to 0.230	101	70.0 to 130	2.00	20.0
BC07360	Magnesium, Dissolved	mg/L	-0.000969	0.0462	5.00	13.7	13.6	5.36	4.25 to 5.75	106	70.0 to 130	0.733	20.0
BC07361	Magnesium, Total	mg/L	0.00546	0.0462	5.00	5.18	5.11	5.18	4.25 to 5.75	104	70.0 to 130	1.36	20.0
BC07360	Manganese, Dissolved	mg/L	-0.0000191	0.0002	0.100	0.187	0.182	0.100	0.0850 to 0.115	99.4	70.0 to 130	2.71	20.0
BC07361	Manganese, Total	mg/L	-0.0000103	0.0002	0.100	0.103	0.105	0.109	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC07361	Mercury, Total by CVAA	mg/L	0.000110	0.000500	0.004	0.00375	0.00370	0.00387	0.00340 to 0.00460	93.8	70.0 to 130	1.34	20.0
BC07360	Molybdenum, Dissolved	mg/L	0.0000130	0.0002	0.100	0.0960	0.0965	0.0949	0.0850 to 0.115	95.7	70.0 to 130	0.519	20.0
BC07361	Molybdenum, Total	mg/L	0.0000091	0.0002	0.100	0.100	0.101	0.103	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC07360	Potassium, Dissolved	mg/L	-0.000327	0.367	10.0	10.2	10.1	10.2	8.50 to 11.5	99.6	70.0 to 130	0.985	20.0
BC07361	Potassium, Total	mg/L	-0.00861	0.367	10.0	9.55	9.72	10.1	8.50 to 11.5	95.5	70.0 to 130	1.76	20.0
BC07360	Selenium, Dissolved	mg/L	0.0000335	0.00100	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07361	Selenium, Total	mg/L	0.0000746	0.00100	0.100	0.104	0.105	0.108	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BC07360	Silicon, Dissolved	mg/L	-0.000426	0.0440	1.00	4.47	4.47	1.03	0.850 to 1.15	106	70.0 to 130	0.00	20.0
BC07361	Silicon, Total	mg/L	0.000115	0.0440	1.00	0.999	0.992	1.01	0.850 to 1.15	99.9	70.0 to 130	0.703	20.0
BC07360	Sodium, Dissolved	mg/L	0.000333	0.0660	5.00	9.67	9.89	5.39	4.25 to 5.75	102	70.0 to 130	2.25	20.0
BC07361	Sodium, Total	mg/L	0.00015	0.0660	5.00	5.08	4.99	5.16	4.25 to 5.75	102	70.0 to 130	1.79	20.0
BC07361	Sulfate	mg/L	0.157	2.0	20.0	20.4	20.3	19.9	18.0 to 22.0	102	80.0 to 120	0.491	20.0
BC07360	Thallium, Dissolved	mg/L	0.0000153	0.000147	0.100	0.102	0.100	0.0996	0.0850 to 0.115	102	70.0 to 130	1.98	20.0

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/13/22 11:33
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-11

Laboratory ID Number: BC07359

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07361	Thallium, Total	mg/L	-0.0000834	0.000147	0.100	0.110	0.112	0.111	0.0850 to 0.115	110	70.0 to 130	1.80	20.0
BC07361	Total Organic Carbon	mg/L	0.250	1.00	10.0	10.3	10.3	25.6		103	80.0 to 120	0.00	20.0

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

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASG
Sample Date: 4/13/22 11:33
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-11

Laboratory ID Number: BC07359

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07360	Alkalinity, Total as CaCO3	mg/L					241	50.9	45.0 to 55.0			7.76	10.0
BC07361	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.05	0.200	2.00	2.02	-0.069	1.96	1.80 to 2.20	101	90.0 to 110	0.00	15.0
BC07360	Solids, Dissolved	mg/L	0.0000	25.0			241	49.0	40.0 to 60.0			3.67	10.0

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

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-12

Location Code: WMWGASG
Collected: 4/13/22 12:25
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07360

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/22/22 14:24	4/25/22 12:10		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/22/22 14:24	4/25/22 13:54		10.15	88.0	mg/L	0.70035	4.06	
* Iron, Total	4/22/22 14:24	4/25/22 12:10		1.015	0.0122	mg/L	0.008120	0.0406	J
* Lithium, Total	4/22/22 14:24	4/25/22 12:10		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/22/22 14:24	4/25/22 12:10		1.015	8.30	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/22/22 14:24	4/25/22 12:10		1	7.30	mg/L			
Silicon, Total	4/22/22 14:24	4/25/22 12:10		1.015	3.41	mg/L	0.02030	0.25375	
* Sodium, Total	4/22/22 14:24	4/25/22 12:10		1.015	4.40	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	4/26/22 10:33	4/27/22 10:31		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	4/26/22 10:33	4/27/22 12:20		10.15	81.9	mg/L	0.70035	4.06	RA
* Iron, Dissolved	4/26/22 10:33	4/27/22 10:31		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	4/26/22 10:33	4/27/22 10:31		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/26/22 10:33	4/27/22 10:31		1.015	8.42	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/26/22 10:33	4/27/22 10:31		1	7.30	mg/L			
Silicon, Dissolved	4/26/22 10:33	4/27/22 10:31		1.015	3.41	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/26/22 10:33	4/27/22 10:31		1.015	4.55	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/18/22 10:35	4/19/22 18:27		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/18/22 10:35	4/19/22 18:27		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/18/22 10:35	4/19/22 18:27		1.015	0.000210	mg/L	0.000081	0.000203	
* Barium, Total	4/18/22 10:35	4/19/22 18:27		1.015	0.0272	mg/L	0.000102	0.000203	
* Beryllium, Total	4/18/22 10:35	4/19/22 18:27		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/18/22 10:35	4/19/22 18:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/18/22 10:35	4/19/22 18:27		1.015	0.000210	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/18/22 10:35	4/19/22 18:27		1.015	0.000155	mg/L	0.000068	0.000203	J
* Lead, Total	4/18/22 10:35	4/19/22 18:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/18/22 10:35	4/19/22 18:27		1.015	0.0996	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/18/22 10:35	4/19/22 18:27		1.015	0.000310	mg/L	0.000102	0.000203	
* Potassium, Total	4/18/22 10:35	4/19/22 18:27		1.015	0.244	mg/L	0.169505	0.5075	J

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-12

Location Code: WMWGASG
Collected: 4/13/22 12:25
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07360

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/18/22 10:35	4/19/22 18:27		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/18/22 10:35	4/19/22 18:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	4/18/22 10:40	4/19/22 14:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/18/22 10:40	4/19/22 14:11		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/18/22 10:40	4/19/22 14:11		1.015	0.000213	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/18/22 10:40	4/19/22 14:11		1.015	0.0227	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/18/22 10:40	4/19/22 14:11		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/18/22 10:40	4/19/22 14:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/18/22 10:40	4/19/22 14:11		1.015	0.000627	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	4/18/22 10:40	4/19/22 14:11		1.015	0.000201	mg/L	0.000068	0.000203	J
* Lead, Dissolved	4/18/22 10:40	4/19/22 14:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/18/22 10:40	4/19/22 14:11		1.015	0.0876	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/18/22 10:40	4/19/22 14:11		1.015	0.000275	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/18/22 10:40	4/19/22 14:11		1.015	0.239	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	4/18/22 10:40	4/19/22 14:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/18/22 10:40	4/19/22 14:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/22/22 11:23	4/22/22 15:03		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/19/22 14:47	4/19/22 14:47		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	4/27/22 08:10	4/27/22 09:02		1	223	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/18/22 10:48	4/19/22 13:20		1	250	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	4/27/22 08:10	4/27/22 09:02		1	222	mg/L			
Carbonate Alkalinity, (calc.)	4/27/22 08:10	4/27/22 09:02		1	0.603	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	4/25/22 21:56	4/25/22 21:56		1	Not Detected	mg/L	1.00	2	U

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-12

Location Code: WMWGASG
Collected: 4/13/22 12:25
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07360

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/15/22 10:23	4/15/22 10:23		1	3.76	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/15/22 15:27	4/15/22 15:27		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/19/22 12:14	4/19/22 12:14		1	8.25	mg/L	0.6	2	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/13/22 12:20	4/13/22 12:20			415.59	uS/cm			FA
pH	4/13/22 12:20	4/13/22 12:20			6.74	SU			FA
Temperature	4/13/22 12:20	4/13/22 12:20			28.15	C			FA
Turbidity	4/13/22 12:20	4/13/22 12:20			0.71	NTU			FA
Sulfide	4/13/22 12:20	4/13/22 12:20			0	mg/L			FA

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

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

Alabama Power Company
Plant Gaston Gypsum Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-1	Conductivity	4/13/2022 9:37	381	uS/cm
GN-GSA-MW-1	DO	4/13/2022 9:37	0.32	mg/L
GN-GSA-MW-1	Depth to Water Detail	4/13/2022 9:37	27.93	ft
GN-GSA-MW-1	Oxidation Reduction Potention	4/13/2022 9:37	-0.48	mv
GN-GSA-MW-1	pH	4/13/2022 9:37	7.48	SU
GN-GSA-MW-1	Temperature	4/13/2022 9:37	19.99	C
GN-GSA-MW-1	Turbidity	4/13/2022 9:37	0.7	NTU
GN-GSA-MW-1	Conductivity	4/13/2022 9:42	379.21	uS/cm
GN-GSA-MW-1	DO	4/13/2022 9:42	0.24	mg/L
GN-GSA-MW-1	Depth to Water Detail	4/13/2022 9:42	28.26	ft
GN-GSA-MW-1	Oxidation Reduction Potention	4/13/2022 9:42	-21.89	mv
GN-GSA-MW-1	pH	4/13/2022 9:42	7.49	SU
GN-GSA-MW-1	Temperature	4/13/2022 9:42	19.99	C
GN-GSA-MW-1	Turbidity	4/13/2022 9:42	0.75	NTU
GN-GSA-MW-1	Conductivity	4/13/2022 9:47	379.86	uS/cm
GN-GSA-MW-1	DO	4/13/2022 9:47	0.05	mg/L
GN-GSA-MW-1	Depth to Water Detail	4/13/2022 9:47	28.44	ft
GN-GSA-MW-1	Oxidation Reduction Potention	4/13/2022 9:47	-38.57	mv
GN-GSA-MW-1	pH	4/13/2022 9:47	7.5	SU
GN-GSA-MW-1	Temperature	4/13/2022 9:47	20.11	C
GN-GSA-MW-1	Turbidity	4/13/2022 9:47	0.72	NTU
GN-GSA-MW-1	Conductivity	4/13/2022 9:52	380.36	uS/cm
GN-GSA-MW-1	DO	4/13/2022 9:52	0.11	mg/L
GN-GSA-MW-1	Depth to Water Detail	4/13/2022 9:52	28.63	ft
GN-GSA-MW-1	Oxidation Reduction Potention	4/13/2022 9:52	-49.93	mv
GN-GSA-MW-1	pH	4/13/2022 9:52	7.49	SU
GN-GSA-MW-1	Temperature	4/13/2022 9:52	20.14	C
GN-GSA-MW-1	Turbidity	4/13/2022 9:52	0.76	NTU
GN-GSA-MW-1	Conductivity	4/13/2022 9:57	379.96	uS/cm
GN-GSA-MW-1	DO	4/13/2022 9:57	0.15	mg/L
GN-GSA-MW-1	Depth to Water Detail	4/13/2022 9:57	28.72	ft
GN-GSA-MW-1	Oxidation Reduction Potention	4/13/2022 9:57	-58.89	mv
GN-GSA-MW-1	pH	4/13/2022 9:57	7.5	SU
GN-GSA-MW-1	Sulfide	4/13/2022 9:57	0	mg/L
GN-GSA-MW-1	Temperature	4/13/2022 9:57	20.05	C
GN-GSA-MW-1	Turbidity	4/13/2022 9:57	1.56	NTU

Alabama Power Company
Plant Gaston Gypsum Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-2	Conductivity	4/12/2022 10:42	513.29	uS/cm
GN-GSA-MW-2	DO	4/12/2022 10:42	2.11	mg/L
GN-GSA-MW-2	Depth to Water Detail	4/12/2022 10:42	13.81	ft
GN-GSA-MW-2	Oxidation Reduction Potention	4/12/2022 10:42	31.02	mv
GN-GSA-MW-2	pH	4/12/2022 10:42	6.4	SU
GN-GSA-MW-2	Temperature	4/12/2022 10:42	21.81	C
GN-GSA-MW-2	Turbidity	4/12/2022 10:42	2.55	NTU
GN-GSA-MW-2	Conductivity	4/12/2022 10:47	496.83	uS/cm
GN-GSA-MW-2	DO	4/12/2022 10:47	2.35	mg/L
GN-GSA-MW-2	Depth to Water Detail	4/12/2022 10:47	14.22	ft
GN-GSA-MW-2	Oxidation Reduction Potention	4/12/2022 10:47	25.17	mv
GN-GSA-MW-2	pH	4/12/2022 10:47	6.39	SU
GN-GSA-MW-2	Temperature	4/12/2022 10:47	21.53	C
GN-GSA-MW-2	Turbidity	4/12/2022 10:47	2.05	NTU
GN-GSA-MW-2	Conductivity	4/12/2022 10:52	483.32	uS/cm
GN-GSA-MW-2	DO	4/12/2022 10:52	2.88	mg/L
GN-GSA-MW-2	Depth to Water Detail	4/12/2022 10:52	14.32	ft
GN-GSA-MW-2	Oxidation Reduction Potention	4/12/2022 10:52	24.59	mv
GN-GSA-MW-2	pH	4/12/2022 10:52	6.42	SU
GN-GSA-MW-2	Temperature	4/12/2022 10:52	21.42	C
GN-GSA-MW-2	Turbidity	4/12/2022 10:52	1.96	NTU
GN-GSA-MW-2	Conductivity	4/12/2022 10:57	478.16	uS/cm
GN-GSA-MW-2	DO	4/12/2022 10:57	3.08	mg/L
GN-GSA-MW-2	Depth to Water Detail	4/12/2022 10:57	14.45	ft
GN-GSA-MW-2	Oxidation Reduction Potention	4/12/2022 10:57	26.93	mv
GN-GSA-MW-2	pH	4/12/2022 10:57	6.44	SU
GN-GSA-MW-2	Temperature	4/12/2022 10:57	21.66	C
GN-GSA-MW-2	Turbidity	4/12/2022 10:57	1.87	NTU
GN-GSA-MW-2	Conductivity	4/12/2022 11:02	477.36	uS/cm
GN-GSA-MW-2	DO	4/12/2022 11:02	3.1	mg/L
GN-GSA-MW-2	Depth to Water Detail	4/12/2022 11:02	14.53	ft
GN-GSA-MW-2	Oxidation Reduction Potention	4/12/2022 11:02	29.81	mv
GN-GSA-MW-2	pH	4/12/2022 11:02	6.48	SU
GN-GSA-MW-2	Sulfide	4/12/2022 11:02	0	mg/L
GN-GSA-MW-2	Temperature	4/12/2022 11:02	21.7	C
GN-GSA-MW-2	Turbidity	4/12/2022 11:02	1.99	NTU

Alabama Power Company
Plant Gaston Gypsum Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-3	Conductivity	4/12/2022 14:58	207.77	uS/cm
GN-GSA-MW-3	DO	4/12/2022 14:58	1.39	mg/L
GN-GSA-MW-3	Depth to Water Detail	4/12/2022 14:58	13.41	ft
GN-GSA-MW-3	Oxidation Reduction Potention	4/12/2022 14:58	150.8	mv
GN-GSA-MW-3	pH	4/12/2022 14:58	5.16	SU
GN-GSA-MW-3	Temperature	4/12/2022 14:58	20.38	C
GN-GSA-MW-3	Turbidity	4/12/2022 14:58	1.62	NTU
GN-GSA-MW-3	Conductivity	4/12/2022 15:03	193.94	uS/cm
GN-GSA-MW-3	DO	4/12/2022 15:03	1.53	mg/L
GN-GSA-MW-3	Depth to Water Detail	4/12/2022 15:03	15	ft
GN-GSA-MW-3	Oxidation Reduction Potention	4/12/2022 15:03	150	mv
GN-GSA-MW-3	pH	4/12/2022 15:03	5.15	SU
GN-GSA-MW-3	Temperature	4/12/2022 15:03	20.23	C
GN-GSA-MW-3	Turbidity	4/12/2022 15:03	1.56	NTU
GN-GSA-MW-3	Conductivity	4/12/2022 15:08	195.56	uS/cm
GN-GSA-MW-3	DO	4/12/2022 15:08	1.63	mg/L
GN-GSA-MW-3	Depth to Water Detail	4/12/2022 15:08	15.68	ft
GN-GSA-MW-3	Oxidation Reduction Potention	4/12/2022 15:08	148.83	mv
GN-GSA-MW-3	pH	4/12/2022 15:08	5.19	SU
GN-GSA-MW-3	Temperature	4/12/2022 15:08	20.45	C
GN-GSA-MW-3	Turbidity	4/12/2022 15:08	1.25	NTU
GN-GSA-MW-3	Conductivity	4/12/2022 15:13	201.53	uS/cm
GN-GSA-MW-3	DO	4/12/2022 15:13	1.69	mg/L
GN-GSA-MW-3	Depth to Water Detail	4/12/2022 15:13	16.22	ft
GN-GSA-MW-3	Oxidation Reduction Potention	4/12/2022 15:13	146.86	mv
GN-GSA-MW-3	pH	4/12/2022 15:13	5.25	SU
GN-GSA-MW-3	Temperature	4/12/2022 15:13	20.84	C
GN-GSA-MW-3	Turbidity	4/12/2022 15:13	1.11	NTU
GN-GSA-MW-3	Conductivity	4/12/2022 15:18	212.37	uS/cm
GN-GSA-MW-3	DO	4/12/2022 15:18	1.69	mg/L
GN-GSA-MW-3	Depth to Water Detail	4/12/2022 15:18	16.56	ft
GN-GSA-MW-3	Oxidation Reduction Potention	4/12/2022 15:18	145.3	mv
GN-GSA-MW-3	pH	4/12/2022 15:18	5.31	SU
GN-GSA-MW-3	Temperature	4/12/2022 15:18	20.86	C
GN-GSA-MW-3	Turbidity	4/12/2022 15:18	1.04	NTU
GN-GSA-MW-3	Conductivity	4/12/2022 15:23	220.74	uS/cm
GN-GSA-MW-3	DO	4/12/2022 15:23	1.72	mg/L
GN-GSA-MW-3	Depth to Water Detail	4/12/2022 15:23	16.8	ft
GN-GSA-MW-3	Oxidation Reduction Potention	4/12/2022 15:23	143.24	mv
GN-GSA-MW-3	pH	4/12/2022 15:23	5.36	SU
GN-GSA-MW-3	Temperature	4/12/2022 15:23	20.88	C
GN-GSA-MW-3	Turbidity	4/12/2022 15:23	1.22	NTU
GN-GSA-MW-3	Conductivity	4/12/2022 15:28	228.72	uS/cm
GN-GSA-MW-3	DO	4/12/2022 15:28	1.73	mg/L
GN-GSA-MW-3	Depth to Water Detail	4/12/2022 15:28	17.08	ft
GN-GSA-MW-3	Oxidation Reduction Potention	4/12/2022 15:28	140.21	mv
GN-GSA-MW-3	pH	4/12/2022 15:28	5.4	SU
GN-GSA-MW-3	Temperature	4/12/2022 15:28	20.77	C
GN-GSA-MW-3	Turbidity	4/12/2022 15:28	1.4	NTU

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/13/22 12:25
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-12

Laboratory ID Number: BC07360

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07360	Aluminum, Dissolved	mg/L	0.000593	0.010	0.100	0.0994	0.0976	0.102	0.0850 to 0.115	99.4	70.0 to 130	1.83	20.0
BC07361	Aluminum, Total	mg/L	0.000653	0.010	0.100	0.106	0.109	0.114	0.0850 to 0.115	106	70.0 to 130	2.79	20.0
BC07360	Antimony, Dissolved	mg/L	0.000184	0.00100	0.100	0.0948	0.0962	0.0867	0.0850 to 0.115	94.8	70.0 to 130	1.47	20.0
BC07361	Antimony, Total	mg/L	0.000310	0.00100	0.100	0.104	0.108	0.104	0.0850 to 0.115	104	70.0 to 130	3.77	20.0
BC07360	Arsenic, Dissolved	mg/L	0.0000278	0.000176	0.100	0.0979	0.0963	0.102	0.0850 to 0.115	97.7	70.0 to 130	1.65	20.0
BC07361	Arsenic, Total	mg/L	0.0000077	0.000176	0.100	0.0993	0.101	0.104	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0
BC07360	Barium, Dissolved	mg/L	-0.0000005	0.00100	0.100	0.112	0.112	0.0908	0.0850 to 0.115	89.3	70.0 to 130	0.00	20.0
BC07361	Barium, Total	mg/L	-0.0000092	0.00100	0.100	0.112	0.114	0.110	0.0850 to 0.115	112	70.0 to 130	1.77	20.0
BC07360	Beryllium, Dissolved	mg/L	0.0000897	0.000880	0.100	0.0877	0.0882	0.0914	0.0850 to 0.115	87.7	70.0 to 130	0.569	20.0
BC07361	Beryllium, Total	mg/L	0.0000051	0.000880	0.100	0.106	0.105	0.109	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BC07360	Boron, Dissolved	mg/L	0.000005	0.0650	1.00	1.06	1.06	1.03	0.850 to 1.15	106	70.0 to 130	0.00	20.0
BC07361	Boron, Total	mg/L	-0.000208	0.0650	1.00	1.01	1.01	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC07360	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0986	0.0991	0.100	0.0850 to 0.115	98.6	70.0 to 130	0.506	20.0
BC07361	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.107	0.106	0.111	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BC07360	Calcium, Dissolved	mg/L	-0.00159	0.152	5.00	84.5	90.8	4.85	4.25 to 5.75	52.0	70.0 to 130	7.19	20.0
BC07361	Calcium, Total	mg/L	0.00105	0.152	5.00	4.84	4.83	4.89	4.25 to 5.75	96.8	70.0 to 130	0.207	20.0
BC07361	Chloride	mg/L	0.0101	1.00	10.0	9.92	9.84	9.85	9.00 to 11.0	99.2	80.0 to 120	0.810	20.0
BC07360	Chromium, Dissolved	mg/L	-0.0000240	0.000440	0.100	0.0973	0.0957	0.0979	0.0850 to 0.115	96.7	70.0 to 130	1.66	20.0
BC07361	Chromium, Total	mg/L	-0.0000857	0.000440	0.100	0.0964	0.0975	0.101	0.0850 to 0.115	96.4	70.0 to 130	1.13	20.0
BC07360	Cobalt, Dissolved	mg/L	-0.0000046	0.000147	0.100	0.0998	0.0987	0.0982	0.0850 to 0.115	99.6	70.0 to 130	1.11	20.0
BC07361	Cobalt, Total	mg/L	-0.0000744	0.000147	0.100	0.101	0.103	0.107	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BC07361	Fluoride	mg/L	-0.00923	0.125	2.50	2.61	2.50	2.60	2.25 to 2.75	104	80.0 to 120	4.31	20.0
BC07360	Iron, Dissolved	mg/L	0.000084	0.0176	0.2	0.202	0.202	0.207	0.170 to 0.230	101	70.0 to 130	0.00	20.0

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

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/13/22 12:25
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-12

Laboratory ID Number: BC07360

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07361	Iron, Total	mg/L	0.000618	0.0176	0.2	0.197	0.196	0.198	0.170 to 0.230	98.5	70.0 to 130	0.509	20.0
BC07360	Lead, Dissolved	mg/L	0.0000177	0.000147	0.100	0.0995	0.0995	0.0986	0.0850 to 0.115	99.5	70.0 to 130	0.00	20.0
BC07361	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.115	0.116	0.114	0.0850 to 0.115	115	70.0 to 130	0.866	20.0
BC07360	Lithium, Dissolved	mg/L	-0.000113	0.0154	0.200	0.205	0.209	0.211	0.170 to 0.230	102	70.0 to 130	1.93	20.0
BC07361	Lithium, Total	mg/L	0.000204	0.0154	0.200	0.202	0.198	0.202	0.170 to 0.230	101	70.0 to 130	2.00	20.0
BC07360	Magnesium, Dissolved	mg/L	-0.000969	0.0462	5.00	13.7	13.6	5.36	4.25 to 5.75	106	70.0 to 130	0.733	20.0
BC07361	Magnesium, Total	mg/L	0.00546	0.0462	5.00	5.18	5.11	5.18	4.25 to 5.75	104	70.0 to 130	1.36	20.0
BC07360	Manganese, Dissolved	mg/L	-0.0000191	0.0002	0.100	0.187	0.182	0.100	0.0850 to 0.115	99.4	70.0 to 130	2.71	20.0
BC07361	Manganese, Total	mg/L	-0.0000103	0.0002	0.100	0.103	0.105	0.109	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC07361	Mercury, Total by CVAA	mg/L	0.000110	0.000500	0.004	0.00375	0.00370	0.00387	0.00340 to 0.00460	93.8	70.0 to 130	1.34	20.0
BC07360	Molybdenum, Dissolved	mg/L	0.0000130	0.0002	0.100	0.0960	0.0965	0.0949	0.0850 to 0.115	95.7	70.0 to 130	0.519	20.0
BC07361	Molybdenum, Total	mg/L	0.0000091	0.0002	0.100	0.100	0.101	0.103	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC07360	Potassium, Dissolved	mg/L	-0.000327	0.367	10.0	10.2	10.1	10.2	8.50 to 11.5	99.6	70.0 to 130	0.985	20.0
BC07361	Potassium, Total	mg/L	-0.00861	0.367	10.0	9.55	9.72	10.1	8.50 to 11.5	95.5	70.0 to 130	1.76	20.0
BC07360	Selenium, Dissolved	mg/L	0.0000335	0.00100	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07361	Selenium, Total	mg/L	0.0000746	0.00100	0.100	0.104	0.105	0.108	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BC07360	Silicon, Dissolved	mg/L	-0.000426	0.0440	1.00	4.47	4.47	1.03	0.850 to 1.15	106	70.0 to 130	0.00	20.0
BC07361	Silicon, Total	mg/L	0.000115	0.0440	1.00	0.999	0.992	1.01	0.850 to 1.15	99.9	70.0 to 130	0.703	20.0
BC07360	Sodium, Dissolved	mg/L	0.000333	0.0660	5.00	9.67	9.89	5.39	4.25 to 5.75	102	70.0 to 130	2.25	20.0
BC07361	Sodium, Total	mg/L	0.00015	0.0660	5.00	5.08	4.99	5.16	4.25 to 5.75	102	70.0 to 130	1.79	20.0
BC07361	Sulfate	mg/L	0.157	2.0	20.0	20.4	20.3	19.9	18.0 to 22.0	102	80.0 to 120	0.491	20.0
BC07360	Thallium, Dissolved	mg/L	0.0000153	0.000147	0.100	0.102	0.100	0.0996	0.0850 to 0.115	102	70.0 to 130	1.98	20.0

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

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/13/22 12:25
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-12

Laboratory ID Number: BC07360

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07361	Thallium, Total	mg/L	-0.0000834	0.000147	0.100	0.110	0.112	0.111	0.0850 to 0.115	110	70.0 to 130	1.80	20.0
BC07361	Total Organic Carbon	mg/L	0.250	1.00	10.0	10.3	10.3	25.6		103	80.0 to 120	0.00	20.0

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

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASG
Sample Date: 4/13/22 12:25
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum - MW-12

Laboratory ID Number: BC07360

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07360	Alkalinity, Total as CaCO3	mg/L					241	50.9	45.0 to 55.0			7.76	10.0
BC07361	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.05	0.200	2.00	2.02	-0.069	1.96	1.80 to 2.20	101	90.0 to 110	0.00	15.0
BC07360	Solids, Dissolved	mg/L	0.0000	25.0			241	49.0	40.0 to 60.0			3.67	10.0

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

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum Equipment Blank-1

Location Code: WMWGASGEB
Collected: 4/13/22 12:40
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07361

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/22/22 14:24	4/25/22 12:13		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/22/22 14:24	4/25/22 12:13		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	4/22/22 14:24	4/25/22 12:13		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/22/22 14:24	4/25/22 12:13		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/22/22 14:24	4/25/22 12:13		1.015	Not Detected	mg/L	0.021315	0.406	U
Silica, Total (calc.)	4/22/22 14:24	4/25/22 12:13		1	Not Detected	mg/L			
Silicon, Total	4/22/22 14:24	4/25/22 12:13		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	4/22/22 14:24	4/25/22 12:13		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/18/22 10:35	4/19/22 18:30		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/18/22 10:35	4/19/22 18:30		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/18/22 10:35	4/19/22 18:30		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	4/18/22 10:35	4/19/22 18:30		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Beryllium, Total	4/18/22 10:35	4/19/22 18:30		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/18/22 10:35	4/19/22 18:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/18/22 10:35	4/19/22 18:30		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/18/22 10:35	4/19/22 18:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/18/22 10:35	4/19/22 18:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/18/22 10:35	4/19/22 18:30		1.015	Not Detected	mg/L	0.000152	0.000203	U
* Molybdenum, Total	4/18/22 10:35	4/19/22 18:30		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	4/18/22 10:35	4/19/22 18:30		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	4/18/22 10:35	4/19/22 18:30		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/18/22 10:35	4/19/22 18:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/22/22 11:23	4/22/22 15:06		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/19/22 14:48	4/19/22 14:48		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/18/22 10:48	4/19/22 13:20		1	Not Detected	mg/L		25	U

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

Comments:

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum Equipment Blank-1

Location Code: WMWGASGEB
Collected: 4/13/22 12:40
Customer ID:
Submittal Date: 4/14/22 11:53

Laboratory ID Number: BC07361

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	4/25/22 22:16	4/25/22 22:16		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/15/22 10:24	4/15/22 10:24		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/15/22 15:28	4/15/22 15:28		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/19/22 12:15	4/19/22 12:15		1	Not Detected	mg/L	0.6	2	U

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

Comments:

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASGEB
Sample Date: 4/13/22 12:40
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum Equipment Blank-1

Laboratory ID Number: BC07361

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07361	Aluminum, Total	mg/L	0.000653	0.010	0.100	0.106	0.109	0.114	0.0850 to 0.115	106	70.0 to 130	2.79	20.0
BC07361	Antimony, Total	mg/L	0.000310	0.00100	0.100	0.104	0.108	0.104	0.0850 to 0.115	104	70.0 to 130	3.77	20.0
BC07361	Arsenic, Total	mg/L	0.0000077	0.000176	0.100	0.0993	0.101	0.104	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0
BC07361	Barium, Total	mg/L	-0.0000092	0.00100	0.100	0.112	0.114	0.110	0.0850 to 0.115	112	70.0 to 130	1.77	20.0
BC07361	Beryllium, Total	mg/L	0.0000051	0.000880	0.100	0.106	0.105	0.109	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BC07361	Boron, Total	mg/L	-0.000208	0.0650	1.00	1.01	1.01	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC07361	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.107	0.106	0.111	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BC07361	Calcium, Total	mg/L	0.00105	0.152	5.00	4.84	4.83	4.89	4.25 to 5.75	96.8	70.0 to 130	0.207	20.0
BC07361	Chloride	mg/L	0.0101	1.00	10.0	9.92	9.84	9.85	9.00 to 11.0	99.2	80.0 to 120	0.810	20.0
BC07361	Chromium, Total	mg/L	-0.0000857	0.000440	0.100	0.0964	0.0975	0.101	0.0850 to 0.115	96.4	70.0 to 130	1.13	20.0
BC07361	Cobalt, Total	mg/L	-0.0000744	0.000147	0.100	0.101	0.103	0.107	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BC07361	Fluoride	mg/L	-0.00923	0.125	2.50	2.61	2.50	2.60	2.25 to 2.75	104	80.0 to 120	4.31	20.0
BC07361	Iron, Total	mg/L	0.000618	0.0176	0.2	0.197	0.196	0.198	0.170 to 0.230	98.5	70.0 to 130	0.509	20.0
BC07361	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.115	0.116	0.114	0.0850 to 0.115	115	70.0 to 130	0.866	20.0
BC07361	Lithium, Total	mg/L	0.000204	0.0154	0.200	0.202	0.198	0.202	0.170 to 0.230	101	70.0 to 130	2.00	20.0
BC07361	Magnesium, Total	mg/L	0.00546	0.0462	5.00	5.18	5.11	5.18	4.25 to 5.75	104	70.0 to 130	1.36	20.0
BC07361	Manganese, Total	mg/L	-0.0000103	0.0002	0.100	0.103	0.105	0.109	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC07361	Mercury, Total by CVAA	mg/L	0.000110	0.000500	0.004	0.00375	0.00370	0.00387	0.00340 to 0.00460	93.8	70.0 to 130	1.34	20.0
BC07361	Molybdenum, Total	mg/L	0.0000091	0.0002	0.100	0.100	0.101	0.103	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC07361	Potassium, Total	mg/L	-0.00861	0.367	10.0	9.55	9.72	10.1	8.50 to 11.5	95.5	70.0 to 130	1.76	20.0
BC07361	Selenium, Total	mg/L	0.0000746	0.00100	0.100	0.104	0.105	0.108	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BC07361	Silicon, Total	mg/L	0.000115	0.0440	1.00	0.999	0.992	1.01	0.850 to 1.15	99.9	70.0 to 130	0.703	20.0
BC07361	Sodium, Total	mg/L	0.00015	0.0660	5.00	5.08	4.99	5.16	4.25 to 5.75	102	70.0 to 130	1.79	20.0

Comments:

Reported: 5/6/2022
Version: 3.5
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGASGEB
Sample Date: 4/13/22 12:40
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum Equipment Blank-1

Laboratory ID Number: BC07361

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07361	Sulfate	mg/L	0.157	2.0	20.0	20.4	20.3	19.9	18.0 to 22.0	102	80.0 to 120	0.491	20.0
BC07361	Thallium, Total	mg/L	-0.0000834	0.000147	0.100	0.110	0.112	0.111	0.0850 to 0.115	110	70.0 to 130	1.80	20.0
BC07361	Total Organic Carbon	mg/L	0.250	1.00	10.0	10.3	10.3	25.6		103	80.0 to 120	0.00	20.0

Comments:

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASGEB
Sample Date: 4/13/22 12:40
Customer ID:
Delivery Date: 4/14/22 11:53

Description: Gaston Gypsum Equipment Blank-1

Laboratory ID Number: BC07361

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07361	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.05	0.200	2.00	2.02	-0.069	1.96	1.80 to 2.20	101	90.0 to 110	0.00	15.0
BC07360	Solids, Dissolved	mg/L	0.0000	25.0			241	49.0	40.0 to 60.0			3.67	10.0

Comments:

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

Definitions

Alabama Power

Project Number: WMWGASG_1359

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. Refer to APC Field Case Narrative.
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

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	TJ Daugherty	Requested By	Greg Dyer
		Location	Gaston Gypsum

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-5	04/12/2022	09:35	1	Groundwater		BC07369
MW-6	04/12/2022	11:15	1	Groundwater		BC07370
MW-7	04/12/2022	12:55	1	Groundwater		BC07371
MW-8	04/12/2022	14:28	1	Groundwater		BC07372
MW-9	04/12/2022	15:45	1	Groundwater		BC07373
MW-9 Dup	04/12/2022	15:45	1	Sample Duplicate		BC07374
MW-10	04/13/2022	10:05	1	Groundwater		BC07375
MW-10 Dup	04/13/2022	10:05	1	Sample Duplicate		BC07376
FB-1	04/13/2022	10:40	1	Field Blank		BC07377
MW-11	04/13/2022	11:33	1	Groundwater		BC07378
MW-12	04/13/2022	12:25	1	Groundwater		BC07379
EB-1	04/13/2022	12:40	1	Equipment Blank		BC07380

Relinquished By	Received By	Date/Time
		04/14/2022 10:15

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2	☑
Turbidity ID	4677-23342-4-1	Cooler Temp	N/A
Sample Event	1359	Thermometer ID	N/A
		pH Strip ID	9772-56585-100-7

Bottles/Pre-Preserved Bottles are provided by the GTL

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☐ Outside Lab
☑ Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	Dallas Gentry	Requested By	Greg Dyer
		Location	Gaston Gypsum

Bottles													
1	Metals	500 mL	3	Hg	250 mL	5	TDS	500 mL	7	Alkalinity	250 mL
2	Dissolved Metals	500 mL	4	Nitrate/Nitrite; TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments: Correcting time for MW-14S from 0842 to 0843 per DFG & bottles. N/N & TOC pH<2. LBM 4/14/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-2	04/12/2022	11:05	7	Groundwater		BC07343
MW-15	04/12/2022	14:16	7	Groundwater		BC07344
MW-3	04/12/2022	15:51	7	Groundwater		BC07345
MW-14S	04/13/2022	08:43	7	Groundwater		BC07346
MW-1	04/13/2022	10:00	7	Groundwater		BC07347
MW-13	04/13/2022	10:59	7	Groundwater		BC07348
FB-2	04/13/2022	11:25	5	Field Blank		BC07349

Relinquished By	Received By	Date/Time
Dallas Gentry	Lauren Reddy	04/14/2022 10:14

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2	☑
Turbidity ID	3901-20010-2-2	Cooler Temp	0.5 degrees C
Sample Event	1359	Thermometer ID	5408-27568-2-2
		pH Strip ID	9772-56585-100-7

Bottles/Pre-Preserved Bottles are provided by the GTL

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☐ Outside Lab
☑ Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	TJ Daugherty	Requested By	Greg Dyer
		Location	Gaston Gypsum

Bottles												
1	Metals	500 mL	3	Hg	250 mL	5	TDS	500 mL	7	Alkalinity	250 mL
2	Dissolved Metals	500 mL	4	Nitrates/Nitrites, TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments: N/N & TOC pH<2. LBM 4/14/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-5	04/12/2022	09:35	7	Groundwater		BC07350
MW-6	04/12/2022	11:15	7	Groundwater		BC07351
MW-7	04/12/2022	12:55	7	Groundwater		BC07352
MW-8	04/12/2022	14:28	7	Groundwater		BC07353
MW-9	04/12/2022	15:45	7	Groundwater		BC07354
MW-9 Dup	04/12/2022	15:45	7	Sample Duplicate		BC07355
MW-10	04/13/2022	10:05	7	Groundwater		BC07356
MW-10 Dup	04/13/2022	10:05	7	Sample Duplicate		BC07357
FB-1	04/13/2022	10:40	5	Field Blank		BC07358
MW-11	04/13/2022	11:33	7	Groundwater		BC07359
MW-12	04/13/2022	12:25	7	Groundwater		BC07360
EB-1	04/13/2022	12:40	5	Equipment Blank		BC07361

Relinquished By	Received By	Date/Time
		04/14/2022 10:15

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2	☑
Turbidity ID	4677-23342-4-1	Cooler Temp	2.8 degrees C
Sample Event	1359	Thermometer ID	5408-27568-2-2
		pH Strip ID	9772-56585-100-7

Bottles/Pre-Preserved Bottles are provided by the GTL

8.0

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
Collector	Dallas Gentry	Requested By	Greg Dyer
		Location	Gaston Gypsum

Bottles												
1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: Radium MS/MSD collected at MW-13
Correcting time for MW-14S from 0842 to 0843 per DFG & bottles. LBM 4/14/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-2	04/12/2022	11:05	1	Groundwater		BC07362
MW-15	04/12/2022	14:16	1	Groundwater		BC07363
MW-3	04/12/2022	15:51	1	Groundwater		BC07364
MW-14S	04/13/2022	08:43	1	Groundwater		BC07365
MW-1	04/13/2022	10:00	1	Groundwater		BC07366
MW-13	04/13/2022	10:59	3	Groundwater		BC07367
FB-2	04/13/2022	11:25	1	Field Blank		BC07368

Relinquished By	Received By	Date/Time
Dallas Gentry	Lauren Mayo	04/14/2022 10:13

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2	☑
Turbidity ID	3901-20010-2-2	Cooler Temp	N/A
Sample Event	1359	Thermometer ID	N/A
		pH Strip ID	9772-56585-100-7

Bottles/Pre-Preserved Bottles are provided by the GTL

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

May 26, 2022

Brooke Caton
Alabama Power
744 Highway 87
Calera, AL 35040

RE: Project: WMWGASG_1359
Pace Project No.: 30481832

Dear Brooke Caton:

Enclosed are the analytical results for sample(s) received by the laboratory on April 19, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

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

Sincerely,

Skyler C. Richmond
skyler.richmond@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Blaine Denton, Alabama Power
Renee Jernigan, Alabama Power

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: WMWGASG_1359
Pace Project No.: 30481832

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: WMWGASG_1359
Pace Project No.: 30481832

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30481832001	**BC07362 MW-2**	Water	04/12/22 11:05	04/19/22 09:20
30481832002	**BC07363 MW-15**	Water	04/12/22 14:16	04/19/22 09:20
30481832003	**BC07364 MW-3**	Water	04/12/22 15:51	04/19/22 09:20
30481832004	**BC07365 MW-14S**	Water	04/13/22 08:43	04/19/22 09:20
30481832005	**BC07366 MW-1**	Water	04/13/22 10:00	04/19/22 09:20
30481832006	**BC07367 MW-13**	Water	04/13/22 10:59	04/19/22 09:20
30481832007	**BC07367 MW-13 MS**	Water	04/13/22 10:59	04/19/22 09:20
30481832008	**BC07367 MW-13 MSD**	Water	04/13/22 10:59	04/19/22 09:20
30481832009	**BC07368 FB-2**	Water	04/13/22 11:25	04/19/22 09:20
30481832010	**BC07369 MW-5**	Water	04/12/22 09:35	04/19/22 09:20
30481832011	**BC07370 MW-6**	Water	04/12/22 11:15	04/19/22 09:20
30481832012	**BC07371 MW-7**	Water	04/12/22 12:55	04/19/22 09:20
30481832013	**BC07372 MW-8**	Water	04/12/22 14:28	04/19/22 09:20
30481832014	**BC07373 MW-9**	Water	04/12/22 15:45	04/19/22 09:20
30481832015	**BC07374 MW-9 DUP**	Water	04/12/22 15:45	04/19/22 09:20
30481832016	**BC07375 MW-10**	Water	04/13/22 10:05	04/19/22 09:20
30481832017	**BC07376 MW-10 DUP**	Water	04/13/22 10:05	04/19/22 09:20
30481832018	**BC07377 FB-1**	Water	04/13/22 10:40	04/19/22 09:20
30481832019	**BC07378 MW-11**	Water	04/13/22 11:33	04/19/22 09:20
30481832020	**BC07379 MW-12**	Water	04/13/22 12:25	04/19/22 09:20
30481832021	**BC07380 EB-1**	Water	04/13/22 12:40	04/19/22 09:20

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: WMWGASG_1359
Pace Project No.: 30481832

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30481832001	**BC07362 MW-2**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30481832002	**BC07363 MW-15**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30481832003	**BC07364 MW-3**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30481832004	**BC07365 MW-14S**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30481832005	**BC07366 MW-1**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30481832006	**BC07367 MW-13**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30481832007	**BC07367 MW-13 MS**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
30481832008	**BC07367 MW-13 MSD**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
30481832009	**BC07368 FB-2**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30481832010	**BC07369 MW-5**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30481832011	**BC07370 MW-6**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30481832012	**BC07371 MW-7**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30481832013	**BC07372 MW-8**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: WMWGASG_1359
Pace Project No.: 30481832

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30481832014	**BC07373 MW-9**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30481832015	**BC07374 MW-9 DUP**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30481832016	**BC07375 MW-10**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30481832017	**BC07376 MW-10 DUP**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30481832018	**BC07377 FB-1**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30481832019	**BC07378 MW-11**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30481832020	**BC07379 MW-12**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30481832021	**BC07380 EB-1**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: WMWGASG_1359
Pace Project No.: 30481832

Method: **EPA 9315**
Description: 9315 Total Radium
Client: Alabama Power
Date: May 26, 2022

General Information:
21 samples were analyzed for EPA 9315 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: WMWGASG_1359
Pace Project No.: 30481832

Method: **EPA 9320**
Description: 9320 Radium 228
Client: Alabama Power
Date: May 26, 2022

General Information:
21 samples were analyzed for EPA 9320 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: WMWGASG_1359
Pace Project No.: 30481832

Method: **Total Radium Calculation**
Description: Total Radium 228+226
Client: Alabama Power
Date: May 26, 2022

General Information:
19 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG_1359
Pace Project No.: 30481832

Sample: BC07362 MW-2 **Lab ID: 30481832001** Collected: 04/12/22 11:05 Received: 04/19/22 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.217U ± 0.219 (0.412) C:100% T:NA**	pCi/L	05/04/22 13:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.318U ± 0.291 (0.586) C:81% T:88%**	pCi/L	05/05/22 16:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.535U ± 0.510 (0.998)**	pCi/L	05/09/22 17:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG_1359
Pace Project No.: 30481832

Sample: BC07363 MW-15 **Lab ID: 30481832002** Collected: 04/12/22 14:16 Received: 04/19/22 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.233U ± 0.214 (0.384) C:102% T:NA**	pCi/L	05/04/22 13:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.103U ± 0.263 (0.590) C:81% T:89%**	pCi/L	05/05/22 16:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.336U ± 0.477 (0.974)**	pCi/L	05/09/22 17:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG_1359
Pace Project No.: 30481832

Sample: BC07364 MW-3 **Lab ID: 30481832003** Collected: 04/12/22 15:51 Received: 04/19/22 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0518U ± 0.138 (0.339) C:103% T:NA**	pCi/L	05/04/22 16:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.267U ± 0.308 (0.647) C:78% T:92%**	pCi/L	05/05/22 16:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.319U ± 0.446 (0.986)**	pCi/L	05/09/22 17:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG_1359
Pace Project No.: 30481832

Sample: BC07365 MW-14S **Lab ID: 30481832004** Collected: 04/13/22 08:43 Received: 04/19/22 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.127U ± 0.200 (0.442) C:100% T:NA**	pCi/L	05/04/22 16:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0151U ± 0.286 (0.676) C:78% T:89%**	pCi/L	05/05/22 16:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.127U ± 0.486 (1.12)**	pCi/L	05/09/22 17:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG_1359
Pace Project No.: 30481832

Sample: BC07366 MW-1 **Lab ID: 30481832005** Collected: 04/13/22 10:00 Received: 04/19/22 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.867 ± 0.370 (0.401) C:102% T:NA**	pCi/L	05/04/22 16:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.438U ± 0.326 (0.634) C:79% T:90%**	pCi/L	05/05/22 16:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.31 ± 0.696 (1.04)**	pCi/L	05/09/22 17:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG_1359
Pace Project No.: 30481832

Sample: BC07367 MW-13 **Lab ID: 30481832006** Collected: 04/13/22 10:59 Received: 04/19/22 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.0738U ± 0.107 (0.398) C:101% T:NA**	pCi/L	05/04/22 16:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.357U ± 0.301 (0.600) C:83% T:92%**	pCi/L	05/05/22 16:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.357U ± 0.408 (0.998)**	pCi/L	05/09/22 17:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG_1359
Pace Project No.: 30481832

Sample: BC07367 MW-13 MS **Lab ID: 30481832007** Collected: 04/13/22 10:59 Received: 04/19/22 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**100.17 %REC ± NA (NA) C:NA T:NA**	pCi/L	05/04/22 16:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**89.66 %REC ± NA (NA) C:NA T:NA**	pCi/L	05/05/22 16:09	15262-20-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG_1359
Pace Project No.: 30481832

Sample: BC07367 MW-13 MSD **Lab ID: 30481832008** Collected: 04/13/22 10:59 Received: 04/19/22 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**100.62 %REC 0.44RPD ± NA (NA) C:NA T:NA**	pCi/L	05/04/22 16:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**96.86 %REC 7.71 RPD ± NA (NA) C:NA T:NA**	pCi/L	05/05/22 16:09	15262-20-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG_1359
Pace Project No.: 30481832

Sample: BC07368 FB-2 **Lab ID: 30481832009** Collected: 04/13/22 11:25 Received: 04/19/22 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0605U ± 0.162 (0.395) C:101% T:NA**	pCi/L	05/04/22 16:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0536U ± 0.276 (0.634) C:82% T:85%**	pCi/L	05/05/22 16:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.114U ± 0.438 (1.03)**	pCi/L	05/09/22 17:21	7440-14-4	

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG_1359
Pace Project No.: 30481832

Sample: BC07369 MW-5 **Lab ID: 30481832010** Collected: 04/12/22 09:35 Received: 04/19/22 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.183U ± 0.200 (0.388) C:103% T:NA**	pCi/L	05/04/22 16:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.556U ± 0.341 (0.628) C:80% T:85%**	pCi/L	05/05/22 16:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.739U ± 0.541 (1.02)**	pCi/L	05/09/22 17:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG_1359
Pace Project No.: 30481832

Sample: BC07370 MW-6 **Lab ID: 30481832011** Collected: 04/12/22 11:15 Received: 04/19/22 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.157U ± 0.192 (0.388) C:100% T:NA**	pCi/L	05/04/22 16:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0478U ± 0.271 (0.645) C:78% T:93%**	pCi/L	05/05/22 16:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.157U ± 0.463 (1.03)**	pCi/L	05/09/22 17:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG_1359
Pace Project No.: 30481832

Sample: BC07371 MW-7 **Lab ID: 30481832012** Collected: 04/12/22 12:55 Received: 04/19/22 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0248U ± 0.131 (0.350) C:97% T:NA**	pCi/L	05/06/22 08:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.127U ± 0.244 (0.606) C:79% T:91%**	pCi/L	05/05/22 16:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0248U ± 0.375 (0.956)**	pCi/L	05/09/22 17:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG_1359
Pace Project No.: 30481832

Sample: BC07372 MW-8 **Lab ID: 30481832013** Collected: 04/12/22 14:28 Received: 04/19/22 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.235U ± 0.223 (0.421) C:100% T:NA**	pCi/L	05/06/22 08:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.132U ± 0.296 (0.657) C:74% T:87%**	pCi/L	05/05/22 16:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.367U ± 0.519 (1.08)**	pCi/L	05/09/22 17:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG_1359
Pace Project No.: 30481832

Sample: BC07373 MW-9 **Lab ID: 30481832014** Collected: 04/12/22 15:45 Received: 04/19/22 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.191U ± 0.194 (0.361) C:100% T:NA**	pCi/L	05/06/22 08:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0379U ± 0.223 (0.543) C:76% T:91%**	pCi/L	05/05/22 16:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.191U ± 0.417 (0.904)**	pCi/L	05/09/22 17:21	7440-14-4	

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG_1359
Pace Project No.: 30481832

Sample: BC07374 MW-9 DUP **Lab ID: 30481832015** Collected: 04/12/22 15:45 Received: 04/19/22 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.279U ± 0.239 (0.426) C:102% T:NA**	pCi/L	05/06/22 08:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.341U ± 0.326 (0.667) C:78% T:90%**	pCi/L	05/05/22 16:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.620U ± 0.565 (1.09)**	pCi/L	05/09/22 17:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG_1359
Pace Project No.: 30481832

Sample: BC07375 MW-10 **Lab ID: 30481832016** Collected: 04/13/22 10:05 Received: 04/19/22 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.242U ± 0.230 (0.430) C:101% T:NA**	pCi/L	05/06/22 08:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.309U ± 0.309 (0.637) C:78% T:96%**	pCi/L	05/05/22 16:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.551U ± 0.539 (1.07)**	pCi/L	05/09/22 17:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG_1359
Pace Project No.: 30481832

Sample: BC07376 MW-10 DUP **Lab ID: 30481832017** Collected: 04/13/22 10:05 Received: 04/19/22 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.222U ± 0.222 (0.429) C:104% T:NA**	pCi/L	05/06/22 09:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.304U ± 0.278 (0.561) C:85% T:87%**	pCi/L	05/05/22 16:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.526U ± 0.500 (0.990)**	pCi/L	05/09/22 17:25	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG_1359
Pace Project No.: 30481832

Sample: BC07377 FB-1 **Lab ID: 30481832018** Collected: 04/13/22 10:40 Received: 04/19/22 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.0568U ± 0.0863 (0.343) C:104% T:NA**	pCi/L	05/06/22 09:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.124U ± 0.252 (0.619) C:83% T:92%**	pCi/L	05/05/22 16:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.000U ± 0.338 (0.962)**	pCi/L	05/09/22 17:25	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG_1359
Pace Project No.: 30481832

Sample: BC07378 MW-11 **Lab ID: 30481832019** Collected: 04/13/22 11:33 Received: 04/19/22 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.101U ± 0.170 (0.379) C:104% T:NA**	pCi/L	05/06/22 09:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.352U ± 0.277 (0.539) C:81% T:91%**	pCi/L	05/05/22 16:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.453U ± 0.447 (0.918)**	pCi/L	05/09/22 17:25	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG_1359
Pace Project No.: 30481832

Sample: BC07379 MW-12 **Lab ID: 30481832020** Collected: 04/13/22 12:25 Received: 04/19/22 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.119U ± 0.174 (0.373) C:103% T:NA**	pCi/L	05/06/22 09:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.138U ± 0.285 (0.630) C:80% T:87%**	pCi/L	05/05/22 16:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.257U ± 0.459 (1.00)**	pCi/L	05/09/22 17:25	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG_1359
Pace Project No.: 30481832

Sample: BC07380 EB-1 **Lab ID: 30481832021** Collected: 04/13/22 12:40 Received: 04/19/22 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0738U ± 0.162 (0.382) C:102% T:NA**	pCi/L	05/06/22 09:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.210U ± 0.467 (1.03) C:70% T:87%**	pCi/L	05/24/22 15:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.284U ± 0.629 (1.41)**	pCi/L	05/25/22 18:12	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGASG_1359
Pace Project No.: 30481832

QC Batch: 499049
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30481832017, 30481832018, 30481832019, 30481832020, 30481832021

METHOD BLANK: 2415382 Matrix: Water
Associated Lab Samples: 30481832017, 30481832018, 30481832019, 30481832020, 30481832021

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0189 ± 0.0634 (0.159) C:104% T:NA	pCi/L	05/06/22 09:25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGASG_1359
Pace Project No.: 30481832

QC Batch: 499047
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30481832001, 30481832002, 30481832003, 30481832004, 30481832005, 30481832006, 30481832007, 30481832008, 30481832009, 30481832010, 30481832011, 30481832012, 30481832013, 30481832014, 30481832015, 30481832016

METHOD BLANK: 2415377
Matrix: Water
Associated Lab Samples: 30481832001, 30481832002, 30481832003, 30481832004, 30481832005, 30481832006, 30481832007, 30481832008, 30481832009, 30481832010, 30481832011, 30481832012, 30481832013, 30481832014, 30481832015, 30481832016

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0174 ± 0.0623 (0.159) C:101% T:NA	pCi/L	05/04/22 13:15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGASG_1359
Pace Project No.: 30481832

QC Batch: 499362
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30481832001, 30481832002, 30481832003, 30481832004, 30481832005, 30481832006, 30481832007, 30481832008, 30481832009, 30481832010, 30481832011, 30481832012, 30481832013, 30481832014, 30481832015, 30481832016, 30481832017, 30481832018, 30481832019, 30481832020

METHOD BLANK: 2416872
Matrix: Water
Associated Lab Samples: 30481832001, 30481832002, 30481832003, 30481832004, 30481832005, 30481832006, 30481832007, 30481832008, 30481832009, 30481832010, 30481832011, 30481832012, 30481832013, 30481832014, 30481832015, 30481832016, 30481832017, 30481832018, 30481832019, 30481832020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.533 ± 0.316 (0.580) C:83% T:93%	pCi/L	05/05/22 16:08	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGASG_1359
Pace Project No.: 30481832

QC Batch: 503480
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30481832021

METHOD BLANK: 2437885
Matrix: Water
Associated Lab Samples: 30481832021

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.239 ± 0.295 (0.623) C:79% T:89%	pCi/L	05/24/22 15:21	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: WMWGASG_1359
Pace Project No.: 30481832

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. Is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGASG_1359
Pace Project No.: 30481832

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30481832001	**BC07362 MW-2**	EPA 9315	499047		
30481832002	**BC07363 MW-15**	EPA 9315	499047		
30481832003	**BC07364 MW-3**	EPA 9315	499047		
30481832004	**BC07365 MW-14S**	EPA 9315	499047		
30481832005	**BC07366 MW-1**	EPA 9315	499047		
30481832006	**BC07367 MW-13**	EPA 9315	499047		
30481832007	**BC07367 MW-13 MS**	EPA 9315	499047		
30481832008	**BC07367 MW-13 MSD**	EPA 9315	499047		
30481832009	**BC07368 FB-2**	EPA 9315	499047		
30481832010	**BC07369 MW-5**	EPA 9315	499047		
30481832011	**BC07370 MW-6**	EPA 9315	499047		
30481832012	**BC07371 MW-7**	EPA 9315	499047		
30481832013	**BC07372 MW-8**	EPA 9315	499047		
30481832014	**BC07373 MW-9**	EPA 9315	499047		
30481832015	**BC07374 MW-9 DUP**	EPA 9315	499047		
30481832016	**BC07375 MW-10**	EPA 9315	499047		
30481832017	**BC07376 MW-10 DUP**	EPA 9315	499049		
30481832018	**BC07377 FB-1**	EPA 9315	499049		
30481832019	**BC07378 MW-11**	EPA 9315	499049		
30481832020	**BC07379 MW-12**	EPA 9315	499049		
30481832021	**BC07380 EB-1**	EPA 9315	499049		
30481832001	**BC07362 MW-2**	EPA 9320	499362		
30481832002	**BC07363 MW-15**	EPA 9320	499362		
30481832003	**BC07364 MW-3**	EPA 9320	499362		
30481832004	**BC07365 MW-14S**	EPA 9320	499362		
30481832005	**BC07366 MW-1**	EPA 9320	499362		
30481832006	**BC07367 MW-13**	EPA 9320	499362		
30481832007	**BC07367 MW-13 MS**	EPA 9320	499362		
30481832008	**BC07367 MW-13 MSD**	EPA 9320	499362		
30481832009	**BC07368 FB-2**	EPA 9320	499362		
30481832010	**BC07369 MW-5**	EPA 9320	499362		
30481832011	**BC07370 MW-6**	EPA 9320	499362		
30481832012	**BC07371 MW-7**	EPA 9320	499362		
30481832013	**BC07372 MW-8**	EPA 9320	499362		
30481832014	**BC07373 MW-9**	EPA 9320	499362		
30481832015	**BC07374 MW-9 DUP**	EPA 9320	499362		
30481832016	**BC07375 MW-10**	EPA 9320	499362		
30481832017	**BC07376 MW-10 DUP**	EPA 9320	499362		
30481832018	**BC07377 FB-1**	EPA 9320	499362		
30481832019	**BC07378 MW-11**	EPA 9320	499362		
30481832020	**BC07379 MW-12**	EPA 9320	499362		
30481832021	**BC07380 EB-1**	EPA 9320	503480		
30481832001	**BC07362 MW-2**	Total Radium Calculation	503153		
30481832002	**BC07363 MW-15**	Total Radium Calculation	503153		
30481832003	**BC07364 MW-3**	Total Radium Calculation	503153		
30481832004	**BC07365 MW-14S**	Total Radium Calculation	503153		
30481832005	**BC07366 MW-1**	Total Radium Calculation	503153		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGASG_1359
Pace Project No.: 30481832

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30481832006	**BC07367 MW-13**	Total Radium Calculation	503153		
30481832009	**BC07368 FB-2**	Total Radium Calculation	503153		
30481832010	**BC07369 MW-5**	Total Radium Calculation	503153		
30481832011	**BC07370 MW-6**	Total Radium Calculation	503153		
30481832012	**BC07371 MW-7**	Total Radium Calculation	503153		
30481832013	**BC07372 MW-8**	Total Radium Calculation	503153		
30481832014	**BC07373 MW-9**	Total Radium Calculation	503153		
30481832015	**BC07374 MW-9 DUP**	Total Radium Calculation	503153		
30481832016	**BC07375 MW-10**	Total Radium Calculation	503153		
30481832017	**BC07376 MW-10 DUP**	Total Radium Calculation	503154		
30481832018	**BC07377 FB-1**	Total Radium Calculation	503154		
30481832019	**BC07378 MW-11**	Total Radium Calculation	503154		
30481832020	**BC07379 MW-12**	Total Radium Calculation	503154		
30481832021	**BC07380 EB-1**	Total Radium Calculation	507038		

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Alabama Power Company	Report To:	Laura Midkiff	Attention:	Laura Midkiff
Address:	744 Highway 87 GSC Bldg #8 Calera, AL 35040	Copy To:	Brooke Caton & Renee Jernigan	Company Name:	Alabama Power Co.
				Address:	744 Highway 87 GSC Bldg #8
Email To:	lbmidkif@southernco.com	Purchase Order #:	APC10755638	Pace Quote:	CCR
Phone:	205-664-6197 Fax	Project Name:	Plant Gaston Gypsum Storage Area	Pace Project Manager:	Skyler Richmond
Requested Due Date:	28 days	Project Number:	WMWGASG_1359	Pace Profile #:	16788

Regulatory Agency

State / Location: AL

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	Description	Station Name Location_ID	Site Name Facility_ID	Sample Duplicate	Matrix Spike/Matrix Spike Duplicate	Field Filtered	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3			Y/N Analyses Test	EPA 9315	EPA 9320	Total Radium Sum			Residual Chlorine (Y/N)	
1	BC07362	MW-2	APCO-GN-GSA-MW-2	APCO_Gaston_GypsumStore				GW	G	4/12/2022	11:05	1			X				X	X	X				001
2	BC07363	MW-15	APCO-GN-GSA-MW-15	APCO_Gaston_GypsumStore				GW	G	4/12/2022	14:16	1			X				X	X	X				002
3	BC07364	MW-3	APCO-GN-GSA-MW-3	APCO_Gaston_GypsumStore				GW	G	4/12/2022	15:51	1			X				X	X	X				003
4	BC07365	MW-14S	APCO-GN-GSA-MW-14S	APCO_Gaston_GypsumStore				GW	G	4/13/2022	8:43	1			X				X	X	X				004
5	BC07366	MW-1	APCO-GN-GSA-MW-1	APCO_Gaston_GypsumStore				GW	G	4/13/2022	10:00	1			X				X	X	X				005
6	BC07367	MW-13	APCO-GN-GSA-MW-13	APCO_Gaston_GypsumStore		X		GW	G	4/13/2022	10:59	3			X				X	X	X				006,007,008
7	BC07368	FB-2	APCO-GN-GSA-FB-2	APCO_Gaston_GypsumStore				GW	G	4/13/2022	11:25	1			X				X	X	X				~~009~~ 009
8																									MS 4-19-22
9																									
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Laura Midkiff/ APC GTL	4/15/2022	9:05		4-19-22	9:20				
								NO	Yes	Yes
							1			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Dallas Gentry

SIGNATURE of SAMPLER: DATE Signed:

WO# : 30481832

30481832

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Alabama Power Company	Report To:	Laura Midkiff	Attention:	Laura Midkiff
Address:	744 Highway 87 GSC Bldg #8	Copy To:	Brooke Caton & Renee Jernigan	Company Name:	Alabama Power Co.
	Calera, AL 35040			Address:	744 Highway 87 GSC Bldg #8
Email To:	lbmidkif@southernco.com	Purchase Order #:	APC10755638	Pace Quote:	CCR
Phone:	205-664-6197 Fax:	Project Name:	Plant Gaston Gypsum Storage Area	Pace Project Manager:	Skyler Richmond
Requested Due Date:	28 days	Project Number:	WMWGASG_1359	Pace Profile #:	16788

Regulatory Agency

State / Location: AL

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	Description	Station Name Location_ID	Site Name Facility_ID	Sample Duplicate	Matrix Spike/Matrix Spike Duplicate	Field Filtered	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	# OF CONTAINERS	Preservatives: Unpreserved	Preservatives: H2SO4	Preservatives: HNO3	Preservatives:	Preservatives:	Analyses Test Y/N	EPA 9315	EPA 9320	Total Radium Sum			Residual Chlorine (Y/N)	MJS41922
1	BC07369	MW-5	APCO-GN-GSA-MW-5	APCO_Gaston_GypsumStore				GW	G	4/12/2022	9:35	1			X				X	X	X				008	010
2	BC07370	MW-6	APCO-GN-GSA-MW-6	APCO_Gaston_GypsumStore				GW	G	4/12/2022	11:15	1			X				X	X	X				009	011
3	BC07371	MW-7	APCO-GN-GSA-MW-7	APCO_Gaston_GypsumStore				GW	G	4/12/2022	12:55	1			X				X	X	X				010	012
4	BC07372	MW-8	APCO-GN-GSA-MW-8	APCO_Gaston_GypsumStore				GW	G	4/12/2022	14:28	1			X				X	X	X				011	013
5	BC07373	MW-9	APCO-GN-GSA-MW-9	APCO_Gaston_GypsumStore				GW	G	4/12/2022	15:45	1			X				X	X	X				012	014
6	BC07374	MW-9 DUP	APCO-GN-GSA-MW-9	APCO_Gaston_GypsumStore	X			GW	G	4/12/2022	15:45	1			X				X	X	X				013	015
7	BC07375	MW-10	APCO-GN-GSA-MW-10	APCO_Gaston_GypsumStore				GW	G	4/13/2022	10:05	1			X				X	X	X				014	016
8	BC07376	MW-10 DUP	APCO-GN-GSA-MW-10	APCO_Gaston_GypsumStore	X			GW	G	4/13/2022	10:05	1			X				X	X	X				015	017
9	BC07377	FB-1	APCO-GN-GSA-FB-1	APCO_Gaston_GypsumStore				GW	G	4/13/2022	10:40	1			X				X	X	X				016	018
10	BC07378	MW-11	APCO-GN-GSA-MW-11	APCO_Gaston_GypsumStore				GW	G	4/13/2022	11:33	1			X				X	X	X				017	019
11	BC07379	MW-12	APCO-GN-GSA-MW-12	APCO_Gaston_GypsumStore				GW	G	4/13/2022	12:25	1			X				X	X	X				018	020
12	BC07380	EB-1	APCO-GN-GSA-EB-1	APCO_Gaston_GypsumStore				GW	G	4/13/2022	12:40	1			X				X	X	X				019	021

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Laura Midkiff/ APC GTL	4/15/2022	9:05		4-19-22	9:20				
							1	NO	Yes	Yes

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: TJ Daugherty

SIGNATURE of SAMPLER:

WO#: 30481832

PM: SCR Due Date: 05/10/22

CLIENT: ALABAMA PWR

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: Alabama Power Project # 30481832

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Label SBH

Tracking #: 5701 6585 0474

LIMS Login VP

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Thermometer Used NA Type of Ice: Wet Blue (None)

Cooler Temperature Observed Temp — °C Correction Factor: — °C Final Temp: — °C

Temp should be above freezing to 6°C

pH paper Lot# 10D 7811 Date and Initials of person examining contents: SBH 4.19.22

Comments:	Yes	No	N/A	
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:	✓			2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:		✓		4. no Signature
Sample Labels match COC: -Includes date/time/ID Matrix: WT	✓			5.
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:		✓		8.
Sufficient Volume:	✓			9.
Correct Containers Used: -Pace Containers Used:	✓ ✓			10.
Containers Intact:	✓			11.
Orthophosphate field filtered			✓	12.
Hex Cr Aqueous sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix	✓			16. pH<2
All containers meet method preservation requirements.	✓			Initial when completed: SBH Date/time of preservation: Lot # of added preservative:
Headspace in VOA Vials (>6mm):			✓	17.
Trip Blank Present:			✓	18.
Trip Blank Custody Seals Present			✓	
Rad Samples Screened < 0.5 mrem/hr	✓			Initial when completed: SBH Date: 4.19.22 Survey Meter SN: 1563

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-226
Analyst:	JC2
Date:	4/26/2022
Worklist:	66277
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2415377
MB concentration:	0.017
M/B Counting Uncertainty:	0.062
MB MDC:	0.159
MB Numerical Performance Indicator:	0.55
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS66277	LCSD66277
Count Date:	5/6/2022	5/6/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.027	24.027
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.501	0.505
Target Conc. (pCi/L, g, F):	4.797	4.754
Uncertainty (Calculated):	0.058	0.057
Result (pCi/L, g, F):	5.749	4.912
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.513	0.477
Numerical Performance Indicator:	3.62	0.64
Percent Recovery:	119.86%	103.32%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	4/13/2022	
Sample I.D.	30481832006	
Sample MS I.D.	30481832007	
Sample MSD I.D.	30481832008	
Spike I.D.:	19-033	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.028	
Spike Volume Used in MS (mL):	0.40	
Spike Volume Used in MSD (mL):	0.40	
MS Aliquot (L, g, F):	0.202	
MS Target Conc.(pCi/L, g, F):	47.517	
MSD Aliquot (L, g, F):	0.205	
MSD Target Conc. (pCi/L, g, F):	46.816	
MS Spike Uncertainty (calculated):	0.570	
MSD Spike Uncertainty (calculated):	0.562	
Sample Result:	-0.074	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.107	
Sample Matrix Spike Result:	47.525	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	2.447	
Sample Matrix Spike Duplicate Result:	47.030	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	2.320	
MS Numerical Performance Indicator:	0.064	
MSD Numerical Performance Indicator:	0.236	
MS Percent Recovery:	100.17%	
MSD Percent Recovery:	100.62%	
MS Status vs Numerical Indicator:	N/A	
MSD Status vs Numerical Indicator:	N/A	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	125%	
MS/MSD Lower % Recovery Limits:	75%	

Duplicate Sample Assessment		
Sample I.D.:	LCS66277	
Duplicate Sample I.D.	LCSD66277	
Sample Result (pCi/L, g, F):	5.749	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.513	
Sample Duplicate Result (pCi/L, g, F):	4.912	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.477	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	2.342	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	14.82%	
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	25%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.	30481832006	
Sample MS I.D.	30481832007	
Sample MSD I.D.	30481832008	
Sample Matrix Spike Result:	47.525	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	2.447	
Sample Matrix Spike Duplicate Result:	47.030	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	2.320	
Duplicate Numerical Performance Indicator:	0.288	
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	0.44%	
MS/ MSD Duplicate Status vs Numerical Indicator:	N/A	
MS/ MSD Duplicate Status vs RPD:	Pass	
% RPD Limit:	25%	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

5/6/2022

VAMS 5/6/22

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-226
Analyst:	JC2
Date:	4/26/2022
Worklist:	66278
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2415382
MB concentration:	0.019
M/B Counting Uncertainty:	0.063
MB MDC:	0.159
MB Numerical Performance Indicator:	0.58
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS66278	LCSD66278
Count Date:	5/6/2022	5/6/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.027	24.027
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.502	0.506
Target Conc. (pCi/L, g, F):	4.787	4.748
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	4.445	4.739
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.459	0.466
Numerical Performance Indicator:	-1.45	-0.03
Percent Recovery:	92.87%	99.82%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS66278	
Duplicate Sample I.D.	LCSD66278	
Sample Result (pCi/L, g, F):	4.445	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.459	
Sample Duplicate Result (pCi/L, g, F):	4.739	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.466	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.882	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	7.22%	
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	25%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

5/6/2022

lams 5/6/22

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	JSM
Date:	5/2/2022
Worklist:	66327
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2416872
MB concentration:	0.533
M/B 2 Sigma CSU:	0.316
MB MDC:	0.580
MB Numerical Performance Indicator:	3.30
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS66327	LCSD66327
Count Date:	5/5/2022	
Spike I.D.:	22-016	
Decay Corrected Spike Concentration (pCi/mL):	35.860	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.817	
Target Conc. (pCi/L, g, F):	4.389	
Uncertainty (Calculated):	0.215	
Result (pCi/L, g, F):	4.126	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.943	
Numerical Performance Indicator:	-0.53	
Percent Recovery:	94.01%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	60%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	4/13/2022	
Sample I.D.	30481832006	
Sample MS I.D.	30481832007	
Sample MSD I.D.	30481832008	
Spike I.D.:	22-016	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	36.123	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.806	
MS Target Conc.(pCi/L, g, F):	8.960	
MSD Aliquot (L, g, F):	0.812	
MSD Target Conc. (pCi/L, g, F):	8.897	
MS Spike Uncertainty (calculated):	0.439	
MSD Spike Uncertainty (calculated):	0.436	
Sample Result:	0.357	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.301	
Sample Matrix Spike Result:	8.391	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.682	
Sample Matrix Spike Duplicate Result:	8.974	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.798	
MS Numerical Performance Indicator:	-1.029	
MSD Numerical Performance Indicator:	-0.292	
MS Percent Recovery:	89.66%	
MSD Percent Recovery:	96.86%	
MS Status vs Numerical Indicator:	Pass	
MSD Status vs Numerical Indicator:	Pass	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	135%	
MS/MSD Lower % Recovery Limits:	60%	

Duplicate Sample Assessment		
Sample I.D.:		Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.		
Sample Result (pCi/L, g, F):		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Duplicate Result (pCi/L, g, F):		
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:		
Duplicate RPD:		
Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD:		
% RPD Limit:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.	30481832006	
Sample MS I.D.	30481832007	
Sample MSD I.D.	30481832008	
Sample Matrix Spike Result:	8.391	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.682	
Sample Matrix Spike Duplicate Result:	8.974	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.798	
Duplicate Numerical Performance Indicator:	-0.464	
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	7.71%	
MS/ MSD Duplicate Status vs Numerical Indicator:	Pass	
MS/ MSD Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

~~*If the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable; otherwise this batch must be re-prepped.~~ NA JJK 5/9/22

OK 5/9/22

VAC 5/6/22

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-228
Analyst:	VAL
Date:	5/13/2022
Worklist:	66646
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2437885
MB concentration:	0.239
M/B 2 Sigma CSU:	0.295
MB MDC:	0.623
MB Numerical Performance Indicator:	1.59
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS66646	LCSD66646
Count Date:	5/24/2022	
Spike I.D.:	22-016	
Decay Corrected Spike Concentration (pCi/mL):	35.637	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.814	
Target Conc. (pCi/L, g, F):	4.377	
Uncertainty (Calculated):	0.214	
Result (pCi/L, g, F):	4.173	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.975	
Numerical Performance Indicator:	-0.40	
Percent Recovery:	95.35%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	60%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	4/20/2022	
Sample I.D.	30487979007	
Sample MS I.D.	30487979008	
Sample MSD I.D.	30487979009	
Spike I.D.:	22-016	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	36.039	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.801	
MS Target Conc.(pCi/L, g, F):	8.997	
MSD Aliquot (L, g, F):	0.801	
MSD Target Conc. (pCi/L, g, F):	9.003	
MS Spike Uncertainty (calculated):	0.441	
MSD Spike Uncertainty (calculated):	0.441	
Sample Result:	0.848	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.582	
Sample Matrix Spike Result:	10.077	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	2.119	
Sample Matrix Spike Duplicate Result:	9.483	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.994	
MS Numerical Performance Indicator:	0.204	
MSD Numerical Performance Indicator:	-0.340	
MS Percent Recovery:	102.59%	
MSD Percent Recovery:	95.91%	
MS Status vs Numerical Indicator:	Pass	
MSD Status vs Numerical Indicator:	Pass	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	135%	
MS/MSD Lower % Recovery Limits:	60%	

Duplicate Sample Assessment		
Sample I.D.:		Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.		
Sample Result (pCi/L, g, F):		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Duplicate Result (pCi/L, g, F):		
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:		
Duplicate RPD:		
Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD:		
% RPD Limit:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.	30487979007	
Sample MS I.D.	30487979008	
Sample MSD I.D.	30487979009	
Sample Matrix Spike Result:	10.077	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	2.119	
Sample Matrix Spike Duplicate Result:	9.483	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.994	
Duplicate Numerical Performance Indicator:	0.400	
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	6.73%	
MS/ MSD Duplicate Status vs Numerical Indicator:	Pass	
MS/ MSD Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

OK 5/25/22

VAL
5/25/22

Appendix D

Appendix D. Horizontal Groundwater Flow Velocity Calculations
Plant Gaston Gypsum Pond

2022 First-Annual Monitoring Event								
Date of Measurement	**GN-GSA-MW-5** h_1 **(ft)**	**GN-GSA-MW-6** h_2 **(ft)**	**Distance** Δl **(ft)**	**Hydraulic Gradient** $\Delta h/\Delta l$ **(ft/ft)**	**Hydraulic Conductivity** **K (ft/d)**	**Effective Porosity** **n**	**Calculated Groundwater Flow Velocity** **(ft/d)**	**Calculated Groundwater Flow Velocity** **(ft/yr)**
4/11/2022	402.10	400.74	413.0	0.00329	0.42	0.15	0.00922	3.37

Notes:

ft = feet; ft/d = feet per day; ft/ft = feet per foot; ft/yr = feet per year

Appendix E

GROUNDWATER STATS CONSULTING

June 6, 2022

Southern Company Services
Attn: Mr. Greg Dyer
3535 Colonnade Parkway
Birmingham, AL 35243

Re: Plant Gaston Gypsum Pond
1st Semi-Annual Statistical Analysis – April 2022

Dear Mr. Dyer,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of groundwater data for the April 2022 1st semi-annual sample event for Alabama Power Company's Plant Gaston Gypsum Pond. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals (CCR) from Electric Utilities (CCR Rule, 2015) as well as with the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling began at site for the CCR program in 2016. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** GN-GSA-MW-2, GN-GSA-MW-3, GN-GSA-MW-14S, and GN-GSA-MW-15
- **Downgradient wells:** GN-GSA-MW-1, GN-GSA-MW-5, GN-GSA-MW-6, GN-GSA-MW-7, GN-GSA-MW-8, GN-GSA-MW-9, GN-GSA-MW-10, GN-GSA-MW-11, GN-GSA-MW-12, and GN-GSA-MW-13
- **Delineation well:** GN-GSA-GS2-4

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was prepared according to the Statistical Analysis Plan approved by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance, and Senior Advisor to Groundwater Stats Consulting. The analysis was reviewed by Kristina Rayner, Founder and Senior Statistician to Groundwater Stats Consulting.

The CCR program consists of the following constituents:

> **Appendix III** (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS
> **Appendix IV** (Assessment Monitoring) - antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A list of Appendix IV downgradient well/constituent pairs containing 100% non-detects follows this letter.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. A substitution of the most recent reporting limit is used for non-detect data.

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on analysis of the spatial variability of groundwater quality data among wells upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves are provided in this report to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests that the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations. Power curves are based on the following statistical methods and site/data characteristics:

- Semi-Annual Sampling
- Intrawell Prediction Limits with 1-of-2 resample plan
- Interwell Prediction Limits with 1-of-2 resample plan
- # Background Samples (Intrawell): 9
- # Background Samples (Interwell): 72
- # Constituents: 7
- # Downgradient wells: 10

Summary of Statistical Methods – Appendix III Parameters

Based on the earlier evaluation described above, the following statistical methods were selected:

- Intrawell prediction limits, combined with a 1-of-2 resample plan for calcium, chloride, sulfate, and TDS
- Interwell prediction limits, combined with a 1-of-2 resample plan for boron, fluoride, and pH

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the annual false positive rate associated with parametric limits is fixed at 10% as recommended by the EPA Unified Guidance (2009), the false positive rate associated with nonparametric limits is not fixed and depends upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits as appropriate.

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification 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. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the intrawell case, data for all wells and constituents may be re-evaluated when a minimum of 4 new data points are available to determine whether earlier concentrations are representative of present-day groundwater

quality. In the interwell case, prediction limits are updated with upgradient well data following each sampling event after careful screening for any new outliers. While not required for this report, in some cases, deselecting the earlier portion of data may be necessary prior to construction of limits so that resulting statistical limits are conservative (lower) from a regulatory perspective and capable of rapidly detecting changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Background Update Summary – Conducted in Fall 2021

Intrawell prediction limits, which compare the most recent compliance sample from a given well to historical data from the same well, are updated by testing for the appropriateness of consolidating new sampling observations with the screened background data. The last background update was performed in Fall 2021. This process is described below and requires a minimum of four new data points. Historical data were evaluated for updating with newer data through April 2021 through the use of time series graphs to identify potential outliers when necessary, as well as with the Mann Whitney test for equality of medians. As discussed in the Statistical Analysis Plan (August 2020), intrawell prediction limits are used to evaluate calcium, chloride, sulfate, and TDS at all wells due to natural spatial variation in groundwater quality for these parameters.

Interwell prediction limits, which compare the most recent sample from each downgradient well to statistical limits constructed from pooled upgradient well data, are updated during each sample event after screening for new outliers. Data from upgradient wells are periodically re-screened for newly developing trends, which may require adjustment of the background period to eliminate the trend. Interwell prediction limits are used to evaluate boron, fluoride, and pH.

Outlier Analysis

Prior to performing prediction limits, proposed background data through April 2021 were reviewed through visual screening to identify any newly suspected outliers at all wells for calcium, chloride sulfate, and TDS, and through October 2021 at upgradient wells for boron, fluoride, and pH. When identified, values were flagged with "o" and excluded to reduce variation, better represent background conditions, and provide limits that are conservative from a regulatory perspective.

During the background screening, two historical high values for sulfate in well GN-GSA-MW-6 were flagged as outliers. While some records contained historical concentrations of sulfate that are slightly higher than present-day concentrations, no

adjustments were required to these records due to the overall low concentrations throughout the entire record. As mentioned above, flagged data are displayed in a lighter font and as a disconnected symbol on the time series reports, as well as in a lighter font on the accompanying data pages. A summary of flagged values follows this letter (Figure C).

Mann-Whitney Comparison of Medians

For constituents requiring intrawell prediction limits, the Mann Whitney (Wilcoxon Rank Sum) test was used to compare the medians of historical data through May 2019 to compliance data through April 2021. Previously truncated records which resulted from the previous update were evaluated by comparing only the truncated portion of the data set to the more recent measurements. When the medians of the two groups are not statistically significantly different at the 99% confidence level, background data sets are updated to include the newer compliance data. Statistically significant differences (either an increase or decrease in median concentrations) were found between the two groups for the following well/constituent pairs:

Increase:

- Calcium: GN-GSA-MW-1, GN-GSA-MW-10, and GN-GSA-MW-13
- Chloride: GN-GSA-MW-11
- Sulfate: GN-GSA-MW-5 and GN-GSA-MW-8
- TDS: GN-GSA-MW-5 and GN-GSA-MW-10

Decrease:

- Calcium: GN-GSA-MW-15 (upgradient)
- Chloride: GN-GSA-MW-14S (upgradient)
- Sulfate: GN-GSA-MW-3 (upgradient)

Typically, when the test concludes that the medians of the two groups are statistically significantly different, particularly in the downgradient wells, the background data are not updated to include the newer data unless it can be reasonably justified that the change in concentrations reflects a naturally occurring shift unrelated to practices at the site. In studies such as the current one, in which at least one of the segments being compared is of short duration, the comparison is complicated by the fact that normal short-term variation may be mistaken for long-term change in medians.

While the increasing median concentrations between the background and compliance data were slightly different for calcium in downgradient wells GN-GSA-MW-1, GN-GSA-MW-10, and GN-GSA-MWA-13, the majority of the reported measurements in more recent data are stable and similar to concentrations reported within each well's

respective background. Additionally, these concentrations are similar to those reported in at least one upgradient well. Therefore, these records were updated.

The statistically significant increasing differences identified at remaining downgradient wells by the Mann-Whitney test resulted from increases in median concentrations in more recent data. In order to maintain conservative (i.e., lower) statistical limits, the following well/constituent pairs were not updated during the screening:

- Calcium: GN-GSA-MW-5
- Chloride: GN-GSA-MW-11
- Sulfate: GN-GSA-MW-5 and GN-GSA-MW-8
- TDS: GN-GSA-MW-5 and GN-GSA-MW-10

Although not significant at the 99% confidence level, the increases in concentrations for calcium at well GN-GSA-MW-5 would lead to constructing statistical limits that would be difficult to detect any potential release from the facility. Therefore, the background data set for this well/constituent pair was not updated with compliance data.

The statistically significant decreasing differences identified at upgradient wells for calcium and chloride by the Mann-Whitney test resulted from slightly lower medians in more recent data compared to the medians of the historical data in these wells. These records, however, were updated since statistically significant decreases in medians between historical and compliance data sets signify lower concentrations and, subsequently, more conservative (i.e., lower) statistical limits. For sulfate in upgradient well GN-GSA-MW-3, however, more recent observations have stabilized at lower concentrations; therefore, the earlier portion of the record prior to February 2017 with higher concentrations was truncated to construct statistical limits that represent present-day groundwater quality. A list of well/constituent pairs using a truncated portion of their records follows this letter.

All records will be re-evaluated during the next background update. If future concentrations are similar to those observed currently, the earlier portion of the records may require deselection so only more recent data are used to construct statistical limits which are reflective of present-day water quality conditions. If, however, concentrations return to historical lower levels, more recent higher measurements may be flagged as outliers and deselected prior to construction of statistical limits

Trend Analysis – Upgradient Wells

The Sen's Slope/Mann Kendall trend test was used to evaluate the entire record of data from upgradient wells for parameters utilizing interwell prediction limits. When statistically significant increasing trends are identified in upgradient wells, the earlier portion of data is deselected prior to construction of interwell statistical limits if the trending data would result in statistical limits that are not conservative from a regulatory perspective. No statistically significant trends were identified except for a statistically significant decreasing trend for pH in upgradient well GN-GSA-MW-15. Since the magnitude of the trend is marginal compared to the concentrations, no adjustments were required. A summary of these results was submitted with the Fall 2021 report.

Evaluation of Appendix III Parameters – April 2022

Intrawell limits constructed from carefully screened background data from within each well serve to provide statistical limits that are representative of the background data population, and that will rapidly identify a change in more recent compliance data from within a given well. The most recent sample from the same well is compared to its respective background. This statistical method removes the element of variation from across wells and eliminates the chance of mistaking natural spatial variation for a release from the facility. Background data are re-evaluated when a minimum of 4 compliance samples are available.

Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The most recent sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

Prediction Limits

Intrawell prediction limits, combined with a 1-of-2 resample plan, were constructed for calcium, chloride, sulfate, and TDS using screened background data through April 2021 at each well (Figure D). The April 2022 sample at each well is compared to its respective intrawell prediction limit. A list of well/constituent pairs that use a truncated portion of their background data sets follow this report. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

Interwell prediction limits combined with a 1-of-2 verification strategy were constructed for boron, fluoride, and pH using upgradient well data through April 2022 (Figure E).

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When the resample confirms the initial exceedance, a statistically significant increase (SSI) is identified, and further research is required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If a resample falls within the statistical limit, the initial exceedance is considered to be a false positive result; therefore, no further action is necessary. A summary of the prediction limits results may be found in the Prediction Limit Summary tables following this letter. Exceedances for both interwell and intrawell prediction limits were identified for the following well/constituent pairs:

Intrawell:

- Calcium: GN-GSA-MW-5, GN-GSA-MW-12, and GN-GSA-MW-14S (upgradient)
- Chloride: GN-GSA-MW-11
- Sulfate: GN-GSA-MW-5 and GN-GSA-MW-8
- TDS: GN-GSA-MW-5

Interwell:

- Fluoride: GN-GSA-MW-1
- pH: GN-GSA-MW-6

Trend Tests

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable (Figure F). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site, which represents natural variation in groundwater quality. A summary of the trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- Calcium: GN-GSA-MW-5 and GN-GSA-MW-12
- Chloride: GN-GSA-MW-11
- Sulfate: GN-GSA-MW-5 and GN-GSA-MW-8
- TDS: GN-GSA-MW-5

Decreasing:

- Calcium: GN-GSA-MW-3 and GN-GSA-MW-15 (both upgradient)
- Chloride: GN-GSA-MW-3, GN-GSA-MW-14S, and GN-GSA-MW-15 (all upgradient)
- pH: GN-GSA-MW-3 and GN-GSA-MW-15 (both upgradient)
- Sulfate: GN-GSA-MW-3, GN-GSA-MW-14S, and GN-GSA-MW-15 (all upgradient)
- TDS: GN-GSA-MW-3 and GN-GSA-MW-15 (both upgradient)

Evaluation of Appendix IV Parameters – April 2022

Data from all wells for Appendix IV parameters were reassessed for outliers during previous analyses. No changes to previously flagged outliers were made. A summary of previously flagged outliers follows this report (Figure C).

In accordance with Alabama Department of Environmental Management (ADEM), the Groundwater Protections Standards (GWPS) were updated during the 2021 2nd semi-annual statistical analysis. The GWPS will be updated again during the 2023 2nd semi-annual statistical analysis. The methodology used to create these GWPS is described below.

Interwell Upper Tolerance Limits

First, background limits were determined using upper tolerance limits (UTLs) constructed from pooled upgradient well data through October 2021 (Figure G). The tolerance limits contain a known fraction (coverage) of the background population with a known level of confidence. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. As requested by ADEM to eliminate variation among upgradient well data, nonparametric tolerance limits, which use the highest value in background as the statistical limit, were constructed.

Groundwater Protection Standards

These background limits were then compared to the Maximum Contaminant Levels (MCLs) for each parameter, and the higher of the two was used as the GWPS (Figure H) in the confidence interval comparisons described below.

Confidence Intervals

Confidence intervals were then constructed on downgradient wells using a maximum of the most recent 8 samples through April 2022 for each of the Appendix IV parameters (Figure I). These intervals were either parametric or nonparametric confidence intervals depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the highest and lowest values in background as interval limits with 8 samples, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects.

As mentioned above, well/constituent pairs containing 100% non-detects for the most recent 8 samples did not require statistics; therefore, they were deselected prior to construction of confidence intervals. A list of deselected well/constituent pairs follows this report. Each confidence interval was compared with the corresponding GWPS. Only when the entire confidence interval is above the GWPS is the well/constituent pair considered to exceed its respective standard. Both a tabular summary and graphical presentation of the confidence interval results follow this letter. No confidence interval exceedances were noted except for barium in well GN-GSA-MW-1. Note that when the lower confidence limit (LCL) uses the same number of significant digits as the GWPS, that the LCL and GWPS for barium at well GN-GSA-MW-1 are equal.

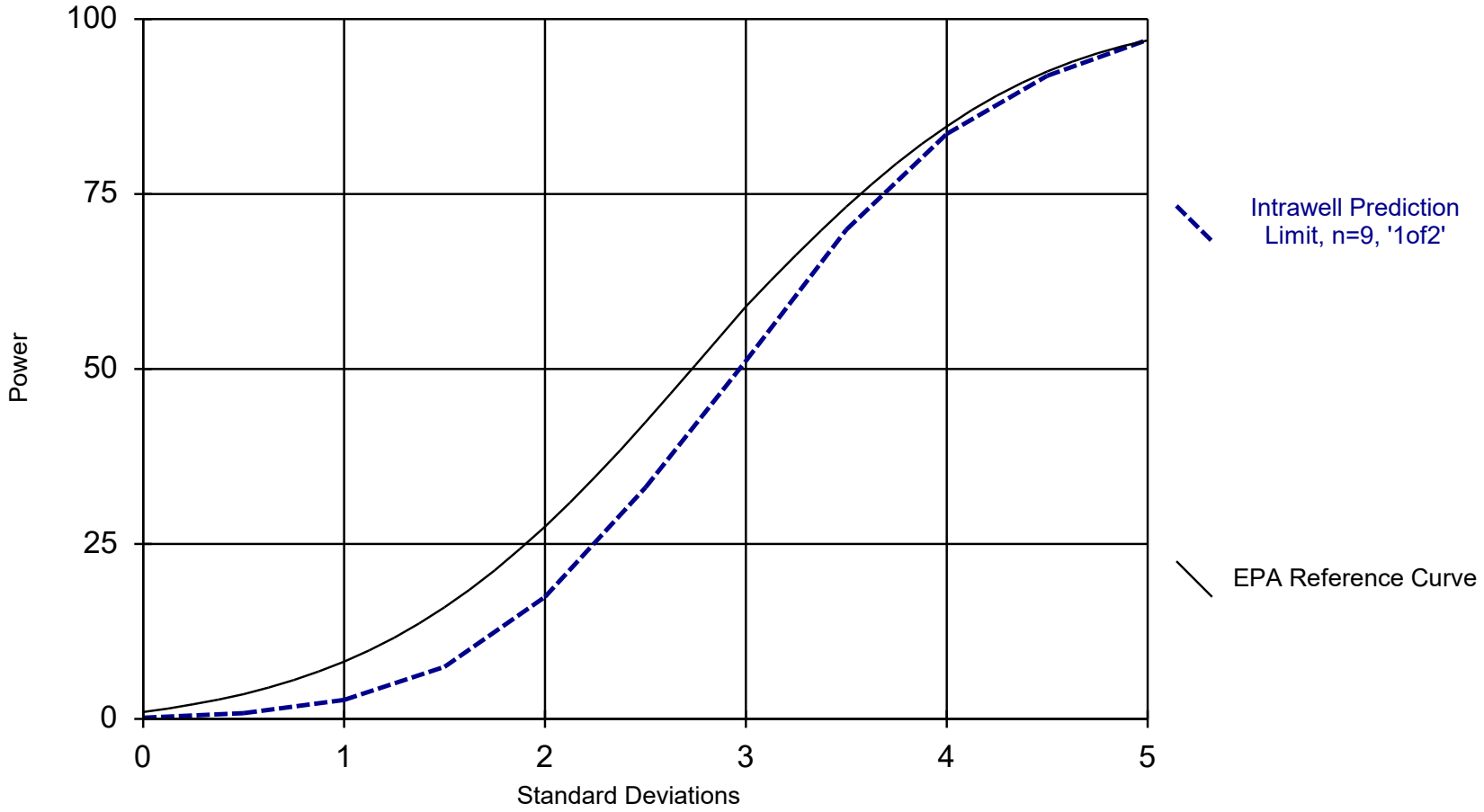
Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Gaston Gypsum Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Andrew Collins
Project Manager

Kristina Rayner
Senior Statistician

Intrawell Power Curve

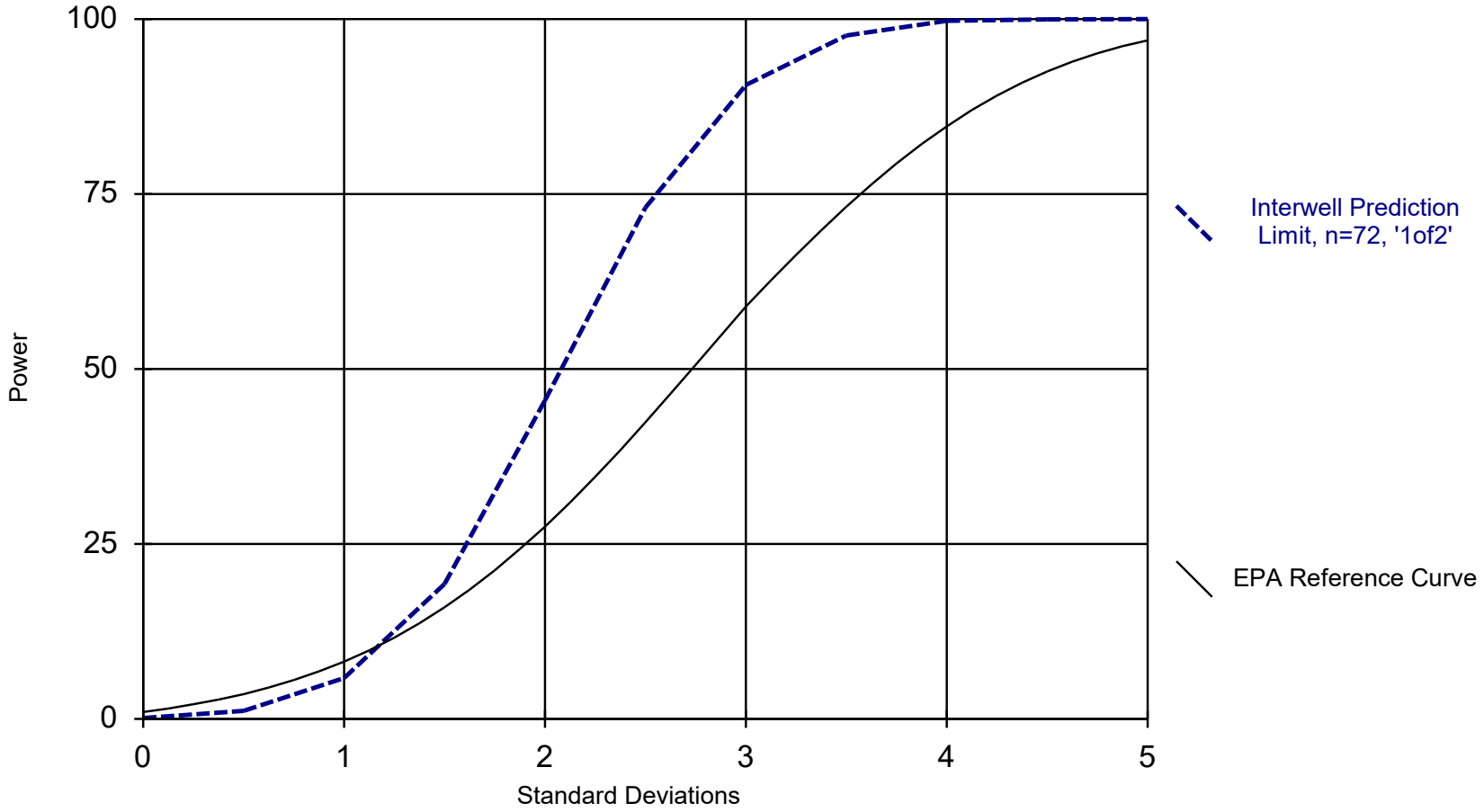


Kappa = 2.961, based on 10 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 5/31/2022 10:26 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Interwell Power Curve



Kappa = 1.994, based on 10 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 5/31/2022 10:27 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

100% Non-Detects: Appendix IV Downgradient

Analysis Run 5/31/2022 10:13 AM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Antimony (mg/L)
GN-GSA-MW-11

Beryllium (mg/L)
GN-GSA-MW-1, GN-GSA-MW-10, GN-GSA-MW-11, GN-GSA-MW-12, GN-GSA-MW-13, GN-GSA-MW-5, GN-GSA-MW-6, GN-GSA-MW-7, GN-GSA-MW-8, GN-GSA-MW-9

Cadmium (mg/L)
GN-GSA-MW-1, GN-GSA-MW-11, GN-GSA-MW-12, GN-GSA-MW-13, GN-GSA-MW-5, GN-GSA-MW-6, GN-GSA-MW-7, GN-GSA-MW-8, GN-GSA-MW-9

Cobalt (mg/L)
GN-GSA-MW-1, GN-GSA-MW-10

Fluoride (mg/L)
GN-GSA-MW-11, GN-GSA-MW-6

Lead (mg/L)
GN-GSA-MW-1, GN-GSA-MW-10, GN-GSA-MW-12, GN-GSA-MW-5, GN-GSA-MW-7, GN-GSA-MW-8

Lithium (mg/L)
GN-GSA-MW-10, GN-GSA-MW-11, GN-GSA-MW-12, GN-GSA-MW-13, GN-GSA-MW-5, GN-GSA-MW-6, GN-GSA-MW-7, GN-GSA-MW-8, GN-GSA-MW-9

Mercury (mg/L)
GN-GSA-MW-1, GN-GSA-MW-10, GN-GSA-MW-11, GN-GSA-MW-12, GN-GSA-MW-13, GN-GSA-MW-5, GN-GSA-MW-6, GN-GSA-MW-7, GN-GSA-MW-8, GN-GSA-MW-9

Molybdenum (mg/L)
GN-GSA-MW-10, GN-GSA-MW-11, GN-GSA-MW-6

Selenium (mg/L)
GN-GSA-MW-1, GN-GSA-MW-10, GN-GSA-MW-11, GN-GSA-MW-12, GN-GSA-MW-13, GN-GSA-MW-5, GN-GSA-MW-6, GN-GSA-MW-7, GN-GSA-MW-8, GN-GSA-MW-9

Thallium (mg/L)
GN-GSA-MW-1, GN-GSA-MW-10, GN-GSA-MW-11, GN-GSA-MW-12, GN-GSA-MW-13, GN-GSA-MW-5, GN-GSA-MW-6, GN-GSA-MW-7, GN-GSA-MW-8, GN-GSA-MW-9

Intrawell Prediction Limits - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 5/31/2022, 10:04 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	**GN-GSA-MW-12**	**85.67**	**n/a**	**4/13/2022**	**88**	**Yes**	**16**	**69.87**	**6.624**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Calcium (mg/L)	**GN-GSA-MW-14S**	**57.44**	**n/a**	**4/13/2022**	**58.9**	**Yes**	**16**	**48.82**	**3.611**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Calcium (mg/L)	**GN-GSA-MW-5**	**71.16**	**n/a**	**4/12/2022**	**94.1**	**Yes**	**12**	**54.73**	**6.323**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Chloride (mg/L)	**GN-GSA-MW-11**	**7.709**	**n/a**	**4/13/2022**	**19.6**	**Yes**	**9**	**4.269**	**1.162**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Sulfate (mg/L)	**GN-GSA-MW-5**	**37.06**	**n/a**	**4/12/2022**	**145**	**Yes**	**9**	**15.51**	**7.278**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Sulfate (mg/L)	**GN-GSA-MW-8**	**2.935**	**n/a**	**4/12/2022**	**3.13**	**Yes**	**9**	**1.843**	**0.3686**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
TDS (mg/L)	**GN-GSA-MW-5**	**295.1**	**n/a**	**4/12/2022**	**400**	**Yes**	**9**	**203.3**	**30.98**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**

Intrawell Prediction Limits - All Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 5/31/2022, 10:04 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	GN-GSA-MW-1	49.39	n/a	4/13/2022	47.5	No	16	39.03	4.343	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-10	108.2	n/a	4/13/2022	107	No	16	95.87	5.157	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-11	15.67	n/a	4/13/2022	15	No	16	10.74	2.063	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	**GN-GSA-MW-12**	**85.67**	**n/a**	**4/13/2022**	**88**	**Yes**	**16**	**69.87**	**6.624**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Calcium (mg/L)	GN-GSA-MW-13	109.8	n/a	4/13/2022	91.8	No	16	88.63	8.857	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	**GN-GSA-MW-14S**	**57.44**	**n/a**	**4/13/2022**	**58.9**	**Yes**	**16**	**48.82**	**3.611**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Calcium (mg/L)	GN-GSA-MW-15	11.1	n/a	4/12/2022	4.59	No	16	7.273	1.606	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-2	96.06	n/a	4/12/2022	87.1	No	16	81.49	6.104	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-3	125.5	n/a	4/12/2022	55.1	No	16	84.59	17.13	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	**GN-GSA-MW-5**	**71.16**	**n/a**	**4/12/2022**	**94.1**	**Yes**	**12**	**54.73**	**6.323**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Calcium (mg/L)	GN-GSA-MW-6	1.491	n/a	4/12/2022	0.516	No	16	0.867	0.2613	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-7	76.85	n/a	4/12/2022	71.2	No	16	65.81	4.63	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-8	61.1	n/a	4/12/2022	54.4	No	16	55.91	2.177	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-9	67.34	n/a	4/12/2022	50.4	No	16	50.56	7.034	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-1	3.72	n/a	4/13/2022	2.17	No	16	2.492	0.5148	6.25	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-10	3.733	n/a	4/13/2022	2.77	No	16	7.867	2.545	6.25	None	x^2	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	**GN-GSA-MW-11**	**7.709**	**n/a**	**4/13/2022**	**19.6**	**Yes**	**9**	**4.269**	**1.162**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Chloride (mg/L)	GN-GSA-MW-12	5.443	n/a	4/13/2022	3.76	No	16	3.16	0.9566	6.25	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-13	4.799	n/a	4/13/2022	3.01	No	16	3.594	0.5051	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-14S	5.899	n/a	4/13/2022	2.42	No	16	3.731	0.9087	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-15	4.314	n/a	4/12/2022	1.88	No	16	2.366	0.8163	6.25	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-2	4.633	n/a	4/12/2022	3.23	No	16	3.649	0.4125	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-3	3.779	n/a	4/12/2022	2.67	No	16	2.981	0.3341	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-5	21.16	n/a	4/12/2022	7.35	No	16	10.05	4.656	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-6	4.019	n/a	4/12/2022	3.38	No	16	9.249	2.894	6.25	None	x^2	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-7	4.585	n/a	4/12/2022	3.29	No	16	3.546	0.4352	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-8	2.505	n/a	4/12/2022	1.54	No	16	1.679	0.3463	12.5	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-9	3.098	n/a	4/12/2022	1.91	No	16	5.326	1.791	6.25	None	x^2	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-1	6.359	n/a	4/13/2022	4.24	No	16	4.188	0.9103	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-10	2.255	n/a	4/13/2022	1.68J	No	16	4.979	2.722	12.5	None	x^3	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-11	14.58	n/a	4/13/2022	2.73	No	16	2.28	0.6446	0	None	sqrt(x)	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-12	16.13	n/a	4/13/2022	8.25	No	16	8.719	3.106	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-13	10.31	n/a	4/13/2022	7.27	No	16	8.234	0.871	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-14S	16.97	n/a	4/13/2022	2.44	No	16	7.728	3.872	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-15	5.392	n/a	4/12/2022	1.76J	No	16	2.705	1.126	6.25	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-2	11.38	n/a	4/12/2022	8.36	No	16	7.632	1.57	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-3	19.53	n/a	4/12/2022	7.36	No	11	11.88	2.842	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	**GN-GSA-MW-5**	**37.06**	**n/a**	**4/12/2022**	**145**	**Yes**	**9**	**15.51**	**7.278**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Sulfate (mg/L)	GN-GSA-MW-6	1.89	n/a	4/12/2022	0.5ND	No	14	n/a	n/a	64.29	n/a	n/a	0.008612	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	GN-GSA-MW-7	14.59	n/a	4/12/2022	5.75	No	16	9.522	2.123	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	**GN-GSA-MW-8**	**2.935**	**n/a**	**4/12/2022**	**3.13**	**Yes**	**9**	**1.843**	**0.3686**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Sulfate (mg/L)	GN-GSA-MW-9	6.776	n/a	4/12/2022	4.09	No	16	5.406	0.5742	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-1	259.7	n/a	4/13/2022	217	No	16	207.7	21.8	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-10	274	n/a	4/13/2022	273	No	9	251.8	7.496	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-11	105.2	n/a	4/13/2022	84	No	16	70.39	14.61	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-12	281.5	n/a	4/13/2022	250	No	16	226.9	22.87	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-13	317.1	n/a	4/13/2022	266	No	16	1.9e7	5203459	0	None	x^3	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-14S	224.5	n/a	4/13/2022	187	No	16	200.8	9.97	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-15	60.07	n/a	4/12/2022	27.3	No	16	39.45	8.643	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-2	309	n/a	4/12/2022	271	No	16	285.3	9.95	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-3	388.2	n/a	4/12/2022	156	No	16	268.7	50.11	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	**GN-GSA-MW-5**	**295.1**	**n/a**	**4/12/2022**	**400**	**Yes**	**9**	**203.3**	**30.98**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
TDS (mg/L)	GN-GSA-MW-6	30	n/a	4/12/2022	12.5ND	No	16	n/a	n/a	68.75	n/a	n/a	0.006456	NP Intra (NDs) 1 of 2
TDS (mg/L)	GN-GSA-MW-7	256.7	n/a	4/12/2022	214	No	16	220.7	15.11	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-8	202.5	n/a	4/12/2022	176	No	16	188.9	5.691	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-9	212	n/a	4/12/2022	155	No	16	170.2	17.53	0	None	No	0.0007523	Param Intra 1 of 2

Interwell Prediction Limits - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 5/31/2022, 10:06 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	**GN-GSA-MW-1**	**0.125**	**n/a**	**4/13/2022**	**0.307**	**Yes**	**76**	**n/a**	**n/a**	**40.79**	**n/a**	**n/a**	**0.0003321**	**NP Inter (normality) 1 of 2**
pH (pH)	**GN-GSA-MW-6**	**7.53**	**5.25**	**4/12/2022**	**4.38**	**Yes**	**76**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006643**	**NP Inter (normality) 1 of 2**

Interwell Prediction Limits - All Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 5/31/2022, 10:06 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GN-GSA-MW-1	0.1015	n/a	4/13/2022	0.0353J	No	72	n/a	n/a	98.61	n/a	n/a	0.0003671	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-10	0.1015	n/a	4/13/2022	0.1015ND	No	72	n/a	n/a	98.61	n/a	n/a	0.0003671	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-11	0.1015	n/a	4/13/2022	0.0565J	No	72	n/a	n/a	98.61	n/a	n/a	0.0003671	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-12	0.1015	n/a	4/13/2022	0.1015ND	No	72	n/a	n/a	98.61	n/a	n/a	0.0003671	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-13	0.1015	n/a	4/13/2022	0.1015ND	No	72	n/a	n/a	98.61	n/a	n/a	0.0003671	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-5	0.1015	n/a	4/12/2022	0.0481J	No	72	n/a	n/a	98.61	n/a	n/a	0.0003671	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-6	0.1015	n/a	4/12/2022	0.1015ND	No	72	n/a	n/a	98.61	n/a	n/a	0.0003671	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-7	0.1015	n/a	4/12/2022	0.1015ND	No	72	n/a	n/a	98.61	n/a	n/a	0.0003671	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-8	0.1015	n/a	4/12/2022	0.1015ND	No	72	n/a	n/a	98.61	n/a	n/a	0.0003671	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-9	0.1015	n/a	4/12/2022	0.1015ND	No	72	n/a	n/a	98.61	n/a	n/a	0.0003671	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	**GN-GSA-MW-1**	**0.125**	**n/a**	**4/13/2022**	**0.307**	**Yes**	**76**	**n/a**	**n/a**	**40.79**	**n/a**	**n/a**	**0.0003321**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	GN-GSA-MW-10	0.125	n/a	4/13/2022	0.125ND	No	76	n/a	n/a	40.79	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-11	0.125	n/a	4/13/2022	0.125ND	No	76	n/a	n/a	40.79	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-12	0.125	n/a	4/13/2022	0.125ND	No	76	n/a	n/a	40.79	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-13	0.125	n/a	4/13/2022	0.125ND	No	76	n/a	n/a	40.79	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-5	0.125	n/a	4/12/2022	0.125ND	No	76	n/a	n/a	40.79	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-6	0.125	n/a	4/12/2022	0.125ND	No	76	n/a	n/a	40.79	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-7	0.125	n/a	4/12/2022	0.0724J	No	76	n/a	n/a	40.79	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-8	0.125	n/a	4/12/2022	0.0621J	No	76	n/a	n/a	40.79	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-9	0.125	n/a	4/12/2022	0.125ND	No	76	n/a	n/a	40.79	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-1	7.53	5.25	4/13/2022	7.5	No	76	n/a	n/a	0	n/a	n/a	0.0006643	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-10	7.53	5.25	4/13/2022	6.85	No	76	n/a	n/a	0	n/a	n/a	0.0006643	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-11	7.53	5.25	4/13/2022	5.29	No	76	n/a	n/a	0	n/a	n/a	0.0006643	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-12	7.53	5.25	4/13/2022	6.74	No	76	n/a	n/a	0	n/a	n/a	0.0006643	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-13	7.53	5.25	4/13/2022	6.84	No	76	n/a	n/a	0	n/a	n/a	0.0006643	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-5	7.53	5.25	4/12/2022	6.32	No	76	n/a	n/a	0	n/a	n/a	0.0006643	NP Inter (normality) 1 of 2
pH (pH)	**GN-GSA-MW-6**	**7.53**	**5.25**	**4/12/2022**	**4.38**	**Yes**	**76**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006643**	**NP Inter (normality) 1 of 2**
pH (pH)	GN-GSA-MW-7	7.53	5.25	4/12/2022	6.73	No	76	n/a	n/a	0	n/a	n/a	0.0006643	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-8	7.53	5.25	4/12/2022	7.22	No	76	n/a	n/a	0	n/a	n/a	0.0006643	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-9	7.53	5.25	4/12/2022	6.22	No	76	n/a	n/a	0	n/a	n/a	0.0006643	NP Inter (normality) 1 of 2

Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 5/31/2022, 10:10 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	**GN-GSA-MW-12**	**3.901**	**102**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GN-GSA-MW-15 (bg)**	**-0.8106**	**-117**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GN-GSA-MW-3 (bg)**	**-9.601**	**-119**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GN-GSA-MW-5**	**6.556**	**115**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-11**	**1.703**	**117**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-14S (bg)**	**-0.4589**	**-110**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-15 (bg)**	**-0.3293**	**-87**	**-68**	**Yes**	**18**	**5.556**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-3 (bg)**	**-0.09949**	**-77**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	**GN-GSA-MW-15 (bg)**	**-0.05887**	**-104**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	**GN-GSA-MW-3 (bg)**	**-0.07961**	**-75**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-14S (bg)**	**-1.698**	**-97**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-15 (bg)**	**-0.3716**	**-87**	**-68**	**Yes**	**18**	**5.556**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-3 (bg)**	**-3.054**	**-137**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-5**	**20.37**	**115**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-8**	**0.5214**	**93**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GN-GSA-MW-15 (bg)**	**-4.203**	**-92**	**-68**	**Yes**	**18**	**5.556**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GN-GSA-MW-3 (bg)**	**-28.38**	**-131**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GN-GSA-MW-5**	**39.13**	**116**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Trend Tests - Prediction Limit Exceedances - All Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 5/31/2022, 10:10 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	**GN-GSA-MW-12**	**3.901**	**102**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GN-GSA-MW-14S (bg)	-0.2897	-13	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GN-GSA-MW-15 (bg)**	**-0.8106**	**-117**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GN-GSA-MW-2 (bg)	1.479	52	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GN-GSA-MW-3 (bg)**	**-9.601**	**-119**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GN-GSA-MW-5**	**6.556**	**115**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-11**	**1.703**	**117**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-14S (bg)**	**-0.4589**	**-110**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-15 (bg)**	**-0.3293**	**-87**	**-68**	**Yes**	**18**	**5.556**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	GN-GSA-MW-2 (bg)	-0.001806	-3	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**GN-GSA-MW-3 (bg)**	**-0.09949**	**-77**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	GN-GSA-MW-1	-0.0004986	-5	-74	No	19	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-14S (bg)	0.003036	30	74	No	19	26.32	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-15 (bg)	0	65	74	No	19	73.68	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-2 (bg)	0.004864	55	74	No	19	52.63	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-3 (bg)	0	-4	-74	No	19	10.53	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-14S (bg)	-0.01357	-39	-74	No	19	0	n/a	n/a	0.01	NP
pH (pH)	**GN-GSA-MW-15 (bg)**	**-0.05887**	**-104**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	GN-GSA-MW-2 (bg)	-0.01583	-55	-74	No	19	0	n/a	n/a	0.01	NP
pH (pH)	**GN-GSA-MW-3 (bg)**	**-0.07961**	**-75**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	GN-GSA-MW-6	-0.02307	-38	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GN-GSA-MW-14S (bg)**	**-1.698**	**-97**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-15 (bg)**	**-0.3716**	**-87**	**-68**	**Yes**	**18**	**5.556**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GN-GSA-MW-2 (bg)	0.2537	41	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GN-GSA-MW-3 (bg)**	**-3.054**	**-137**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-5**	**20.37**	**115**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-8**	**0.5214**	**93**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GN-GSA-MW-14S (bg)	-3.067	-61	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GN-GSA-MW-15 (bg)**	**-4.203**	**-92**	**-68**	**Yes**	**18**	**5.556**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GN-GSA-MW-2 (bg)	-1.64	-33	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GN-GSA-MW-3 (bg)**	**-28.38**	**-131**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GN-GSA-MW-5**	**39.13**	**116**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Upper Tolerance Limits - Summary Table

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 1/11/2022, 10:38 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.00117	n/a	n/a	n/a	68	n/a	n/a	95.59	n/a	n/a	0.03056	NP Inter
Arsenic (mg/L)	n/a	0.00032	n/a	n/a	n/a	68	n/a	n/a	89.71	n/a	n/a	0.03056	NP Inter
Barium (mg/L)	n/a	0.0622	n/a	n/a	n/a	68	n/a	n/a	0	n/a	n/a	0.03056	NP Inter
Beryllium (mg/L)	n/a	0.00102	n/a	n/a	n/a	68	n/a	n/a	100	n/a	n/a	0.03056	NP Inter
Cadmium (mg/L)	n/a	0.0002	n/a	n/a	n/a	68	n/a	n/a	100	n/a	n/a	0.03056	NP Inter
Chromium (mg/L)	n/a	0.00102	n/a	n/a	n/a	68	n/a	n/a	89.71	n/a	n/a	0.03056	NP Inter
Cobalt (mg/L)	n/a	0.00313	n/a	n/a	n/a	68	n/a	n/a	94.12	n/a	n/a	0.03056	NP Inter
Combined Radium 226 + 228 (pCi/L)	n/a	2.36	n/a	n/a	n/a	68	n/a	n/a	2.941	n/a	n/a	0.03056	NP Inter
Fluoride (mg/L)	n/a	0.111	n/a	n/a	n/a	72	n/a	n/a	37.5	n/a	n/a	0.02489	NP Inter
Lead (mg/L)	n/a	0.0002	n/a	n/a	n/a	68	n/a	n/a	100	n/a	n/a	0.03056	NP Inter
Lithium (mg/L)	n/a	0.02	n/a	n/a	n/a	68	n/a	n/a	100	n/a	n/a	0.03056	NP Inter
Mercury (mg/L)	n/a	0.0005	n/a	n/a	n/a	68	n/a	n/a	100	n/a	n/a	0.03056	NP Inter
Molybdenum (mg/L)	n/a	0.00046	n/a	n/a	n/a	68	n/a	n/a	92.65	n/a	n/a	0.03056	NP Inter
Selenium (mg/L)	n/a	0.00102	n/a	n/a	n/a	68	n/a	n/a	98.53	n/a	n/a	0.03056	NP Inter
Thallium (mg/L)	n/a	0.000228	n/a	n/a	n/a	68	n/a	n/a	98.53	n/a	n/a	0.03056	NP Inter

GASTON GYPSUM POND GWPS			
Analyte	**Units**	**Background**	**GWPS**
Antimony	mg/L	0.00117	0.006
Arsenic	mg/L	0.00032	0.01
Barium	mg/L	0.0622	2
Beryllium	mg/L	0.00102	0.004
Cadmium	mg/L	0.0002	0.005
Chromium	mg/L	0.00102	0.1
Cobalt	mg/L	0.00313	0.006
Combined Radium-226/228	pCi/L	2.36	5
Fluoride	mg/L	0.111	4
Lead	mg/L	0.0002	0.015
Lithium	mg/L	0.02	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.00046	0.1
Selenium	mg/L	0.00102	0.05
Thallium	mg/L	0.000228	0.002

Notes:

1. mg/L - Milligrams per liter

2. pCi/L - Picocuries per liter

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

4. GWPS established during second semi-annual sampling event in 2021.

Confidence Intervals - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 5/31/2022, 10:18 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	**GN-GSA-MW-1**	**2.585**	**2.002**	**2**	**Yes**	**8**	**2.294**	**0.275**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Intervals - All Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 5/31/2022, 10:18 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GN-GSA-MW-1	0.00102	0.000909	0.006	No	8	0.001006	0.00003924	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-GSA-MW-10	0.00102	0.000916	0.006	No	8	0.001007	0.00003677	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-GSA-MW-12	0.00102	0.000813	0.006	No	8	0.0009941	0.00007319	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-GSA-MW-13	0.00127	0.00102	0.006	No	8	0.001051	0.00008839	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-GSA-MW-5	0.00241	0.00102	0.006	No	8	0.001194	0.0004914	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-GSA-MW-6	0.00171	0.00102	0.006	No	8	0.001106	0.000244	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-GSA-MW-7	0.00123	0.00102	0.006	No	8	0.001046	0.00007425	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-GSA-MW-8	0.00106	0.00102	0.006	No	8	0.001025	0.00001414	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-GSA-MW-9	0.00112	0.00102	0.006	No	8	0.001032	0.00003536	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-1	0.007288	0.003149	0.01	No	8	0.005219	0.001953	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-GSA-MW-10	0.0002	0.00007	0.01	No	8	0.0001696	0.00005641	75	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-11	0.0002	0.00009	0.01	No	8	0.0001617	0.00005318	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-12	0.00033	0.0002	0.01	No	8	0.0002212	0.00004518	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-13	0.00348	0.00012	0.01	No	8	0.0005911	0.001168	50	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-GSA-MW-5	0.00235	0.0001442	0.01	No	8	0.001247	0.001112	25	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	GN-GSA-MW-6	0.0002	0.00008	0.01	No	8	0.0001611	0.0000543	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-7	0.001	0.0002	0.01	No	8	0.0003736	0.0002757	50	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-GSA-MW-8	0.001412	0.001208	0.01	No	8	0.00131	0.00009577	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-GSA-MW-9	0.000237	0.00014	0.01	No	8	0.0001946	0.00002709	62.5	None	No	0.004	NP (NDs)
Barium (mg/L)	**GN-GSA-MW-1**	**2.585**	**2.002**	**2**	**Yes**	**8**	**2.294**	**0.275**	**0**	**None**	**No**	**0.01**	**Param.**
Barium (mg/L)	GN-GSA-MW-10	0.03934	0.03324	2	No	8	0.03629	0.002878	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-11	0.0162	0.00444	2	No	8	0.007318	0.003807	0	None	No	0.004	NP (normality)
Barium (mg/L)	GN-GSA-MW-12	0.02502	0.01835	2	No	8	0.02169	0.003146	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-13	0.0697	0.0369	2	No	8	0.04506	0.01039	0	None	No	0.004	NP (normality)
Barium (mg/L)	GN-GSA-MW-5	0.07437	0.04615	2	No	8	0.06026	0.01331	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-6	0.01949	0.01554	2	No	8	0.01751	0.001865	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-7	0.02285	0.01553	2	No	8	0.01919	0.003452	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-8	0.0314	0.0257	2	No	8	0.02788	0.002458	0	None	No	0.004	NP (normality)
Barium (mg/L)	GN-GSA-MW-9	0.02639	0.02224	2	No	8	0.02431	0.001956	0	None	No	0.01	Param.
Cadmium (mg/L)	GN-GSA-MW-10	0.0002	0.00008	0.005	No	8	0.000185	0.00004243	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-1	0.00102	0.00021	0.1	No	8	0.0009187	0.0002864	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-10	0.00102	0.00023	0.1	No	8	0.0009212	0.0002793	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-11	0.00102	0.0003	0.1	No	8	0.00093	0.0002546	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-12	0.00102	0.00021	0.1	No	8	0.0008275	0.0003571	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-13	0.002	0.000518	0.1	No	8	0.0009585	0.000486	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-GSA-MW-5	0.00102	0.00028	0.1	No	8	0.0008362	0.0003402	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-6	0.00102	0.00022	0.1	No	8	0.0007284	0.0004026	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-7	0.00102	0.000361	0.1	No	8	0.0008801	0.0002644	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-8	0.00102	0.000291	0.1	No	8	0.0007639	0.0003542	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-9	0.00102	0.00021	0.1	No	8	0.0008257	0.0003601	75	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-11	0.003096	0.001659	0.006	No	8	0.002322	0.0009415	12.5	None	x^2	0.01	Param.
Cobalt (mg/L)	GN-GSA-MW-12	0.00042	0.00016	0.006	No	8	0.0002247	0.00008055	62.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-13	0.0002	0.0001	0.006	No	8	0.0001822	0.00003634	75	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-5	0.004722	0.0004226	0.006	No	8	0.002509	0.002176	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	GN-GSA-MW-6	0.000682	0.0002	0.006	No	8	0.000374	0.0002403	62.5	Kaplan-Meier	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-7	0.00217	0.0002	0.006	No	8	0.0005837	0.0006766	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-GSA-MW-8	0.0002	0.00007	0.006	No	8	0.0001666	0.00005003	62.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-9	0.00041	0.0000816	0.006	No	8	0.0002114	0.00009029	75	None	No	0.004	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-1	1.78	0.925	5	No	8	1.344	0.4583	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-10	2.293	0.1533	5	No	8	1.181	1.637	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-11	1.773	0.07089	5	No	8	0.8594	1.096	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-12	1.413	0.2411	5	No	8	0.8273	0.553	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-13	1.643	0.2405	5	No	8	0.9734	1.222	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-5	1.105	0.08199	5	No	8	0.5935	0.4826	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-6	1.245	0.07475	5	No	8	0.6598	0.5519	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-7	0.9881	0.0946	5	No	8	0.5414	0.4215	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-8	0.8329	0.0974	5	No	8	0.4652	0.347	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-9	0.8409	0.1718	5	No	8	0.4904	0.3597	0	None	x^(1/3)	0.01	Param.

Confidence Intervals - All Results

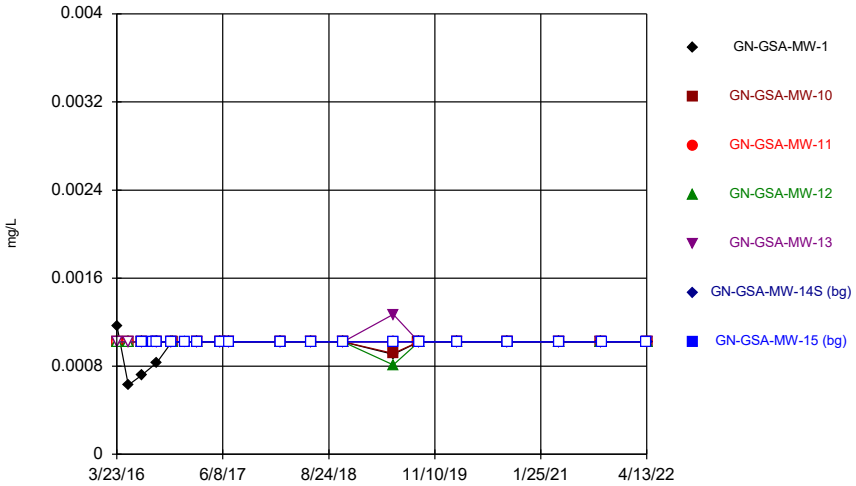
Plant Gaston Client: Southern Company Data: Gaston GSA Printed 5/31/2022, 10:18 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GN-GSA-MW-1	0.3666	0.2762	4	No	8	0.3214	0.04265	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-GSA-MW-10	0.125	0.0617	4	No	8	0.1171	0.02238	87.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-GSA-MW-12	0.125	0.0547	4	No	8	0.08515	0.03324	37.5	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-GSA-MW-13	0.125	0.05	4	No	8	0.07733	0.03031	25	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-GSA-MW-5	0.125	0.06	4	No	8	0.1082	0.02523	62.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-GSA-MW-7	0.1223	0.07583	4	No	8	0.09906	0.02192	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-GSA-MW-8	0.1467	0.08954	4	No	8	0.1181	0.02698	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-GSA-MW-9	0.125	0.05	4	No	8	0.08628	0.03525	37.5	None	No	0.004	NP (normality)
Lead (mg/L)	GN-GSA-MW-11	0.0002	0.00011	0.015	No	8	0.0001887	0.00003182	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-GSA-MW-13	0.00228	0.0002	0.015	No	8	0.00046	0.0007354	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-GSA-MW-6	0.0004	0.0002	0.015	No	8	0.0002519	0.00007709	62.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-GSA-MW-9	0.0002	0.00011	0.015	No	8	0.0001887	0.00003182	87.5	None	No	0.004	NP (NDs)
Lithium (mg/L)	GN-GSA-MW-1	0.02	0.00953	0.04	No	8	0.01486	0.005492	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-GSA-MW-1	0.005371	0.003419	0.1	No	8	0.004395	0.000921	0	None	No	0.01	Param.
Molybdenum (mg/L)	GN-GSA-MW-12	0.01	0.000298	0.1	No	8	0.006367	0.005014	62.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-GSA-MW-13	0.01	0.00016	0.1	No	8	0.006318	0.005081	62.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-GSA-MW-5	0.01	0.00009	0.1	No	8	0.006288	0.005123	62.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-GSA-MW-7	0.01	0.00025	0.1	No	8	0.006349	0.005038	62.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-GSA-MW-8	0.004113	0.003199	0.1	No	8	0.003656	0.000431	0	None	No	0.01	Param.
Molybdenum (mg/L)	GN-GSA-MW-9	0.01	0.000207	0.1	No	8	0.006342	0.005048	62.5	None	No	0.004	NP (NDs)

FIGURE A.

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

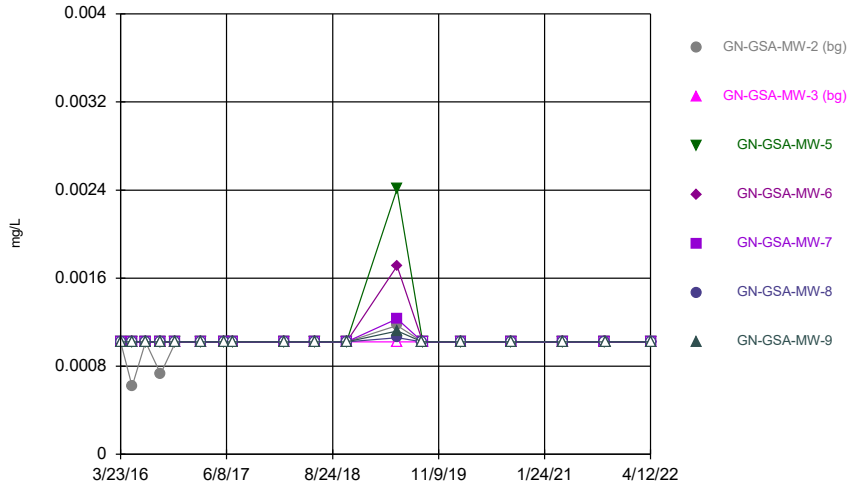
Time Series



Constituent: Antimony Analysis Run 5/31/2022 10:23 AM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

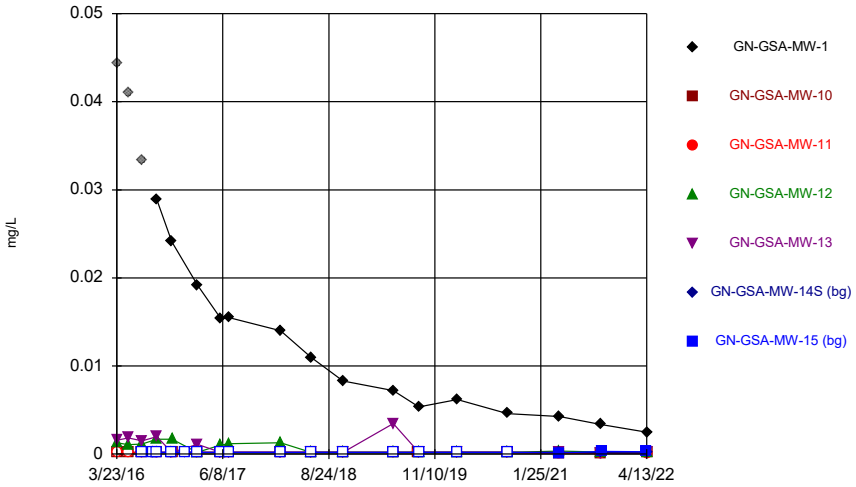
Time Series



Constituent: Antimony Analysis Run 5/31/2022 10:23 AM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

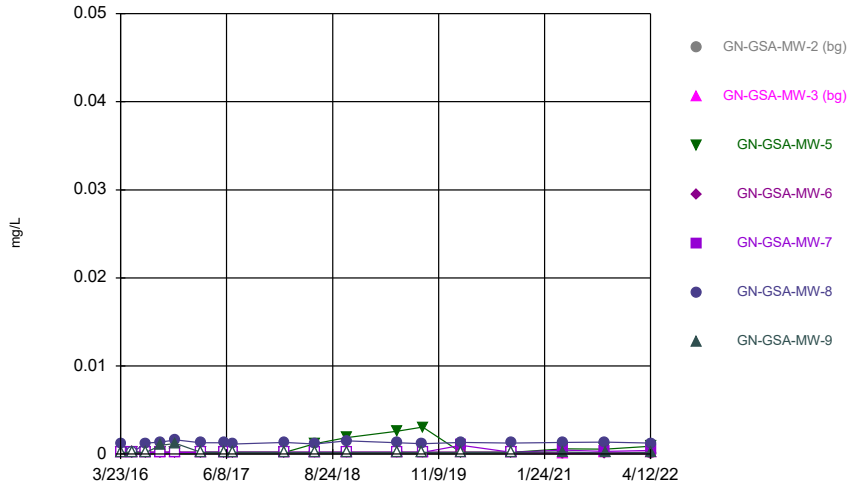
Time Series



Constituent: Arsenic Analysis Run 5/31/2022 10:23 AM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

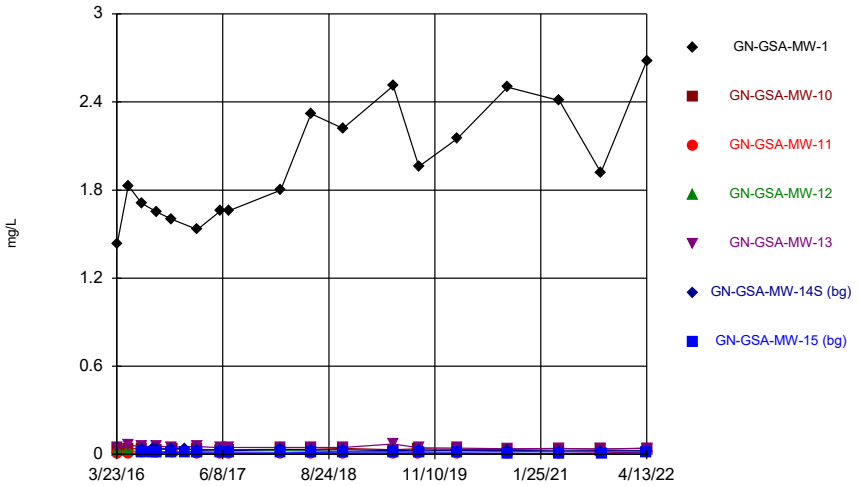
Time Series



Constituent: Arsenic Analysis Run 5/31/2022 10:23 AM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Time Series

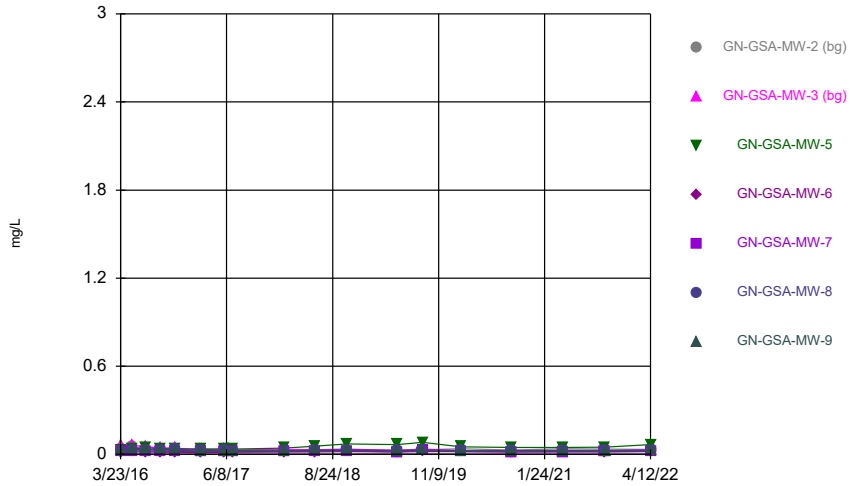


Constituent: Barium Analysis Run 5/31/2022 10:23 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Time Series



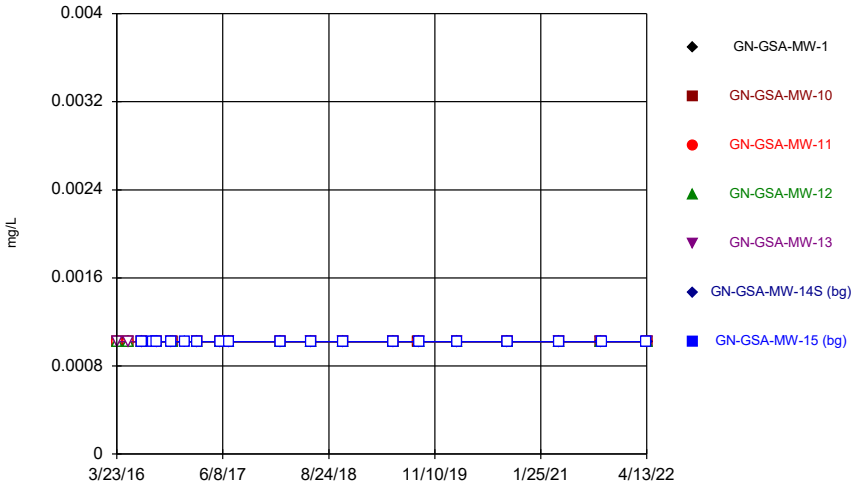
Constituent: Barium Analysis Run 5/31/2022 10:23 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



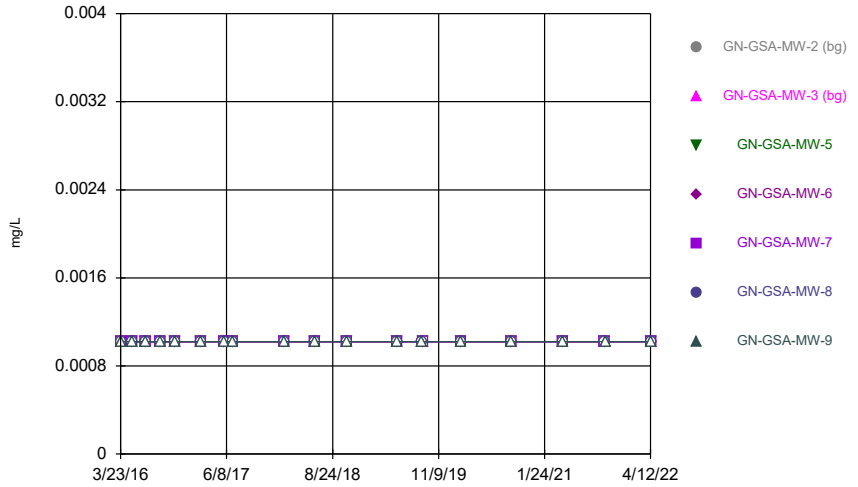
Constituent: Beryllium Analysis Run 5/31/2022 10:23 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

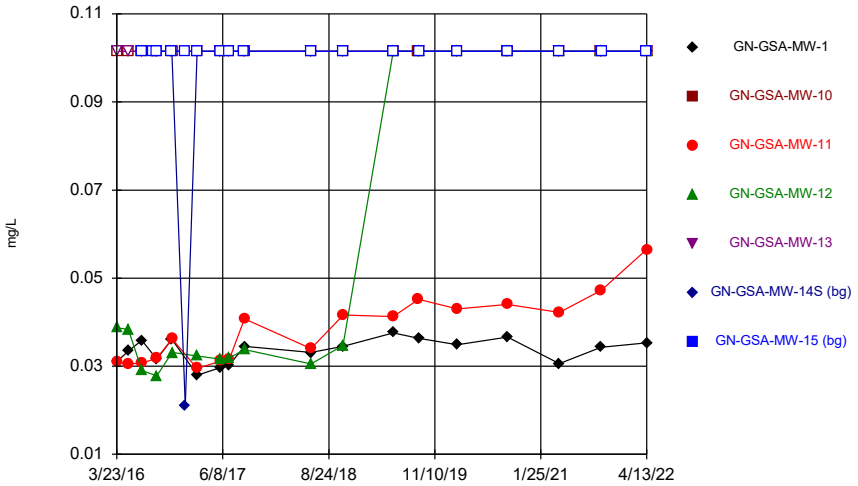


Constituent: Beryllium Analysis Run 5/31/2022 10:23 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

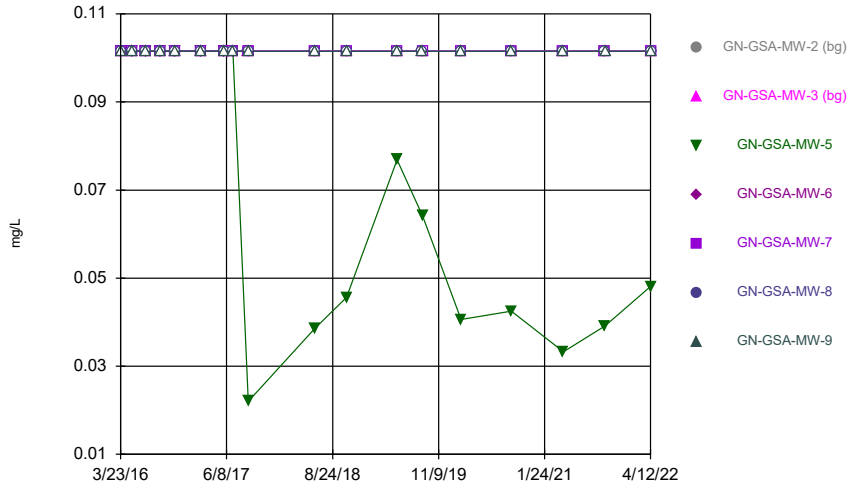
Time Series



Constituent: Boron Analysis Run 5/31/2022 10:23 AM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

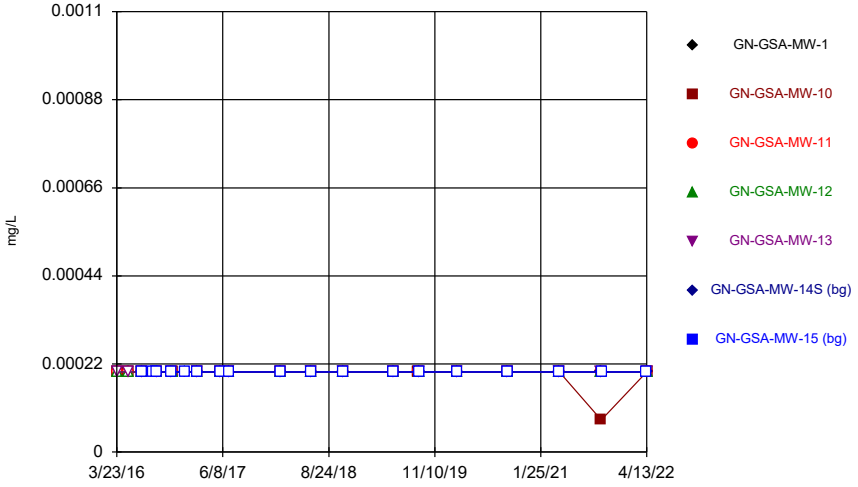
Time Series



Constituent: Boron Analysis Run 5/31/2022 10:23 AM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

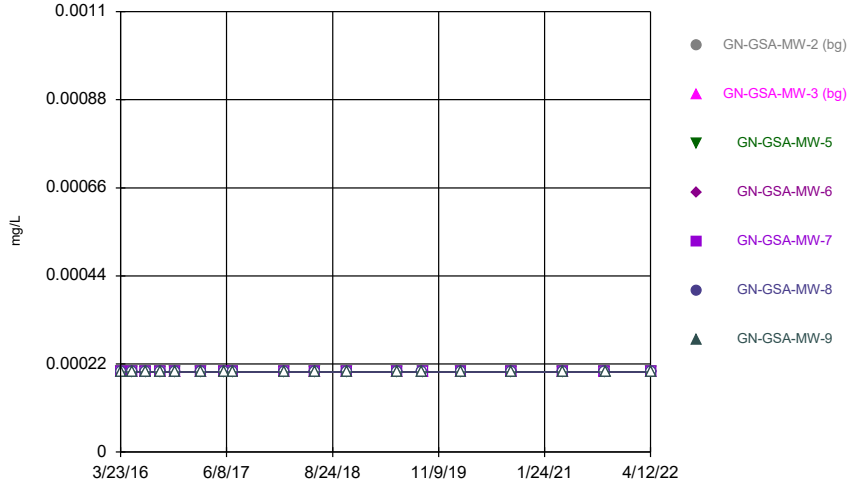
Time Series



Constituent: Cadmium Analysis Run 5/31/2022 10:23 AM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

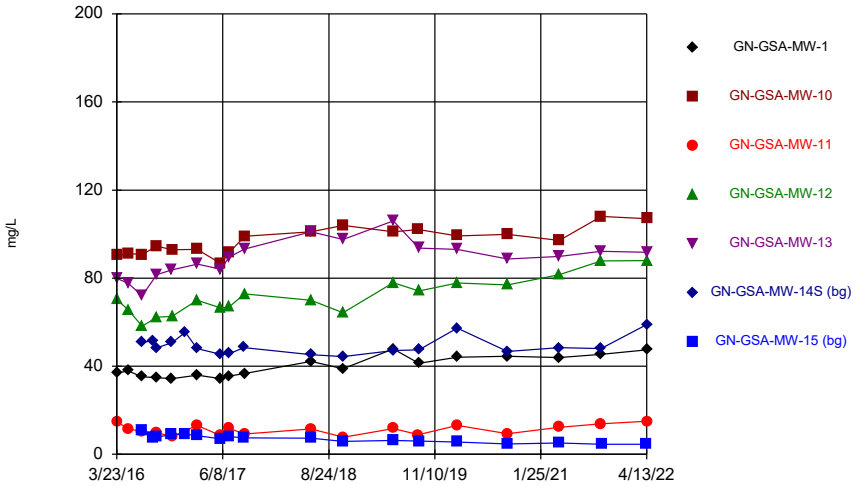
Time Series



Constituent: Cadmium Analysis Run 5/31/2022 10:24 AM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Time Series

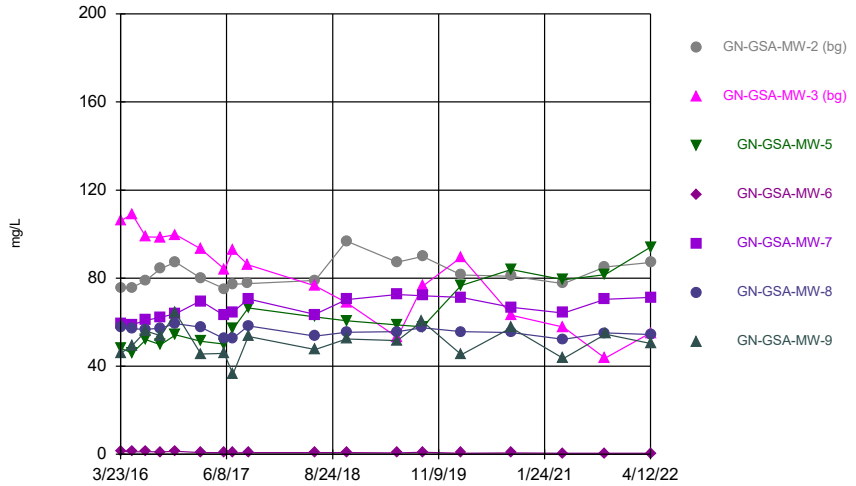


Constituent: Calcium Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Time Series



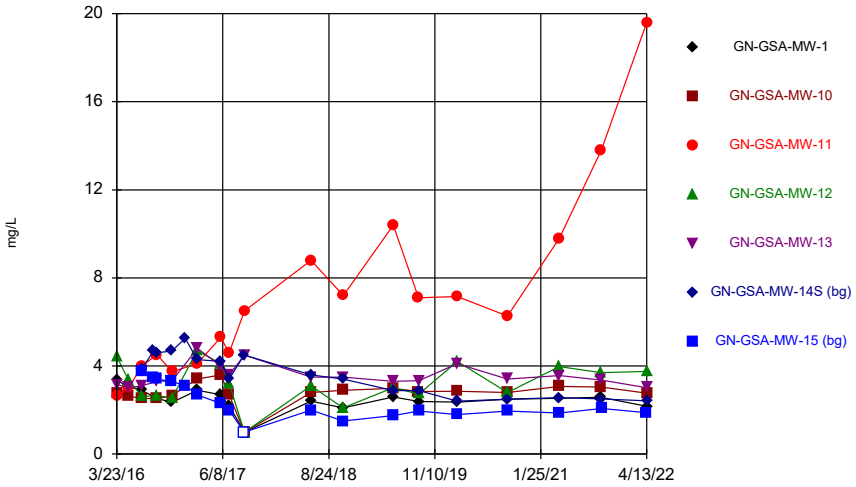
Constituent: Calcium Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



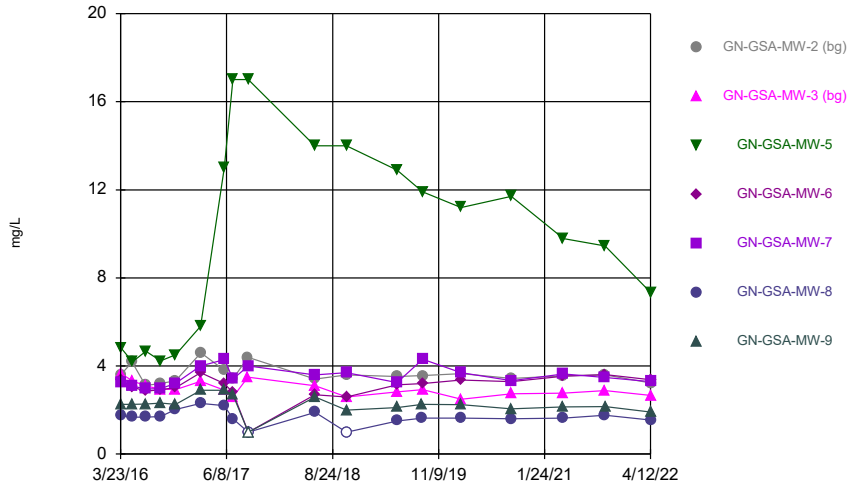
Constituent: Chloride Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

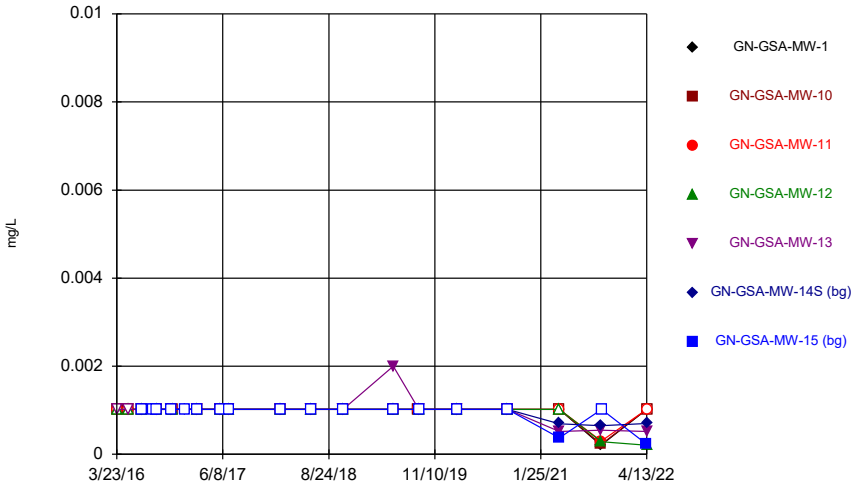


Constituent: Chloride Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

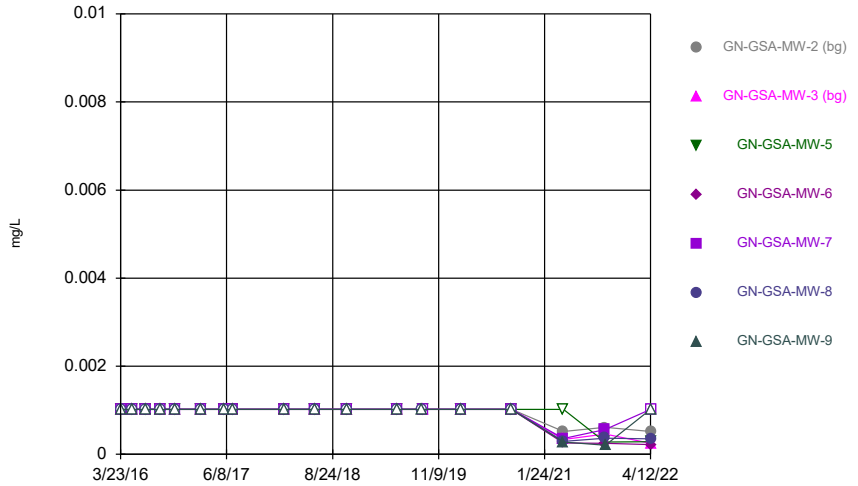
Time Series



Constituent: Chromium Analysis Run 5/31/2022 10:24 AM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

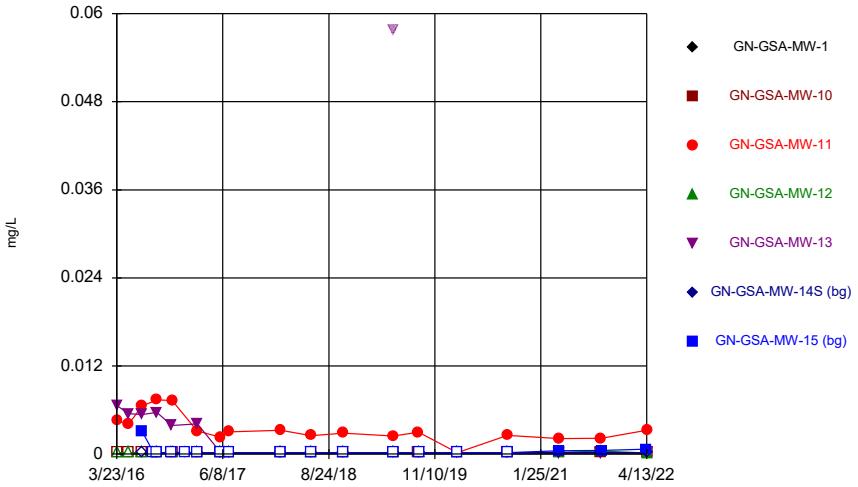
Time Series



Constituent: Chromium Analysis Run 5/31/2022 10:24 AM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

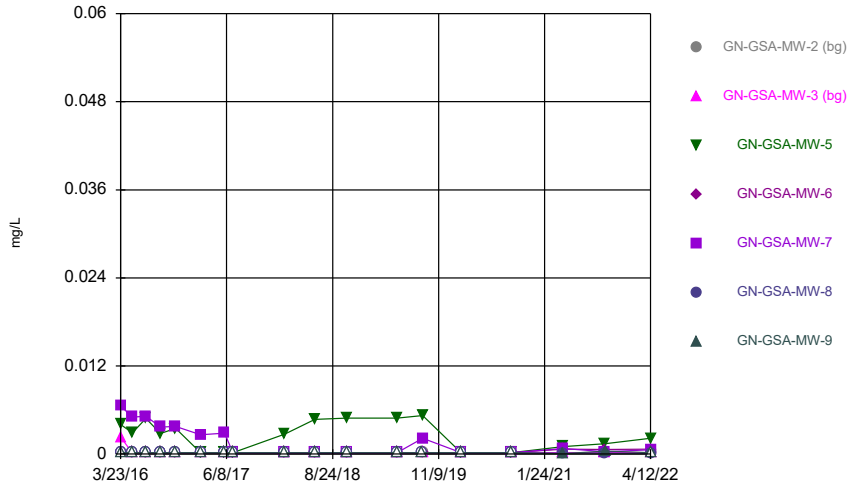
Time Series



Constituent: Cobalt Analysis Run 5/31/2022 10:24 AM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

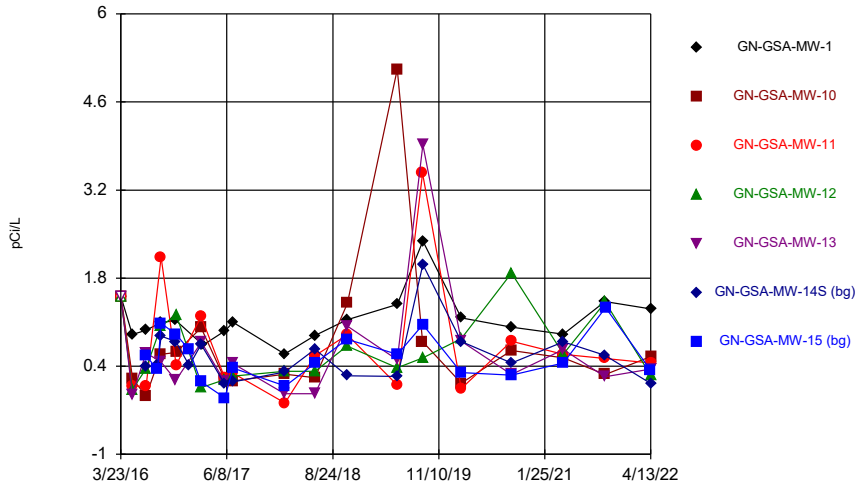
Time Series



Constituent: Cobalt Analysis Run 5/31/2022 10:24 AM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

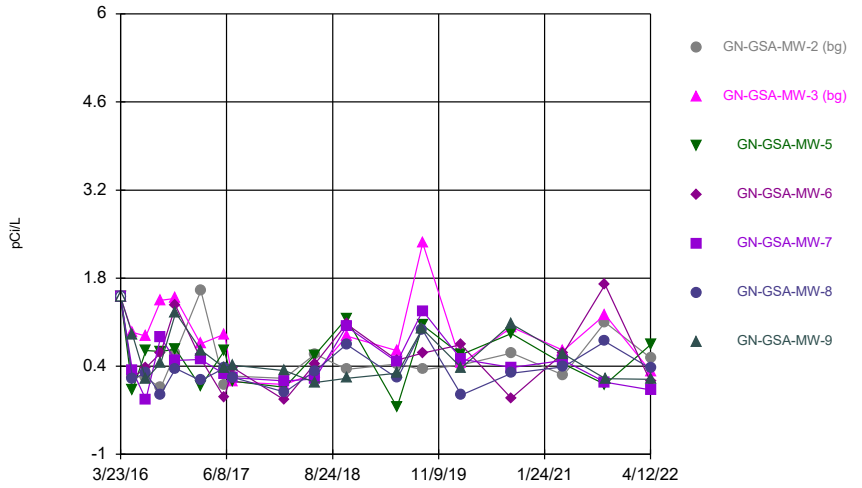
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/31/2022 10:24 AM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

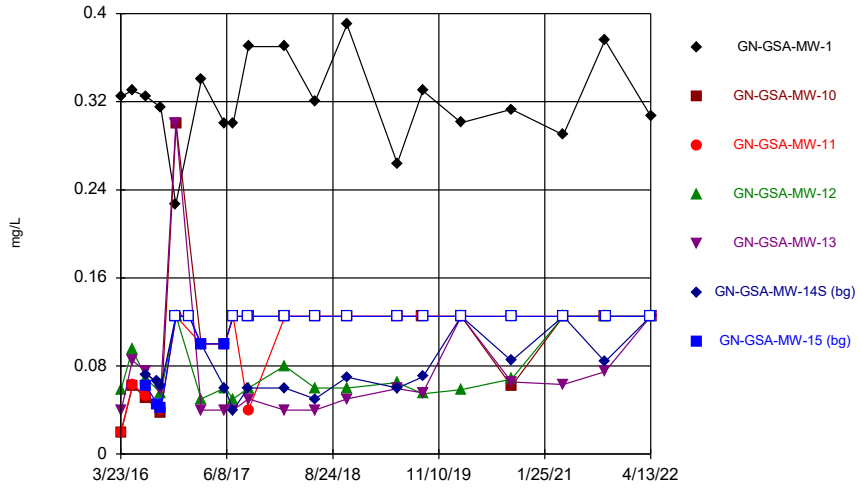
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/31/2022 10:24 AM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

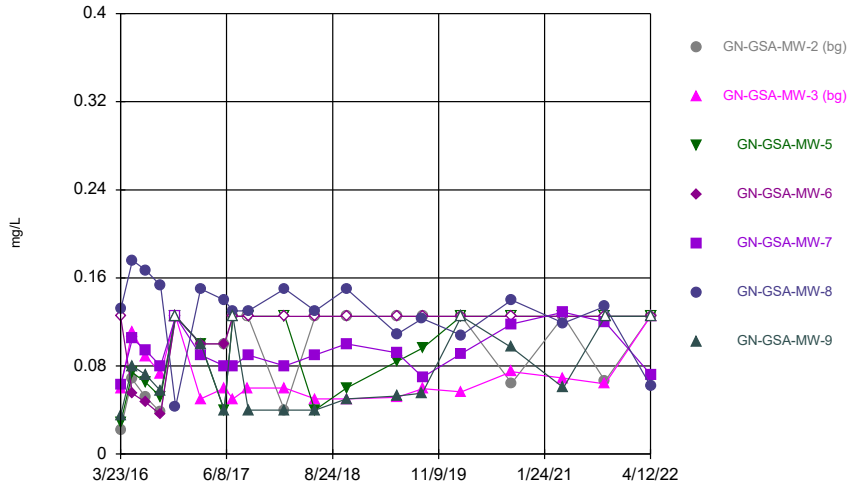
Time Series



Constituent: Fluoride Analysis Run 5/31/2022 10:24 AM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

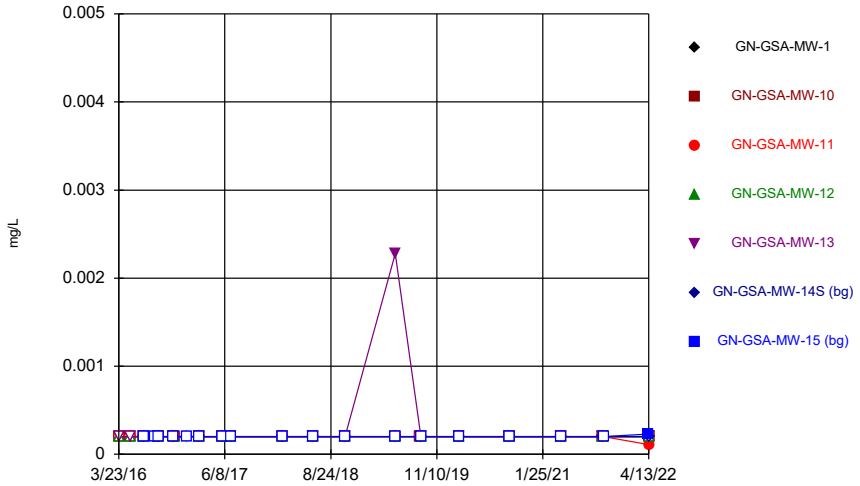
Time Series



Constituent: Fluoride Analysis Run 5/31/2022 10:24 AM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

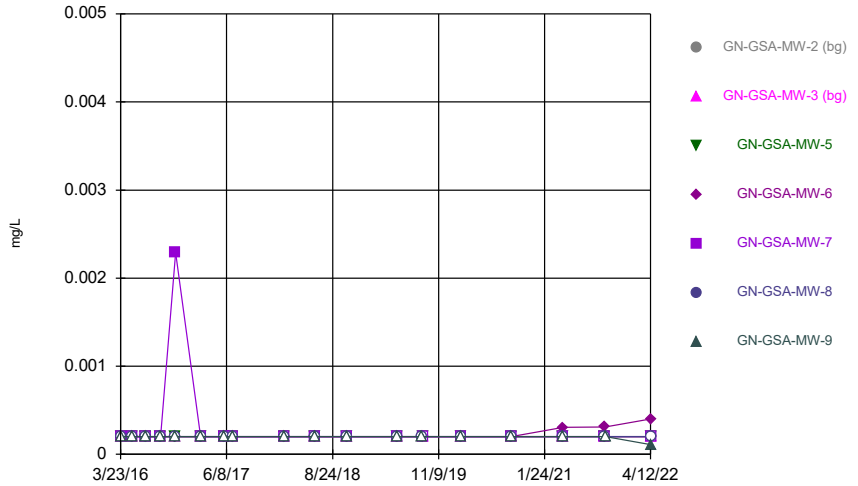
Time Series



Constituent: Lead Analysis Run 5/31/2022 10:24 AM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

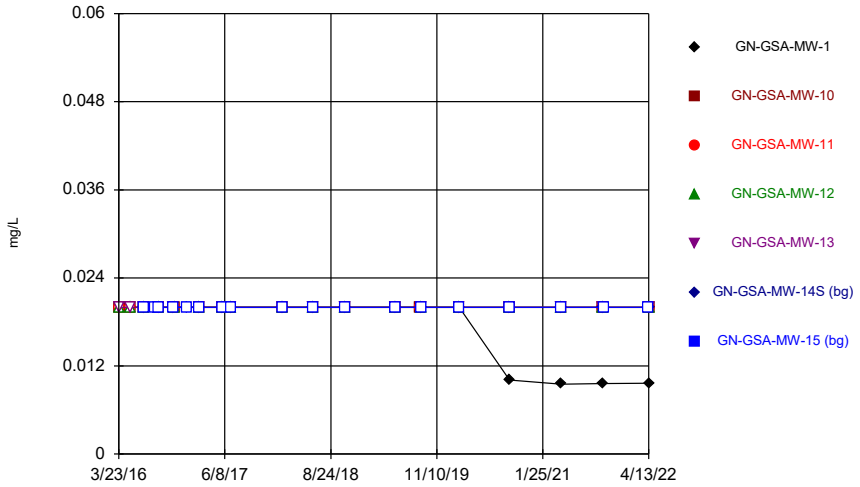
Time Series



Constituent: Lead Analysis Run 5/31/2022 10:24 AM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

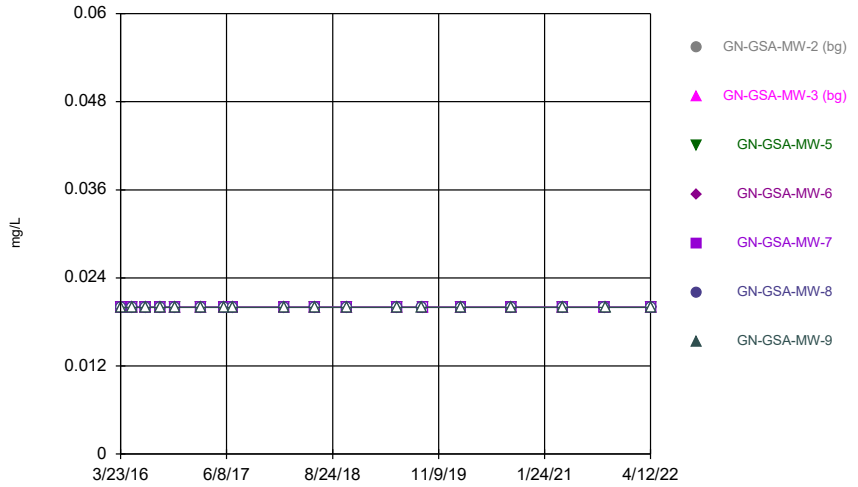
Time Series



Constituent: Lithium Analysis Run 5/31/2022 10:24 AM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

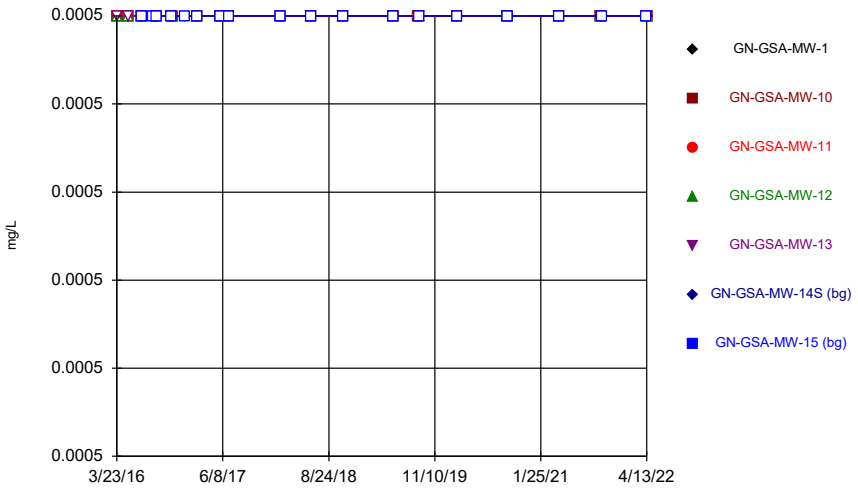
Time Series



Constituent: Lithium Analysis Run 5/31/2022 10:24 AM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

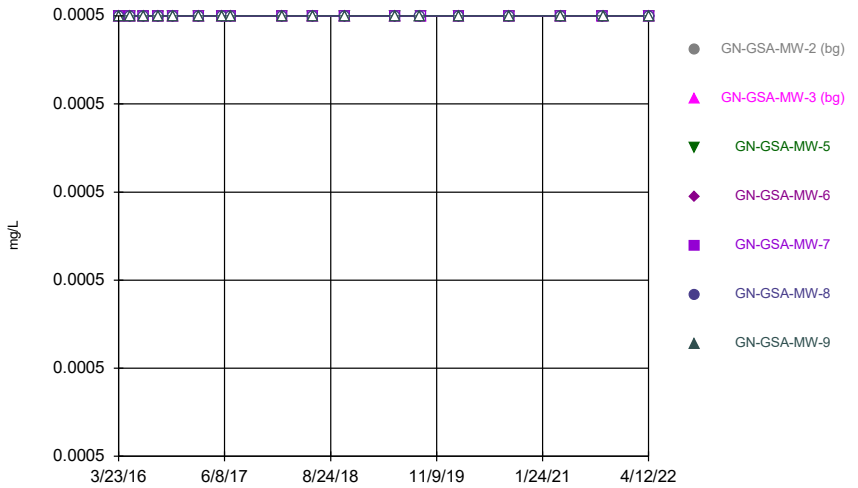
Time Series



Constituent: Mercury Analysis Run 5/31/2022 10:24 AM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

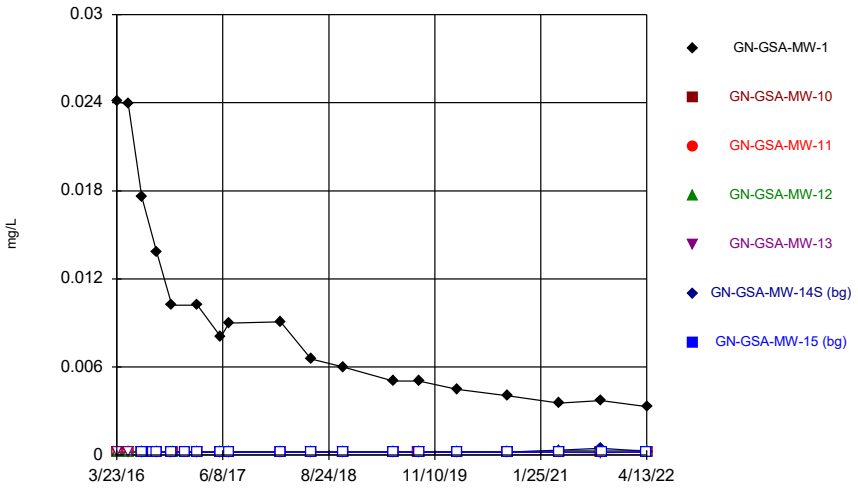
Time Series



Constituent: Mercury Analysis Run 5/31/2022 10:24 AM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

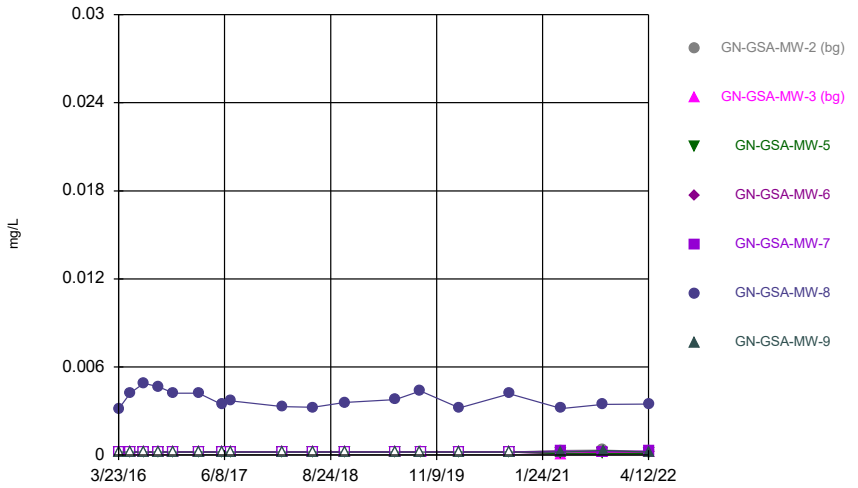
Time Series



Constituent: Molybdenum Analysis Run 5/31/2022 10:24 AM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

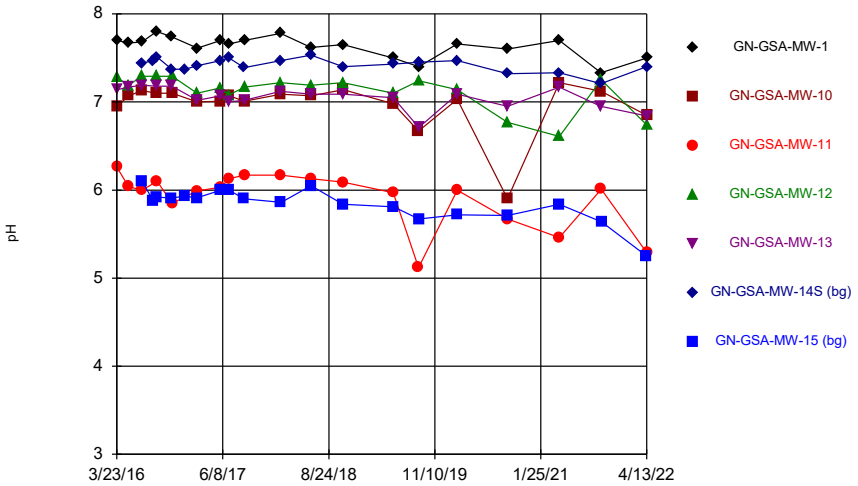
Time Series



Constituent: Molybdenum Analysis Run 5/31/2022 10:24 AM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Time Series

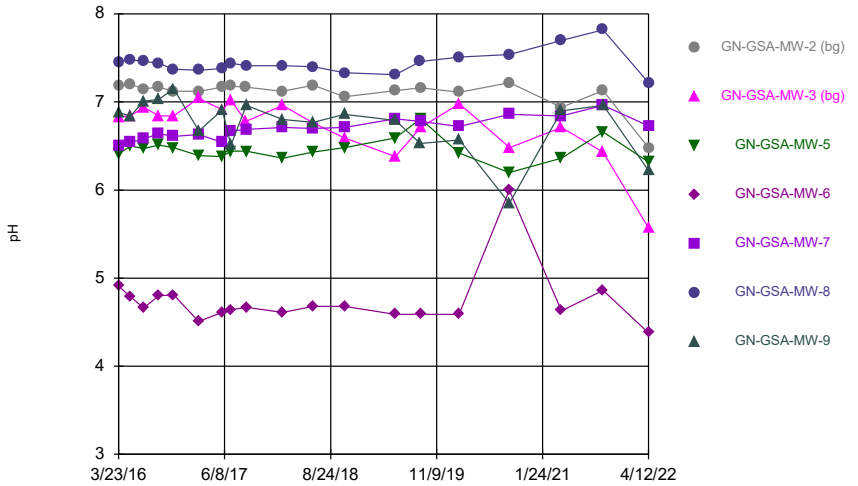


Constituent: pH Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Time Series



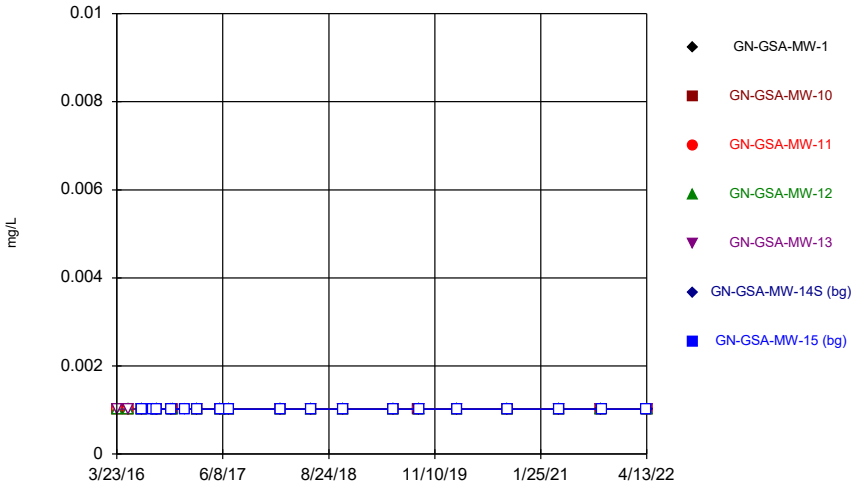
Constituent: pH Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



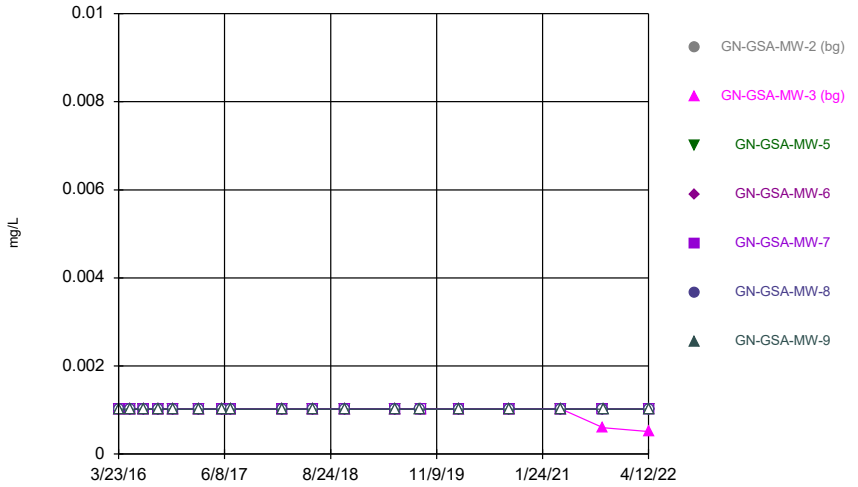
Constituent: Selenium Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

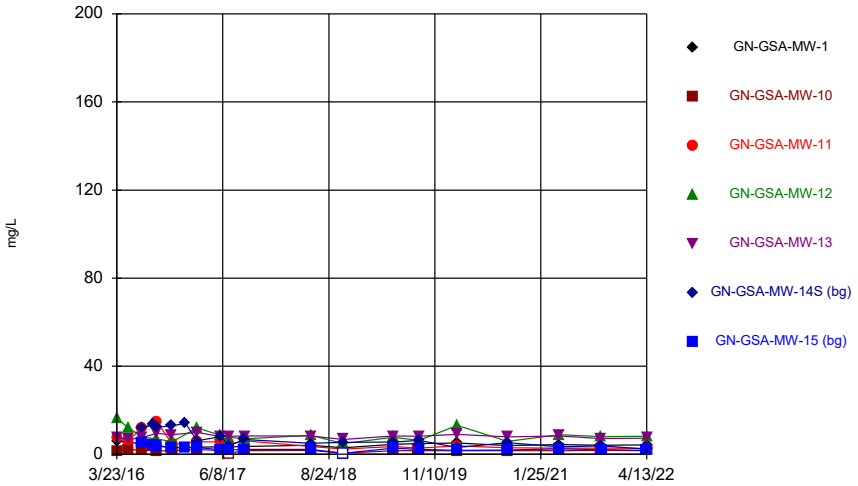


Constituent: Selenium Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

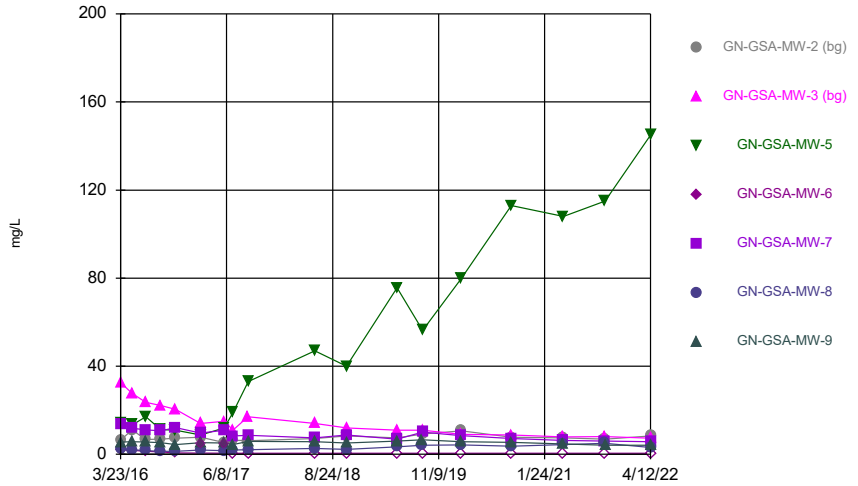
Time Series



Constituent: Sulfate Analysis Run 5/31/2022 10:24 AM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

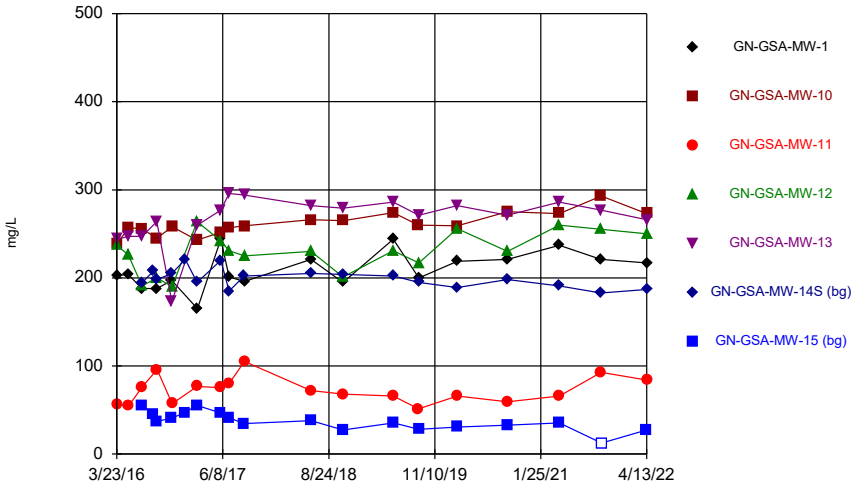
Time Series



Constituent: Sulfate Analysis Run 5/31/2022 10:24 AM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

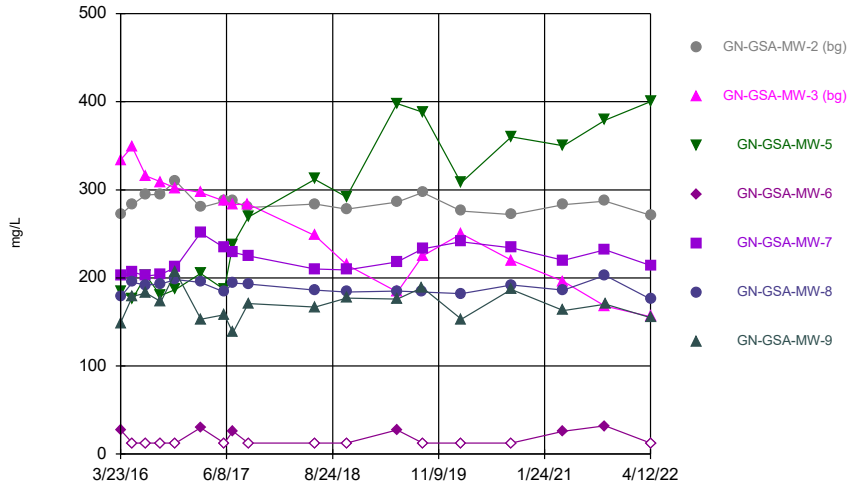
Time Series



Constituent: TDS Analysis Run 5/31/2022 10:24 AM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

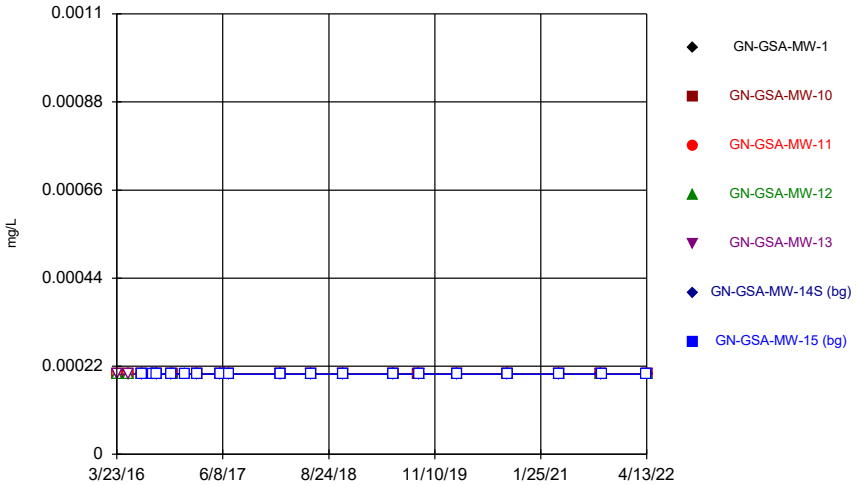
Time Series



Constituent: TDS Analysis Run 5/31/2022 10:24 AM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

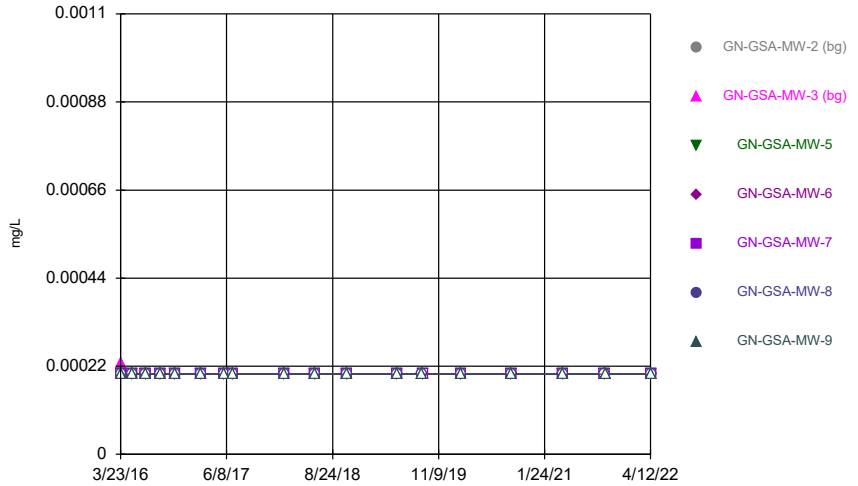
Time Series



Constituent: Thallium Analysis Run 5/31/2022 10:24 AM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 5/31/2022 10:24 AM
Plant Gaston Client: Southern Company Data: Gaston GSA

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S	GN-GSA-MW-15 ...
3/23/2016			<0.00102	<0.00102			
3/24/2016	0.00116 (J)	<0.00102			<0.00102		
5/10/2016	0.000629 (J)			<0.00102	<0.00102		
5/11/2016		<0.00102	<0.00102				
7/5/2016	0.000718 (J)					<0.00102	
7/6/2016		<0.00102	<0.00102	<0.00102	<0.00102		<0.00102
8/23/2016						<0.00102	<0.00102
9/6/2016	0.000833 (J)	<0.00102		<0.00102	<0.00102		
9/7/2016			<0.00102			<0.00102	<0.00102
11/8/2016	<0.00102				<0.00102	<0.00102	<0.00102
11/9/2016		<0.00102	<0.00102	<0.00102			
1/3/2017						<0.00102	<0.00102
2/20/2017							<0.00102
2/21/2017		<0.00102	<0.00102	<0.00102		<0.00102	
2/22/2017	<0.00102				<0.00102		
5/31/2017	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
7/5/2017	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
2/5/2018	<0.00102			<0.00102	<0.00102		
2/6/2018		<0.00102	<0.00102			<0.00102	
2/7/2018							<0.00102
6/12/2018	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
10/23/2018	<0.00102			<0.00102	<0.00102	<0.00102	<0.00102
10/24/2018		<0.00102	<0.00102				
5/21/2019	0.000909 (J)	0.000916 (J)	<0.00102	0.000813 (J)	0.00127 (J)		
5/22/2019						<0.00102	<0.00102
9/3/2019		<0.00102	<0.00102				
9/4/2019	<0.00102			<0.00102	<0.00102	<0.00102	<0.00102
2/12/2020	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
9/8/2020		<0.00102					
9/9/2020	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
4/13/2021	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
10/4/2021	<0.00102				<0.00102	<0.00102	
10/5/2021		<0.00102	<0.00102	<0.00102			
10/6/2021							<0.00102
4/12/2022							<0.00102
4/13/2022	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		<0.00102
3/24/2016						<0.00102	
5/10/2016	0.000616 (J)	<0.00102					
5/11/2016			<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
7/5/2016	<0.00102						
7/6/2016		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
9/6/2016	0.00073 (J)		<0.00102	<0.00102	<0.00102	<0.00102	
9/7/2016		<0.00102					<0.00102
11/8/2016	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
2/20/2017		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	
2/21/2017	<0.00102						<0.00102
5/30/2017			<0.00102	<0.00102		<0.00102	<0.00102
5/31/2017	<0.00102	<0.00102			<0.00102		
7/5/2017	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
2/5/2018	<0.00102						
2/6/2018		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
6/11/2018			<0.00102	<0.00102	<0.00102		
6/12/2018	<0.00102	<0.00102				<0.00102	<0.00102
10/22/2018	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
10/23/2018		<0.00102					
5/20/2019	0.00117 (J)		0.00241 (J)	0.00171 (J)	0.00123 (J)		
5/21/2019						0.00106 (J)	0.00112 (J)
5/22/2019		<0.00102					
9/3/2019						<0.00102	<0.00102
9/4/2019	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		
2/11/2020			<0.00102	<0.00102	<0.00102		
2/12/2020	<0.00102	<0.00102				<0.00102	<0.00102
9/8/2020			<0.00102	<0.00102			<0.00102
9/9/2020	<0.00102	<0.00102			<0.00102	<0.00102	
4/13/2021	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
10/4/2021	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	
10/5/2021							<0.00102
4/12/2022	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S...	GN-GSA-MW-15 ...
3/23/2016			<0.0002	0.0013 (J)			
3/24/2016	0.0444 (o)	<0.0002			0.00157 (J)		
5/10/2016	0.041 (o)			0.00107 (J)	0.00182 (J)		
5/11/2016		<0.0002	<0.0002				
7/5/2016	0.0333 (o)					<0.0002	
7/6/2016		<0.0002	<0.0002	0.00113 (J)	0.00152 (J)		<0.0002
8/23/2016						<0.0002	<0.0002
9/6/2016	0.0289	<0.0002		0.00169 (J)	0.00197 (J)		
9/7/2016			<0.0002			<0.0002	<0.0002
11/8/2016	0.0241				<0.0002	<0.0002	<0.0002
11/9/2016		<0.0002	<0.0002	0.00168 (J)			
1/3/2017						<0.0002	<0.0002
2/20/2017							<0.0002
2/21/2017		<0.0002	<0.0002	<0.0002		<0.0002	
2/22/2017	0.0192				0.0011 (J)		
5/31/2017	0.0154	<0.0002	<0.0002	0.00102 (J)	<0.0002	<0.0002	<0.0002
7/5/2017	0.0155	<0.0002	<0.0002	0.00117 (J)	<0.0002	<0.0002	<0.0002
2/5/2018	0.014			0.00127 (J)	<0.0002		
2/6/2018		<0.0002	<0.0002			<0.0002	
2/7/2018							<0.0002
6/12/2018	0.011	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
10/23/2018	0.00829			<0.0002	<0.0002	<0.0002	<0.0002
10/24/2018		<0.0002	<0.0002				
5/21/2019	0.00722	<0.0002	<0.0002	<0.0002	0.00348 (J)		
5/22/2019						<0.0002	<0.0002
9/3/2019		<0.0002	<0.0002				
9/4/2019	0.00534			<0.0002	<0.0002	<0.0002	<0.0002
2/12/2020	0.0062	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/8/2020		<0.0002					
9/9/2020	0.0046 (J)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
4/13/2021	0.00427	8.71E-05 (J)	9.35E-05 (J)	0.00033	0.000189 (J)	0.000187 (J)	0.000134 (J)
10/4/2021	0.00335				0.00012 (J)	0.00016 (J)	
10/5/2021		7E-05 (J)	0.00011 (J)	0.00023			
10/6/2021							0.00032
4/12/2022							0.00028
4/13/2022	0.00248	<0.0002	9E-05 (J)	0.00021	0.00014 (J)	0.00014 (J)	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
3/24/2016						0.00112 (J)	
5/10/2016	<0.0002	<0.0002					
5/11/2016			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
7/5/2016	<0.0002						
7/6/2016		<0.0002	<0.0002	<0.0002	<0.0002	0.00124 (J)	<0.0002
9/6/2016	<0.0002		<0.0002	<0.0002	<0.0002	0.00137 (J)	
9/7/2016		<0.0002					0.00101 (J)
11/8/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00162 (J)	0.00121 (J)
2/20/2017		<0.0002	<0.0002	<0.0002	<0.0002	0.00127 (J)	
2/21/2017	<0.0002						<0.0002
5/30/2017			<0.0002	<0.0002		0.00129 (J)	<0.0002
5/31/2017	<0.0002	<0.0002			<0.0002		
7/5/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00116 (J)	<0.0002
2/5/2018	<0.0002						
2/6/2018		<0.0002	<0.0002	<0.0002	<0.0002	0.00131 (J)	<0.0002
6/11/2018			0.00119 (J)	<0.0002	<0.0002		
6/12/2018	<0.0002	<0.0002				0.00115 (J)	<0.0002
10/22/2018	<0.0002		0.00188 (J)	<0.0002	<0.0002	0.0015 (J)	<0.0002
10/23/2018		<0.0002					
5/20/2019	<0.0002		0.00259 (J)	<0.0002	<0.0002		
5/21/2019						0.00128 (J)	<0.0002
5/22/2019		<0.0002					
9/3/2019						0.00118 (J)	<0.0002
9/4/2019	<0.0002	<0.0002	0.00305 (J)	<0.0002	<0.0002		
2/11/2020			<0.0002	<0.0002	0.001 (J)		
2/12/2020	<0.0002	<0.0002				0.00133 (J)	<0.0002
9/8/2020			<0.0002	<0.0002			<0.0002
9/9/2020	<0.0002	<0.0002			<0.0002	0.00126 (J)	
4/13/2021	0.000123 (J)	0.00011 (J)	0.000587	9.88E-05 (J)	0.000469	0.00134	0.000237
10/4/2021	0.00017 (J)	<0.0002	0.00057	8E-05 (J)	0.00029	0.00135	
10/5/2021							0.00014 (J)
4/12/2022	0.0001 (J)	<0.0002	0.0009	0.00011 (J)	0.00043	0.00124	0.00018 (J)

Time Series

Constituent: Barium (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S...	GN-GSA-MW-15 ...
3/23/2016			0.00756 (J)	0.0224			
3/24/2016	1.43	0.0339			0.0432		
5/10/2016	1.83			0.0232	0.0609		
5/11/2016		0.0375	0.00769 (J)				
7/5/2016	1.71					0.0375	
7/6/2016		0.0374	0.00975 (J)	0.0199	0.0542		0.014
8/23/2016						0.0353	0.00858 (J)
9/6/2016	1.65	0.0331		0.0195	0.0544		
9/7/2016			0.0101			0.0365	0.00994 (J)
11/8/2016	1.6				0.0491	0.0393	0.0108
11/9/2016		0.0367	0.00934 (J)	0.017			
1/3/2017						0.0373	0.00989 (J)
2/20/2017							0.00932 (J)
2/21/2017		0.0335	0.00713 (J)	0.0214		0.0262	
2/22/2017	1.53				0.0537		
5/31/2017	1.66	0.0314	0.00552 (J)	0.0223	0.0452	0.0305	0.00876 (J)
7/5/2017	1.66	0.0321	0.00664 (J)	0.022	0.0461	0.0245	0.00935 (J)
2/5/2018	1.8			0.0254	0.0469		
2/6/2018		0.0337	0.00614 (J)			0.034	
2/7/2018							0.00897 (J)
6/12/2018	2.32	0.0342	0.00637 (J)	0.023	0.0469	0.0291	0.0112
10/23/2018	2.22			0.0176	0.0457	0.032	0.00948 (J)
10/24/2018		0.0393	0.00522 (J)				
5/21/2019	2.51	0.0323	0.0056 (J)	0.0214	0.0697		
5/22/2019						0.0257	0.00958 (J)
9/3/2019		0.0377	0.00656 (J)				
9/4/2019	1.96			0.0205	0.0455	0.0303	0.00964 (J)
2/12/2020	2.15	0.0344	0.00444 (J)	0.024	0.0419	0.0239	0.0088 (J)
9/8/2020		0.0331					
9/9/2020	2.5		0.00545 (J)	0.0182	0.039	0.0262	0.00706 (J)
4/13/2021	2.41	0.0373	0.00636	0.0234	0.0403	0.0217	0.00801
10/4/2021	1.92				0.0369	0.024	
10/5/2021		0.0359	0.00871	0.0212			
10/6/2021							0.00769
4/12/2022							0.00927
4/13/2022	2.68	0.0403	0.0162	0.0272	0.0415	0.0217	

Time Series

Constituent: Barium (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	0.0389	0.0597	0.0333	0.0149	0.02		0.0252
3/24/2016						0.0249	
5/10/2016	0.0552	0.0622					
5/11/2016			0.0378	0.0168	0.0221	0.0291	0.0327
7/5/2016	0.0329						
7/6/2016		0.0512	0.0456	0.0166	0.0227	0.0317	0.0342
9/6/2016	0.0297		0.0378	0.0144	0.0204	0.0312	
9/7/2016		0.0453					0.0292
11/8/2016	0.0313	0.0423	0.039	0.015	0.0208	0.0349	0.0281
2/20/2017		0.0306	0.0337	0.0126	0.0193	0.0264	
2/21/2017	0.0396						0.0235
5/30/2017			0.0374	0.0146		0.027	0.0214
5/31/2017	0.0301	0.0347			0.0201		
7/5/2017	0.0274	0.0287	0.0361	0.0143	0.0181	0.0245	0.0213
2/5/2018	0.0325						
2/6/2018		0.0341	0.0418	0.0156	0.0183	0.0248	0.0232
6/11/2018			0.056	0.0155	0.0196		
6/12/2018	0.0286	0.0323				0.0299	0.0259
10/22/2018	0.0324		0.0711	0.0185	0.0228	0.0314	0.0265
10/23/2018		0.035					
5/20/2019	0.0256		0.0671	0.0156	0.0163		
5/21/2019						0.0264	0.0249
5/22/2019		0.0271					
9/3/2019						0.0314	0.0271
9/4/2019	0.0325	0.0358	0.0824	0.0176	0.0256		
2/11/2020			0.0513	0.0175	0.0194		
2/12/2020	0.0372	0.0257				0.0257	0.0214
9/8/2020			0.0464	0.0159			0.0234
9/9/2020	0.03	0.0273			0.0161	0.026	
4/13/2021	0.0371	0.0259	0.0478	0.0175	0.016	0.0262	0.0226
10/4/2021	0.0353	0.0232	0.0494	0.0161	0.0181	0.0265	
10/5/2021							0.0234
4/12/2022	0.034	0.0309	0.0666	0.0214	0.0192	0.0294	0.0252

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S	GN-GSA-MW-15 ...
3/23/2016			<0.00102	<0.00102			
3/24/2016	<0.00102	<0.00102			<0.00102		
5/10/2016	<0.00102			<0.00102	<0.00102		
5/11/2016		<0.00102	<0.00102				
7/5/2016	<0.00102					<0.00102	
7/6/2016		<0.00102	<0.00102	<0.00102	<0.00102		<0.00102
8/23/2016						<0.00102	<0.00102
9/6/2016	<0.00102	<0.00102		<0.00102	<0.00102		
9/7/2016			<0.00102			<0.00102	<0.00102
11/8/2016	<0.00102				<0.00102	<0.00102	<0.00102
11/9/2016		<0.00102	<0.00102	<0.00102			
1/3/2017						<0.00102	<0.00102
2/20/2017							<0.00102
2/21/2017		<0.00102	<0.00102	<0.00102		<0.00102	
2/22/2017	<0.00102				<0.00102		
5/31/2017	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
7/5/2017	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
2/5/2018	<0.00102			<0.00102	<0.00102		
2/6/2018		<0.00102	<0.00102			<0.00102	
2/7/2018							<0.00102
6/12/2018	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
10/23/2018	<0.00102			<0.00102	<0.00102	<0.00102	<0.00102
10/24/2018		<0.00102	<0.00102				
5/21/2019	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		
5/22/2019						<0.00102	<0.00102
9/3/2019		<0.00102	<0.00102				
9/4/2019	<0.00102			<0.00102	<0.00102	<0.00102	<0.00102
2/12/2020	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
9/8/2020		<0.00102					
9/9/2020	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
4/13/2021	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
10/4/2021	<0.00102				<0.00102	<0.00102	
10/5/2021		<0.00102	<0.00102	<0.00102			
10/6/2021							<0.00102
4/12/2022							<0.00102
4/13/2022	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		<0.00102
3/24/2016						<0.00102	
5/10/2016	<0.00102	<0.00102					
5/11/2016			<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
7/5/2016	<0.00102						
7/6/2016		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
9/6/2016	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102	
9/7/2016		<0.00102					<0.00102
11/8/2016	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
2/20/2017		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	
2/21/2017	<0.00102						<0.00102
5/30/2017			<0.00102	<0.00102		<0.00102	<0.00102
5/31/2017	<0.00102	<0.00102			<0.00102		
7/5/2017	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
2/5/2018	<0.00102						
2/6/2018		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
6/11/2018			<0.00102	<0.00102	<0.00102		
6/12/2018	<0.00102	<0.00102				<0.00102	<0.00102
10/22/2018	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
10/23/2018		<0.00102					
5/20/2019	<0.00102		<0.00102	<0.00102	<0.00102		
5/21/2019						<0.00102	<0.00102
5/22/2019		<0.00102					
9/3/2019						<0.00102	<0.00102
9/4/2019	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		
2/11/2020			<0.00102	<0.00102	<0.00102		
2/12/2020	<0.00102	<0.00102				<0.00102	<0.00102
9/8/2020			<0.00102	<0.00102			<0.00102
9/9/2020	<0.00102	<0.00102			<0.00102	<0.00102	
4/13/2021	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
10/4/2021	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	
10/5/2021							<0.00102
4/12/2022	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102

Time Series

Constituent: Boron (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S	GN-GSA-MW-15 ...
3/23/2016			0.0309 (J)	0.0387 (J)			
3/24/2016	0.0311 (J)	<0.1015			<0.1015		
5/10/2016	0.0334 (J)			0.0384 (J)	<0.1015		
5/11/2016		<0.1015	0.0306 (J)				
7/5/2016	0.0359 (J)					<0.1015	
7/6/2016		<0.1015	0.0307 (J)	0.029 (J)	<0.1015		<0.1015
8/23/2016						<0.1015	<0.1015
9/6/2016	0.0316 (J)	<0.1015		0.0278 (J)	<0.1015		
9/7/2016			0.0319 (J)			<0.1015	<0.1015
11/8/2016	0.0361 (J)				<0.1015	<0.1015	<0.1015
11/9/2016		<0.1015	0.0362 (J)	0.0331 (J)			
1/3/2017						0.0211 (J)	<0.1015
2/20/2017							<0.1015
2/21/2017		<0.1015	0.0295 (J)	0.0323 (J)		<0.1015	
2/22/2017	0.028 (J)				<0.1015		
5/31/2017	0.0297 (J)	<0.1015	0.0312 (J)	0.0316 (J)	<0.1015	<0.1015	<0.1015
7/5/2017	0.0302 (J)	<0.1015	0.0315 (J)	0.0318 (J)	<0.1015	<0.1015	<0.1015
9/5/2017						<0.1015	<0.1015
9/7/2017	0.0345 (J)	<0.1015	0.0408 (J)	0.0338 (J)	<0.1015		
6/12/2018	0.0331 (J)	<0.1015	0.034 (J)	0.0305 (J)	<0.1015	<0.1015	<0.1015
10/23/2018	0.0345 (J)			0.0347 (J)	<0.1015	<0.1015	<0.1015
10/24/2018		<0.1015	0.0416 (J)				
5/21/2019	0.0376 (J)	<0.1015	0.0413 (J)	<0.1015	<0.1015		
5/22/2019						<0.1015	<0.1015
9/3/2019		<0.1015	0.0452 (J)				
9/4/2019	0.0363 (J)			<0.1015	<0.1015	<0.1015	<0.1015
2/12/2020	0.0349 (J)	<0.1015	0.043 (J)	<0.1015	<0.1015	<0.1015	<0.1015
9/8/2020		<0.1015					
9/9/2020	0.0366 (J)		0.044 (J)	<0.1015	<0.1015	<0.1015	<0.1015
4/13/2021	0.0306 (J)	<0.1015	0.0422 (J)	<0.1015	<0.1015	<0.1015	<0.1015
10/4/2021	0.0343 (J)				<0.1015	<0.1015	
10/5/2021		<0.1015	0.0472 (J)	<0.1015			
10/6/2021							<0.1015
4/12/2022							<0.1015
4/13/2022	0.0353 (J)	<0.1015	0.0565 (J)	<0.1015	<0.1015	<0.1015	

Time Series

Constituent: Boron (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015		<0.1015
3/24/2016						<0.1015	
5/10/2016	<0.1015	<0.1015					
5/11/2016			<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
7/5/2016	<0.1015						
7/6/2016		<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
9/6/2016	<0.1015		<0.1015	<0.1015	<0.1015	<0.1015	
9/7/2016		<0.1015					<0.1015
11/8/2016	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
2/20/2017		<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	
2/21/2017	<0.1015						<0.1015
5/30/2017			<0.1015	<0.1015		<0.1015	<0.1015
5/31/2017	<0.1015	<0.1015			<0.1015		
7/5/2017	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
9/5/2017	<0.1015	<0.1015					
9/7/2017			0.022 (J)	<0.1015	<0.1015	<0.1015	<0.1015
6/11/2018			0.0386 (J)	<0.1015	<0.1015		
6/12/2018	<0.1015	<0.1015				<0.1015	<0.1015
10/22/2018	<0.1015		0.0456 (J)	<0.1015	<0.1015	<0.1015	<0.1015
10/23/2018		<0.1015					
5/20/2019	<0.1015		0.0769 (J)	<0.1015	<0.1015		
5/21/2019						<0.1015	<0.1015
5/22/2019		<0.1015					
9/3/2019						<0.1015	<0.1015
9/4/2019	<0.1015	<0.1015	0.0641 (J)	<0.1015	<0.1015		
2/11/2020			0.0406 (J)	<0.1015	<0.1015		
2/12/2020	<0.1015	<0.1015				<0.1015	<0.1015
9/8/2020			0.0425 (J)	<0.1015			<0.1015
9/9/2020	<0.1015	<0.1015			<0.1015	<0.1015	
4/13/2021	<0.1015	<0.1015	0.0333 (J)	<0.1015	<0.1015	<0.1015	<0.1015
10/4/2021	<0.1015	<0.1015	0.0392 (J)	<0.1015	<0.1015	<0.1015	
10/5/2021							<0.1015
4/12/2022	<0.1015	<0.1015	0.0481 (J)	<0.1015	<0.1015	<0.1015	<0.1015

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S	GN-GSA-MW-15 ...
3/23/2016			<0.0002	<0.0002			
3/24/2016	<0.0002	<0.0002			<0.0002		
5/10/2016	<0.0002			<0.0002	<0.0002		
5/11/2016		<0.0002	<0.0002				
7/5/2016	<0.0002					<0.0002	
7/6/2016		<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
8/23/2016						<0.0002	<0.0002
9/6/2016	<0.0002	<0.0002		<0.0002	<0.0002		
9/7/2016			<0.0002			<0.0002	<0.0002
11/8/2016	<0.0002				<0.0002	<0.0002	<0.0002
11/9/2016		<0.0002	<0.0002	<0.0002			
1/3/2017						<0.0002	<0.0002
2/20/2017							<0.0002
2/21/2017		<0.0002	<0.0002	<0.0002		<0.0002	
2/22/2017	<0.0002				<0.0002		
5/31/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
7/5/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/5/2018	<0.0002			<0.0002	<0.0002		
2/6/2018		<0.0002	<0.0002			<0.0002	
2/7/2018							<0.0002
6/12/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
10/23/2018	<0.0002			<0.0002	<0.0002	<0.0002	<0.0002
10/24/2018		<0.0002	<0.0002				
5/21/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
5/22/2019						<0.0002	<0.0002
9/3/2019		<0.0002	<0.0002				
9/4/2019	<0.0002			<0.0002	<0.0002	<0.0002	<0.0002
2/12/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/8/2020		<0.0002					
9/9/2020	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
4/13/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
10/4/2021	<0.0002				<0.0002	<0.0002	
10/5/2021		8E-05 (J)	<0.0002	<0.0002			
10/6/2021							<0.0002
4/12/2022							<0.0002
4/13/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
3/24/2016						<0.0002	
5/10/2016	<0.0002	<0.0002					
5/11/2016			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
7/5/2016	<0.0002						
7/6/2016		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/6/2016	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	
9/7/2016		<0.0002					<0.0002
11/8/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/20/2017		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/21/2017	<0.0002						<0.0002
5/30/2017			<0.0002	<0.0002		<0.0002	<0.0002
5/31/2017	<0.0002	<0.0002			<0.0002		
7/5/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/5/2018	<0.0002						
2/6/2018		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
6/11/2018			<0.0002	<0.0002	<0.0002		
6/12/2018	<0.0002	<0.0002				<0.0002	<0.0002
10/22/2018	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
10/23/2018		<0.0002					
5/20/2019	<0.0002		<0.0002	<0.0002	<0.0002		
5/21/2019						<0.0002	<0.0002
5/22/2019		<0.0002					
9/3/2019						<0.0002	<0.0002
9/4/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
2/11/2020			<0.0002	<0.0002	<0.0002		
2/12/2020	<0.0002	<0.0002				<0.0002	<0.0002
9/8/2020			<0.0002	<0.0002			<0.0002
9/9/2020	<0.0002	<0.0002			<0.0002	<0.0002	
4/13/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
10/4/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
10/5/2021							<0.0002
4/12/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S	GN-GSA-MW-15 ...
3/23/2016			14.8	70.2			
3/24/2016	36.9	90.3			79.9		
5/10/2016	37.9			65.6	77.6		
5/11/2016		91.1	11.5				
7/5/2016	35.3					50.8	
7/6/2016		90.7	10.4	58.2	72		10.7
8/23/2016						51.7	7.34
9/6/2016	34.8	94.5		62.3	81.6		
9/7/2016			9.73			48.4	7.86
11/8/2016	34.3				83.8	50.7	8.94
11/9/2016		92.9	8.07	62.7			
1/3/2017						55.4	9.21
2/20/2017							8.53
2/21/2017		93.1	13.2	69.9		48	
2/22/2017	35.9				86.4		
5/31/2017	34.3	86.6	8.56	66.5	84.1	45.4	7.02
7/5/2017	35.5	91.5	11.9	66.9	89.5	45.7	8.08
9/5/2017						48.5	7.44
9/7/2017	36.7	99	9.2	72.9	93.2		
6/12/2018	42.2	101	11.5	69.9	101	45.2	7.37
10/23/2018	38.9			64.3	97.6	44.4	5.94
10/24/2018		104	7.73				
5/21/2019	47.8	101	11.7	77.9	106		
5/22/2019						47.1	6.34
9/3/2019		102	8.9				
9/4/2019	41.4			74.2	93.7	47.4	6.07
2/12/2020	44.1	99.2	13.1	77.8	93.1	57.3	5.62
9/8/2020		99.9					
9/9/2020	44.5		9.3	77	88.7	46.7	4.73
4/13/2021	44	97.1	12.3	81.6	89.8	48.4	5.17
10/4/2021	45.4				92.2	48	
10/5/2021		108	13.8	87.9			
10/6/2021							4.62
4/12/2022							4.59
4/13/2022	47.5	107	15	88	91.8	58.9	

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	75.3	106	48.1	1.32	59.1		45.9
3/24/2016						57.4	
5/10/2016	75.7	109					
5/11/2016			46	1.13	58.9	57	49.4
7/5/2016	78.8						
7/6/2016		98.7	52.1	1.18	60.8	56.7	56
9/6/2016	84.3		49.7	1.09	62.2	57.3	
9/7/2016		98.6					53.8
11/8/2016	87.2	99.7	54.3	1.32	63.9	59.4	64.3
2/20/2017		93.4	51.3	0.829	69.6	57.7	
2/21/2017	80						45.6
5/30/2017			50	0.743		52.5	45.8
5/31/2017	75.2	84.1			63		
7/5/2017	77.2	92.6	56.9	0.68	64.6	52.7	36.4
9/5/2017	77.5	86.1					
9/7/2017			66.5	0.825	70.5	58.4	53.5
6/11/2018			62.4	0.722	63.5		
6/12/2018	78.9	76.5				53.7	47.6
10/22/2018	96.9		60.6	0.79	70.3	55.4	52.4
10/23/2018		68.8					
5/20/2019	87.3		58.8	0.652	72.5		
5/21/2019						55.7	51.6
5/22/2019		53.1					
9/3/2019						57.4	60.3
9/4/2019	89.8	76.4	57.9	0.872	72		
2/11/2020			76.6	0.562	71.2		
2/12/2020	81.4	89.6				55.7	45.3
9/8/2020			83.9	0.652			57.5
9/9/2020	80.9	63.1			66.7	55.3	
4/13/2021	77.5	57.8	79.2	0.505	64.1	52.2	43.5
10/4/2021	85	43.7	81.6	0.53	70.4	55.1	
10/5/2021							54.6
4/12/2022	87.1	55.1	94.1	0.516	71.2	54.4	50.4

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S	GN-GSA-MW-15 ...
3/23/2016			2.64	4.43			
3/24/2016	3.35	2.78			3.16		
5/10/2016	3.06			3.38	3.02		
5/11/2016		2.62	3.02				
7/5/2016	2.9					3.86	
7/6/2016		2.53	4.01	2.62	3.1		3.78
8/23/2016						4.69	3.47
9/6/2016	2.54	2.51		2.65	3.31		
9/7/2016			4.51			4.6	3.4
11/8/2016	2.34				3.32	4.68	3.29
11/9/2016		2.67	3.74	2.55			
1/3/2017						5.25	3.11
2/20/2017							2.7
2/21/2017		3.4	4.1	4.7		4.3	
2/22/2017	2.9				4.8		
5/31/2017	2.7	3.6	5.3	4.1	4	4.2	2.3
7/5/2017	2.2	2.7	4.6	3.2	3.6	3.4	2
9/5/2017						4.5	<2 (U*)
9/7/2017	<2 (U*)	<2 (U*)	6.5	<2 (U*)	4.5		
6/12/2018	2.4	2.8	8.8	3.1	3.5	3.6	2
10/23/2018	2.1			2.1	3.5	3.4	1.5 (J)
10/24/2018		2.9	7.2				
5/21/2019	2.6	2.98	10.4	3.02	3.3		
5/22/2019						2.89	1.75
9/3/2019		2.84	7.1				
9/4/2019	2.39			2.73	3.33	2.88	1.95
2/12/2020	2.36	2.86	7.16	4.21	4.1	2.4	1.8
9/8/2020		2.8					
9/9/2020	2.49		6.27	2.8	3.4	2.49	1.95
4/13/2021	2.54	3.07	9.8	3.97	3.56	2.56	1.86
10/4/2021	2.58				3.37	2.5	
10/5/2021		3.04	13.8	3.69			
10/6/2021							2.07
4/12/2022							1.88
4/13/2022	2.17	2.77	19.6	3.76	3.01	2.42	

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	3.6	3.67	4.84	3.36	3.28		2.26
3/24/2016						1.73	
5/10/2016	4.18	3.34					
5/11/2016			4.19	3.04	3.08	1.68	2.26
7/5/2016	3.12						
7/6/2016		3.08	4.67	2.86	2.96	1.68	2.28
9/6/2016	3.21		4.23	2.92	2.97	1.7	
9/7/2016		2.95					2.32
11/8/2016	3.33	2.92	4.51	3.01	3.22	2.03	2.26
2/20/2017		3.3	5.8	3.7	4	2.3	
2/21/2017	4.6						2.9
5/30/2017			13	3.2		2.2	2.9
5/31/2017	3.8	2.9			4.3		
7/5/2017	3.4	2.6	17	2.8	3.4	1.6 (J)	2.7
9/5/2017	4.4	3.5					
9/7/2017			17	<2 (U*)	4	<2 (U*)	<2 (U*)
6/11/2018			14	2.7	3.6		
6/12/2018	3.4	3.1				1.9 (J)	2.6
10/22/2018	3.6		14	2.6	3.7	<2	2
10/23/2018		2.6					
5/20/2019	3.53		12.9	3.15	3.25		
5/21/2019						1.51	2.12
5/22/2019		2.83					
9/3/2019						1.64	2.26
9/4/2019	3.56	2.92	11.9	3.21	4.31		
2/11/2020			11.2	3.36	3.69		
2/12/2020	3.66	2.49				1.64	2.24
9/8/2020			11.7	3.29			2.06
9/9/2020	3.44	2.74			3.34	1.61	
4/13/2021	3.55	2.76	9.78	3.54	3.64	1.64	2.14
10/4/2021	3.59	2.88	9.45	3.61	3.48	1.76	
10/5/2021							2.16
4/12/2022	3.23	2.67	7.35	3.38	3.29	1.54	1.91

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S	GN-GSA-MW-15 ...
3/23/2016			<0.00102	<0.00102			
3/24/2016	<0.00102	<0.00102			<0.00102		
5/10/2016	<0.00102			<0.00102	<0.00102		
5/11/2016		<0.00102	<0.00102				
7/5/2016	<0.00102					<0.00102	
7/6/2016		<0.00102	<0.00102	<0.00102	<0.00102		<0.00102
8/23/2016						<0.00102	<0.00102
9/6/2016	<0.00102	<0.00102		<0.00102	<0.00102		
9/7/2016			<0.00102			<0.00102	<0.00102
11/8/2016	<0.00102				<0.00102	<0.00102	<0.00102
11/9/2016		<0.00102	<0.00102	<0.00102			
1/3/2017						<0.00102	<0.00102
2/20/2017							<0.00102
2/21/2017		<0.00102	<0.00102	<0.00102		<0.00102	
2/22/2017	<0.00102				<0.00102		
5/31/2017	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
7/5/2017	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
2/5/2018	<0.00102			<0.00102	<0.00102		
2/6/2018		<0.00102	<0.00102			<0.00102	
2/7/2018							<0.00102
6/12/2018	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
10/23/2018	<0.00102			<0.00102	<0.00102	<0.00102	<0.00102
10/24/2018		<0.00102	<0.00102				
5/21/2019	<0.00102	<0.00102	<0.00102	<0.00102	0.002 (J)		
5/22/2019						<0.00102	<0.00102
9/3/2019		<0.00102	<0.00102				
9/4/2019	<0.00102			<0.00102	<0.00102	<0.00102	<0.00102
2/12/2020	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
9/8/2020		<0.00102					
9/9/2020	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
4/13/2021	<0.00102	<0.00102	<0.00102	<0.00102	0.000518 (J)	0.000697 (J)	0.000375 (J)
10/4/2021	0.00021 (J)				0.00055 (J)	0.00065 (J)	
10/5/2021		0.00023 (J)	0.0003 (J)	0.00029 (J)			
10/6/2021							<0.00102
4/12/2022							0.00023 (J)
4/13/2022	<0.00102	<0.00102	<0.00102	0.00021 (J)	0.00052 (J)	0.0007 (J)	

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		<0.00102
3/24/2016						<0.00102	
5/10/2016	<0.00102	<0.00102					
5/11/2016			<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
7/5/2016	<0.00102						
7/6/2016		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
9/6/2016	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102	
9/7/2016		<0.00102					<0.00102
11/8/2016	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
2/20/2017		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	
2/21/2017	<0.00102						<0.00102
5/30/2017			<0.00102	<0.00102		<0.00102	<0.00102
5/31/2017	<0.00102	<0.00102			<0.00102		
7/5/2017	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
2/5/2018	<0.00102						
2/6/2018		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
6/11/2018			<0.00102	<0.00102	<0.00102		
6/12/2018	<0.00102	<0.00102				<0.00102	<0.00102
10/22/2018	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
10/23/2018		<0.00102					
5/20/2019	<0.00102		<0.00102	<0.00102	<0.00102		
5/21/2019						<0.00102	<0.00102
5/22/2019		<0.00102					
9/3/2019						<0.00102	<0.00102
9/4/2019	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		
2/11/2020			<0.00102	<0.00102	<0.00102		
2/12/2020	<0.00102	<0.00102				<0.00102	<0.00102
9/8/2020			<0.00102	<0.00102			<0.00102
9/9/2020	<0.00102	<0.00102			<0.00102	<0.00102	
4/13/2021	0.000517 (J)	0.000337 (J)	<0.00102	0.000257 (J)	0.000361 (J)	0.000291 (J)	0.000276 (J)
10/4/2021	0.00061 (J)	0.00046 (J)	0.00028 (J)	0.00025 (J)	0.00056 (J)	0.00037 (J)	
10/5/2021							0.00021 (J)
4/12/2022	0.00052 (J)	0.00025 (J)	0.00029 (J)	0.00022 (J)	<0.00102	0.00035 (J)	<0.00102

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S	GN-GSA-MW-15 ...
3/23/2016			0.00454 (J)	<0.0002			
3/24/2016	<0.0002	<0.0002			0.00662 (J)		
5/10/2016	<0.0002			<0.0002	0.00549 (J)		
5/11/2016		<0.0002	0.00407 (J)				
7/5/2016	<0.0002					<0.0002	
7/6/2016		<0.0002	0.00654 (J)	<0.0002	0.00537 (J)		0.00313 (J)
8/23/2016						<0.0002	<0.0002
9/6/2016	<0.0002	<0.0002		<0.0002	0.00568 (J)		
9/7/2016			0.00737 (J)			<0.0002	<0.0002
11/8/2016	<0.0002				0.00388 (J)	<0.0002	<0.0002
11/9/2016		<0.0002	0.00732 (J)	<0.0002			
1/3/2017						<0.0002	<0.0002
2/20/2017							<0.0002
2/21/2017		<0.0002	0.00315 (J)	<0.0002		<0.0002	
2/22/2017	<0.0002				0.00412 (J)		
5/31/2017	<0.0002	<0.0002	0.0023 (J)	<0.0002	<0.0002	<0.0002	<0.0002
7/5/2017	<0.0002	<0.0002	0.00303 (J)	<0.0002	<0.0002	<0.0002	<0.0002
2/5/2018	<0.0002			<0.0002	<0.0002		
2/6/2018		<0.0002	0.00324 (J)			<0.0002	
2/7/2018							<0.0002
6/12/2018	<0.0002	<0.0002	0.00251 (J)	<0.0002	<0.0002	<0.0002	<0.0002
10/23/2018	<0.0002			<0.0002	<0.0002	<0.0002	<0.0002
10/24/2018		<0.0002	0.00286 (J)				
5/21/2019	<0.0002	<0.0002	0.00245 (J)	<0.0002	0.0578 (o)		
5/22/2019						<0.0002	<0.0002
9/3/2019		<0.0002	0.00298 (J)				
9/4/2019	<0.0002			<0.0002	<0.0002	<0.0002	<0.0002
2/12/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/8/2020		<0.0002					
9/9/2020	<0.0002		0.00256 (J)	<0.0002	<0.0002	<0.0002	<0.0002
4/13/2021	<0.0002	<0.0002	0.00212	0.000218	0.000158 (J)	<0.0002	0.00046
10/4/2021	<0.0002				0.0001 (J)	<0.0002	
10/5/2021		<0.0002	0.00217	0.00042			
10/6/2021							0.0005
4/12/2022							0.00066
4/13/2022	<0.0002	<0.0002	0.00324	0.00016 (J)	<0.0002	<0.0002	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	<0.0002	0.00232 (J)	0.00403 (J)	<0.0002	0.00656 (J)		<0.0002
3/24/2016						<0.0002	
5/10/2016	<0.0002	<0.0002					
5/11/2016			0.00289 (J)	<0.0002	0.00505 (J)	<0.0002	<0.0002
7/5/2016	<0.0002						
7/6/2016		<0.0002	0.00485 (J)	<0.0002	0.00515 (J)	<0.0002	<0.0002
9/6/2016	<0.0002		0.00281 (J)	<0.0002	0.0037 (J)	<0.0002	
9/7/2016		<0.0002					<0.0002
11/8/2016	<0.0002	<0.0002	0.0035 (J)	<0.0002	0.00375 (J)	<0.0002	<0.0002
2/20/2017		<0.0002	<0.0002	<0.0002	0.00263 (J)	<0.0002	
2/21/2017	<0.0002						<0.0002
5/30/2017			<0.0002	<0.0002		<0.0002	<0.0002
5/31/2017	<0.0002	<0.0002			0.00287 (J)		
7/5/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/5/2018	<0.0002						
2/6/2018		<0.0002	0.00274 (J)	<0.0002	<0.0002	<0.0002	<0.0002
6/11/2018			0.00472 (J)	<0.0002	<0.0002		
6/12/2018	<0.0002	<0.0002				<0.0002	<0.0002
10/22/2018	<0.0002		0.0049 (J)	<0.0002	<0.0002	<0.0002	<0.0002
10/23/2018		<0.0002					
5/20/2019	<0.0002		0.00489 (J)	<0.0002	<0.0002		
5/21/2019						<0.0002	<0.0002
5/22/2019		<0.0002					
9/3/2019						<0.0002	<0.0002
9/4/2019	<0.0002	<0.0002	0.00527	<0.0002	0.00217 (J)		
2/11/2020			<0.0002	<0.0002	<0.0002		
2/12/2020	<0.0002	<0.0002				<0.0002	<0.0002
9/8/2020			<0.0002	<0.0002			<0.0002
9/9/2020	<0.0002	<0.0002			<0.0002	<0.0002	
4/13/2021	<0.0002	<0.0002	0.00104	0.000682	0.00077	0.000123 (J)	8.16E-05 (J)
10/4/2021	<0.0002	<0.0002	0.00142	0.00065	0.00033	0.00014 (J)	
10/5/2021							0.00041
4/12/2022	<0.0002	<0.0002	0.00215	0.00066	0.0006	7E-05 (J)	<0.0002

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S	GN-GSA-MW-15 ...
3/23/2016			<3	<3			
3/24/2016	<3	<3			<3		
5/10/2016	0.904			0.0311 (U)	-0.0573 (U)		
5/11/2016		0.197 (U)	0.0833 (U)				
7/5/2016	0.971					0.385 (U)	
7/6/2016		-0.0714 (U)	0.0827 (U)	0.359 (U)	0.607		0.563
8/23/2016						0.411 (U)	0.352 (U)
9/6/2016	1.09	0.59 (U)		1.03 (U)	0.47 (U)		
9/7/2016			2.13			0.88	1.08
11/8/2016	1.13				0.177 (U)	0.791	0.908
11/9/2016		0.621 (U)	0.419 (U)	1.22			
1/3/2017						0.412 (U)	0.661
2/20/2017							0.155 (U)
2/21/2017		1.01	1.19	0.0581 (U)		0.746	
2/22/2017					0.783		
3/1/2017	0.736						
5/31/2017	0.961	0.191 (U)	0.215 (U)	0.186 (U)	0.153 (U)	0.115 (U)	-0.105 (U)
7/5/2017	1.1	0.166 (U)	0.289 (U)	0.245 (U)	0.444	0.152 (U)	0.372
2/5/2018	0.596			0.321 (U)	-0.0362 (U)		
2/6/2018		0.275 (U)	-0.183 (U)			0.308 (U)	
2/7/2018							0.0874 (U)
6/12/2018	0.89	0.218 (U)	0.569	0.321 (U)	-0.0382 (U)	0.672	0.446
10/23/2018	1.14			0.723	1.04	0.248 (U)	0.829
10/24/2018		1.4	0.898				
5/21/2019	1.38	5.12 (U)	0.0995 (U)	0.376 (U)	0.503 (U)		
5/22/2019						0.24 (U)	0.588
9/3/2019		0.793	3.47				
9/4/2019	2.39			0.534	3.92	2.02	1.06
2/12/2020	1.17	0.13 (U)	0.0433 (U)	0.836	0.799	0.79	0.297 (U)
9/8/2020		0.65 (U)					
9/9/2020	1.02		0.798	1.88	0.27 (U)	0.453 (U)	0.258 (U)
4/13/2021	0.909 (U)	0.531 (U)	0.589 (U)	0.592 (U)	0.667 (U)	0.788 (U)	0.452 (U)
10/4/2021	1.43				0.231 (U)	0.573 (U)	
10/5/2021		0.269 (U)	0.524 (U)	1.42			
10/6/2021							1.33
4/12/2022							0.336 (U)
4/13/2022	1.31	0.551 (U)	0.453 (U)	0.257 (U)	0.357 (U)	0.127 (U)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	<3	<3	<3	<3	<3		<3
3/24/2016						<3	
5/10/2016	0.24 (U)	0.94					
5/11/2016			0.0157 (U)	0.222 (U)	0.329 (U)	0.202 (U)	0.903 (U)
7/5/2016	0.225 (U)						
7/6/2016		0.878	0.648	0.375 (U)	-0.129 (U)	0.291 (U)	0.19 (U)
9/6/2016	0.0553 (U)		0.633	0.607 (U)	0.858	-0.0526 (U)	
9/7/2016		1.45					0.458 (U)
11/8/2016	0.614 (U)	1.48	0.67	1.36	0.49 (U)	0.364 (U)	1.25
2/20/2017		0.755	0.073 (U)	0.524	0.506	0.174 (U)	
2/21/2017	1.6						0.657
5/30/2017			0.646	-0.1 (U)		0.368 (U)	0.373 (U)
5/31/2017	0.0999 (U)	0.91			0.272 (U)		
7/5/2017	0.241 (U)	0.154 (U)	0.16 (U)	0.376 (U)	0.216 (U)	0.224 (U)	0.415
2/5/2018	0.206 (U)						
2/6/2018		0.111 (U)	0.0645 (U)	-0.14 (U)	0.168 (U)	-0.011 (U)	0.328 (U)
6/11/2018			0.577	0.436	0.199 (U)		
6/12/2018	0.592	0.289 (U)				0.324 (U)	0.141 (U)
10/22/2018	0.351 (U)		1.16	1.07	1.03	0.748	0.21 (U)
10/23/2018		0.879					
5/20/2019	0.435		-0.251 (U)	0.498	0.465		
5/21/2019						0.21 (U)	0.289 (U)
5/22/2019		0.643 (U)					
9/3/2019						0.983	0.994
9/4/2019	0.347 (U)	2.36	1.05	0.608	1.28		
2/11/2020			0.585	0.743	0.513 (U)		
2/12/2020	0.419 (U)	0.444 (U)				-0.0587 (U)	0.377 (U)
9/8/2020			0.921	-0.109 (U)			1.07
9/9/2020	0.611 (U)	1.02			0.382 (U)	0.287 (U)	
4/13/2021	0.258 (U)	0.652 (U)	0.434 (U)	0.611 (U)	0.492 (U)	0.391 (U)	0.592 (U)
10/4/2021	1.1 (U)	1.22 (U)	0.11 (U)	1.7	0.144 (U)	0.794 (U)	
10/5/2021							0.2 (U)
4/12/2022	0.535 (U)	0.319 (U)	0.739 (U)	0.157 (U)	0.0248 (U)	0.367 (U)	0.191 (U)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S...	GN-GSA-MW-15 ...
3/23/2016			0.02 (J)	0.058 (J)			
3/24/2016	0.325	0.02 (J)			0.039 (J)		
5/10/2016	0.33			0.095 (J)	0.085 (J)		
5/11/2016		0.062 (J)	0.063 (J)				
7/5/2016	0.325					0.072 (J)	
7/6/2016		0.051 (J)	0.053 (J)	0.069 (J)	0.075 (J)		0.062 (J)
8/23/2016						0.066 (J)	0.045 (J)
9/6/2016	0.315	0.037 (J)		0.055 (J)	0.058 (J)		
9/7/2016			0.041 (J)			0.062 (J)	0.042 (J)
11/8/2016	0.227 (J)				0.3 (U)	<0.125	<0.125
11/9/2016		0.3 (U)	<0.125	<0.125			
1/3/2017						<0.125	<0.125
2/20/2017							0.1
2/21/2017		0.1	0.1	0.05 (J)		0.1	
2/22/2017	0.34				0.04 (J)		
5/31/2017	0.3	0.1	0.1	0.06 (J)	0.04 (J)	0.06 (J)	0.1
7/5/2017	0.3	<0.125	<0.125	0.05 (J)	0.04 (J)	0.04 (J)	<0.125
9/5/2017						0.06 (J)	<0.125
9/7/2017	0.37	<0.125	0.04 (J)	0.06 (J)	0.05 (J)		
2/5/2018	0.37			0.08 (J)	0.04 (J)		
2/6/2018		<0.125	<0.125			0.06 (J)	
2/7/2018							<0.125
6/12/2018	0.32	<0.125	<0.125	0.06 (J)	0.04 (J)	0.05 (J)	<0.125
10/23/2018	0.39			0.06 (J)	0.05 (J)	0.07 (J)	<0.125
10/24/2018		<0.125	<0.125				
5/21/2019	0.264	<0.125	<0.125	0.0649 (J)	0.0595 (J)		
5/22/2019						0.0601 (J)	<0.125
9/3/2019		<0.125	<0.125				
9/4/2019	0.33			0.0547 (J)	0.0555 (J)	0.0703 (J)	<0.125
2/12/2020	0.301	<0.125	<0.125	0.0586 (J)	<0.125	<0.125	<0.125
9/8/2020		0.0617 (J)					
9/9/2020	0.313		<0.125	0.068 (J)	0.0655 (J)	0.0847 (J)	<0.125
4/13/2021	0.29	<0.125	<0.125	<0.125	0.0633 (J)	<0.125	<0.125
10/4/2021	0.376				0.0748 (J)	0.0838 (J)	
10/5/2021		<0.125	<0.125	<0.125			
10/6/2021							<0.125
4/12/2022							<0.125
4/13/2022	0.307	<0.125	<0.125	<0.125	<0.125	<0.125	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	0.022 (J)	0.06 (J)	0.028 (J)	<0.125	0.063 (J)		0.035 (J)
3/24/2016						0.132 (J)	
5/10/2016	0.068 (J)	0.111 (J)					
5/11/2016			0.074 (J)	0.055 (J)	0.105 (J)	0.176 (J)	0.08 (J)
7/5/2016	0.052 (J)						
7/6/2016		0.089 (J)	0.065 (J)	0.047 (J)	0.094 (J)	0.167 (J)	0.072 (J)
9/6/2016	0.038 (J)		0.052 (J)	0.036 (J)	0.08 (J)	0.153 (J)	
9/7/2016		0.073 (J)					0.057 (J)
11/8/2016	<0.125	<0.125	<0.125	<0.125	<0.125	0.043 (J)	<0.125
2/20/2017		0.05 (J)	0.1	0.1	0.09 (J)	0.15	
2/21/2017	0.1						0.1
5/30/2017			0.04 (J)	0.1		0.14	0.04 (J)
5/31/2017	0.1	0.06 (J)			0.08 (J)		
7/5/2017	<0.125	0.05 (J)	<0.125	<0.125	0.08 (J)	0.13	<0.125
9/5/2017	<0.125	0.06 (J)					
9/7/2017			<0.125	<0.125	0.09 (J)	0.13	0.04 (J)
2/5/2018	0.04 (J)						
2/6/2018		0.06 (J)	<0.125	<0.125	0.08 (J)	0.15	0.04 (J)
6/11/2018			0.04 (J)	<0.125	0.09 (J)		
6/12/2018	<0.125	0.05 (J)				0.13	0.04 (J)
10/22/2018	<0.125		0.06 (J)	<0.125	0.1	0.15	0.05 (J)
10/23/2018		0.05 (J)					
5/20/2019	<0.125		0.0842 (J)	<0.125	0.0919 (J)		
5/21/2019						0.109	0.0526 (J)
5/22/2019		0.0515 (J)					
9/3/2019						0.123	0.0554 (J)
9/4/2019	<0.125	0.0594 (J)	0.0962 (J)	<0.125	0.07 (J)		
2/11/2020			<0.125	<0.125	0.0912 (J)		
2/12/2020	<0.125	0.0566 (J)				0.108	<0.125
9/8/2020			<0.125	<0.125			0.097 (J)
9/9/2020	0.0644 (J)	0.0748 (J)			0.118	0.14	
4/13/2021	<0.125	0.069 (J)	<0.125	<0.125	0.129	0.119	0.0602 (J)
10/4/2021	0.0664 (J)	0.0637 (J)	<0.125	<0.125	0.12	0.134	
10/5/2021							<0.125
4/12/2022	<0.125	<0.125	<0.125	<0.125	0.0724 (J)	0.0621 (J)	<0.125

Time Series

Constituent: Lead (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S	GN-GSA-MW-15 ...
3/23/2016			<0.0002	<0.0002			
3/24/2016	<0.0002	<0.0002			<0.0002		
5/10/2016	<0.0002			<0.0002	<0.0002		
5/11/2016		<0.0002	<0.0002				
7/5/2016	<0.0002					<0.0002	
7/6/2016		<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
8/23/2016						<0.0002	<0.0002
9/6/2016	<0.0002	<0.0002		<0.0002	<0.0002		
9/7/2016			<0.0002			<0.0002	<0.0002
11/8/2016	<0.0002				<0.0002	<0.0002	<0.0002
11/9/2016		<0.0002	<0.0002	<0.0002			
1/3/2017						<0.0002	<0.0002
2/20/2017							<0.0002
2/21/2017		<0.0002	<0.0002	<0.0002		<0.0002	
2/22/2017	<0.0002				<0.0002		
5/31/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
7/5/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/5/2018	<0.0002			<0.0002	<0.0002		
2/6/2018		<0.0002	<0.0002			<0.0002	
2/7/2018							<0.0002
6/12/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
10/23/2018	<0.0002			<0.0002	<0.0002	<0.0002	<0.0002
10/24/2018		<0.0002	<0.0002				
5/21/2019	<0.0002	<0.0002	<0.0002	<0.0002	0.00228 (J)		
5/22/2019						<0.0002	<0.0002
9/3/2019		<0.0002	<0.0002				
9/4/2019	<0.0002			<0.0002	<0.0002	<0.0002	<0.0002
2/12/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/8/2020		<0.0002					
9/9/2020	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
4/13/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
10/4/2021	<0.0002				<0.0002	<0.0002	
10/5/2021		<0.0002	<0.0002	<0.0002			
10/6/2021							<0.0002
4/12/2022							0.00023
4/13/2022	<0.0002	<0.0002	0.00011 (J)	<0.0002	<0.0002	<0.0002	

Time Series

Constituent: Lead (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
3/24/2016						<0.0002	
5/10/2016	<0.0002	<0.0002					
5/11/2016			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
7/5/2016	<0.0002						
7/6/2016		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/6/2016	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	
9/7/2016		<0.0002					<0.0002
11/8/2016	<0.0002	<0.0002	<0.0002	<0.0002	0.00229 (J)	<0.0002	<0.0002
2/20/2017		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/21/2017	<0.0002						<0.0002
5/30/2017			<0.0002	<0.0002		<0.0002	<0.0002
5/31/2017	<0.0002	<0.0002			<0.0002		
7/5/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/5/2018	<0.0002						
2/6/2018		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
6/11/2018			<0.0002	<0.0002	<0.0002		
6/12/2018	<0.0002	<0.0002				<0.0002	<0.0002
10/22/2018	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
10/23/2018		<0.0002					
5/20/2019	<0.0002		<0.0002	<0.0002	<0.0002		
5/21/2019						<0.0002	<0.0002
5/22/2019		<0.0002					
9/3/2019						<0.0002	<0.0002
9/4/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
2/11/2020			<0.0002	<0.0002	<0.0002		
2/12/2020	<0.0002	<0.0002				<0.0002	<0.0002
9/8/2020			<0.0002	<0.0002			<0.0002
9/9/2020	<0.0002	<0.0002			<0.0002	<0.0002	
4/13/2021	<0.0002	<0.0002	<0.0002	0.000305	<0.0002	<0.0002	<0.0002
10/4/2021	<0.0002	<0.0002	<0.0002	0.00031	<0.0002	<0.0002	
10/5/2021							<0.0002
4/12/2022	<0.0002	<0.0002	<0.0002	0.0004	<0.0002	<0.0002	0.00011 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S	GN-GSA-MW-15 ...
3/23/2016			<0.02	<0.02			
3/24/2016	<0.02	<0.02			<0.02		
5/10/2016	<0.02			<0.02	<0.02		
5/11/2016		<0.02	<0.02				
7/5/2016	<0.02					<0.02	
7/6/2016		<0.02	<0.02	<0.02	<0.02		<0.02
8/23/2016						<0.02	<0.02
9/6/2016	<0.02	<0.02		<0.02	<0.02		
9/7/2016			<0.02			<0.02	<0.02
11/8/2016	<0.02				<0.02	<0.02	<0.02
11/9/2016		<0.02	<0.02	<0.02			
1/3/2017						<0.02	<0.02
2/20/2017							<0.02
2/21/2017		<0.02	<0.02	<0.02		<0.02	
2/22/2017	<0.02				<0.02		
5/31/2017	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
7/5/2017	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
2/5/2018	<0.02			<0.02	<0.02		
2/6/2018		<0.02	<0.02			<0.02	
2/7/2018							<0.02
6/12/2018	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
10/23/2018	<0.02			<0.02	<0.02	<0.02	<0.02
10/24/2018		<0.02	<0.02				
5/21/2019	<0.02	<0.02	<0.02	<0.02	<0.02		
5/22/2019						<0.02	<0.02
9/3/2019		<0.02	<0.02				
9/4/2019	<0.02			<0.02	<0.02	<0.02	<0.02
2/12/2020	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
9/8/2020		<0.02					
9/9/2020	0.0101 (J)		<0.02	<0.02	<0.02	<0.02	<0.02
4/13/2021	0.00953 (J)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
10/4/2021	0.00963 (J)				<0.02	<0.02	
10/5/2021		<0.02	<0.02	<0.02			
10/6/2021							<0.02
4/12/2022							<0.02
4/13/2022	0.00966 (J)	<0.02	<0.02	<0.02	<0.02	<0.02	

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	<0.02	<0.02	<0.02	<0.02	<0.02		<0.02
3/24/2016						<0.02	
5/10/2016	<0.02	<0.02					
5/11/2016			<0.02	<0.02	<0.02	<0.02	<0.02
7/5/2016	<0.02						
7/6/2016		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
9/6/2016	<0.02		<0.02	<0.02	<0.02	<0.02	
9/7/2016		<0.02					<0.02
11/8/2016	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
2/20/2017		<0.02	<0.02	<0.02	<0.02	<0.02	
2/21/2017	<0.02						<0.02
5/30/2017			<0.02	<0.02		<0.02	<0.02
5/31/2017	<0.02	<0.02			<0.02		
7/5/2017	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
2/5/2018	<0.02						
2/6/2018		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
6/11/2018			<0.02	<0.02	<0.02		
6/12/2018	<0.02	<0.02				<0.02	<0.02
10/22/2018	<0.02		<0.02	<0.02	<0.02	<0.02	<0.02
10/23/2018		<0.02					
5/20/2019	<0.02		<0.02	<0.02	<0.02		
5/21/2019						<0.02	<0.02
5/22/2019		<0.02					
9/3/2019						<0.02	<0.02
9/4/2019	<0.02	<0.02	<0.02	<0.02	<0.02		
2/11/2020			<0.02	<0.02	<0.02		
2/12/2020	<0.02	<0.02				<0.02	<0.02
9/8/2020			<0.02	<0.02			<0.02
9/9/2020	<0.02	<0.02			<0.02	<0.02	
4/13/2021	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
10/4/2021	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
10/5/2021							<0.02
4/12/2022	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S	GN-GSA-MW-15 ...
3/23/2016			<0.0005	<0.0005			
3/24/2016	<0.0005	<0.0005			<0.0005		
5/10/2016	<0.0005			<0.0005	<0.0005		
5/11/2016		<0.0005	<0.0005				
7/5/2016	<0.0005					<0.0005	
7/6/2016		<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
8/23/2016						<0.0005	<0.0005
9/6/2016	<0.0005	<0.0005		<0.0005	<0.0005		
9/7/2016			<0.0005			<0.0005	<0.0005
11/8/2016	<0.0005				<0.0005	<0.0005	<0.0005
11/9/2016		<0.0005	<0.0005	<0.0005			
1/3/2017						<0.0005	<0.0005
2/20/2017							<0.0005
2/21/2017		<0.0005	<0.0005	<0.0005		<0.0005	
2/22/2017	<0.0005				<0.0005		
5/31/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
7/5/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/5/2018	<0.0005			<0.0005	<0.0005		
2/6/2018		<0.0005	<0.0005			<0.0005	
2/7/2018							<0.0005
6/12/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
10/23/2018	<0.0005			<0.0005	<0.0005	<0.0005	<0.0005
10/24/2018		<0.0005	<0.0005				
5/21/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
5/22/2019						<0.0005	<0.0005
9/3/2019		<0.0005	<0.0005				
9/4/2019	<0.0005			<0.0005	<0.0005	<0.0005	<0.0005
2/12/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
9/8/2020		<0.0005					
9/9/2020	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
4/13/2021	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
10/4/2021	<0.0005				<0.0005	<0.0005	
10/5/2021		<0.0005	<0.0005	<0.0005			
10/6/2021							<0.0005
4/12/2022							<0.0005
4/13/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
3/24/2016						<0.0005	
5/10/2016	<0.0005	<0.0005					
5/11/2016			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
7/5/2016	<0.0005						
7/6/2016		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
9/6/2016	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	
9/7/2016		<0.0005					<0.0005
11/8/2016	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/20/2017		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
2/21/2017	<0.0005						<0.0005
5/30/2017			<0.0005	<0.0005		<0.0005	<0.0005
5/31/2017	<0.0005	<0.0005			<0.0005		
7/5/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/5/2018	<0.0005						
2/6/2018		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
6/11/2018			<0.0005	<0.0005	<0.0005		
6/12/2018	<0.0005	<0.0005				<0.0005	<0.0005
10/22/2018	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
10/23/2018		<0.0005					
5/20/2019	<0.0005		<0.0005	<0.0005	<0.0005		
5/21/2019						<0.0005	<0.0005
5/22/2019		<0.0005					
9/3/2019						<0.0005	<0.0005
9/4/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
2/11/2020			<0.0005	<0.0005	<0.0005		
2/12/2020	<0.0005	<0.0005				<0.0005	<0.0005
9/8/2020			<0.0005	<0.0005			<0.0005
9/9/2020	<0.0005	<0.0005			<0.0005	<0.0005	
4/13/2021	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
10/4/2021	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
10/5/2021							<0.0005
4/12/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S	GN-GSA-MW-15 ...
3/23/2016			<0.0002	<0.0002			
3/24/2016	0.0241	<0.0002			<0.0002		
5/10/2016	0.0239			<0.0002	<0.0002		
5/11/2016		<0.0002	<0.0002				
7/5/2016	0.0176					<0.0002	
7/6/2016		<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
8/23/2016						<0.0002	<0.0002
9/6/2016	0.0138	<0.0002		<0.0002	<0.0002		
9/7/2016			<0.0002			<0.0002	<0.0002
11/8/2016	0.0102				<0.0002	<0.0002	<0.0002
11/9/2016		<0.0002	<0.0002	<0.0002			
1/3/2017						<0.0002	<0.0002
2/20/2017							<0.0002
2/21/2017		<0.0002	<0.0002	<0.0002		<0.0002	
2/22/2017	0.0102				<0.0002		
5/31/2017	0.00805 (J)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
7/5/2017	0.009 (J)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/5/2018	0.00908 (J)			<0.0002	<0.0002		
2/6/2018		<0.0002	<0.0002			<0.0002	
2/7/2018							<0.0002
6/12/2018	0.00655 (J)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
10/23/2018	0.006 (J)			<0.0002	<0.0002	<0.0002	<0.0002
10/24/2018		<0.0002	<0.0002				
5/21/2019	0.00504 (J)	<0.0002	<0.0002	<0.0002	<0.0002		
5/22/2019						<0.0002	<0.0002
9/3/2019		<0.0002	<0.0002				
9/4/2019	0.00504 (J)			<0.0002	<0.0002	<0.0002	<0.0002
2/12/2020	0.00448 (J)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/8/2020		<0.0002					
9/9/2020	0.00405 (J)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
4/13/2021	0.00353	<0.0002	<0.0002	0.000298	0.000175 (J)	0.000334	<0.0002
10/4/2021	0.00372				0.00016 (J)	0.00046	
10/5/2021		<0.0002	<0.0002	0.00033			
10/6/2021							<0.0002
4/12/2022							<0.0002
4/13/2022	0.0033	<0.0002	<0.0002	0.00031	0.00021	0.00025	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
3/24/2016						0.00317 (J)	
5/10/2016	<0.0002	<0.0002					
5/11/2016			<0.0002	<0.0002	<0.0002	0.00424 (J)	<0.0002
7/5/2016	<0.0002						
7/6/2016		<0.0002	<0.0002	<0.0002	<0.0002	0.00489 (J)	<0.0002
9/6/2016	<0.0002		<0.0002	<0.0002	<0.0002	0.00466 (J)	
9/7/2016		<0.0002					<0.0002
11/8/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00422 (J)	<0.0002
2/20/2017		<0.0002	<0.0002	<0.0002	<0.0002	0.00422 (J)	
2/21/2017	<0.0002						<0.0002
5/30/2017			<0.0002	<0.0002		0.00344 (J)	<0.0002
5/31/2017	<0.0002	<0.0002			<0.0002		
7/5/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00369 (J)	<0.0002
2/5/2018	<0.0002						
2/6/2018		<0.0002	<0.0002	<0.0002	<0.0002	0.00331 (J)	<0.0002
6/11/2018			<0.0002	<0.0002	<0.0002		
6/12/2018	<0.0002	<0.0002				0.00325 (J)	<0.0002
10/22/2018	<0.0002		<0.0002	<0.0002	<0.0002	0.00359 (J)	<0.0002
10/23/2018		<0.0002					
5/20/2019	<0.0002		<0.0002	<0.0002	<0.0002		
5/21/2019						0.00379 (J)	<0.0002
5/22/2019		<0.0002					
9/3/2019						0.00437 (J)	<0.0002
9/4/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
2/11/2020			<0.0002	<0.0002	<0.0002		
2/12/2020	<0.0002	<0.0002				0.00322 (J)	<0.0002
9/8/2020			<0.0002	<0.0002			<0.0002
9/9/2020	<0.0002	<0.0002			<0.0002	0.00418 (J)	
4/13/2021	0.000307	7.49E-05 (J)	9.4E-05 (J)	<0.0002	0.000276	0.00318	0.000207
10/4/2021	0.00034	<0.0002	9E-05 (J)	<0.0002	0.00025	0.00345	
10/5/2021							0.00032
4/12/2022	0.00026	<0.0002	0.00012 (J)	<0.0002	0.00027	0.00347	0.00021

Time Series

Constituent: pH (pH) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S...	GN-GSA-MW-15 ...
3/23/2016			6.26	7.28			
3/24/2016	7.7	6.95			7.14		
5/10/2016	7.67			7.19	7.17		
5/11/2016		7.07	6.04				
7/5/2016	7.68					7.44	
7/6/2016		7.13	6	7.29	7.19		6.1
8/23/2016						7.47	5.87
9/6/2016	7.8	7.1		7.29	7.18		
9/7/2016			6.1			7.51	5.92
11/8/2016	7.74				7.18	7.37	5.91
11/9/2016		7.1	5.85	7.29			
1/3/2017						7.37	5.93
2/20/2017							5.91
2/21/2017		7	5.99	7.1		7.41	
2/22/2017	7.61				7.02		
5/31/2017	7.7	7.01	6.03	7.16	7.07	7.47	6
7/5/2017	7.66	7.07	6.13	7.08	7	7.5	6
9/5/2017						7.39	5.9
9/7/2017	7.7	7.01	6.17	7.17	7.02		
2/5/2018	7.78			7.22	7.12		
2/6/2018		7.09	6.17			7.47	
2/7/2018							5.86
6/12/2018	7.62	7.07	6.13	7.19	7.09	7.53	6.05
10/23/2018	7.65			7.22	7.09	7.4	5.84
10/24/2018		7.14	6.09				
5/21/2019	7.5	6.98	5.97	7.1	7.05		
5/22/2019						7.43	5.81
9/3/2019		6.67	5.12				
9/4/2019	7.4			7.24	6.71	7.45	5.67
2/12/2020	7.66	7.03	6	7.14	7.09	7.47	5.72
9/8/2020		5.9					
9/9/2020	7.6		5.67	6.77	6.95	7.32	5.71
4/13/2021	7.7	7.22	5.46	6.61	7.17	7.33	5.84
10/4/2021	7.33				6.95	7.21	
10/5/2021		7.12	6.01	7.25			
10/6/2021							5.64
4/12/2022							5.25
4/13/2022	7.5	6.85	5.29	6.74	6.84	7.4	

Time Series

Constituent: pH (pH) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	7.18	6.83	6.41	4.91	6.5		6.88
3/24/2016						7.45	
5/10/2016	7.2	6.84					
5/11/2016			6.5	4.79	6.54	7.48	6.84
7/5/2016	7.15						
7/6/2016		6.94	6.47	4.66	6.58	7.46	7.01
9/6/2016	7.17		6.51	4.8	6.64	7.44	
9/7/2016		6.84					7.03
11/8/2016	7.12	6.84	6.48	4.81	6.61	7.37	7.15
2/20/2017		7.04	6.39	4.51	6.63	7.36	
2/21/2017	7.12						6.67
5/30/2017			6.38	4.61		7.38	6.91
5/31/2017	7.17	6.91			6.54		
7/5/2017	7.18	7.02	6.44	4.64	6.67	7.44	6.51
9/5/2017	7.17	6.78					
9/7/2017			6.44	4.67	6.69	7.41	6.96
2/5/2018	7.12						
2/6/2018		6.96	6.36	4.61	6.71	7.41	6.8
6/11/2018			6.43	4.68	6.7		
6/12/2018	7.19	6.76				7.4	6.77
10/22/2018	7.06		6.48	4.68	6.71	7.33	6.86
10/23/2018		6.59					
5/20/2019	7.13		6.59	4.59	6.81		
5/21/2019						7.31	6.79
5/22/2019		6.38					
9/3/2019						7.46	6.53
9/4/2019	7.16	6.71	6.81	4.59	6.78		
2/11/2020			6.42	4.59	6.72		
2/12/2020	7.11	6.98				7.51	6.57
9/8/2020			6.2	6			5.85
9/9/2020	7.22	6.48			6.86	7.54	
4/13/2021	6.94	6.71	6.36	4.63	6.84	7.7	6.9
10/4/2021	7.13	6.43	6.66	4.86	6.96	7.82	
10/5/2021							6.96
4/12/2022	6.48	5.57	6.32	4.38	6.73	7.22	6.22

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S	GN-GSA-MW-15 ...
3/23/2016			<0.00102	<0.00102			
3/24/2016	<0.00102	<0.00102			<0.00102		
5/10/2016	<0.00102			<0.00102	<0.00102		
5/11/2016		<0.00102	<0.00102				
7/5/2016	<0.00102					<0.00102	
7/6/2016		<0.00102	<0.00102	<0.00102	<0.00102		<0.00102
8/23/2016						<0.00102	<0.00102
9/6/2016	<0.00102	<0.00102		<0.00102	<0.00102		
9/7/2016			<0.00102			<0.00102	<0.00102
11/8/2016	<0.00102				<0.00102	<0.00102	<0.00102
11/9/2016		<0.00102	<0.00102	<0.00102			
1/3/2017						<0.00102	<0.00102
2/20/2017							<0.00102
2/21/2017		<0.00102	<0.00102	<0.00102		<0.00102	
2/22/2017	<0.00102				<0.00102		
5/31/2017	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
7/5/2017	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
2/5/2018	<0.00102			<0.00102	<0.00102		
2/6/2018		<0.00102	<0.00102			<0.00102	
2/7/2018							<0.00102
6/12/2018	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
10/23/2018	<0.00102			<0.00102	<0.00102	<0.00102	<0.00102
10/24/2018		<0.00102	<0.00102				
5/21/2019	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		
5/22/2019						<0.00102	<0.00102
9/3/2019		<0.00102	<0.00102				
9/4/2019	<0.00102			<0.00102	<0.00102	<0.00102	<0.00102
2/12/2020	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
9/8/2020		<0.00102					
9/9/2020	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
4/13/2021	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
10/4/2021	<0.00102				<0.00102	<0.00102	
10/5/2021		<0.00102	<0.00102	<0.00102			
10/6/2021							<0.00102
4/12/2022							<0.00102
4/13/2022	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		<0.00102
3/24/2016						<0.00102	
5/10/2016	<0.00102	<0.00102					
5/11/2016			<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
7/5/2016	<0.00102						
7/6/2016		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
9/6/2016	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102	
9/7/2016		<0.00102					<0.00102
11/8/2016	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
2/20/2017		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	
2/21/2017	<0.00102						<0.00102
5/30/2017			<0.00102	<0.00102		<0.00102	<0.00102
5/31/2017	<0.00102	<0.00102			<0.00102		
7/5/2017	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
2/5/2018	<0.00102						
2/6/2018		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
6/11/2018			<0.00102	<0.00102	<0.00102		
6/12/2018	<0.00102	<0.00102				<0.00102	<0.00102
10/22/2018	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
10/23/2018		<0.00102					
5/20/2019	<0.00102		<0.00102	<0.00102	<0.00102		
5/21/2019						<0.00102	<0.00102
5/22/2019		<0.00102					
9/3/2019						<0.00102	<0.00102
9/4/2019	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		
2/11/2020			<0.00102	<0.00102	<0.00102		
2/12/2020	<0.00102	<0.00102				<0.00102	<0.00102
9/8/2020			<0.00102	<0.00102			<0.00102
9/9/2020	<0.00102	<0.00102			<0.00102	<0.00102	
4/13/2021	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
10/4/2021	<0.00102	0.0006 (J)	<0.00102	<0.00102	<0.00102	<0.00102	
10/5/2021							<0.00102
4/12/2022	<0.00102	0.00051 (J)	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S...	GN-GSA-MW-15 ...
3/23/2016			7.59	16.2			
3/24/2016	6.06	1.62			7.64		
5/10/2016	5.47			12.1	6.79		
5/11/2016		2.15	6.6				
7/5/2016	4.8					11.7	
7/6/2016		1.89	11.8	7.7	7.59		5.38
8/23/2016						13.7	4.23
9/6/2016	3.91	1.53		6.97	9.56		
9/7/2016			14.9			12.4	3.84
11/8/2016	2.95				8.87	12.9	3.23
11/9/2016		1.69	4.5	5.77			
1/3/2017						14.1	3
2/20/2017							3.1 (J)
2/21/2017		2.2 (J)	5.7	12		6.1	
2/22/2017	3.3 (J)				10		
5/31/2017	3.4 (J)	1.7 (J)	5.6	8.7	8	8	2.1 (J)
7/5/2017	3.4 (J)	<1	4.6 (J)	7.7	8.2	3.8 (J)	2 (J)
9/5/2017						6.8	2.2 (J)
9/7/2017	3.6 (J)	1.7 (J)	6.2	7	8.3		
6/12/2018	4.2 (J)	1.8 (J)	3.5 (J)	8.7	8.3	5	2.3 (J)
10/23/2018	3 (J)			4.8 (J)	6.7	5.4	<1
10/24/2018		<1	2.4 (J)				
5/21/2019	4.58	1.72	3.55	7.81	8.29		
5/22/2019						5.57	2.82
9/3/2019		1.73	2.83				
9/4/2019	4.82			6.25	8.18	6.37	2.3
2/12/2020	5.11	1.65	3.89	13.1	9.06	3.09	1.77
9/8/2020		1.62					
9/9/2020	3.97		3.01	5.85	7.89	5.26	2
4/13/2021	4.43	1.68	2.77	8.86	8.38	3.45	2.51
10/4/2021	4.08				7.18	3.78	
10/5/2021		1.8	2.86	8.02			
10/6/2021							2.15
4/12/2022							1.76 (J)
4/13/2022	4.24	1.68 (J)	2.73	8.25	7.27	2.44	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	6.48	32.6	14.1	1.89	13.8		5.54
3/24/2016						2.42	
5/10/2016	11.1	27.6					
5/11/2016			13.5	1.79	11.9	2.16	5.66
7/5/2016	6.7						
7/6/2016		23.6	17.1	1.3	11.1	1.7	5.62
9/6/2016	6.85		11.2	1.14	10.6	1.31	
9/7/2016		22.2					5.31
11/8/2016	7.3	20.4	10.9	0.622 (J)	12.1	1.4	4.42
2/20/2017		14	8.8	5 (o)	9.7	2 (J)	
2/21/2017	7.7						5.3
5/30/2017			12	5 (o)		1.6 (J)	5.2
5/31/2017	5.3	15			11		
7/5/2017	6.4	11	19	<1	8.3	1.9 (J)	4.4 (J)
9/5/2017	6.1	17					
9/7/2017			33	<1	8.6	2.1 (J)	5.9
6/11/2018			47	<1	7.5		
6/12/2018	7.2	14				2.7 (J)	5.7
10/22/2018	8.3		40	<1	8.8	2.2 (J)	5.1
10/23/2018		12					
5/20/2019	7.52		75.6	<1	6.85		
5/21/2019						3.39	6.07
5/22/2019		11					
9/3/2019						4.15	6.53
9/4/2019	9.25	10.9	56.3	<1	10.1		
2/11/2020			79.7	<1	8.5		
2/12/2020	10.7	9.13				4.31	5.67
9/8/2020			113	<1			5.42
9/9/2020	7.77	8.76			7.13	3.67	
4/13/2021	7.44	7.88	108	<1	6.37	4.49	4.65
10/4/2021	6.86	8.09	115	<1	6.02	5.05	
10/5/2021							4.08
4/12/2022	8.36	7.36	145	<1	5.75	3.13	4.09

Time Series

Constituent: TDS (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S	GN-GSA-MW-15 ...
3/23/2016			56.7	237			
3/24/2016	203	239			244		
5/10/2016	204			226	247		
5/11/2016		257	54.7				
7/5/2016	188					194	
7/6/2016		256	76	191	247		55.3
8/23/2016						208	45.3
9/6/2016	188	245		200	264		
9/7/2016			96			198	37.3
11/8/2016	197				173	205	40.7
11/9/2016		258	57.3	190			
1/3/2017						221	47.3
2/20/2017							55.3
2/21/2017		243	76.7	264		195	
2/22/2017	165				260		
5/31/2017	244	252	75.3	242	277	220	46.7
7/5/2017	201	257	80	231	296	185	41.3
9/5/2017						202	34.7
9/7/2017	196	259	105	225	294		
6/12/2018	221	266	72	230	282	205	38
10/23/2018	195 (D)			201 (D)	279 (D)	204 (D)	27.3 (D)
10/24/2018		265 (D)	68 (D)				
5/21/2019	244	274	66	231	286		
5/22/2019						202	35.3
9/3/2019		260	51.3				
9/4/2019	200			217	271	195	28
2/12/2020	219	259	66	256	282	189	30.7
9/8/2020		275					
9/9/2020	221		59.3	230	271	198	32.7
4/13/2021	237	273	66	260	286	191	35.3
10/4/2021	221				277	183	
10/5/2021		293	92.7	255			
10/6/2021							<25
4/12/2022							27.3
4/13/2022	217	273	84	250	266	187	

Time Series

Constituent: TDS (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	272	334	185	27.3	202		149
3/24/2016						179	
5/10/2016	283	349					
5/11/2016			176	<25	207	195	179
7/5/2016	294						
7/6/2016		316	203	<25	202	192	183
9/6/2016	295		180	<25	204	193	
9/7/2016		309					173
11/8/2016	310	302	187	<25	212	198	207
2/20/2017		297	205	30	251	195	
2/21/2017	280						153
5/30/2017			187	<25		184	158
5/31/2017	287	287			234		
7/5/2017	287	283	238	26	229	194	138
9/5/2017	280	284					
9/7/2017			269	<25	225	193	171
6/11/2018			312	<25	210		
6/12/2018	284	248				186	167
10/22/2018	278 (D)		292 (D)	<25 (D)	209 (D)	184 (D)	177 (D)
10/23/2018		215 (D)					
5/20/2019	286		398	27.3	218		
5/21/2019						185	176
5/22/2019		184					
9/3/2019						184	189
9/4/2019	297	225	388	<25	233		
2/11/2020			308	<25	241		
2/12/2020	276	250				182	153
9/8/2020			360	<25			187
9/9/2020	272	220			234	192	
4/13/2021	283	196	350	26	220	186	163
10/4/2021	287	168	379	32	232	203	
10/5/2021							170
4/12/2022	271	156	400	<25	214	176	155

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S	GN-GSA-MW-15 ...
3/23/2016			<0.0002	<0.0002			
3/24/2016	<0.0002	<0.0002			<0.0002		
5/10/2016	<0.0002			<0.0002	<0.0002		
5/11/2016		<0.0002	<0.0002				
7/5/2016	<0.0002					<0.0002	
7/6/2016		<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
8/23/2016						<0.0002	<0.0002
9/6/2016	<0.0002	<0.0002		<0.0002	<0.0002		
9/7/2016			<0.0002			<0.0002	<0.0002
11/8/2016	<0.0002				<0.0002	<0.0002	<0.0002
11/9/2016		<0.0002	<0.0002	<0.0002			
1/3/2017						<0.0002	<0.0002
2/20/2017							<0.0002
2/21/2017		<0.0002	<0.0002	<0.0002		<0.0002	
2/22/2017	<0.0002				<0.0002		
5/31/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
7/5/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/5/2018	<0.0002			<0.0002	<0.0002		
2/6/2018		<0.0002	<0.0002			<0.0002	
2/7/2018							<0.0002
6/12/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
10/23/2018	<0.0002			<0.0002	<0.0002	<0.0002	<0.0002
10/24/2018		<0.0002	<0.0002				
5/21/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
5/22/2019						<0.0002	<0.0002
9/3/2019		<0.0002	<0.0002				
9/4/2019	<0.0002			<0.0002	<0.0002	<0.0002	<0.0002
2/12/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/8/2020		<0.0002					
9/9/2020	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
4/13/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
10/4/2021	<0.0002				<0.0002	<0.0002	
10/5/2021		<0.0002	<0.0002	<0.0002			
10/6/2021							<0.0002
4/12/2022							<0.0002
4/13/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	

Time Series

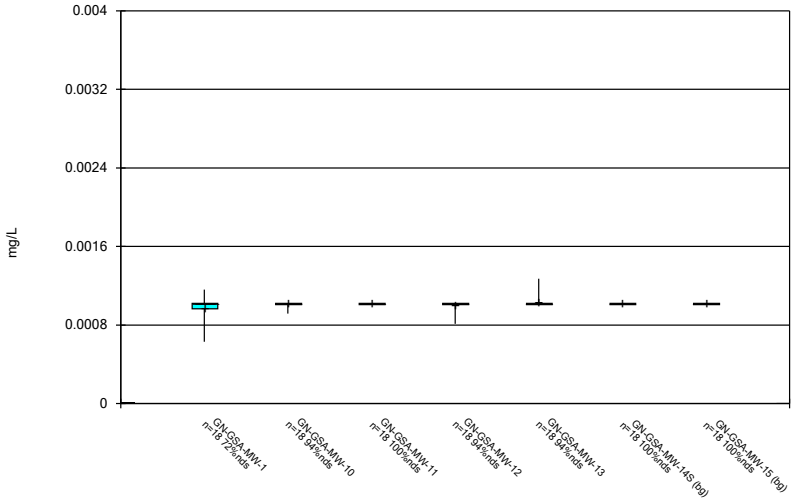
Constituent: Thallium (mg/L) Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	<0.0002	0.000228 (J)	<0.0002	<0.0002	<0.0002		<0.0002
3/24/2016						<0.0002	
5/10/2016	<0.0002	<0.0002					
5/11/2016			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
7/5/2016	<0.0002						
7/6/2016		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/6/2016	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	
9/7/2016		<0.0002					<0.0002
11/8/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/20/2017		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/21/2017	<0.0002						<0.0002
5/30/2017			<0.0002	<0.0002		<0.0002	<0.0002
5/31/2017	<0.0002	<0.0002			<0.0002		
7/5/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/5/2018	<0.0002						
2/6/2018		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
6/11/2018			<0.0002	<0.0002	<0.0002		
6/12/2018	<0.0002	<0.0002				<0.0002	<0.0002
10/22/2018	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
10/23/2018		<0.0002					
5/20/2019	<0.0002		<0.0002	<0.0002	<0.0002		
5/21/2019						<0.0002	<0.0002
5/22/2019		<0.0002					
9/3/2019						<0.0002	<0.0002
9/4/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
2/11/2020			<0.0002	<0.0002	<0.0002		
2/12/2020	<0.0002	<0.0002				<0.0002	<0.0002
9/8/2020			<0.0002	<0.0002			<0.0002
9/9/2020	<0.0002	<0.0002			<0.0002	<0.0002	
4/13/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
10/4/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
10/5/2021							<0.0002
4/12/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

FIGURE B.

Box & Whiskers Plot

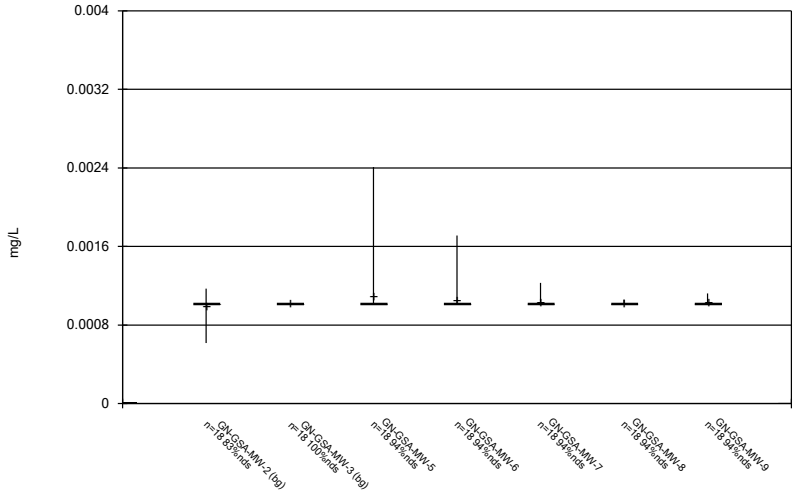


Constituent: Antimony Analysis Run 5/31/2022 10:24 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Box & Whiskers Plot

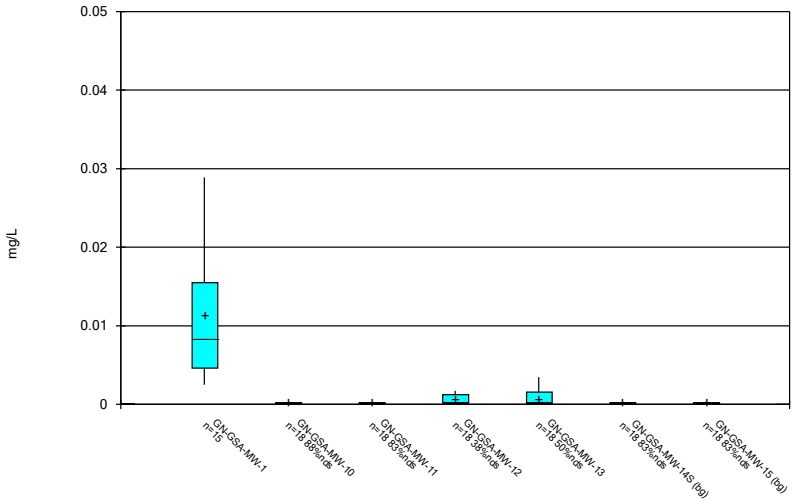


Constituent: Antimony Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Box & Whiskers Plot

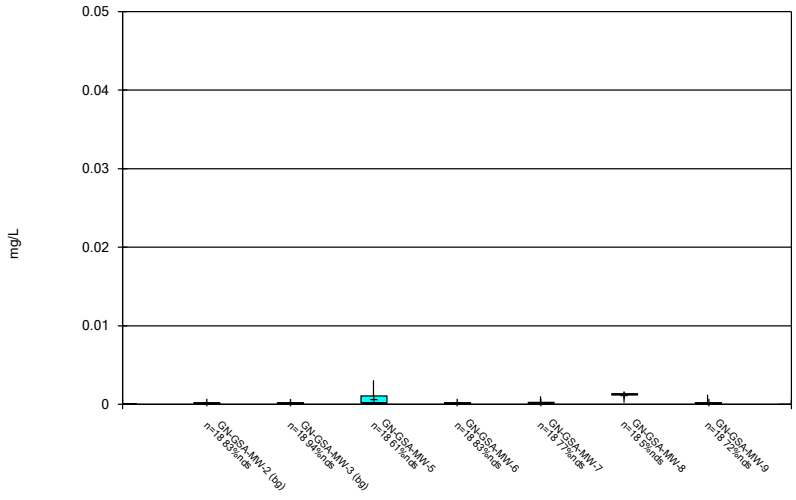


Constituent: Arsenic Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

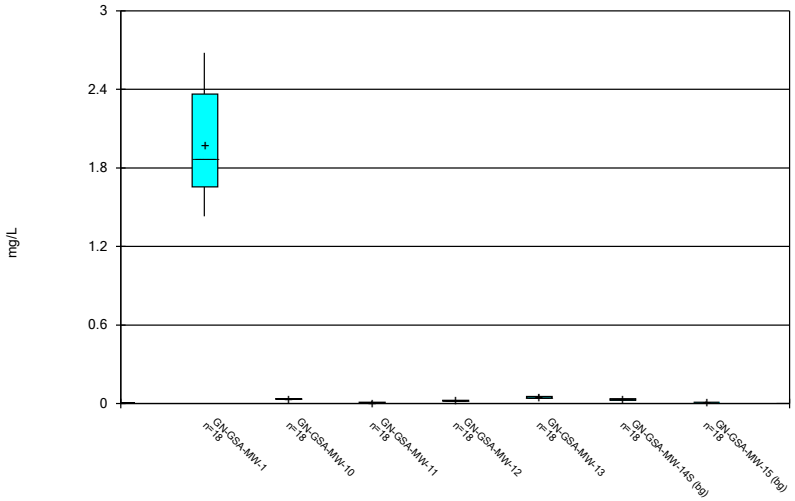
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Box & Whiskers Plot

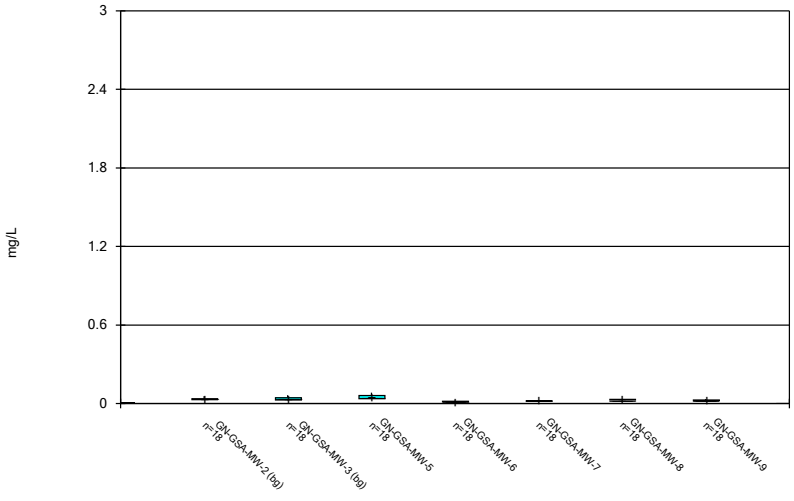


Constituent: Barium Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Box & Whiskers Plot

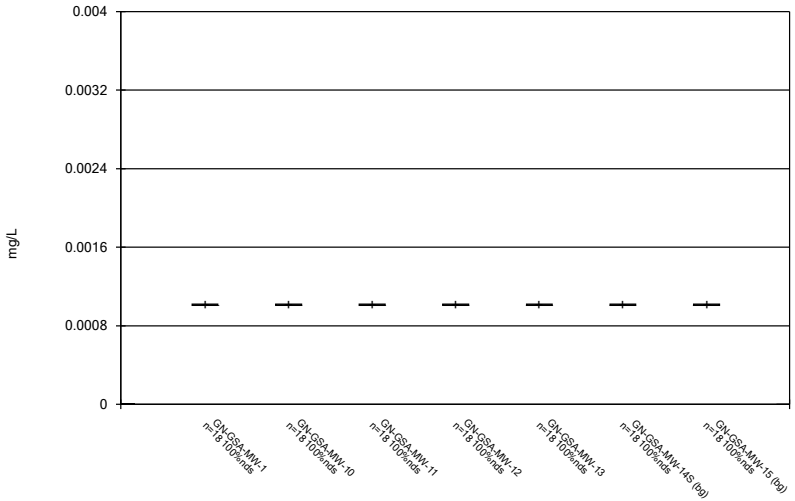


Constituent: Barium Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Box & Whiskers Plot

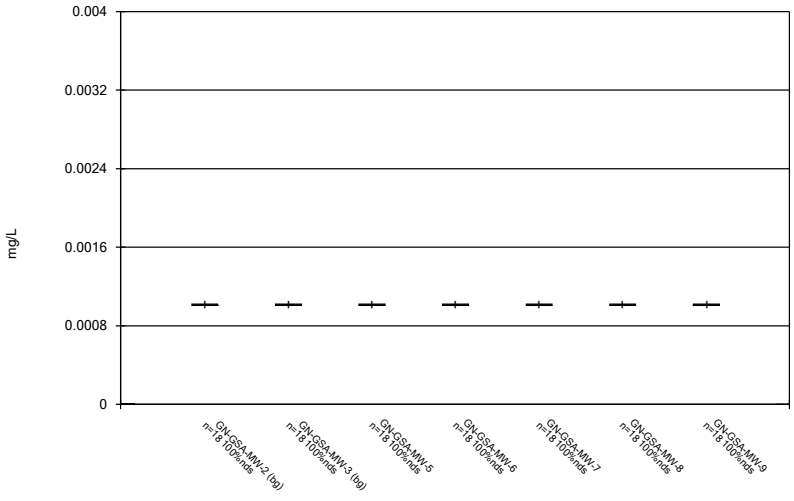


Constituent: Beryllium Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

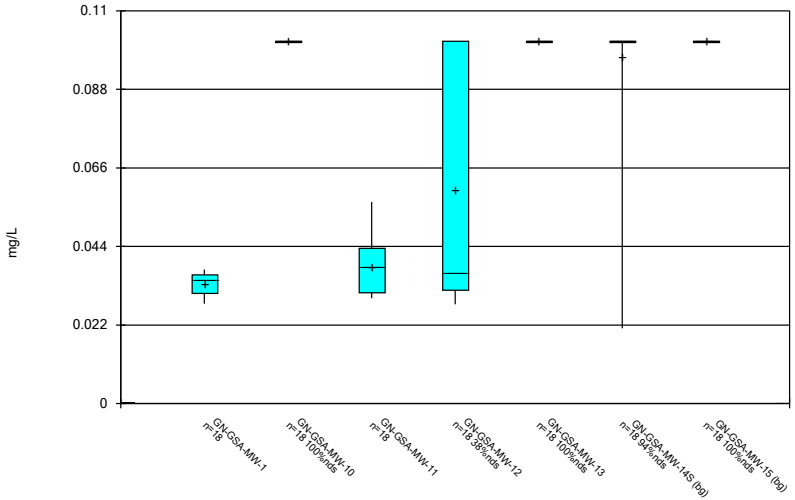
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Box & Whiskers Plot

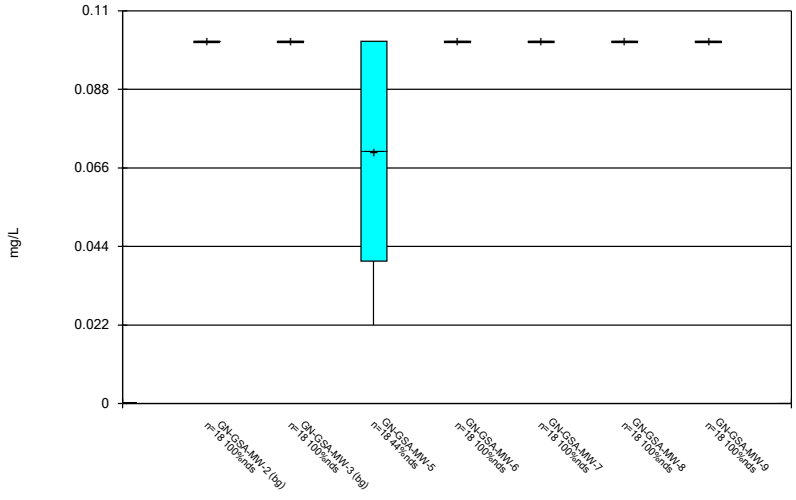


Constituent: Boron Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Box & Whiskers Plot

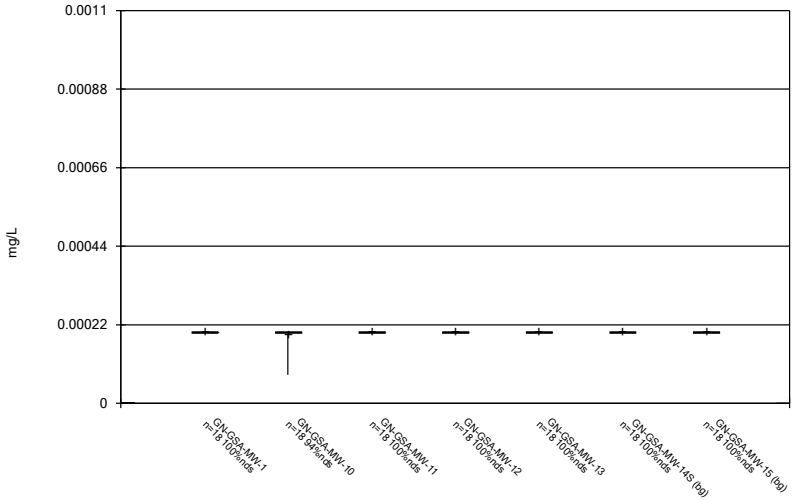


Constituent: Boron Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Box & Whiskers Plot

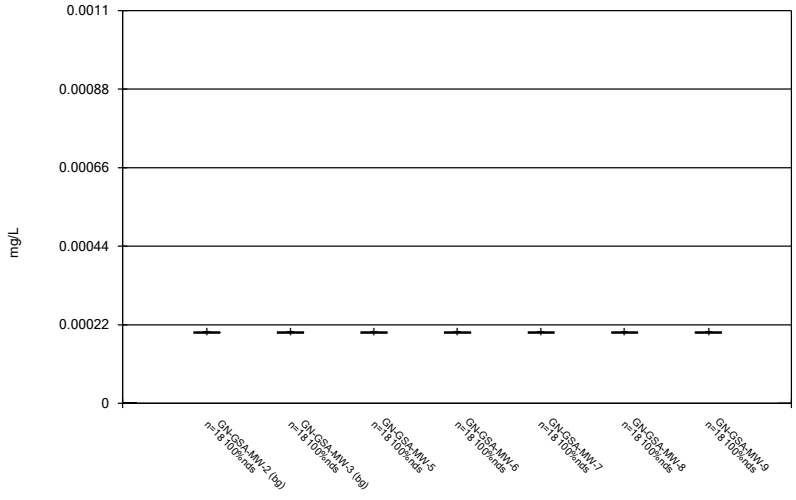


Constituent: Cadmium Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

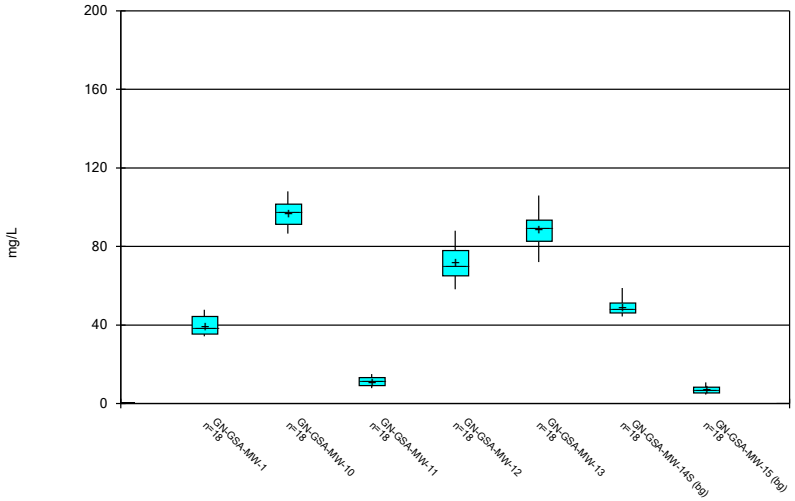
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Box & Whiskers Plot

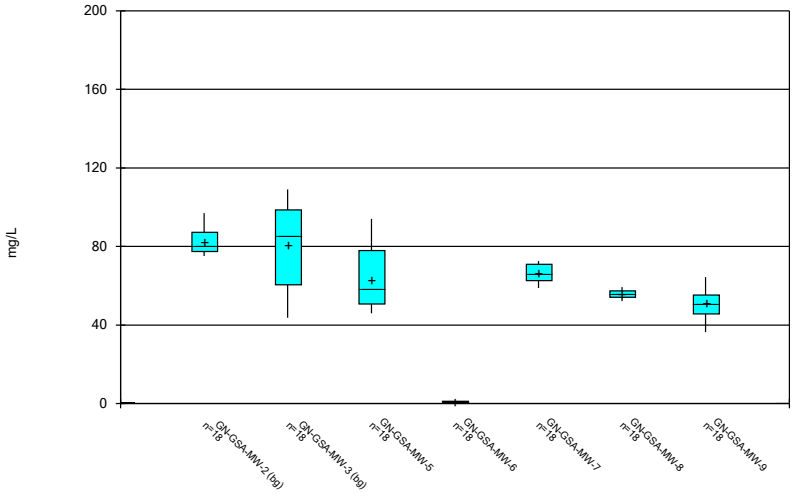


Constituent: Calcium Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Box & Whiskers Plot

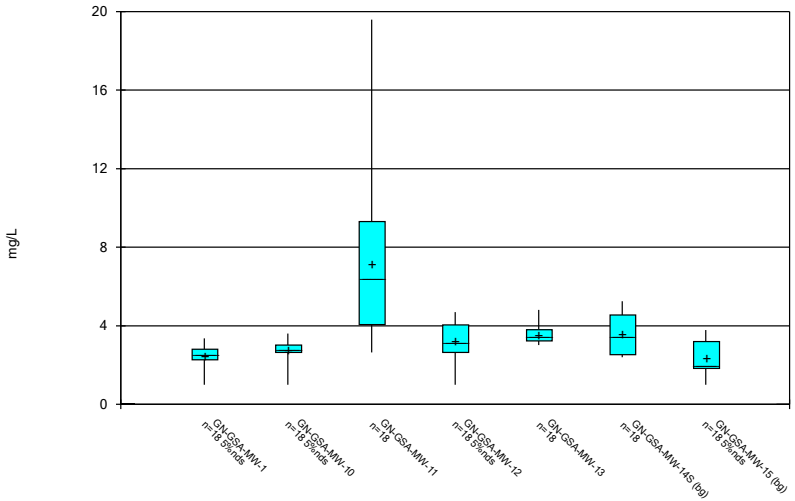


Constituent: Calcium Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Box & Whiskers Plot

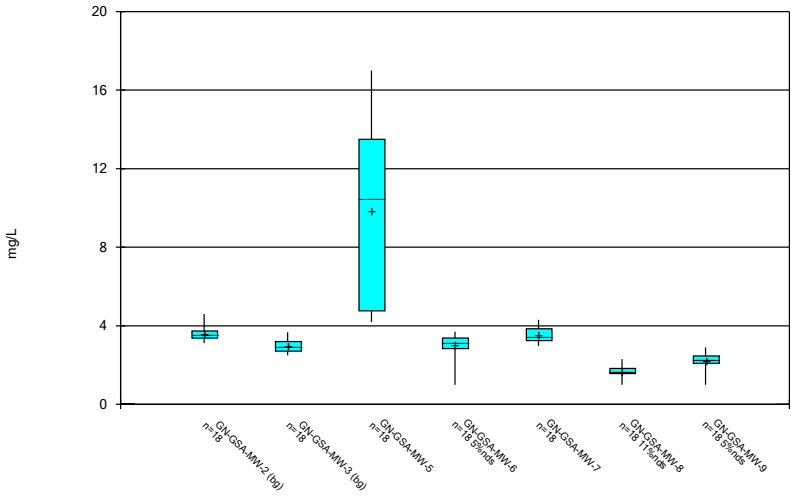


Constituent: Chloride Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

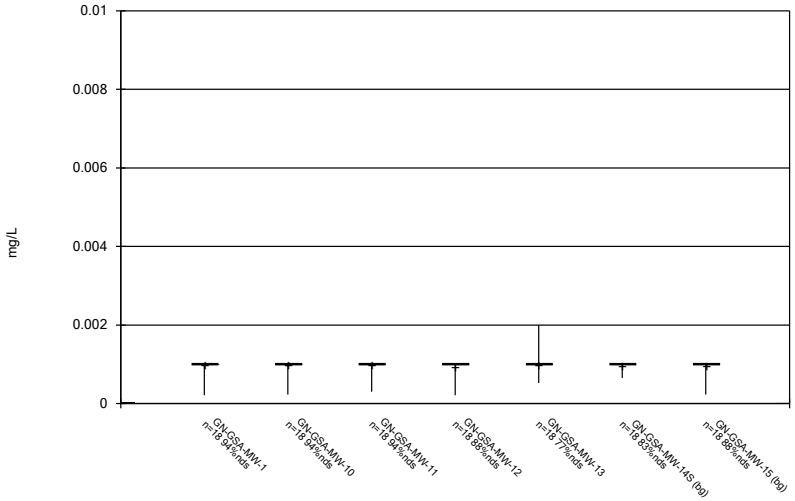
Box & Whiskers Plot



Constituent: Chloride Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Box & Whiskers Plot

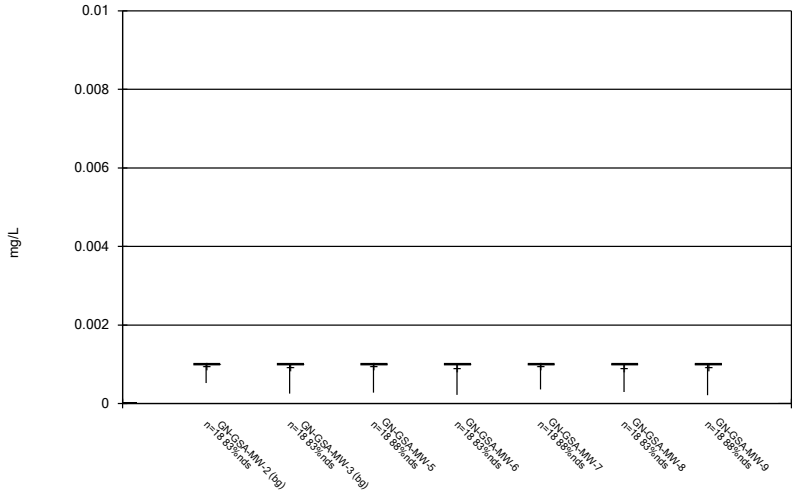


Constituent: Chromium Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Box & Whiskers Plot

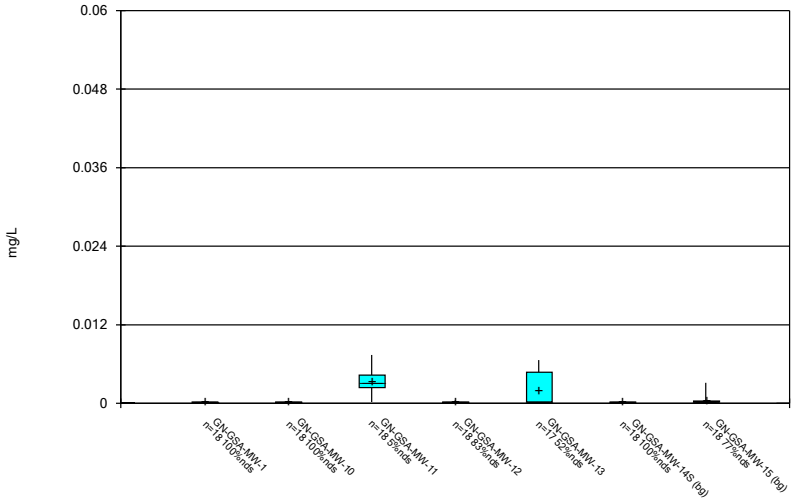


Constituent: Chromium Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Box & Whiskers Plot

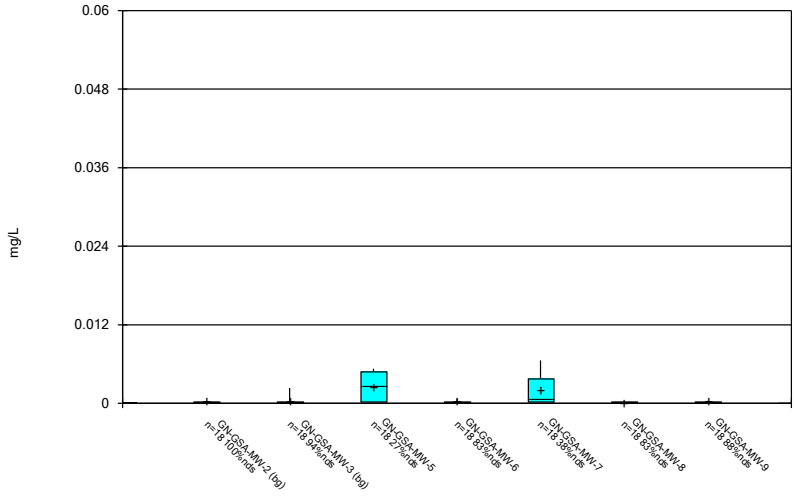


Constituent: Cobalt Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

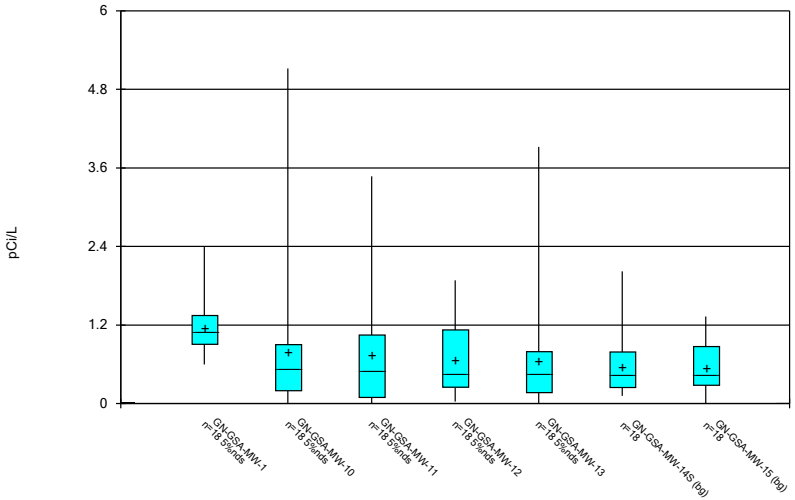
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Box & Whiskers Plot

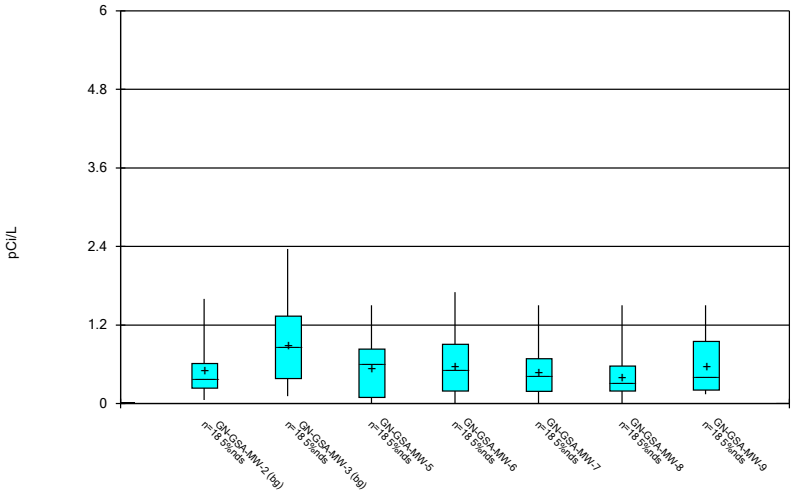


Constituent: Combined Radium 226 + 228 Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Box & Whiskers Plot

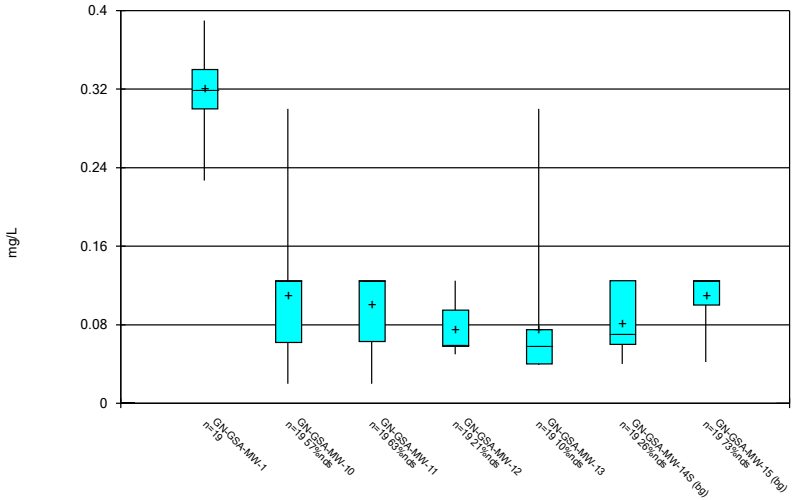


Constituent: Combined Radium 226 + 228 Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Box & Whiskers Plot

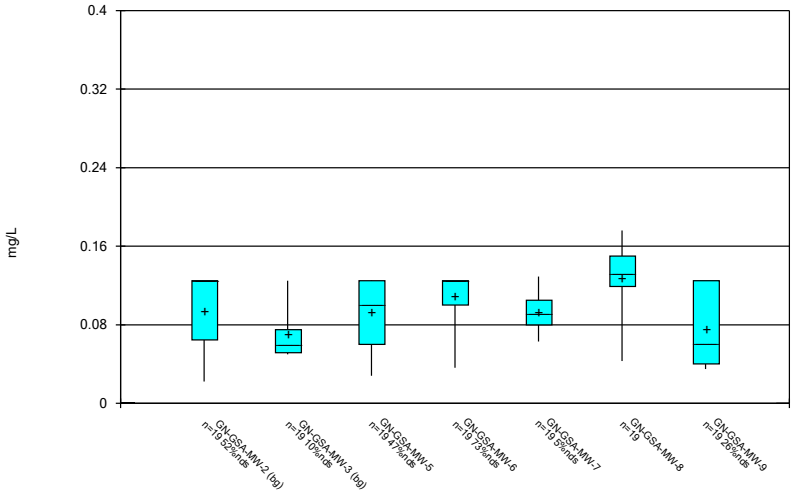


Constituent: Fluoride Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

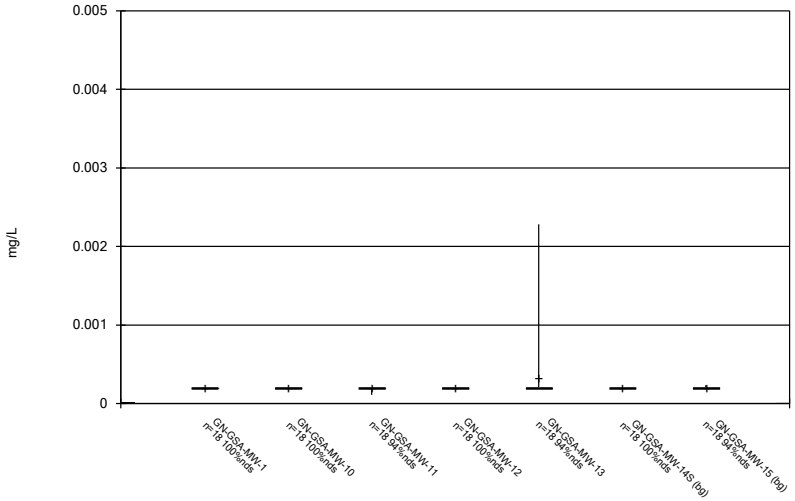
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Box & Whiskers Plot

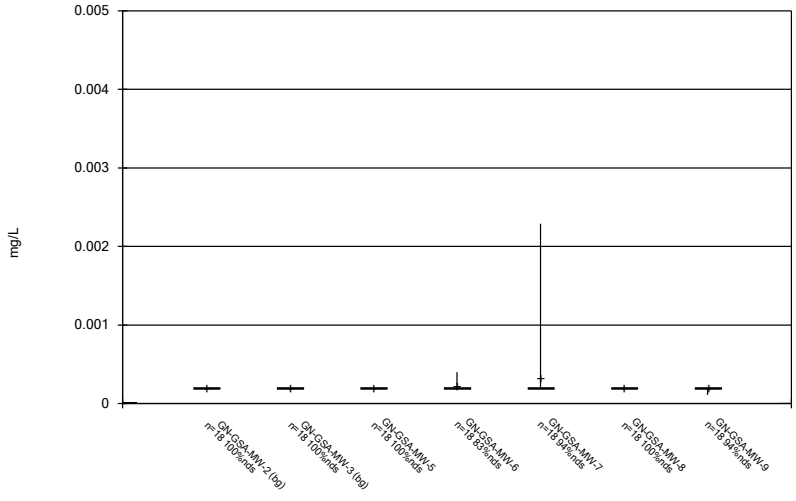


Constituent: Lead Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Box & Whiskers Plot

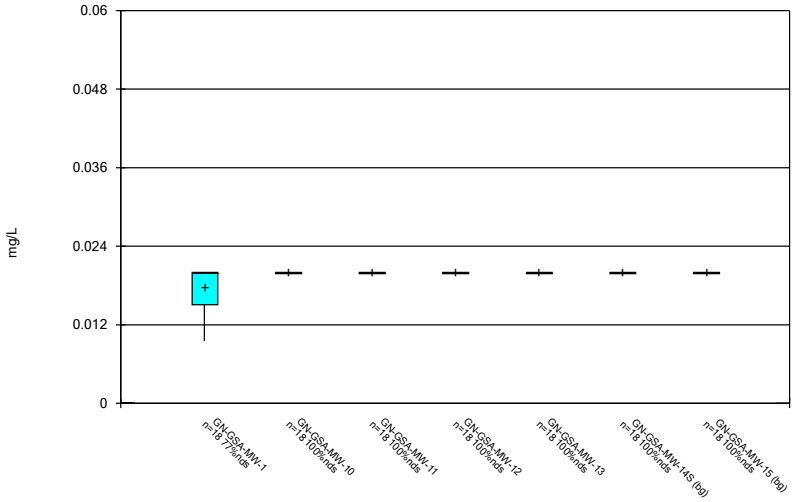


Constituent: Lead Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Box & Whiskers Plot

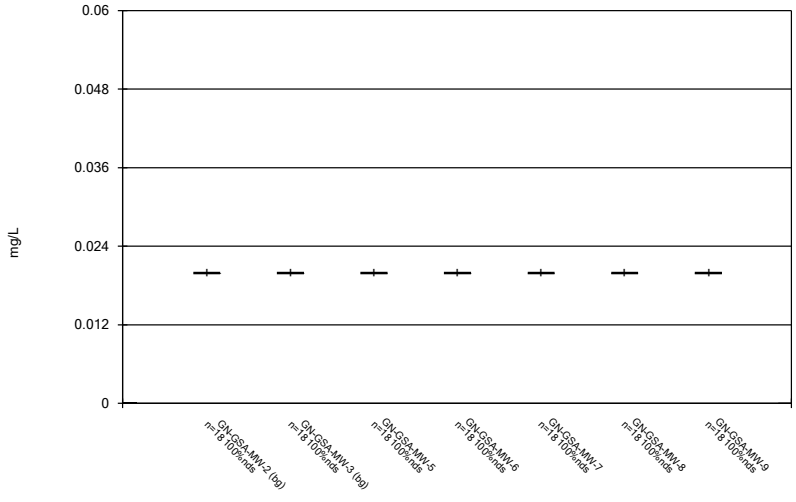


Constituent: Lithium Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

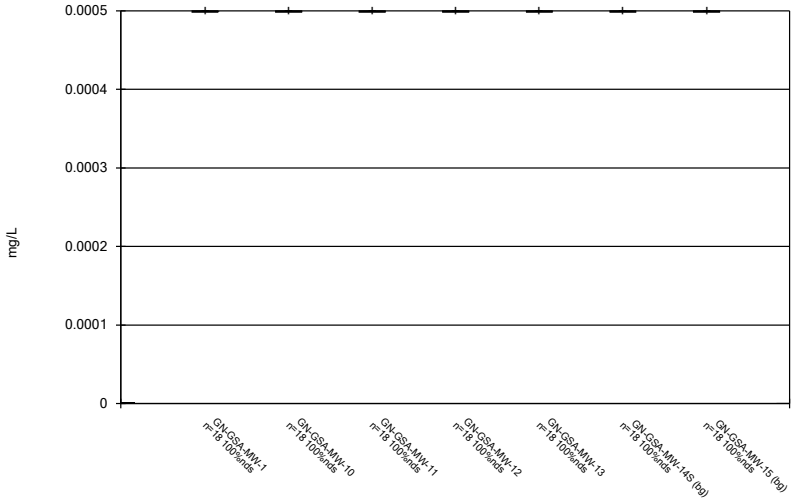
Box & Whiskers Plot



Constituent: Lithium Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Box & Whiskers Plot

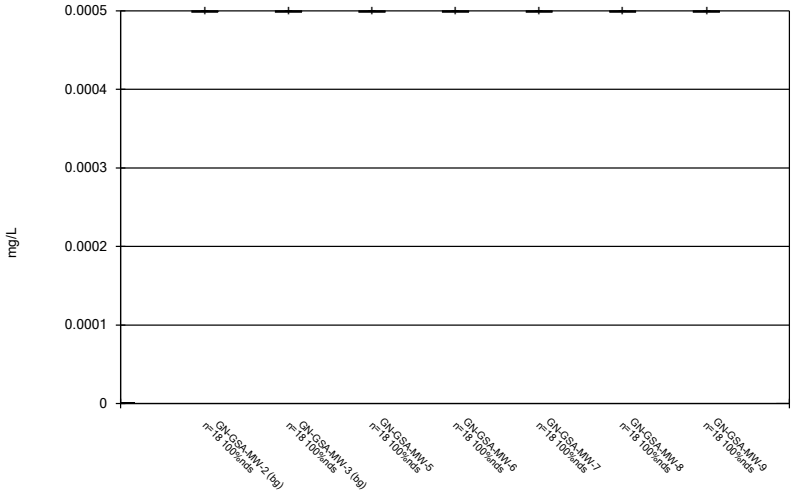


Constituent: Mercury Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Box & Whiskers Plot

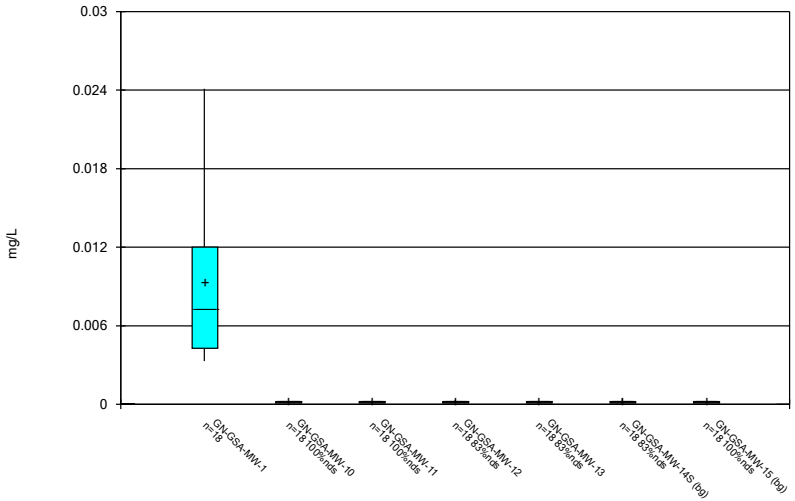


Constituent: Mercury Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Box & Whiskers Plot

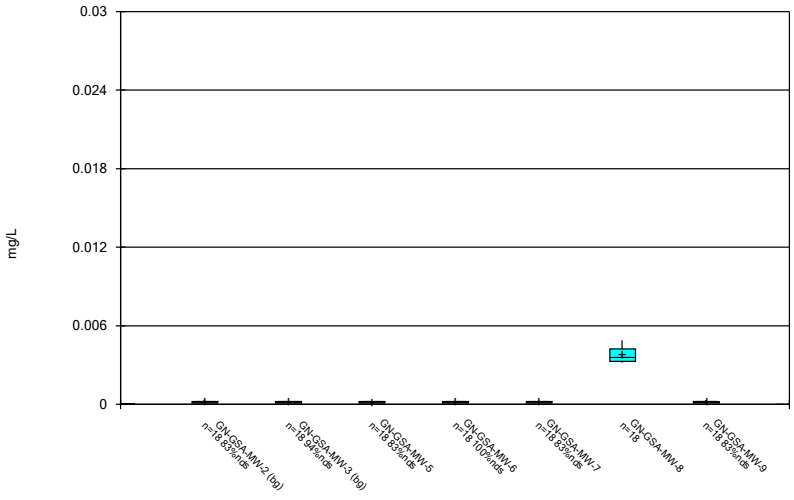


Constituent: Molybdenum Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

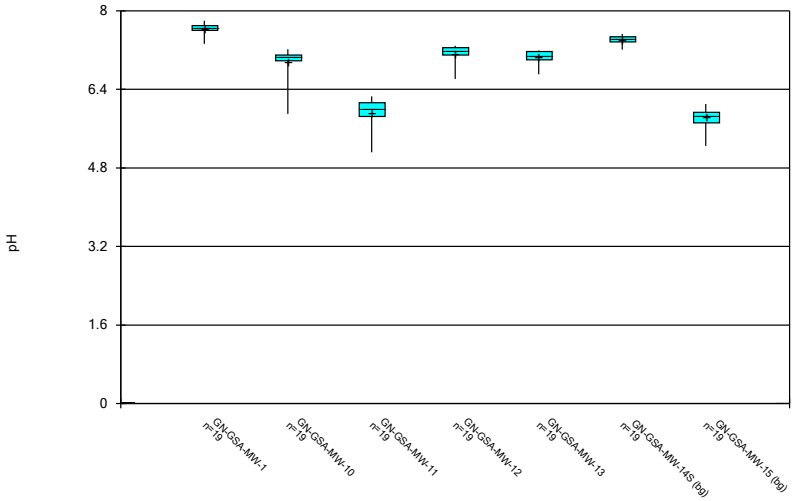
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Box & Whiskers Plot

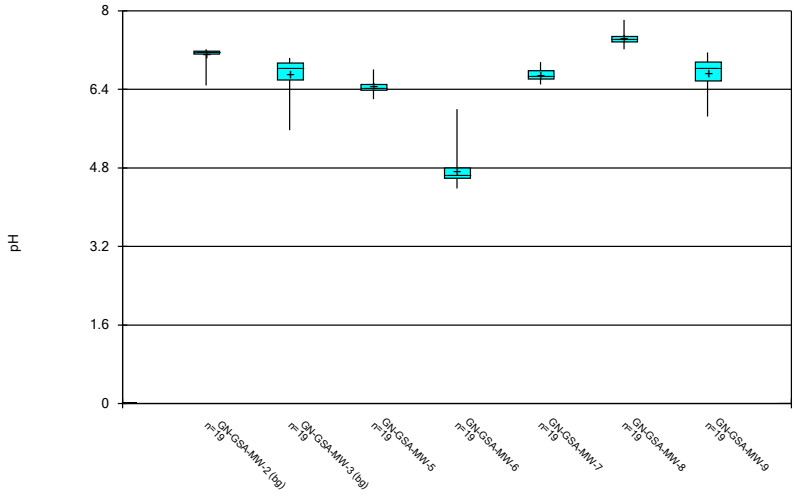


Constituent: pH Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Box & Whiskers Plot

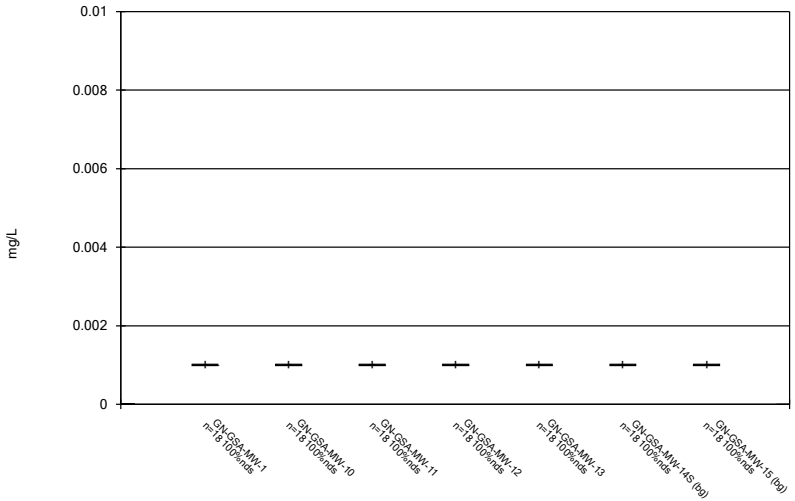


Constituent: pH Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Box & Whiskers Plot

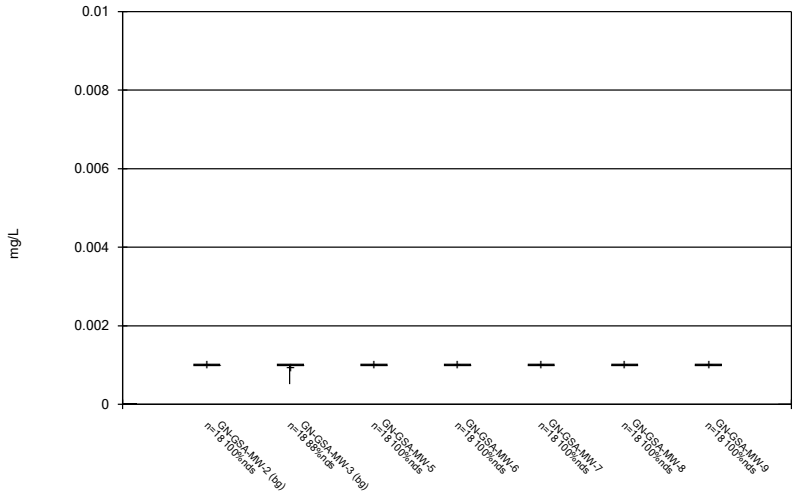


Constituent: Selenium Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Box & Whiskers Plot

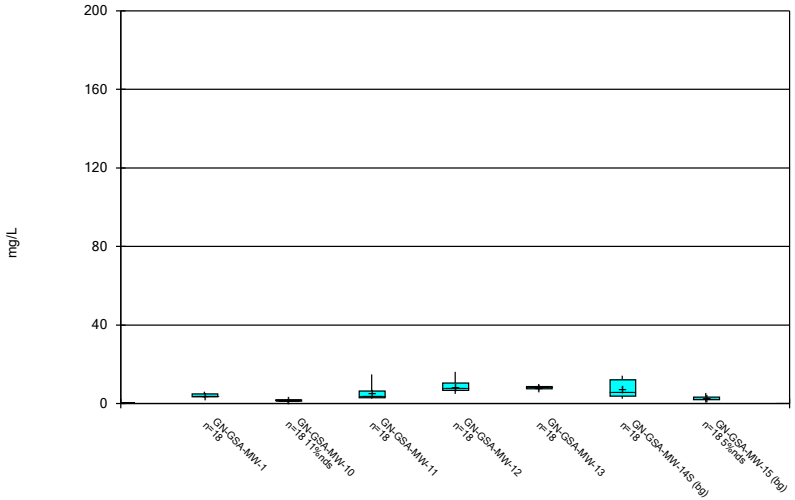


Constituent: Selenium Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Box & Whiskers Plot

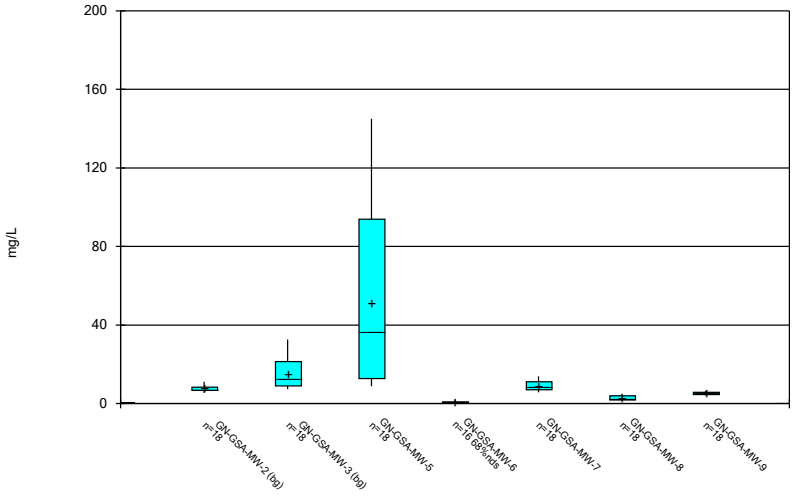


Constituent: Sulfate Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Box & Whiskers Plot

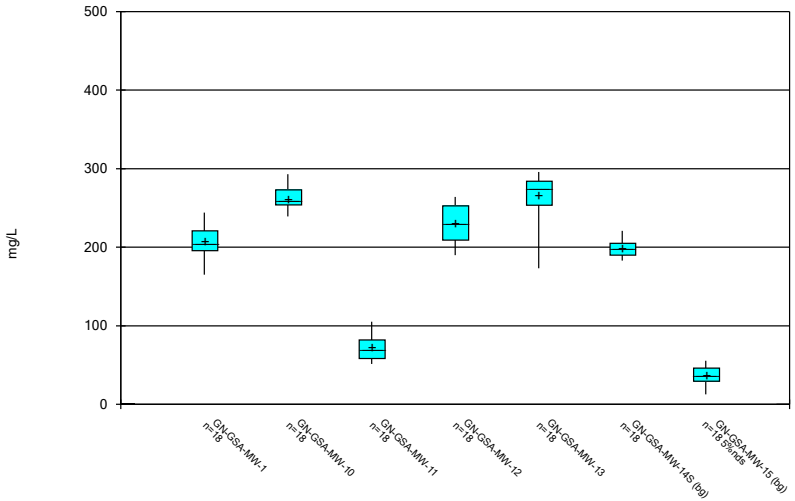


Constituent: Sulfate Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Box & Whiskers Plot

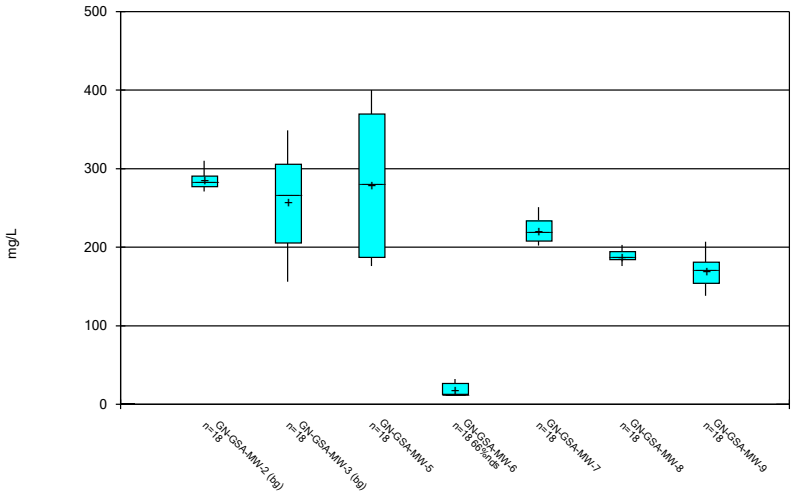


Constituent: TDS Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

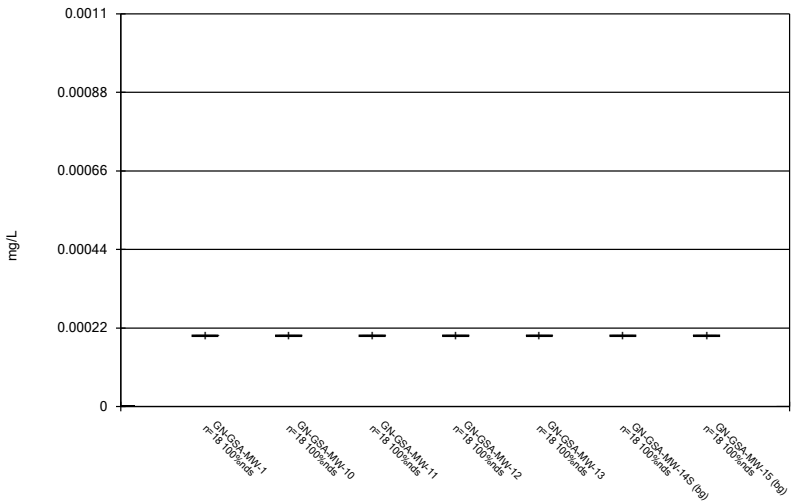
Box & Whiskers Plot



Constituent: TDS Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Box & Whiskers Plot

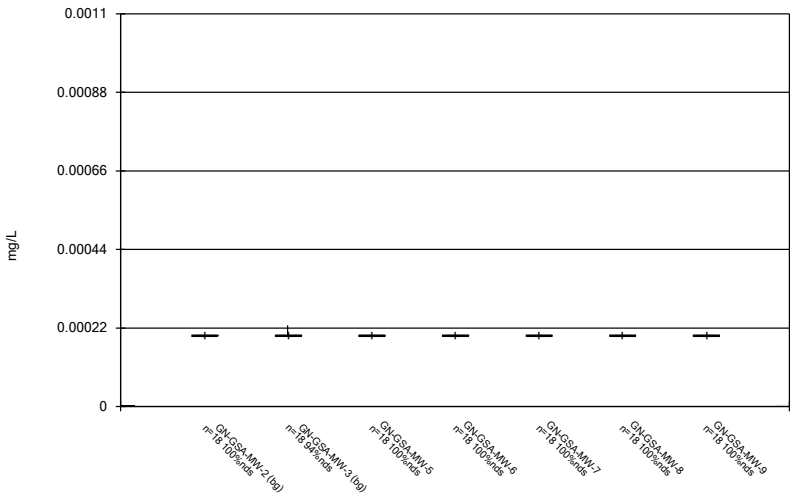


Constituent: Thallium Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Thallium Analysis Run 5/31/2022 10:25 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

FIGURE C.

Outlier Summary

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 5/31/2022, 9:57 AM

	GN-GSA-MW-1 Arsenic (mg/L)	GN-GSA-MW-13 Cobalt (mg/L)	GN-GSA-MW-6 Sulfate (mg/L)
3/24/2016	0.0444 (o)		
5/10/2016	0.041 (o)		
7/5/2016	0.0333 (o)		
2/20/2017			5 (o)
5/30/2017			5 (o)
5/21/2019		0.0578 (o)	

FIGURE D.

Intrawell Prediction Limits - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 5/31/2022, 10:04 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	**GN-GSA-MW-12**	**85.67**	**n/a**	**4/13/2022**	**88**	**Yes**	**16**	**69.87**	**6.624**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Calcium (mg/L)	**GN-GSA-MW-14S**	**57.44**	**n/a**	**4/13/2022**	**58.9**	**Yes**	**16**	**48.82**	**3.611**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Calcium (mg/L)	**GN-GSA-MW-5**	**71.16**	**n/a**	**4/12/2022**	**94.1**	**Yes**	**12**	**54.73**	**6.323**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Chloride (mg/L)	**GN-GSA-MW-11**	**7.709**	**n/a**	**4/13/2022**	**19.6**	**Yes**	**9**	**4.269**	**1.162**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Sulfate (mg/L)	**GN-GSA-MW-5**	**37.06**	**n/a**	**4/12/2022**	**145**	**Yes**	**9**	**15.51**	**7.278**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Sulfate (mg/L)	**GN-GSA-MW-8**	**2.935**	**n/a**	**4/12/2022**	**3.13**	**Yes**	**9**	**1.843**	**0.3686**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
TDS (mg/L)	**GN-GSA-MW-5**	**295.1**	**n/a**	**4/12/2022**	**400**	**Yes**	**9**	**203.3**	**30.98**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**

Intrawell Prediction Limits - All Results

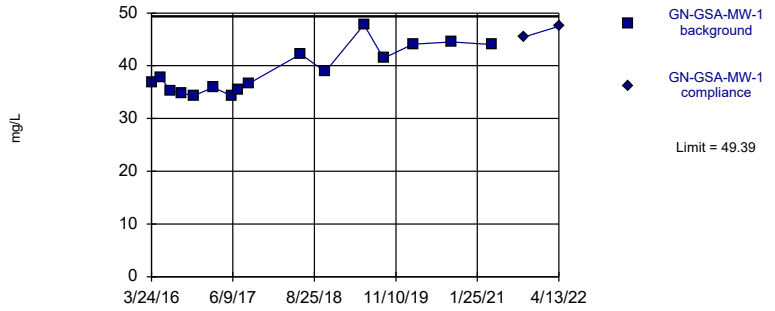
Plant Gaston Client: Southern Company Data: Gaston GSA Printed 5/31/2022, 10:04 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	GN-GSA-MW-1	49.39	n/a	4/13/2022	47.5	No	16	39.03	4.343	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-10	108.2	n/a	4/13/2022	107	No	16	95.87	5.157	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-11	15.67	n/a	4/13/2022	15	No	16	10.74	2.063	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	**GN-GSA-MW-12**	**85.67**	**n/a**	**4/13/2022**	**88**	**Yes**	**16**	**69.87**	**6.624**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Calcium (mg/L)	GN-GSA-MW-13	109.8	n/a	4/13/2022	91.8	No	16	88.63	8.857	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	**GN-GSA-MW-14S**	**57.44**	**n/a**	**4/13/2022**	**58.9**	**Yes**	**16**	**48.82**	**3.611**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Calcium (mg/L)	GN-GSA-MW-15	11.1	n/a	4/12/2022	4.59	No	16	7.273	1.606	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-2	96.06	n/a	4/12/2022	87.1	No	16	81.49	6.104	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-3	125.5	n/a	4/12/2022	55.1	No	16	84.59	17.13	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	**GN-GSA-MW-5**	**71.16**	**n/a**	**4/12/2022**	**94.1**	**Yes**	**12**	**54.73**	**6.323**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Calcium (mg/L)	GN-GSA-MW-6	1.491	n/a	4/12/2022	0.516	No	16	0.867	0.2613	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-7	76.85	n/a	4/12/2022	71.2	No	16	65.81	4.63	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-8	61.1	n/a	4/12/2022	54.4	No	16	55.91	2.177	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-9	67.34	n/a	4/12/2022	50.4	No	16	50.56	7.034	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-1	3.72	n/a	4/13/2022	2.17	No	16	2.492	0.5148	6.25	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-10	3.733	n/a	4/13/2022	2.77	No	16	7.867	2.545	6.25	None	x^2	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	**GN-GSA-MW-11**	**7.709**	**n/a**	**4/13/2022**	**19.6**	**Yes**	**9**	**4.269**	**1.162**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Chloride (mg/L)	GN-GSA-MW-12	5.443	n/a	4/13/2022	3.76	No	16	3.16	0.9566	6.25	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-13	4.799	n/a	4/13/2022	3.01	No	16	3.594	0.5051	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-14S	5.899	n/a	4/13/2022	2.42	No	16	3.731	0.9087	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-15	4.314	n/a	4/12/2022	1.88	No	16	2.366	0.8163	6.25	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-2	4.633	n/a	4/12/2022	3.23	No	16	3.649	0.4125	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-3	3.779	n/a	4/12/2022	2.67	No	16	2.981	0.3341	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-5	21.16	n/a	4/12/2022	7.35	No	16	10.05	4.656	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-6	4.019	n/a	4/12/2022	3.38	No	16	9.249	2.894	6.25	None	x^2	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-7	4.585	n/a	4/12/2022	3.29	No	16	3.546	0.4352	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-8	2.505	n/a	4/12/2022	1.54	No	16	1.679	0.3463	12.5	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-9	3.098	n/a	4/12/2022	1.91	No	16	5.326	1.791	6.25	None	x^2	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-1	6.359	n/a	4/13/2022	4.24	No	16	4.188	0.9103	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-10	2.255	n/a	4/13/2022	1.68J	No	16	4.979	2.722	12.5	None	x^3	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-11	14.58	n/a	4/13/2022	2.73	No	16	2.28	0.6446	0	None	sqrt(x)	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-12	16.13	n/a	4/13/2022	8.25	No	16	8.719	3.106	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-13	10.31	n/a	4/13/2022	7.27	No	16	8.234	0.871	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-14S	16.97	n/a	4/13/2022	2.44	No	16	7.728	3.872	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-15	5.392	n/a	4/12/2022	1.76J	No	16	2.705	1.126	6.25	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-2	11.38	n/a	4/12/2022	8.36	No	16	7.632	1.57	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-3	19.53	n/a	4/12/2022	7.36	No	11	11.88	2.842	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	**GN-GSA-MW-5**	**37.06**	**n/a**	**4/12/2022**	**145**	**Yes**	**9**	**15.51**	**7.278**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Sulfate (mg/L)	GN-GSA-MW-6	1.89	n/a	4/12/2022	0.5ND	No	14	n/a	n/a	64.29	n/a	n/a	0.008612	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	GN-GSA-MW-7	14.59	n/a	4/12/2022	5.75	No	16	9.522	2.123	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	**GN-GSA-MW-8**	**2.935**	**n/a**	**4/12/2022**	**3.13**	**Yes**	**9**	**1.843**	**0.3686**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Sulfate (mg/L)	GN-GSA-MW-9	6.776	n/a	4/12/2022	4.09	No	16	5.406	0.5742	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-1	259.7	n/a	4/13/2022	217	No	16	207.7	21.8	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-10	274	n/a	4/13/2022	273	No	9	251.8	7.496	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-11	105.2	n/a	4/13/2022	84	No	16	70.39	14.61	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-12	281.5	n/a	4/13/2022	250	No	16	226.9	22.87	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-13	317.1	n/a	4/13/2022	266	No	16	1.9e7	5203459	0	None	x^3	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-14S	224.5	n/a	4/13/2022	187	No	16	200.8	9.97	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-15	60.07	n/a	4/12/2022	27.3	No	16	39.45	8.643	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-2	309	n/a	4/12/2022	271	No	16	285.3	9.95	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-3	388.2	n/a	4/12/2022	156	No	16	268.7	50.11	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	**GN-GSA-MW-5**	**295.1**	**n/a**	**4/12/2022**	**400**	**Yes**	**9**	**203.3**	**30.98**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
TDS (mg/L)	GN-GSA-MW-6	30	n/a	4/12/2022	12.5ND	No	16	n/a	n/a	68.75	n/a	n/a	0.006456	NP Intra (NDs) 1 of 2
TDS (mg/L)	GN-GSA-MW-7	256.7	n/a	4/12/2022	214	No	16	220.7	15.11	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-8	202.5	n/a	4/12/2022	176	No	16	188.9	5.691	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-9	212	n/a	4/12/2022	155	No	16	170.2	17.53	0	None	No	0.0007523	Param Intra 1 of 2

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=39.03, Std. Dev.=4.343, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8917, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Calcium Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

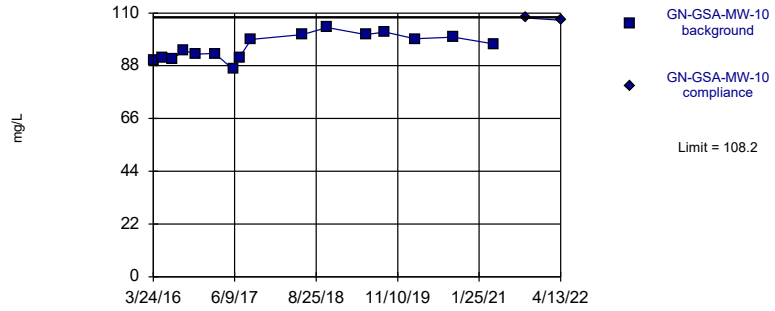
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=95.87, Std. Dev.=5.157, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9448, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Calcium Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

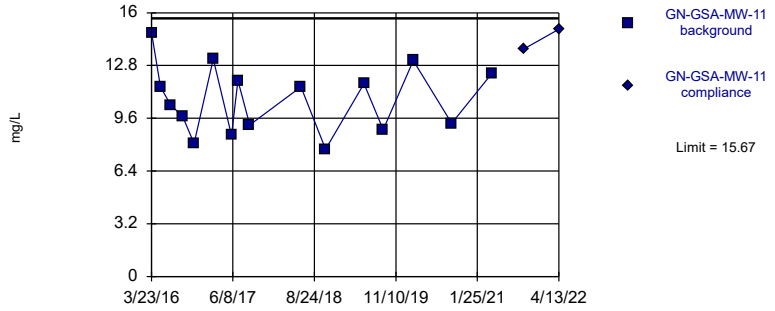
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=10.74, Std. Dev.=2.063, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9586, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Calcium Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

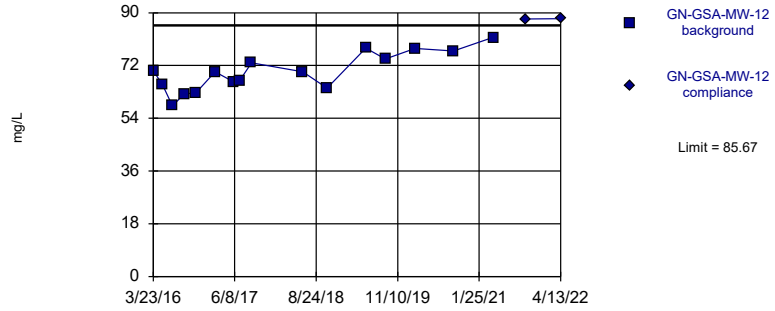
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=69.87, Std. Dev.=6.624, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9738, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

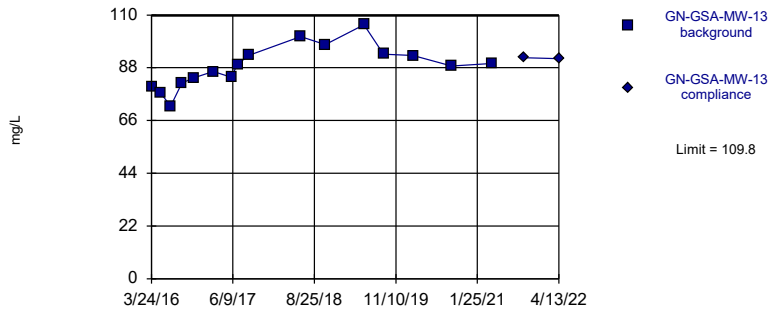
Constituent: Calcium Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=88.63, Std. Dev.=8.857, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9929, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

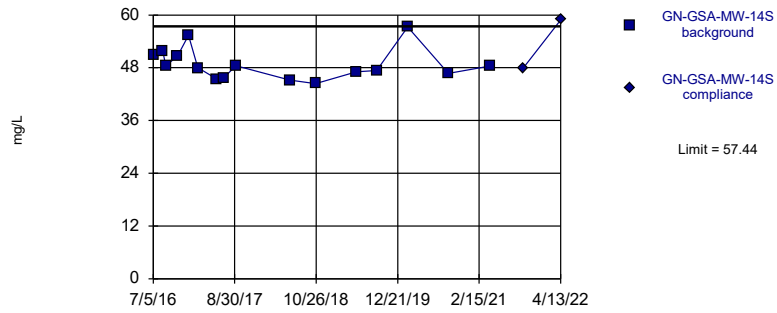
Constituent: Calcium Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=48.82, Std. Dev.=3.611, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8963, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

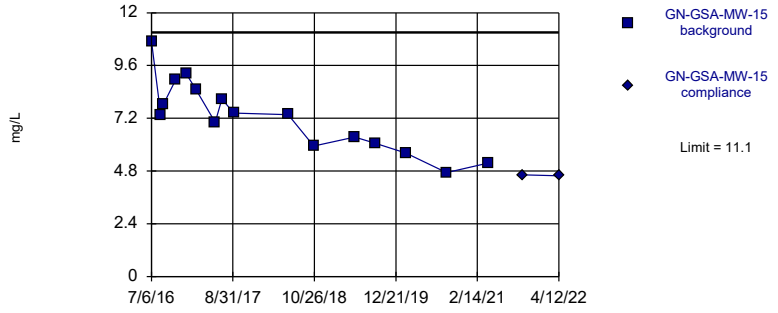
Constituent: Calcium Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.273, Std. Dev.=1.606, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9799, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

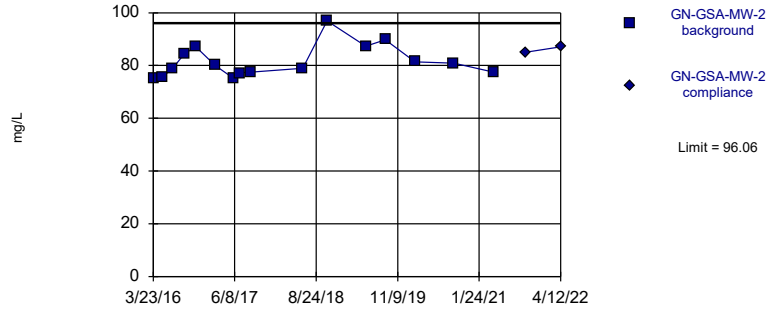
Constituent: Calcium Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=81.49, Std. Dev.=6.104, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.876, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

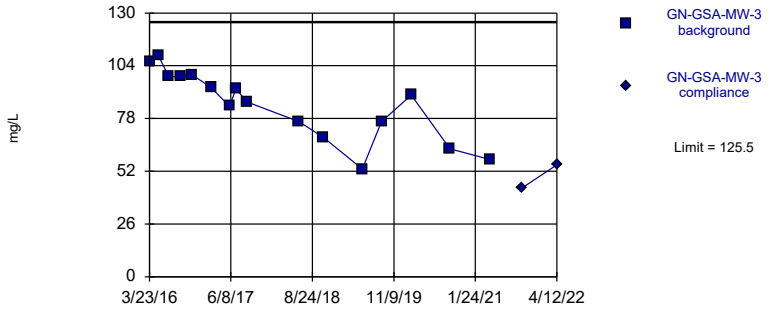
Constituent: Calcium Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=84.59, Std. Dev.=17.13, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9492, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

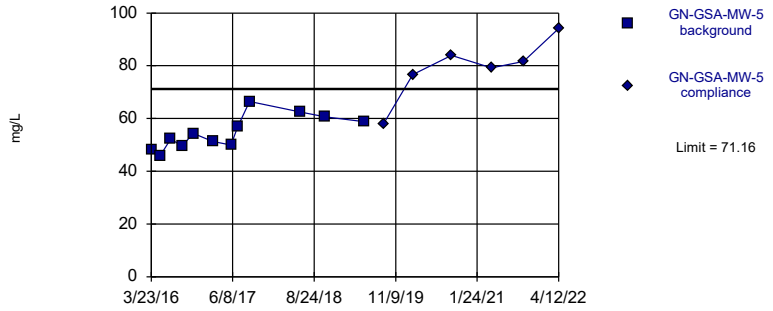
Constituent: Calcium Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=54.73, Std. Dev.=6.323, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.957, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

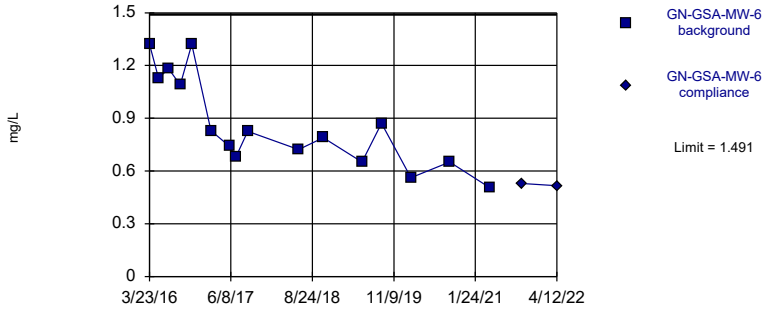
Constituent: Calcium Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.867, Std. Dev.=0.2613, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9137, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

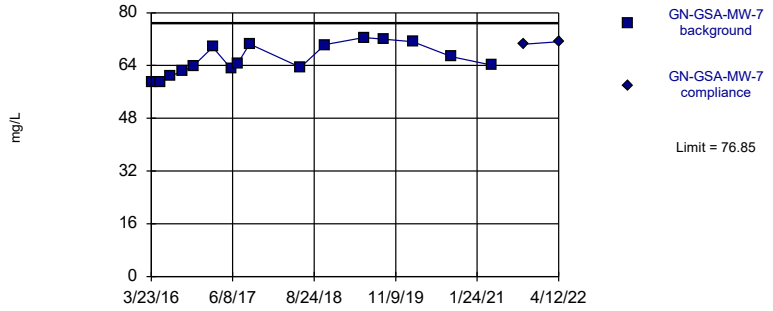
Constituent: Calcium Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=65.81, Std. Dev.=4.63, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9195, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Calcium Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

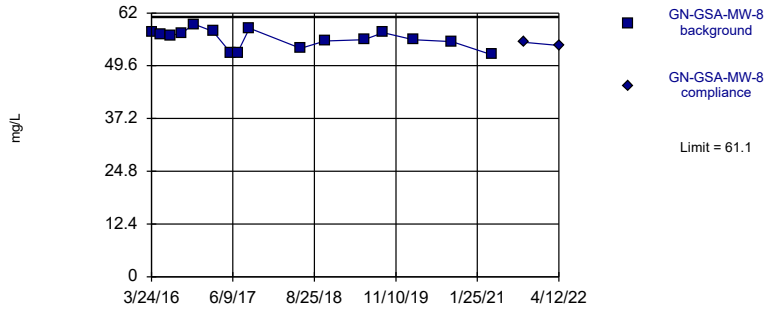
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=55.91, Std. Dev.=2.177, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9348, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Calcium Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

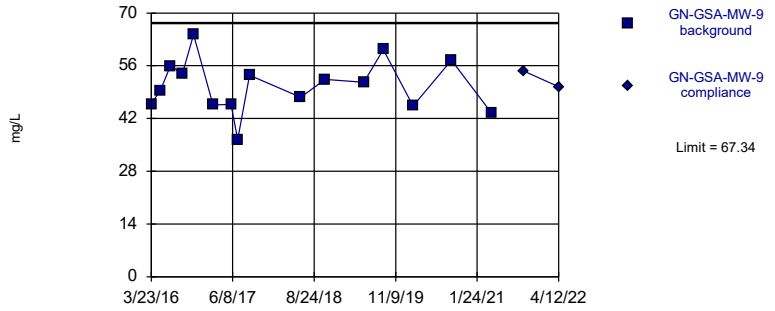
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=50.56, Std. Dev.=7.034, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9805, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Calcium Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

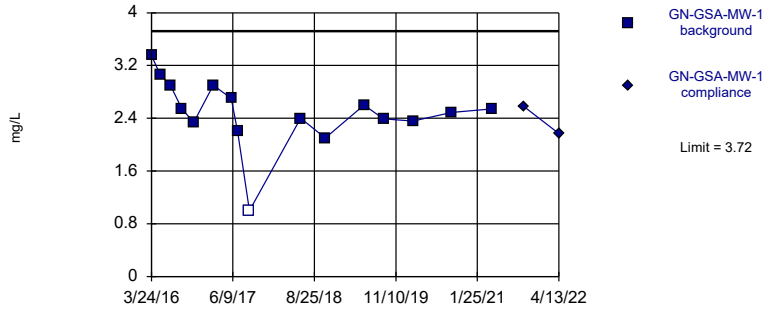
Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.492, Std. Dev.=0.5148, n=16, 6.25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8783, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Chloride Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

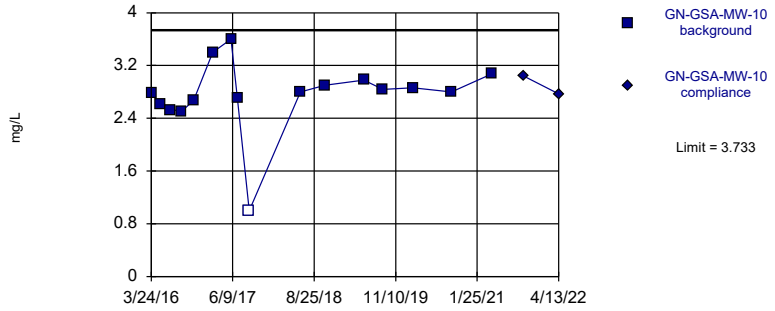
Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=7.867, Std. Dev.=2.545, n=16, 6.25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8763, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

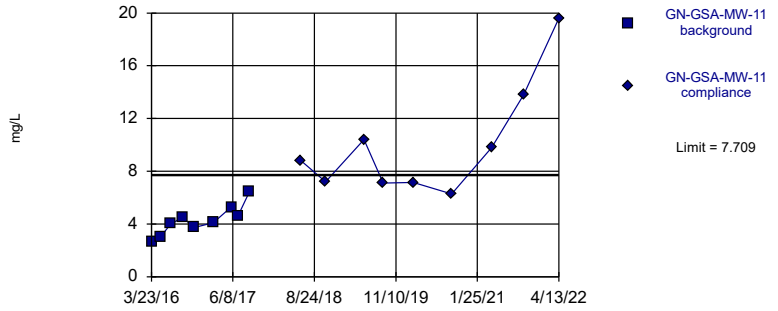
Constituent: Chloride Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=4.269, Std. Dev.=1.162, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9661, critical = 0.764. Kappa = 2.961 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Chloride Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

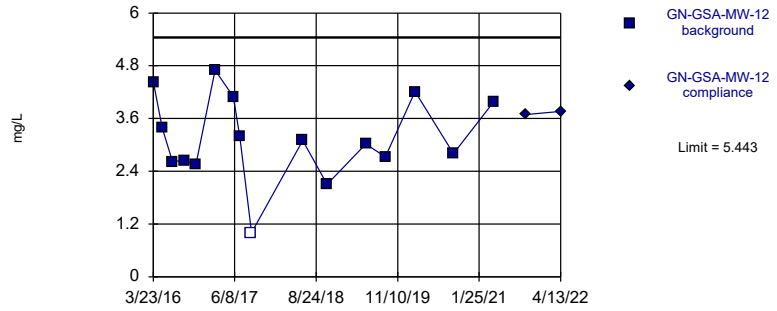
Plant Gaston Client: Southern Company Data: Gaston GSA

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=3.16, Std. Dev.=0.9566, n=16, 6.25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9569, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

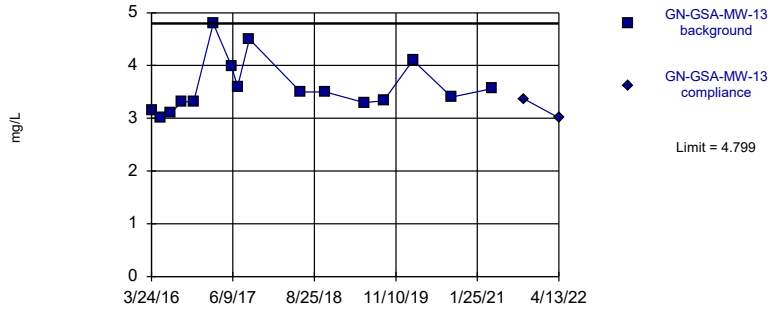
Constituent: Chloride Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=3.594, Std. Dev.=0.5051, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8575, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

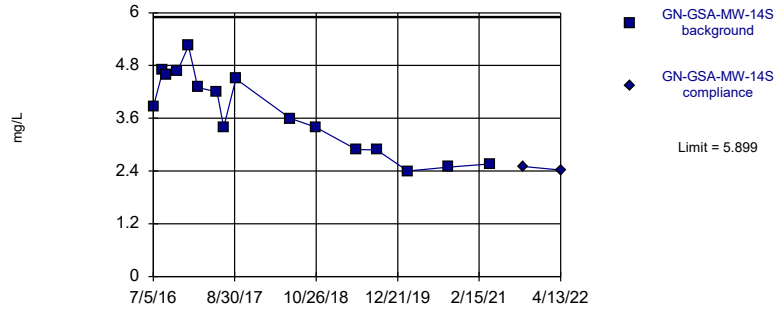
Constituent: Chloride Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=3.731, Std. Dev.=0.9087, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9381, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Chloride Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

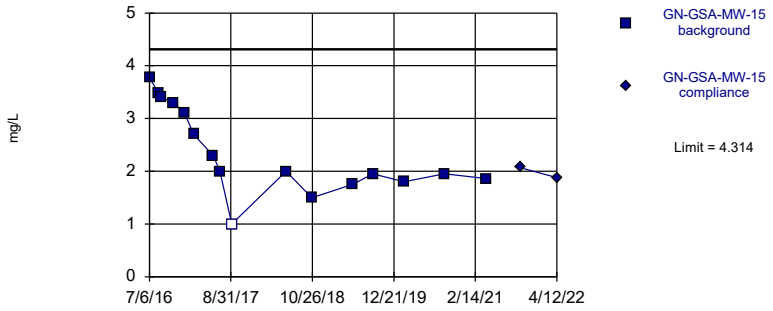
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.366, Std. Dev.=0.8163, n=16, 6.25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9218, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

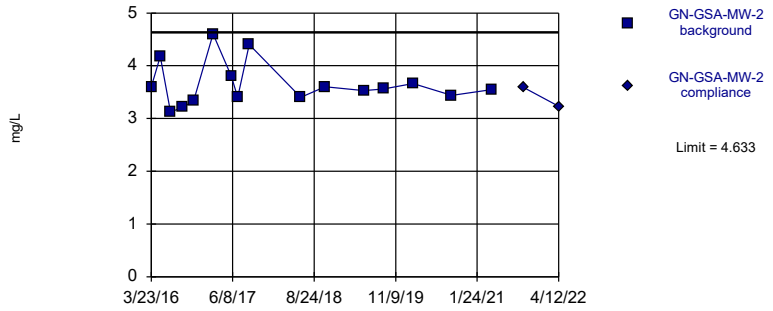
Constituent: Chloride Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=3.649, Std. Dev.=0.4125, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8696, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

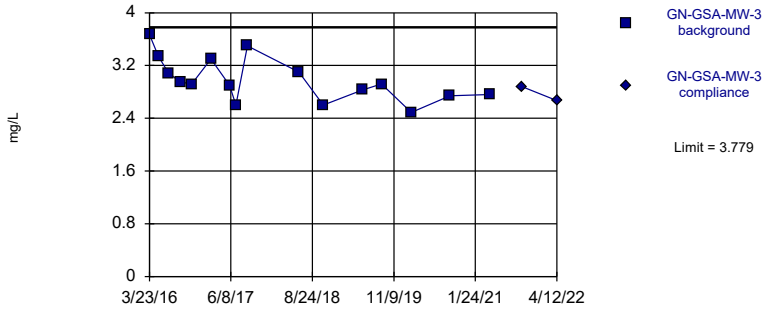
Constituent: Chloride Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.981, Std. Dev.=0.3341, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9557, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

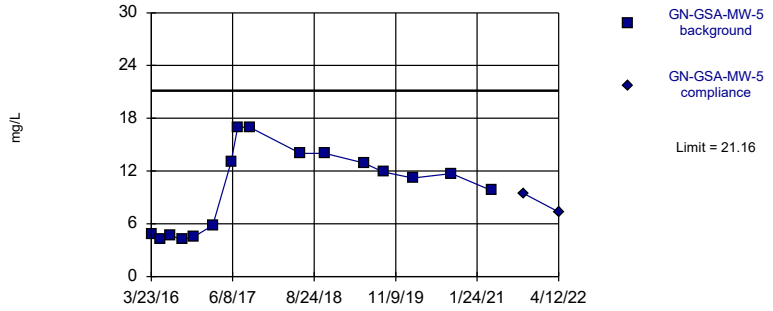
Constituent: Chloride Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=10.05, Std. Dev.=4.656, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8792, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

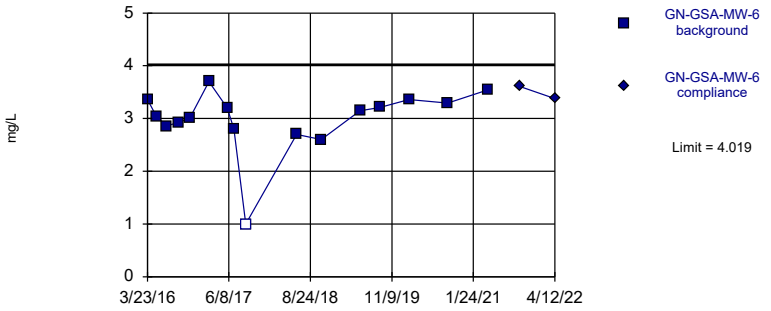
Constituent: Chloride Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=9.249, Std. Dev.=2.894, n=16, 6.25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9006, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

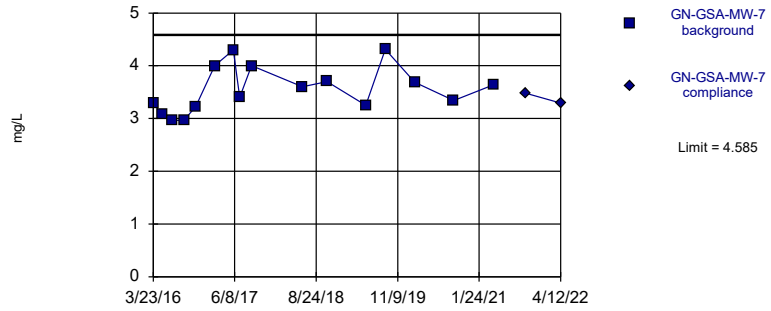
Constituent: Chloride Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=3.546, Std. Dev.=0.4352, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9366, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

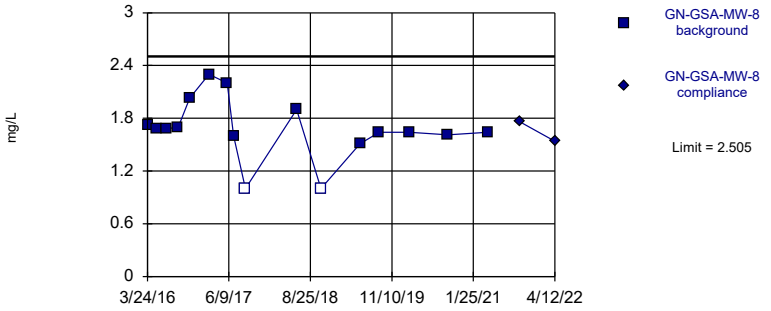
Constituent: Chloride Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.679, Std. Dev.=0.3463, n=16, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8939, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

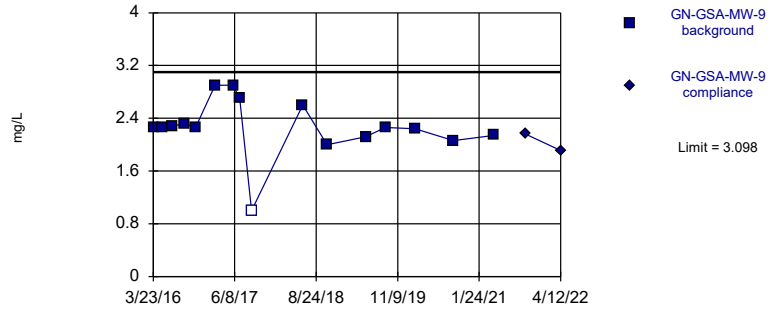
Constituent: Chloride Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



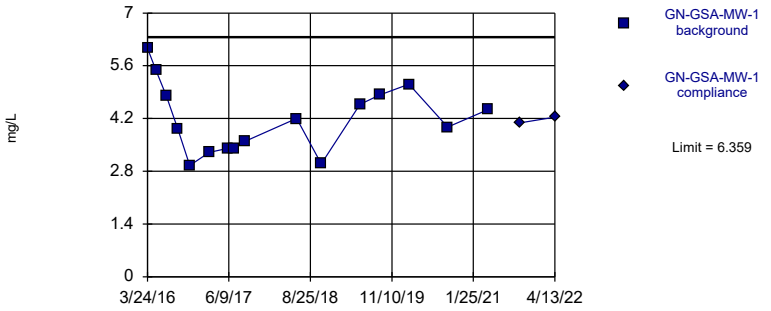
Background Data Summary (based on square transformation): Mean=5.326, Std. Dev.=1.791, n=16, 6.25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8883, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Chloride Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=4.188, Std. Dev.=0.9103, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9593, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Sulfate Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

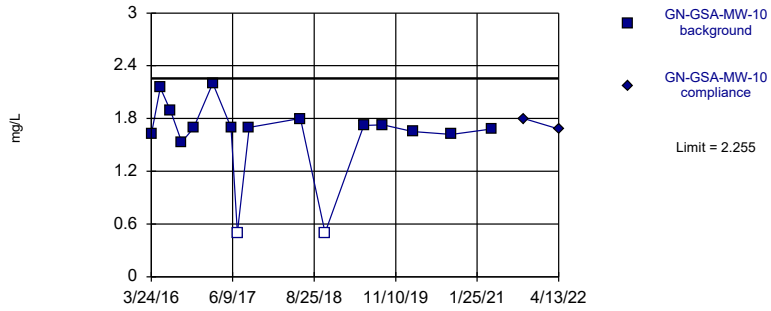
Plant Gaston Client: Southern Company Data: Gaston GSA

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=4.979, Std. Dev.=2.722, n=16, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.875, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

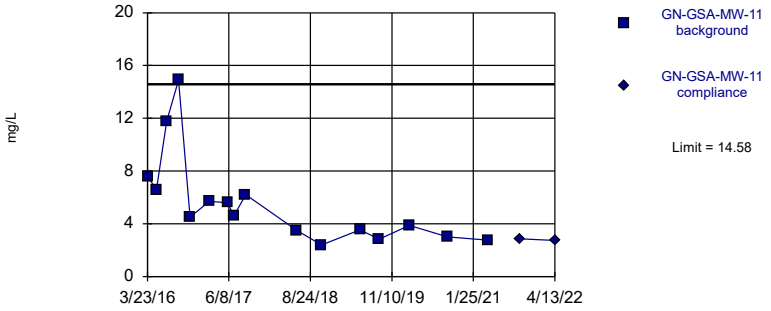
Constituent: Sulfate Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=2.28, Std. Dev.=0.6446, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8839, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

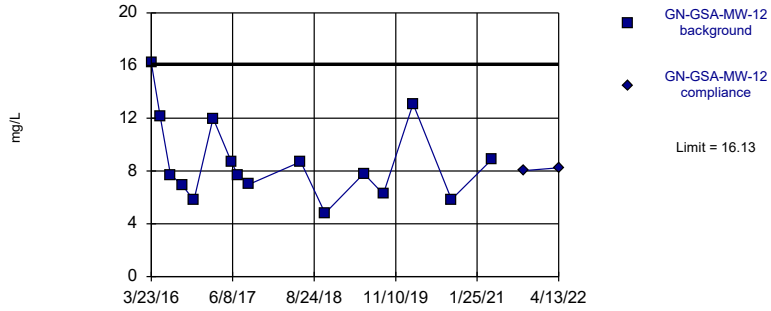
Constituent: Sulfate Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=8.719, Std. Dev.=3.106, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8938, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Sulfate Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

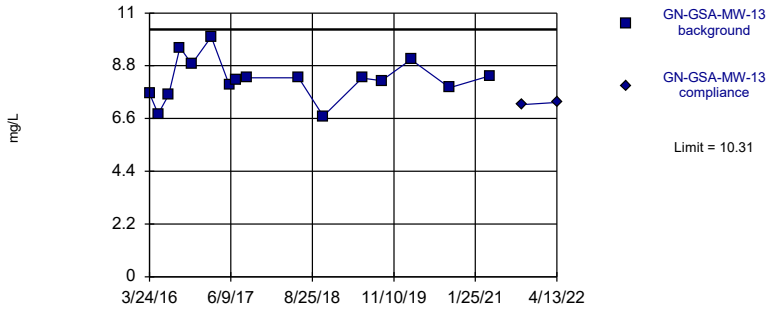
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=8.234, Std. Dev.=0.871, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9563, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Sulfate Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

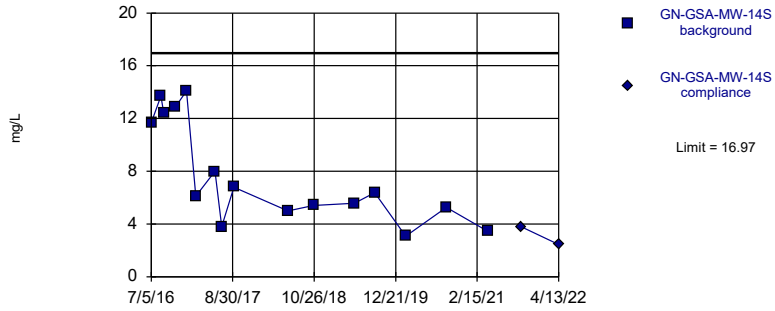
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.728, Std. Dev.=3.872, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8639, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Sulfate Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

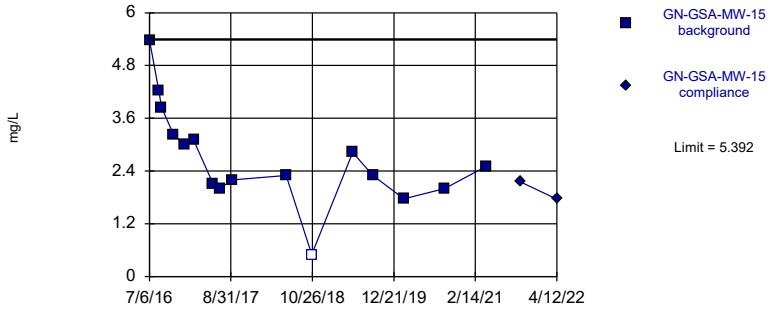
Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.705, Std. Dev.=1.126, n=16, 6.25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9448, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Sulfate Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

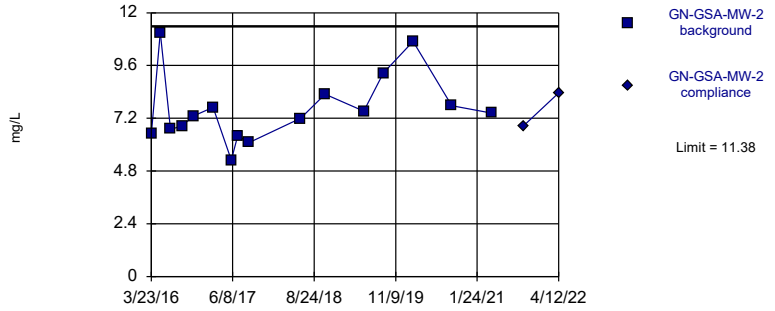
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.632, Std. Dev.=1.57, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9031, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Sulfate Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

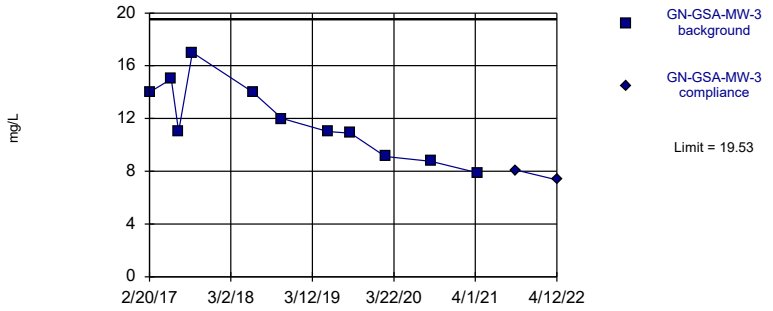
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=11.88, Std. Dev.=2.842, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9567, critical = 0.792. Kappa = 2.694 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Sulfate Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

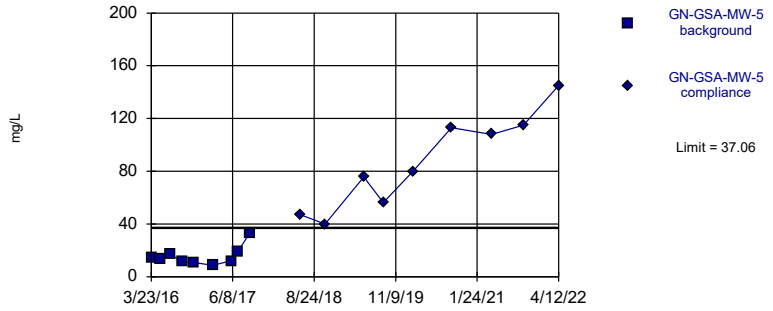
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=15.51, Std. Dev.=7.278, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7851, critical = 0.764. Kappa = 2.961 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Sulfate Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

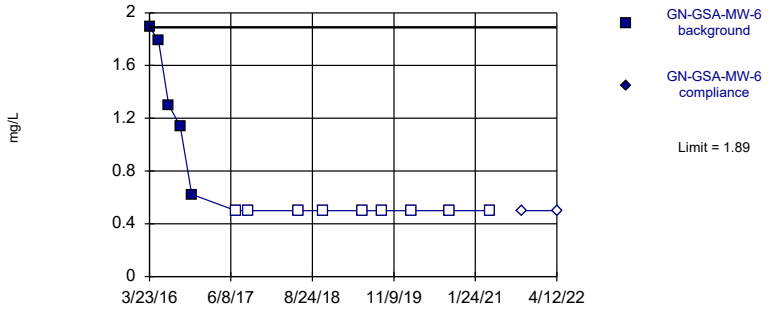
Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 64.29% NDs. Well-constituent pair annual alpha = 0.01715. Individual comparison alpha = 0.008612 (1 of 2).

Constituent: Sulfate Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

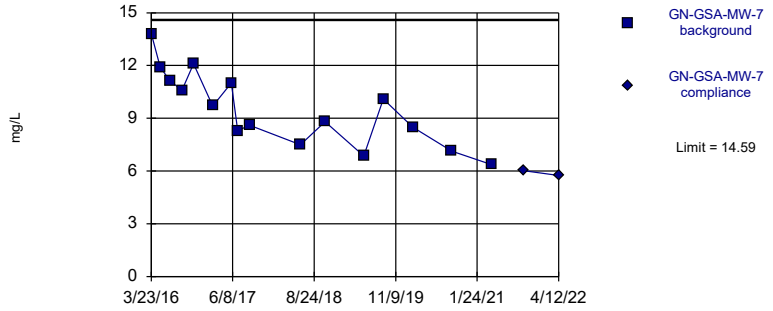
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=9.522, Std. Dev.=2.123, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9688, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

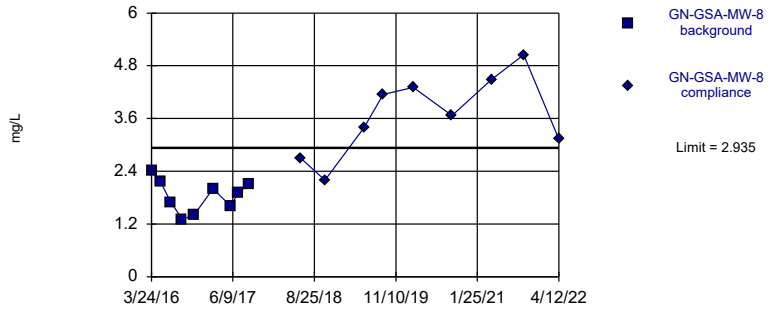
Constituent: Sulfate Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.843, Std. Dev.=0.3686, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9707, critical = 0.764. Kappa = 2.961 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Sulfate Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

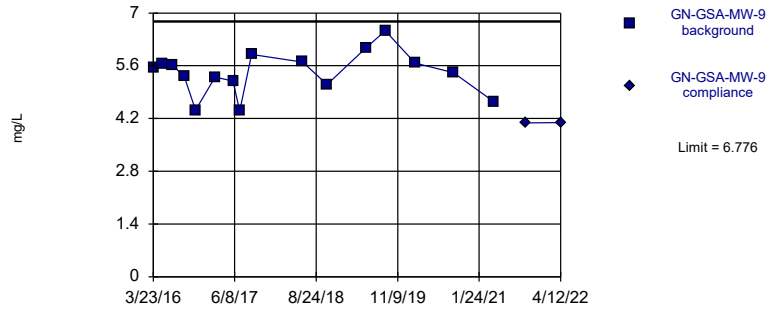
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=5.406, Std. Dev.=0.5742, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9576, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Sulfate Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

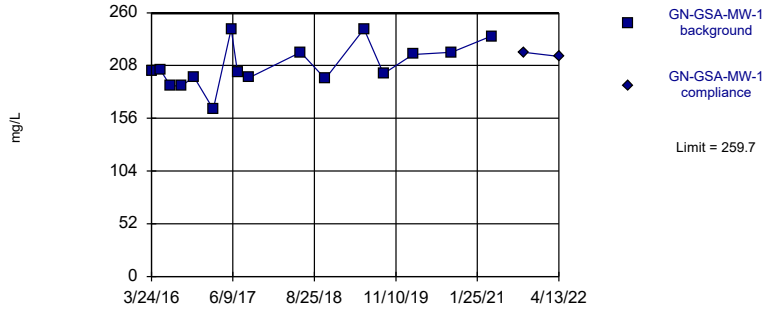
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=207.7, Std. Dev.=21.8, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9403, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: TDS Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

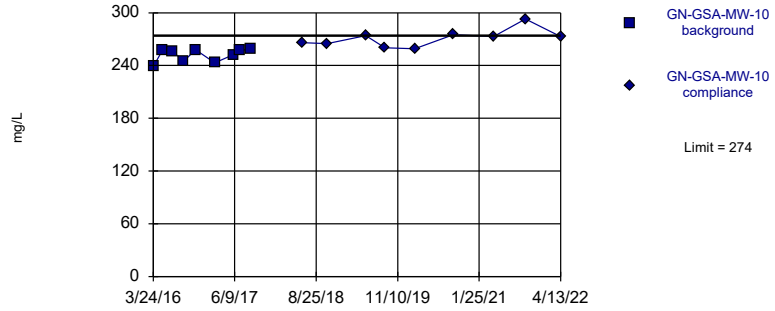
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=251.8, Std. Dev.=7.496, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8447, critical = 0.764. Kappa = 2.961 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

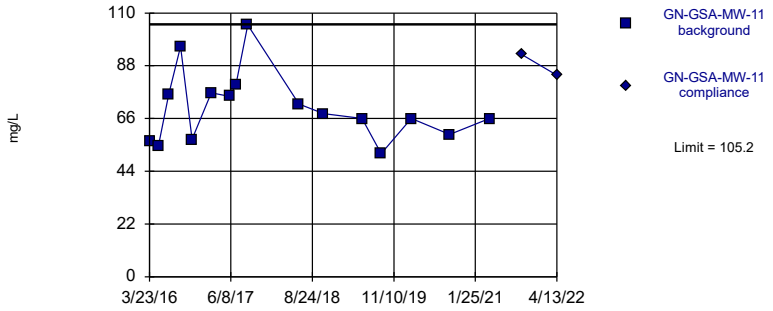
Constituent: TDS Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=70.39, Std. Dev.=14.61, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9153, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: TDS Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

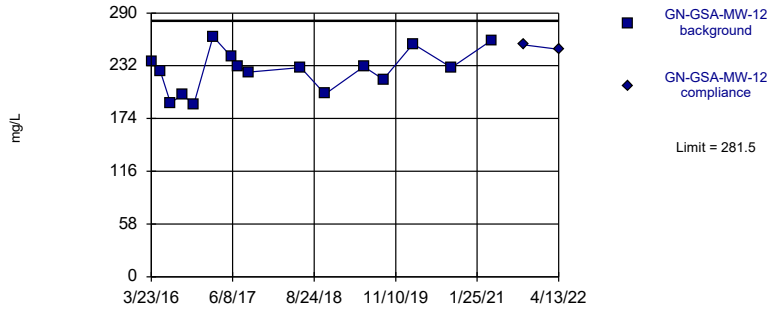
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=226.9, Std. Dev.=22.87, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9418, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: TDS Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

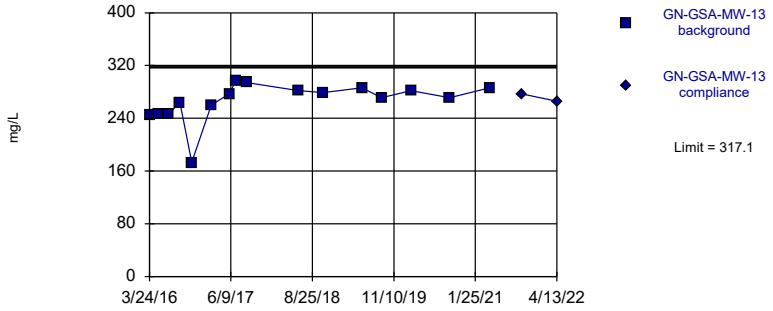
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=1.9e7, Std. Dev.=5203459, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8916, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: TDS Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

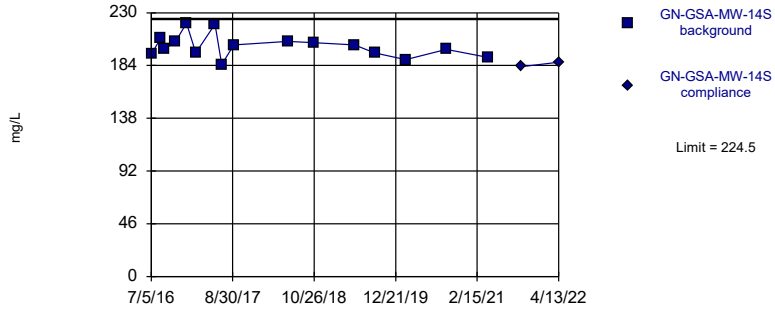
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=200.8, Std. Dev.=9.97, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9425, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: TDS Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell

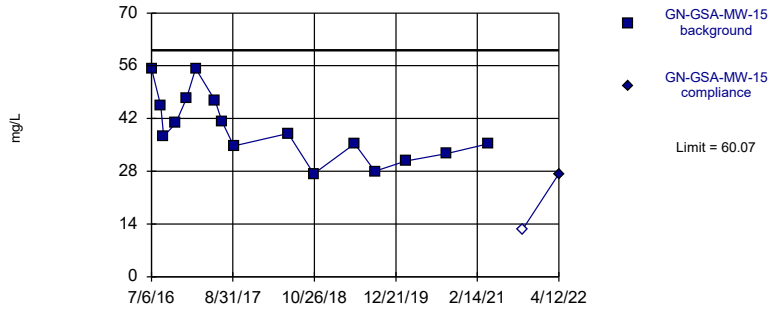
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=39.45, Std. Dev.=8.643, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9432, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

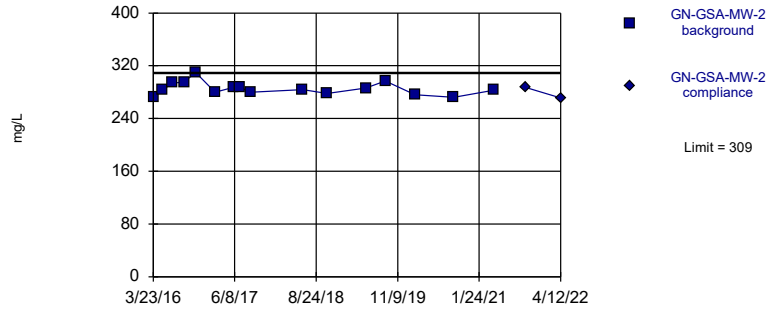
Constituent: TDS Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=285.3, Std. Dev.=9.95, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9341, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

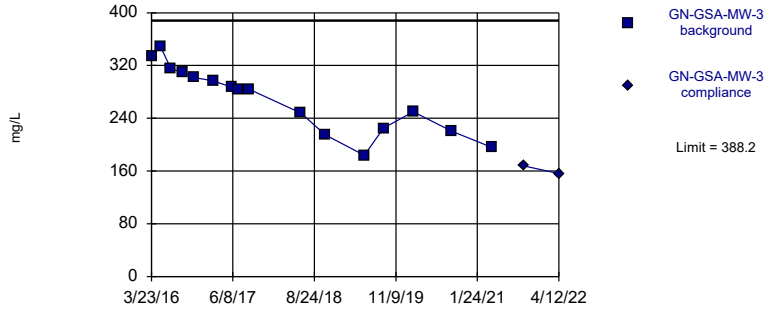
Constituent: TDS Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=268.7, Std. Dev.=50.11, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9568, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

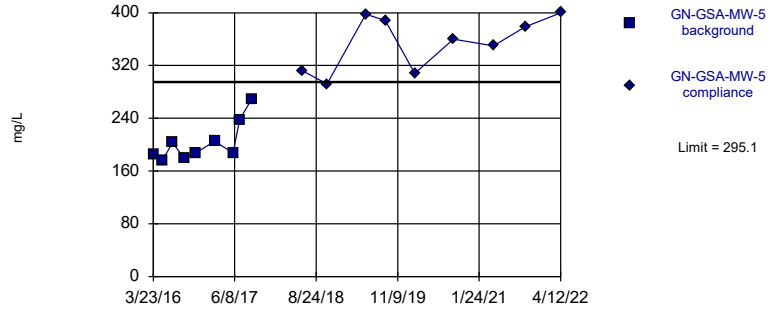
Constituent: TDS Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=203.3, Std. Dev.=30.98, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8137, critical = 0.764. Kappa = 2.961 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

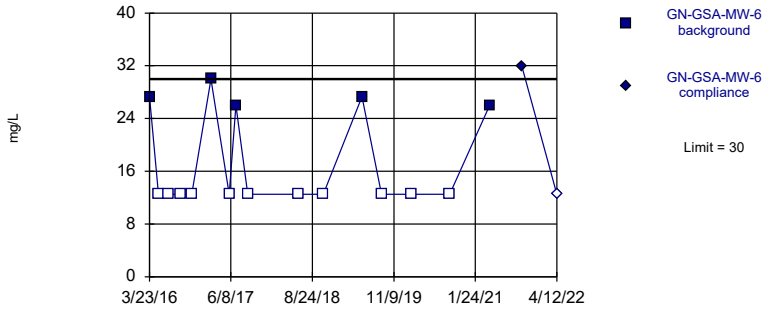
Constituent: TDS Analysis Run 5/31/2022 10:01 AM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 68.75% NDs. Well-constituent pair annual alpha = 0.01287. Individual comparison alpha = 0.006456 (1 of 2).

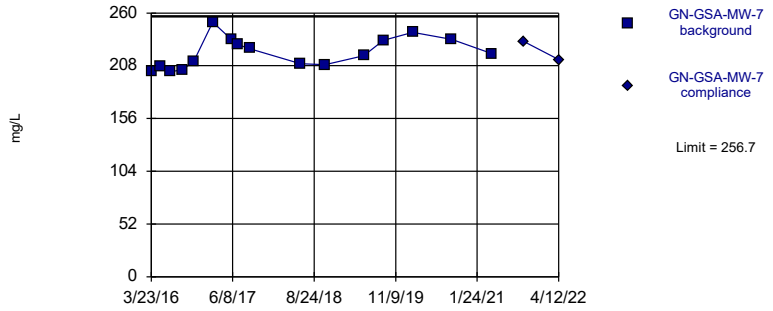
Constituent: TDS Analysis Run 5/31/2022 10:02 AM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=220.7, Std. Dev.=15.11, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9356, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

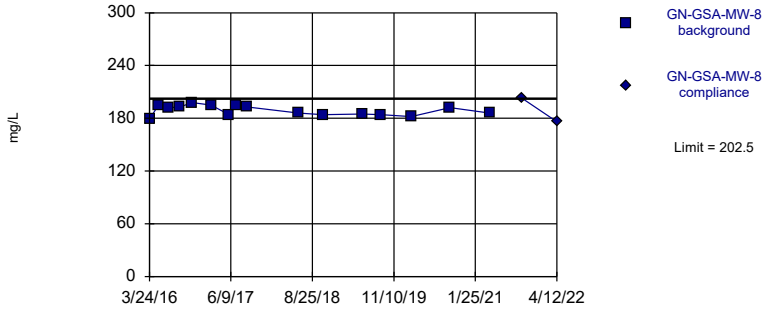
Constituent: TDS Analysis Run 5/31/2022 10:02 AM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=188.9, Std. Dev.=5.691, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9231, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

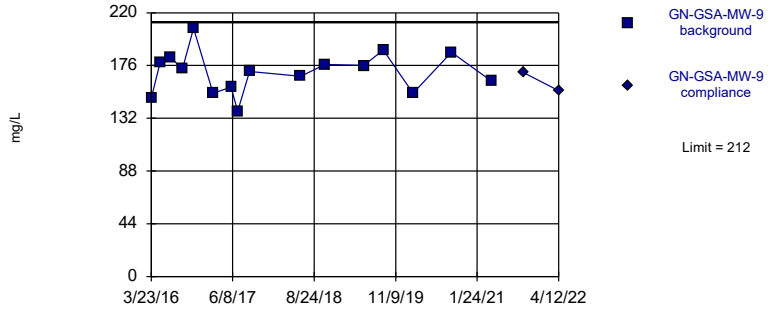
Constituent: TDS Analysis Run 5/31/2022 10:02 AM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=170.2, Std. Dev.=17.53, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9873, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: TDS Analysis Run 5/31/2022 10:02 AM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-1
3/24/2016	36.9	
5/10/2016	37.9	
7/5/2016	35.3	
9/6/2016	34.8	
11/8/2016	34.3	
2/22/2017	35.9	
5/31/2017	34.3	
7/5/2017	35.5	
9/7/2017	36.7	
6/12/2018	42.2	
10/23/2018	38.9	
5/21/2019	47.8	
9/4/2019	41.4	
2/12/2020	44.1	
9/9/2020	44.5	
4/13/2021	44	
10/4/2021		45.4
4/13/2022		47.5

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-10	GN-GSA-MW-10
3/24/2016	90.3	
5/11/2016	91.1	
7/6/2016	90.7	
9/6/2016	94.5	
11/9/2016	92.9	
2/21/2017	93.1	
5/31/2017	86.6	
7/5/2017	91.5	
9/7/2017	99	
6/12/2018	101	
10/24/2018	104	
5/21/2019	101	
9/3/2019	102	
2/12/2020	99.2	
9/8/2020	99.9	
4/13/2021	97.1	
10/5/2021		108
4/13/2022		107

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-11	GN-GSA-MW-11
3/23/2016	14.8	
5/11/2016	11.5	
7/6/2016	10.4	
9/7/2016	9.73	
11/9/2016	8.07	
2/21/2017	13.2	
5/31/2017	8.56	
7/5/2017	11.9	
9/7/2017	9.2	
6/12/2018	11.5	
10/24/2018	7.73	
5/21/2019	11.7	
9/3/2019	8.9	
2/12/2020	13.1	
9/9/2020	9.3	
4/13/2021	12.3	
10/5/2021		13.8
4/13/2022		15

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-12	GN-GSA-MW-12
3/23/2016	70.2	
5/10/2016	65.6	
7/6/2016	58.2	
9/6/2016	62.3	
11/9/2016	62.7	
2/21/2017	69.9	
5/31/2017	66.5	
7/5/2017	66.9	
9/7/2017	72.9	
6/12/2018	69.9	
10/23/2018	64.3	
5/21/2019	77.9	
9/4/2019	74.2	
2/12/2020	77.8	
9/9/2020	77	
4/13/2021	81.6	
10/5/2021		87.9
4/13/2022		88

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-13	GN-GSA-MW-13
3/24/2016	79.9	
5/10/2016	77.6	
7/6/2016	72	
9/6/2016	81.6	
11/8/2016	83.8	
2/22/2017	86.4	
5/31/2017	84.1	
7/5/2017	89.5	
9/7/2017	93.2	
6/12/2018	101	
10/23/2018	97.6	
5/21/2019	106	
9/4/2019	93.7	
2/12/2020	93.1	
9/9/2020	88.7	
4/13/2021	89.8	
10/4/2021		92.2
4/13/2022		91.8

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-14S	GN-GSA-MW-14S
7/5/2016	50.8	
8/23/2016	51.7	
9/7/2016	48.4	
11/8/2016	50.7	
1/3/2017	55.4	
2/21/2017	48	
5/31/2017	45.4	
7/5/2017	45.7	
9/5/2017	48.5	
6/12/2018	45.2	
10/23/2018	44.4	
5/22/2019	47.1	
9/4/2019	47.4	
2/12/2020	57.3	
9/9/2020	46.7	
4/13/2021	48.4	
10/4/2021		48
4/13/2022		58.9

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-15	GN-GSA-MW-15
7/6/2016	10.7	
8/23/2016	7.34	
9/7/2016	7.86	
11/8/2016	8.94	
1/3/2017	9.21	
2/20/2017	8.53	
5/31/2017	7.02	
7/5/2017	8.08	
9/5/2017	7.44	
6/12/2018	7.37	
10/23/2018	5.94	
5/22/2019	6.34	
9/4/2019	6.07	
2/12/2020	5.62	
9/9/2020	4.73	
4/13/2021	5.17	
10/6/2021		4.62
4/12/2022		4.59

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2	GN-GSA-MW-2
3/23/2016	75.3	
5/10/2016	75.7	
7/5/2016	78.8	
9/6/2016	84.3	
11/8/2016	87.2	
2/21/2017	80	
5/31/2017	75.2	
7/5/2017	77.2	
9/5/2017	77.5	
6/12/2018	78.9	
10/22/2018	96.9	
5/20/2019	87.3	
9/4/2019	89.8	
2/12/2020	81.4	
9/9/2020	80.9	
4/13/2021	77.5	
10/4/2021		85
4/12/2022		87.1

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-3	GN-GSA-MW-3
3/23/2016	106	
5/10/2016	109	
7/6/2016	98.7	
9/7/2016	98.6	
11/8/2016	99.7	
2/20/2017	93.4	
5/31/2017	84.1	
7/5/2017	92.6	
9/5/2017	86.1	
6/12/2018	76.5	
10/23/2018	68.8	
5/22/2019	53.1	
9/4/2019	76.4	
2/12/2020	89.6	
9/9/2020	63.1	
4/13/2021	57.8	
10/4/2021		43.7
4/12/2022		55.1

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-5	GN-GSA-MW-5
3/23/2016	48.1	
5/11/2016	46	
7/6/2016	52.1	
9/6/2016	49.7	
11/8/2016	54.3	
2/20/2017	51.3	
5/30/2017	50	
7/5/2017	56.9	
9/7/2017	66.5	
6/11/2018	62.4	
10/22/2018	60.6	
5/20/2019	58.8	
9/4/2019		57.9
2/11/2020		76.6
9/8/2020		83.9
4/13/2021		79.2
10/4/2021		81.6
4/12/2022		94.1

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-6	GN-GSA-MW-6
3/23/2016	1.32	
5/11/2016	1.13	
7/6/2016	1.18	
9/6/2016	1.09	
11/8/2016	1.32	
2/20/2017	0.829	
5/30/2017	0.743	
7/5/2017	0.68	
9/7/2017	0.825	
6/11/2018	0.722	
10/22/2018	0.79	
5/20/2019	0.652	
9/4/2019	0.872	
2/11/2020	0.562	
9/8/2020	0.652	
4/13/2021	0.505	
10/4/2021		0.53
4/12/2022		0.516

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-7	GN-GSA-MW-7
3/23/2016	59.1	
5/11/2016	58.9	
7/6/2016	60.8	
9/6/2016	62.2	
11/8/2016	63.9	
2/20/2017	69.6	
5/31/2017	63	
7/5/2017	64.6	
9/7/2017	70.5	
6/11/2018	63.5	
10/22/2018	70.3	
5/20/2019	72.5	
9/4/2019	72	
2/11/2020	71.2	
9/9/2020	66.7	
4/13/2021	64.1	
10/4/2021		70.4
4/12/2022		71.2

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-8	GN-GSA-MW-8
3/24/2016	57.4	
5/11/2016	57	
7/6/2016	56.7	
9/6/2016	57.3	
11/8/2016	59.4	
2/20/2017	57.7	
5/30/2017	52.5	
7/5/2017	52.7	
9/7/2017	58.4	
6/12/2018	53.7	
10/22/2018	55.4	
5/21/2019	55.7	
9/3/2019	57.4	
2/12/2020	55.7	
9/9/2020	55.3	
4/13/2021	52.2	
10/4/2021		55.1
4/12/2022		54.4

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-9	GN-GSA-MW-9
3/23/2016	45.9	
5/11/2016	49.4	
7/6/2016	56	
9/7/2016	53.8	
11/8/2016	64.3	
2/21/2017	45.6	
5/30/2017	45.8	
7/5/2017	36.4	
9/7/2017	53.5	
6/12/2018	47.6	
10/22/2018	52.4	
5/21/2019	51.6	
9/3/2019	60.3	
2/12/2020	45.3	
9/8/2020	57.5	
4/13/2021	43.5	
10/5/2021		54.6
4/12/2022		50.4

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-1
3/24/2016	3.35	
5/10/2016	3.06	
7/5/2016	2.9	
9/6/2016	2.54	
11/8/2016	2.34	
2/22/2017	2.9	
5/31/2017	2.7	
7/5/2017	2.2	
9/7/2017	<2 (U*)	
6/12/2018	2.4	
10/23/2018	2.1	
5/21/2019	2.6	
9/4/2019	2.39	
2/12/2020	2.36	
9/9/2020	2.49	
4/13/2021	2.54	
10/4/2021		2.58
4/13/2022		2.17

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-10	GN-GSA-MW-10
3/24/2016	2.78	
5/11/2016	2.62	
7/6/2016	2.53	
9/6/2016	2.51	
11/9/2016	2.67	
2/21/2017	3.4	
5/31/2017	3.6	
7/5/2017	2.7	
9/7/2017	<2 (U*)	
6/12/2018	2.8	
10/24/2018	2.9	
5/21/2019	2.98	
9/3/2019	2.84	
2/12/2020	2.86	
9/8/2020	2.8	
4/13/2021	3.07	
10/5/2021		3.04
4/13/2022		2.77

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-11	GN-GSA-MW-11
3/23/2016	2.64	
5/11/2016	3.02	
7/6/2016	4.01	
9/7/2016	4.51	
11/9/2016	3.74	
2/21/2017	4.1	
5/31/2017	5.3	
7/5/2017	4.6	
9/7/2017	6.5	
6/12/2018		8.8
10/24/2018		7.2
5/21/2019		10.4
9/3/2019		7.1
2/12/2020		7.16
9/9/2020		6.27
4/13/2021		9.8
10/5/2021		13.8
4/13/2022		19.6

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-12	GN-GSA-MW-12
3/23/2016	4.43	
5/10/2016	3.38	
7/6/2016	2.62	
9/6/2016	2.65	
11/9/2016	2.55	
2/21/2017	4.7	
5/31/2017	4.1	
7/5/2017	3.2	
9/7/2017	<2 (U*)	
6/12/2018	3.1	
10/23/2018	2.1	
5/21/2019	3.02	
9/4/2019	2.73	
2/12/2020	4.21	
9/9/2020	2.8	
4/13/2021	3.97	
10/5/2021		3.69
4/13/2022		3.76

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-13	GN-GSA-MW-13
3/24/2016	3.16	
5/10/2016	3.02	
7/6/2016	3.1	
9/6/2016	3.31	
11/8/2016	3.32	
2/22/2017	4.8	
5/31/2017	4	
7/5/2017	3.6	
9/7/2017	4.5	
6/12/2018	3.5	
10/23/2018	3.5	
5/21/2019	3.3	
9/4/2019	3.33	
2/12/2020	4.1	
9/9/2020	3.4	
4/13/2021	3.56	
10/4/2021		3.37
4/13/2022		3.01

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-14S	GN-GSA-MW-14S
7/5/2016	3.86	
8/23/2016	4.69	
9/7/2016	4.6	
11/8/2016	4.68	
1/3/2017	5.25	
2/21/2017	4.3	
5/31/2017	4.2	
7/5/2017	3.4	
9/5/2017	4.5	
6/12/2018	3.6	
10/23/2018	3.4	
5/22/2019	2.89	
9/4/2019	2.88	
2/12/2020	2.4	
9/9/2020	2.49	
4/13/2021	2.56	
10/4/2021		2.5
4/13/2022		2.42

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-15	GN-GSA-MW-15
7/6/2016	3.78	
8/23/2016	3.47	
9/7/2016	3.4	
11/8/2016	3.29	
1/3/2017	3.11	
2/20/2017	2.7	
5/31/2017	2.3	
7/5/2017	2	
9/5/2017	<2 (U*)	
6/12/2018	2	
10/23/2018	1.5 (J)	
5/22/2019	1.75	
9/4/2019	1.95	
2/12/2020	1.8	
9/9/2020	1.95	
4/13/2021	1.86	
10/6/2021		2.07
4/12/2022		1.88

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2	GN-GSA-MW-2
3/23/2016	3.6	
5/10/2016	4.18	
7/5/2016	3.12	
9/6/2016	3.21	
11/8/2016	3.33	
2/21/2017	4.6	
5/31/2017	3.8	
7/5/2017	3.4	
9/5/2017	4.4	
6/12/2018	3.4	
10/22/2018	3.6	
5/20/2019	3.53	
9/4/2019	3.56	
2/12/2020	3.66	
9/9/2020	3.44	
4/13/2021	3.55	
10/4/2021		3.59
4/12/2022		3.23

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-3	GN-GSA-MW-3
3/23/2016	3.67	
5/10/2016	3.34	
7/6/2016	3.08	
9/7/2016	2.95	
11/8/2016	2.92	
2/20/2017	3.3	
5/31/2017	2.9	
7/5/2017	2.6	
9/5/2017	3.5	
6/12/2018	3.1	
10/23/2018	2.6	
5/22/2019	2.83	
9/4/2019	2.92	
2/12/2020	2.49	
9/9/2020	2.74	
4/13/2021	2.76	
10/4/2021		2.88
4/12/2022		2.67

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-5	GN-GSA-MW-5
3/23/2016	4.84	
5/11/2016	4.19	
7/6/2016	4.67	
9/6/2016	4.23	
11/8/2016	4.51	
2/20/2017	5.8	
5/30/2017	13	
7/5/2017	17	
9/7/2017	17	
6/11/2018	14	
10/22/2018	14	
5/20/2019	12.9	
9/4/2019	11.9	
2/11/2020	11.2	
9/8/2020	11.7	
4/13/2021	9.78	
10/4/2021		9.45
4/12/2022		7.35

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-6	GN-GSA-MW-6
3/23/2016	3.36	
5/11/2016	3.04	
7/6/2016	2.86	
9/6/2016	2.92	
11/8/2016	3.01	
2/20/2017	3.7	
5/30/2017	3.2	
7/5/2017	2.8	
9/7/2017	<2 (U*)	
6/11/2018	2.7	
10/22/2018	2.6	
5/20/2019	3.15	
9/4/2019	3.21	
2/11/2020	3.36	
9/8/2020	3.29	
4/13/2021	3.54	
10/4/2021		3.61
4/12/2022		3.38

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-7	GN-GSA-MW-7
3/23/2016	3.28	
5/11/2016	3.08	
7/6/2016	2.96	
9/6/2016	2.97	
11/8/2016	3.22	
2/20/2017	4	
5/31/2017	4.3	
7/5/2017	3.4	
9/7/2017	4	
6/11/2018	3.6	
10/22/2018	3.7	
5/20/2019	3.25	
9/4/2019	4.31	
2/11/2020	3.69	
9/9/2020	3.34	
4/13/2021	3.64	
10/4/2021		3.48
4/12/2022		3.29

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-8	GN-GSA-MW-8
3/24/2016	1.73	
5/11/2016	1.68	
7/6/2016	1.68	
9/6/2016	1.7	
11/8/2016	2.03	
2/20/2017	2.3	
5/30/2017	2.2	
7/5/2017	1.6 (J)	
9/7/2017	<2 (U*)	
6/12/2018	1.9 (J)	
10/22/2018	<2	
5/21/2019	1.51	
9/3/2019	1.64	
2/12/2020	1.64	
9/9/2020	1.61	
4/13/2021	1.64	
10/4/2021		1.76
4/12/2022		1.54

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-9	GN-GSA-MW-9
3/23/2016	2.26	
5/11/2016	2.26	
7/6/2016	2.28	
9/7/2016	2.32	
11/8/2016	2.26	
2/21/2017	2.9	
5/30/2017	2.9	
7/5/2017	2.7	
9/7/2017	<2 (U*)	
6/12/2018	2.6	
10/22/2018	2	
5/21/2019	2.12	
9/3/2019	2.26	
2/12/2020	2.24	
9/8/2020	2.06	
4/13/2021	2.14	
10/5/2021		2.16
4/12/2022		1.91

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-1
3/24/2016	6.06	
5/10/2016	5.47	
7/5/2016	4.8	
9/6/2016	3.91	
11/8/2016	2.95	
2/22/2017	3.3 (J)	
5/31/2017	3.4 (J)	
7/5/2017	3.4 (J)	
9/7/2017	3.6 (J)	
6/12/2018	4.2 (J)	
10/23/2018	3 (J)	
5/21/2019	4.58	
9/4/2019	4.82	
2/12/2020	5.11	
9/9/2020	3.97	
4/13/2021	4.43	
10/4/2021		4.08
4/13/2022		4.24

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-10	GN-GSA-MW-10
3/24/2016	1.62	
5/11/2016	2.15	
7/6/2016	1.89	
9/6/2016	1.53	
11/9/2016	1.69	
2/21/2017	2.2 (J)	
5/31/2017	1.7 (J)	
7/5/2017	<1	
9/7/2017	1.7 (J)	
6/12/2018	1.8 (J)	
10/24/2018	<1	
5/21/2019	1.72	
9/3/2019	1.73	
2/12/2020	1.65	
9/8/2020	1.62	
4/13/2021	1.68	
10/5/2021		1.8
4/13/2022		1.68 (J)

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-11	GN-GSA-MW-11
3/23/2016	7.59	
5/11/2016	6.6	
7/6/2016	11.8	
9/7/2016	14.9	
11/9/2016	4.5	
2/21/2017	5.7	
5/31/2017	5.6	
7/5/2017	4.6 (J)	
9/7/2017	6.2	
6/12/2018	3.5 (J)	
10/24/2018	2.4 (J)	
5/21/2019	3.55	
9/3/2019	2.83	
2/12/2020	3.89	
9/9/2020	3.01	
4/13/2021	2.77	
10/5/2021		2.86
4/13/2022		2.73

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-12	GN-GSA-MW-12
3/23/2016	16.2	
5/10/2016	12.1	
7/6/2016	7.7	
9/6/2016	6.97	
11/9/2016	5.77	
2/21/2017	12	
5/31/2017	8.7	
7/5/2017	7.7	
9/7/2017	7	
6/12/2018	8.7	
10/23/2018	4.8 (J)	
5/21/2019	7.81	
9/4/2019	6.25	
2/12/2020	13.1	
9/9/2020	5.85	
4/13/2021	8.86	
10/5/2021		8.02
4/13/2022		8.25

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-13	GN-GSA-MW-13
3/24/2016	7.64	
5/10/2016	6.79	
7/6/2016	7.59	
9/6/2016	9.56	
11/8/2016	8.87	
2/22/2017	10	
5/31/2017	8	
7/5/2017	8.2	
9/7/2017	8.3	
6/12/2018	8.3	
10/23/2018	6.7	
5/21/2019	8.29	
9/4/2019	8.18	
2/12/2020	9.06	
9/9/2020	7.89	
4/13/2021	8.38	
10/4/2021		7.18
4/13/2022		7.27

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-14S	GN-GSA-MW-14S
7/5/2016	11.7	
8/23/2016	13.7	
9/7/2016	12.4	
11/8/2016	12.9	
1/3/2017	14.1	
2/21/2017	6.1	
5/31/2017	8	
7/5/2017	3.8 (J)	
9/5/2017	6.8	
6/12/2018	5	
10/23/2018	5.4	
5/22/2019	5.57	
9/4/2019	6.37	
2/12/2020	3.09	
9/9/2020	5.26	
4/13/2021	3.45	
10/4/2021		3.78
4/13/2022		2.44

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-15	GN-GSA-MW-15
7/6/2016	5.38	
8/23/2016	4.23	
9/7/2016	3.84	
11/8/2016	3.23	
1/3/2017	3	
2/20/2017	3.1 (J)	
5/31/2017	2.1 (J)	
7/5/2017	2 (J)	
9/5/2017	2.2 (J)	
6/12/2018	2.3 (J)	
10/23/2018	<1	
5/22/2019	2.82	
9/4/2019	2.3	
2/12/2020	1.77	
9/9/2020	2	
4/13/2021	2.51	
10/6/2021		2.15
4/12/2022		1.76 (J)

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2	GN-GSA-MW-2
3/23/2016	6.48	
5/10/2016	11.1	
7/5/2016	6.7	
9/6/2016	6.85	
11/8/2016	7.3	
2/21/2017	7.7	
5/31/2017	5.3	
7/5/2017	6.4	
9/5/2017	6.1	
6/12/2018	7.2	
10/22/2018	8.3	
5/20/2019	7.52	
9/4/2019	9.25	
2/12/2020	10.7	
9/9/2020	7.77	
4/13/2021	7.44	
10/4/2021		6.86
4/12/2022		8.36

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-3	GN-GSA-MW-3
3/23/2016	32.6	
5/10/2016	27.6	
7/6/2016	23.6	
9/7/2016	22.2	
11/8/2016	20.4	
2/20/2017	14	
5/31/2017	15	
7/5/2017	11	
9/5/2017	17	
6/12/2018	14	
10/23/2018	12	
5/22/2019	11	
9/4/2019	10.9	
2/12/2020	9.13	
9/9/2020	8.76	
4/13/2021	7.88	
10/4/2021		8.09
4/12/2022		7.36

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-5	GN-GSA-MW-5
3/23/2016	14.1	
5/11/2016	13.5	
7/6/2016	17.1	
9/6/2016	11.2	
11/8/2016	10.9	
2/20/2017	8.8	
5/30/2017	12	
7/5/2017	19	
9/7/2017	33	
6/11/2018		47
10/22/2018		40
5/20/2019		75.6
9/4/2019		56.3
2/11/2020		79.7
9/8/2020		113
4/13/2021		108
10/4/2021		115
4/12/2022		145

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-6	GN-GSA-MW-6
3/23/2016	1.89	
5/11/2016	1.79	
7/6/2016	1.3	
9/6/2016	1.14	
11/8/2016	0.622 (J)	
2/20/2017	5 (o)	
5/30/2017	5 (o)	
7/5/2017	<1	
9/7/2017	<1	
6/11/2018	<1	
10/22/2018	<1	
5/20/2019	<1	
9/4/2019	<1	
2/11/2020	<1	
9/8/2020	<1	
4/13/2021	<1	
10/4/2021		<1
4/12/2022		<1

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-7	GN-GSA-MW-7
3/23/2016	13.8	
5/11/2016	11.9	
7/6/2016	11.1	
9/6/2016	10.6	
11/8/2016	12.1	
2/20/2017	9.7	
5/31/2017	11	
7/5/2017	8.3	
9/7/2017	8.6	
6/11/2018	7.5	
10/22/2018	8.8	
5/20/2019	6.85	
9/4/2019	10.1	
2/11/2020	8.5	
9/9/2020	7.13	
4/13/2021	6.37	
10/4/2021		6.02
4/12/2022		5.75

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-8	GN-GSA-MW-8
3/24/2016	2.42	
5/11/2016	2.16	
7/6/2016	1.7	
9/6/2016	1.31	
11/8/2016	1.4	
2/20/2017	2 (J)	
5/30/2017	1.6 (J)	
7/5/2017	1.9 (J)	
9/7/2017	2.1 (J)	
6/12/2018		2.7 (J)
10/22/2018		2.2 (J)
5/21/2019		3.39
9/3/2019		4.15
2/12/2020		4.31
9/9/2020		3.67
4/13/2021		4.49
10/4/2021		5.05
4/12/2022		3.13

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-9	GN-GSA-MW-9
3/23/2016	5.54	
5/11/2016	5.66	
7/6/2016	5.62	
9/7/2016	5.31	
11/8/2016	4.42	
2/21/2017	5.3	
5/30/2017	5.2	
7/5/2017	4.4 (J)	
9/7/2017	5.9	
6/12/2018	5.7	
10/22/2018	5.1	
5/21/2019	6.07	
9/3/2019	6.53	
2/12/2020	5.67	
9/8/2020	5.42	
4/13/2021	4.65	
10/5/2021		4.08
4/12/2022		4.09

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-1
3/24/2016	203	
5/10/2016	204	
7/5/2016	188	
9/6/2016	188	
11/8/2016	197	
2/22/2017	165	
5/31/2017	244	
7/5/2017	201	
9/7/2017	196	
6/12/2018	221	
10/23/2018	195 (D)	
5/21/2019	244	
9/4/2019	200	
2/12/2020	219	
9/9/2020	221	
4/13/2021	237	
10/4/2021		221
4/13/2022		217

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-10	GN-GSA-MW-10
3/24/2016	239	
5/11/2016	257	
7/6/2016	256	
9/6/2016	245	
11/9/2016	258	
2/21/2017	243	
5/31/2017	252	
7/5/2017	257	
9/7/2017	259	
6/12/2018		266
10/24/2018		265 (D)
5/21/2019		274
9/3/2019		260
2/12/2020		259
9/8/2020		275
4/13/2021		273
10/5/2021		293
4/13/2022		273

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-11	GN-GSA-MW-11
3/23/2016	56.7	
5/11/2016	54.7	
7/6/2016	76	
9/7/2016	96	
11/9/2016	57.3	
2/21/2017	76.7	
5/31/2017	75.3	
7/5/2017	80	
9/7/2017	105	
6/12/2018	72	
10/24/2018	68 (D)	
5/21/2019	66	
9/3/2019	51.3	
2/12/2020	66	
9/9/2020	59.3	
4/13/2021	66	
10/5/2021		92.7
4/13/2022		84

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-12	GN-GSA-MW-12
3/23/2016	237	
5/10/2016	226	
7/6/2016	191	
9/6/2016	200	
11/9/2016	190	
2/21/2017	264	
5/31/2017	242	
7/5/2017	231	
9/7/2017	225	
6/12/2018	230	
10/23/2018	201 (D)	
5/21/2019	231	
9/4/2019	217	
2/12/2020	256	
9/9/2020	230	
4/13/2021	260	
10/5/2021		255
4/13/2022		250

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-13	GN-GSA-MW-13
3/24/2016	244	
5/10/2016	247	
7/6/2016	247	
9/6/2016	264	
11/8/2016	173	
2/22/2017	260	
5/31/2017	277	
7/5/2017	296	
9/7/2017	294	
6/12/2018	282	
10/23/2018	279 (D)	
5/21/2019	286	
9/4/2019	271	
2/12/2020	282	
9/9/2020	271	
4/13/2021	286	
10/4/2021		277
4/13/2022		266

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-14S	GN-GSA-MW-14S
7/5/2016	194	
8/23/2016	208	
9/7/2016	198	
11/8/2016	205	
1/3/2017	221	
2/21/2017	195	
5/31/2017	220	
7/5/2017	185	
9/5/2017	202	
6/12/2018	205	
10/23/2018	204 (D)	
5/22/2019	202	
9/4/2019	195	
2/12/2020	189	
9/9/2020	198	
4/13/2021	191	
10/4/2021		183
4/13/2022		187

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-15	GN-GSA-MW-15
7/6/2016	55.3	
8/23/2016	45.3	
9/7/2016	37.3	
11/8/2016	40.7	
1/3/2017	47.3	
2/20/2017	55.3	
5/31/2017	46.7	
7/5/2017	41.3	
9/5/2017	34.7	
6/12/2018	38	
10/23/2018	27.3 (D)	
5/22/2019	35.3	
9/4/2019	28	
2/12/2020	30.7	
9/9/2020	32.7	
4/13/2021	35.3	
10/6/2021		<25
4/12/2022		27.3

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2	GN-GSA-MW-2
3/23/2016	272	
5/10/2016	283	
7/5/2016	294	
9/6/2016	295	
11/8/2016	310	
2/21/2017	280	
5/31/2017	287	
7/5/2017	287	
9/5/2017	280	
6/12/2018	284	
10/22/2018	278 (D)	
5/20/2019	286	
9/4/2019	297	
2/12/2020	276	
9/9/2020	272	
4/13/2021	283	
10/4/2021		287
4/12/2022		271

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-3	GN-GSA-MW-3
3/23/2016	334	
5/10/2016	349	
7/6/2016	316	
9/7/2016	309	
11/8/2016	302	
2/20/2017	297	
5/31/2017	287	
7/5/2017	283	
9/5/2017	284	
6/12/2018	248	
10/23/2018	215 (D)	
5/22/2019	184	
9/4/2019	225	
2/12/2020	250	
9/9/2020	220	
4/13/2021	196	
10/4/2021		168
4/12/2022		156

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-5	GN-GSA-MW-5
3/23/2016	185	
5/11/2016	176	
7/6/2016	203	
9/6/2016	180	
11/8/2016	187	
2/20/2017	205	
5/30/2017	187	
7/5/2017	238	
9/7/2017	269	
6/11/2018		312
10/22/2018		292 (D)
5/20/2019		398
9/4/2019		388
2/11/2020		308
9/8/2020		360
4/13/2021		350
10/4/2021		379
4/12/2022		400

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-6	GN-GSA-MW-6
3/23/2016	27.3	
5/11/2016	<25	
7/6/2016	<25	
9/6/2016	<25	
11/8/2016	<25	
2/20/2017	30	
5/30/2017	<25	
7/5/2017	26	
9/7/2017	<25	
6/11/2018	<25	
10/22/2018	<25 (D)	
5/20/2019	27.3	
9/4/2019	<25	
2/11/2020	<25	
9/8/2020	<25	
4/13/2021	26	
10/4/2021		32
4/12/2022		<25

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-7	GN-GSA-MW-7
3/23/2016	202	
5/11/2016	207	
7/6/2016	202	
9/6/2016	204	
11/8/2016	212	
2/20/2017	251	
5/31/2017	234	
7/5/2017	229	
9/7/2017	225	
6/11/2018	210	
10/22/2018	209 (D)	
5/20/2019	218	
9/4/2019	233	
2/11/2020	241	
9/9/2020	234	
4/13/2021	220	
10/4/2021		232
4/12/2022		214

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-8	GN-GSA-MW-8
3/24/2016	179	
5/11/2016	195	
7/6/2016	192	
9/6/2016	193	
11/8/2016	198	
2/20/2017	195	
5/30/2017	184	
7/5/2017	194	
9/7/2017	193	
6/12/2018	186	
10/22/2018	184 (D)	
5/21/2019	185	
9/3/2019	184	
2/12/2020	182	
9/9/2020	192	
4/13/2021	186	
10/4/2021		203
4/12/2022		176

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/31/2022 10:04 AM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-9	GN-GSA-MW-9
3/23/2016	149	
5/11/2016	179	
7/6/2016	183	
9/7/2016	173	
11/8/2016	207	
2/21/2017	153	
5/30/2017	158	
7/5/2017	138	
9/7/2017	171	
6/12/2018	167	
10/22/2018	177 (D)	
5/21/2019	176	
9/3/2019	189	
2/12/2020	153	
9/8/2020	187	
4/13/2021	163	
10/5/2021		170
4/12/2022		155

FIGURE E.

Interwell Prediction Limits - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 5/31/2022, 10:06 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	**GN-GSA-MW-1**	**0.125**	**n/a**	**4/13/2022**	**0.307**	**Yes**	**76**	**n/a**	**n/a**	**40.79**	**n/a**	**n/a**	**0.0003321**	**NP Inter (normality) 1 of 2**
pH (pH)	**GN-GSA-MW-6**	**7.53**	**5.25**	**4/12/2022**	**4.38**	**Yes**	**76**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006643**	**NP Inter (normality) 1 of 2**

Interwell Prediction Limits - All Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 5/31/2022, 10:06 AM

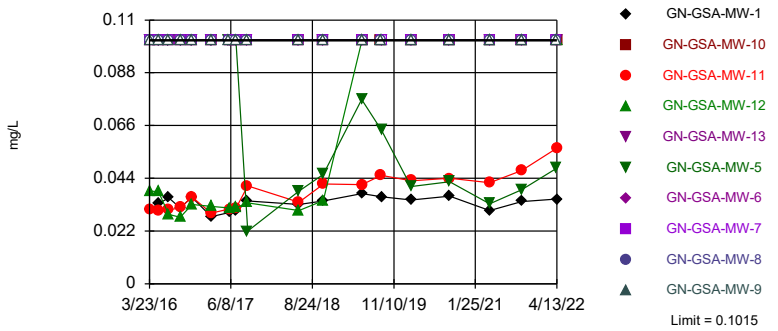
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GN-GSA-MW-1	0.1015	n/a	4/13/2022	0.0353J	No	72	n/a	n/a	98.61	n/a	n/a	0.0003671	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-10	0.1015	n/a	4/13/2022	0.1015ND	No	72	n/a	n/a	98.61	n/a	n/a	0.0003671	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-11	0.1015	n/a	4/13/2022	0.0565J	No	72	n/a	n/a	98.61	n/a	n/a	0.0003671	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-12	0.1015	n/a	4/13/2022	0.1015ND	No	72	n/a	n/a	98.61	n/a	n/a	0.0003671	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-13	0.1015	n/a	4/13/2022	0.1015ND	No	72	n/a	n/a	98.61	n/a	n/a	0.0003671	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-5	0.1015	n/a	4/12/2022	0.0481J	No	72	n/a	n/a	98.61	n/a	n/a	0.0003671	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-6	0.1015	n/a	4/12/2022	0.1015ND	No	72	n/a	n/a	98.61	n/a	n/a	0.0003671	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-7	0.1015	n/a	4/12/2022	0.1015ND	No	72	n/a	n/a	98.61	n/a	n/a	0.0003671	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-8	0.1015	n/a	4/12/2022	0.1015ND	No	72	n/a	n/a	98.61	n/a	n/a	0.0003671	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-9	0.1015	n/a	4/12/2022	0.1015ND	No	72	n/a	n/a	98.61	n/a	n/a	0.0003671	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	**GN-GSA-MW-1**	**0.125**	**n/a**	**4/13/2022**	**0.307**	**Yes**	**76**	**n/a**	**n/a**	**40.79**	**n/a**	**n/a**	**0.0003321**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	GN-GSA-MW-10	0.125	n/a	4/13/2022	0.125ND	No	76	n/a	n/a	40.79	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-11	0.125	n/a	4/13/2022	0.125ND	No	76	n/a	n/a	40.79	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-12	0.125	n/a	4/13/2022	0.125ND	No	76	n/a	n/a	40.79	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-13	0.125	n/a	4/13/2022	0.125ND	No	76	n/a	n/a	40.79	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-5	0.125	n/a	4/12/2022	0.125ND	No	76	n/a	n/a	40.79	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-6	0.125	n/a	4/12/2022	0.125ND	No	76	n/a	n/a	40.79	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-7	0.125	n/a	4/12/2022	0.0724J	No	76	n/a	n/a	40.79	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-8	0.125	n/a	4/12/2022	0.0621J	No	76	n/a	n/a	40.79	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-9	0.125	n/a	4/12/2022	0.125ND	No	76	n/a	n/a	40.79	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-1	7.53	5.25	4/13/2022	7.5	No	76	n/a	n/a	0	n/a	n/a	0.0006643	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-10	7.53	5.25	4/13/2022	6.85	No	76	n/a	n/a	0	n/a	n/a	0.0006643	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-11	7.53	5.25	4/13/2022	5.29	No	76	n/a	n/a	0	n/a	n/a	0.0006643	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-12	7.53	5.25	4/13/2022	6.74	No	76	n/a	n/a	0	n/a	n/a	0.0006643	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-13	7.53	5.25	4/13/2022	6.84	No	76	n/a	n/a	0	n/a	n/a	0.0006643	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-5	7.53	5.25	4/12/2022	6.32	No	76	n/a	n/a	0	n/a	n/a	0.0006643	NP Inter (normality) 1 of 2
pH (pH)	**GN-GSA-MW-6**	**7.53**	**5.25**	**4/12/2022**	**4.38**	**Yes**	**76**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006643**	**NP Inter (normality) 1 of 2**
pH (pH)	GN-GSA-MW-7	7.53	5.25	4/12/2022	6.73	No	76	n/a	n/a	0	n/a	n/a	0.0006643	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-8	7.53	5.25	4/12/2022	7.22	No	76	n/a	n/a	0	n/a	n/a	0.0006643	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-9	7.53	5.25	4/12/2022	6.22	No	76	n/a	n/a	0	n/a	n/a	0.0006643	NP Inter (normality) 1 of 2

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 72 background values. 98.61% NDs. Annual per-constituent alpha = 0.007317. Individual comparison alpha = 0.0003671 (1 of 2). Comparing 10 points to limit.

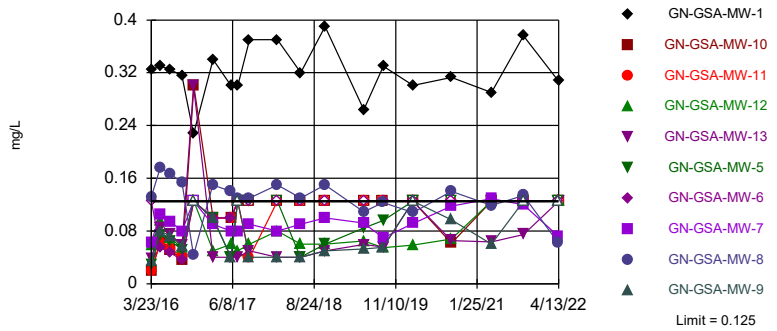
Constituent: Boron Analysis Run 5/31/2022 10:05 AM View: Appendix III - Interwell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Exceeds Limit: GN-GSA-MW-1

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 76 background values. 40.79% NDs. Annual per-constituent alpha = 0.006622. Individual comparison alpha = 0.0003321 (1 of 2). Comparing 10 points to limit.

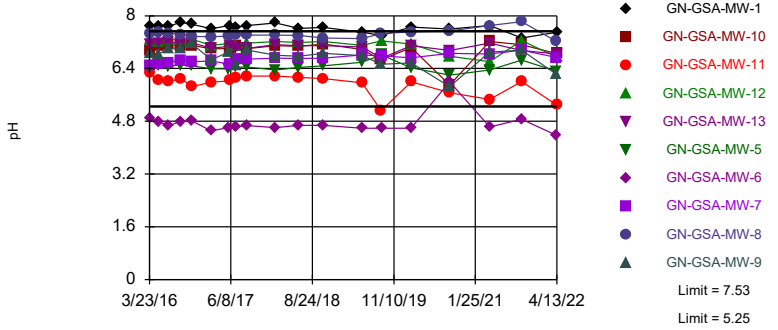
Constituent: Fluoride Analysis Run 5/31/2022 10:05 AM View: Appendix III - Interwell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Exceeds Limits: GN-GSA-MW-6

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 76 background values. Annual per-constituent alpha = 0.01324. Individual comparison alpha = 0.0006643 (1 of 2). Comparing 10 points to limit.

Constituent: pH Analysis Run 5/31/2022 10:05 AM View: Appendix III - Interwell
Plant Gaston Client: Southern Company Data: Gaston GSA

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/31/2022 10:06 AM View: Appendix III - Interwell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-5	GN-GSA-MW-11	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-12	GN-GSA-MW-9	GN-GSA-MW-1
3/23/2016	<0.1015	0.0309 (J)	<0.1015	<0.1015	<0.1015	<0.1015	0.0387 (J)	<0.1015	
3/24/2016									0.0311 (J)
5/10/2016			<0.1015	<0.1015			0.0384 (J)		0.0334 (J)
5/11/2016	<0.1015	0.0306 (J)			<0.1015	<0.1015		<0.1015	
7/5/2016			<0.1015						0.0359 (J)
7/6/2016	<0.1015	0.0307 (J)		<0.1015	<0.1015	<0.1015	0.029 (J)	<0.1015	
8/23/2016									
9/6/2016	<0.1015		<0.1015		<0.1015	<0.1015	0.0278 (J)		0.0316 (J)
9/7/2016		0.0319 (J)		<0.1015				<0.1015	
11/8/2016	<0.1015		<0.1015	<0.1015	<0.1015	<0.1015		<0.1015	0.0361 (J)
11/9/2016		0.0362 (J)					0.0331 (J)		
1/3/2017									
2/20/2017	<0.1015			<0.1015	<0.1015	<0.1015			
2/21/2017		0.0295 (J)	<0.1015				0.0323 (J)	<0.1015	
2/22/2017									0.028 (J)
5/30/2017	<0.1015				<0.1015			<0.1015	
5/31/2017		0.0312 (J)	<0.1015	<0.1015		<0.1015	0.0316 (J)		0.0297 (J)
7/5/2017	<0.1015	0.0315 (J)	<0.1015	<0.1015	<0.1015	<0.1015	0.0318 (J)	<0.1015	0.0302 (J)
9/5/2017			<0.1015	<0.1015					
9/7/2017	0.022 (J)	0.0408 (J)			<0.1015	<0.1015	0.0338 (J)	<0.1015	0.0345 (J)
6/11/2018	0.0386 (J)				<0.1015	<0.1015			
6/12/2018		0.034 (J)	<0.1015	<0.1015			0.0305 (J)	<0.1015	0.0331 (J)
10/22/2018	0.0456 (J)		<0.1015		<0.1015	<0.1015		<0.1015	
10/23/2018				<0.1015			0.0347 (J)		0.0345 (J)
10/24/2018		0.0416 (J)							
5/20/2019	0.0769 (J)		<0.1015		<0.1015	<0.1015			
5/21/2019		0.0413 (J)					<0.1015	<0.1015	0.0376 (J)
5/22/2019				<0.1015					
9/3/2019		0.0452 (J)						<0.1015	
9/4/2019	0.0641 (J)		<0.1015	<0.1015	<0.1015	<0.1015	<0.1015		0.0363 (J)
2/11/2020	0.0406 (J)				<0.1015	<0.1015			
2/12/2020		0.043 (J)	<0.1015	<0.1015			<0.1015	<0.1015	0.0349 (J)
9/8/2020	0.0425 (J)				<0.1015			<0.1015	
9/9/2020		0.044 (J)	<0.1015	<0.1015		<0.1015	<0.1015		0.0366 (J)
4/13/2021	0.0333 (J)	0.0422 (J)	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	0.0306 (J)
10/4/2021	0.0392 (J)		<0.1015	<0.1015	<0.1015	<0.1015			0.0343 (J)
10/5/2021		0.0472 (J)					<0.1015	<0.1015	
10/6/2021									
4/12/2022	0.0481 (J)		<0.1015	<0.1015	<0.1015	<0.1015		<0.1015	
4/13/2022		0.0565 (J)					<0.1015		0.0353 (J)

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/31/2022 10:06 AM View: Appendix III - Interwell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-8	GN-GSA-MW-13	GN-GSA-MW-10	GN-GSA-MW-14S...GN-GSA-MW-15 ...	
3/23/2016					
3/24/2016	<0.1015	<0.1015	<0.1015		
5/10/2016		<0.1015			
5/11/2016	<0.1015		<0.1015		
7/5/2016				<0.1015	
7/6/2016	<0.1015	<0.1015	<0.1015		<0.1015
8/23/2016				<0.1015	<0.1015
9/6/2016	<0.1015	<0.1015	<0.1015		
9/7/2016				<0.1015	<0.1015
11/8/2016	<0.1015	<0.1015		<0.1015	<0.1015
11/9/2016			<0.1015		
1/3/2017				0.0211 (J)	<0.1015
2/20/2017	<0.1015				<0.1015
2/21/2017			<0.1015	<0.1015	
2/22/2017		<0.1015			
5/30/2017	<0.1015				
5/31/2017		<0.1015	<0.1015	<0.1015	<0.1015
7/5/2017	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
9/5/2017				<0.1015	<0.1015
9/7/2017	<0.1015	<0.1015	<0.1015		
6/11/2018					
6/12/2018	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
10/22/2018	<0.1015				
10/23/2018		<0.1015		<0.1015	<0.1015
10/24/2018			<0.1015		
5/20/2019					
5/21/2019	<0.1015	<0.1015	<0.1015		
5/22/2019				<0.1015	<0.1015
9/3/2019	<0.1015		<0.1015		
9/4/2019		<0.1015		<0.1015	<0.1015
2/11/2020					
2/12/2020	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
9/8/2020			<0.1015		
9/9/2020	<0.1015	<0.1015		<0.1015	<0.1015
4/13/2021	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
10/4/2021	<0.1015	<0.1015		<0.1015	
10/5/2021			<0.1015		
10/6/2021					<0.1015
4/12/2022	<0.1015				<0.1015
4/13/2022		<0.1015	<0.1015	<0.1015	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/31/2022 10:06 AM View: Appendix III - Interwell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-12	GN-GSA-MW-2 (bg)	GN-GSA-MW-11	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-9	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-1
3/23/2016	0.058 (J)	0.022 (J)	0.02 (J)	0.06 (J)	0.028 (J)	0.035 (J)	<0.125	0.063 (J)	
3/24/2016									0.325
5/10/2016	0.095 (J)	0.068 (J)		0.111 (J)					0.33
5/11/2016			0.063 (J)		0.074 (J)	0.08 (J)	0.055 (J)	0.105 (J)	
7/5/2016		0.052 (J)							0.325
7/6/2016	0.069 (J)		0.053 (J)	0.089 (J)	0.065 (J)	0.072 (J)	0.047 (J)	0.094 (J)	
8/23/2016									
9/6/2016	0.055 (J)	0.038 (J)			0.052 (J)		0.036 (J)	0.08 (J)	0.315
9/7/2016			0.041 (J)	0.073 (J)		0.057 (J)			
11/8/2016		<0.125		<0.125	<0.125	<0.125	<0.125	<0.125	0.227 (J)
11/9/2016	<0.125		<0.125						
1/3/2017									
2/20/2017				0.05 (J)	0.1		0.1	0.09 (J)	
2/21/2017	0.05 (J)	0.1	0.1			0.1			
2/22/2017									0.34
5/30/2017					0.04 (J)	0.04 (J)	0.1		
5/31/2017	0.06 (J)	0.1	0.1	0.06 (J)				0.08 (J)	0.3
7/5/2017	0.05 (J)	<0.125	<0.125	0.05 (J)	<0.125	<0.125	<0.125	0.08 (J)	0.3
9/5/2017		<0.125		0.06 (J)					
9/7/2017	0.06 (J)		0.04 (J)		<0.125	0.04 (J)	<0.125	0.09 (J)	0.37
2/5/2018	0.08 (J)	0.04 (J)							0.37
2/6/2018			<0.125	0.06 (J)	<0.125	0.04 (J)	<0.125	0.08 (J)	
2/7/2018									
6/11/2018					0.04 (J)		<0.125	0.09 (J)	
6/12/2018	0.06 (J)	<0.125	<0.125	0.05 (J)		0.04 (J)			0.32
10/22/2018		<0.125			0.06 (J)	0.05 (J)	<0.125	0.1	
10/23/2018	0.06 (J)			0.05 (J)					0.39
10/24/2018			<0.125						
5/20/2019		<0.125			0.0842 (J)		<0.125	0.0919 (J)	
5/21/2019	0.0649 (J)		<0.125			0.0526 (J)			0.264
5/22/2019				0.0515 (J)					
9/3/2019			<0.125			0.0554 (J)			
9/4/2019	0.0547 (J)	<0.125		0.0594 (J)	0.0962 (J)		<0.125	0.07 (J)	0.33
2/11/2020					<0.125		<0.125	0.0912 (J)	
2/12/2020	0.0586 (J)	<0.125	<0.125	0.0566 (J)		<0.125			0.301
9/8/2020					<0.125	0.097 (J)	<0.125		
9/9/2020	0.068 (J)	0.0644 (J)	<0.125	0.0748 (J)				0.118	0.313
4/13/2021	<0.125	<0.125	<0.125	0.069 (J)	<0.125	0.0602 (J)	<0.125	0.129	0.29
10/4/2021		0.0664 (J)		0.0637 (J)	<0.125		<0.125	0.12	0.376
10/5/2021	<0.125		<0.125			<0.125			
10/6/2021									
4/12/2022		<0.125		<0.125	<0.125	<0.125	<0.125	0.0724 (J)	
4/13/2022	<0.125		<0.125						0.307

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/31/2022 10:06 AM View: Appendix III - Interwell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-10	GN-GSA-MW-8	GN-GSA-MW-13	GN-GSA-MW-14S...GN-GSA-MW-15 ...	
3/23/2016					
3/24/2016	0.02 (J)	0.132 (J)	0.039 (J)		
5/10/2016			0.085 (J)		
5/11/2016	0.062 (J)	0.176 (J)			
7/5/2016				0.072 (J)	
7/6/2016	0.051 (J)	0.167 (J)	0.075 (J)		0.062 (J)
8/23/2016				0.066 (J)	0.045 (J)
9/6/2016	0.037 (J)	0.153 (J)	0.058 (J)		
9/7/2016				0.062 (J)	0.042 (J)
11/8/2016		0.043 (J)	0.3 (U)	<0.125	<0.125
11/9/2016	0.3 (U)				
1/3/2017				<0.125	<0.125
2/20/2017		0.15			0.1
2/21/2017	0.1			0.1	
2/22/2017			0.04 (J)		
5/30/2017		0.14			
5/31/2017	0.1		0.04 (J)	0.06 (J)	0.1
7/5/2017	<0.125	0.13	0.04 (J)	0.04 (J)	<0.125
9/5/2017				0.06 (J)	<0.125
9/7/2017	<0.125	0.13	0.05 (J)		
2/5/2018			0.04 (J)		
2/6/2018	<0.125	0.15		0.06 (J)	
2/7/2018					<0.125
6/11/2018					
6/12/2018	<0.125	0.13	0.04 (J)	0.05 (J)	<0.125
10/22/2018		0.15			
10/23/2018			0.05 (J)	0.07 (J)	<0.125
10/24/2018	<0.125				
5/20/2019					
5/21/2019	<0.125	0.109	0.0595 (J)		
5/22/2019				0.0601 (J)	<0.125
9/3/2019	<0.125	0.123			
9/4/2019			0.0555 (J)	0.0703 (J)	<0.125
2/11/2020					
2/12/2020	<0.125	0.108	<0.125	<0.125	<0.125
9/8/2020	0.0617 (J)				
9/9/2020		0.14	0.0655 (J)	0.0847 (J)	<0.125
4/13/2021	<0.125	0.119	0.0633 (J)	<0.125	<0.125
10/4/2021		0.134	0.0748 (J)	0.0838 (J)	
10/5/2021	<0.125				
10/6/2021					<0.125
4/12/2022		0.0621 (J)			<0.125
4/13/2022	<0.125		<0.125	<0.125	

Prediction Limit

Constituent: pH (pH) Analysis Run 5/31/2022 10:06 AM View: Appendix III - Interwell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-12	GN-GSA-MW-2 (bg)	GN-GSA-MW-11	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-9	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-1
3/23/2016	7.28	7.18	6.26	6.83	6.41	6.88	4.91	6.5	
3/24/2016									7.7
5/10/2016	7.19	7.2		6.84					7.67
5/11/2016			6.04		6.5	6.84	4.79	6.54	
7/5/2016		7.15							7.68
7/6/2016	7.29		6	6.94	6.47	7.01	4.66	6.58	
8/23/2016									
9/6/2016	7.29	7.17			6.51		4.8	6.64	7.8
9/7/2016			6.1	6.84		7.03			
11/8/2016		7.12		6.84	6.48	7.15	4.81	6.61	7.74
11/9/2016	7.29		5.85						
1/3/2017									
2/20/2017				7.04	6.39		4.51	6.63	
2/21/2017	7.1	7.12	5.99			6.67			
2/22/2017									7.61
5/30/2017					6.38	6.91	4.61		
5/31/2017	7.16	7.17	6.03	6.91				6.54	7.7
7/5/2017	7.08	7.18	6.13	7.02	6.44	6.51	4.64	6.67	7.66
9/5/2017		7.17		6.78					
9/7/2017	7.17		6.17		6.44	6.96	4.67	6.69	7.7
2/5/2018	7.22	7.12							7.78
2/6/2018			6.17	6.96	6.36	6.8	4.61	6.71	
2/7/2018									
6/11/2018					6.43		4.68	6.7	
6/12/2018	7.19	7.19	6.13	6.76		6.77			7.62
10/22/2018		7.06			6.48	6.86	4.68	6.71	
10/23/2018	7.22			6.59					7.65
10/24/2018			6.09						
5/20/2019		7.13			6.59		4.59	6.81	
5/21/2019	7.1		5.97			6.79			7.5
5/22/2019				6.38					
9/3/2019			5.12			6.53			
9/4/2019	7.24	7.16		6.71	6.81		4.59	6.78	7.4
2/11/2020					6.42		4.59	6.72	
2/12/2020	7.14	7.11	6	6.98		6.57			7.66
9/8/2020					6.2	5.85	6		
9/9/2020	6.77	7.22	5.67	6.48				6.86	7.6
4/13/2021	6.61	6.94	5.46	6.71	6.36	6.9	4.63	6.84	7.7
10/4/2021		7.13		6.43	6.66		4.86	6.96	7.33
10/5/2021	7.25		6.01			6.96			
10/6/2021									
4/12/2022		6.48		5.57	6.32	6.22	4.38	6.73	
4/13/2022	6.74		5.29						7.5

Prediction Limit

Constituent: pH (pH) Analysis Run 5/31/2022 10:06 AM View: Appendix III - Interwell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-10	GN-GSA-MW-8	GN-GSA-MW-13	GN-GSA-MW-14S...GN-GSA-MW-15 ...	
3/23/2016					
3/24/2016	6.95	7.45	7.14		
5/10/2016			7.17		
5/11/2016	7.07	7.48			
7/5/2016				7.44	
7/6/2016	7.13	7.46	7.19		6.1
8/23/2016				7.47	5.87
9/6/2016	7.1	7.44	7.18		
9/7/2016				7.51	5.92
11/8/2016		7.37	7.18	7.37	5.91
11/9/2016	7.1				
1/3/2017				7.37	5.93
2/20/2017		7.36			5.91
2/21/2017	7			7.41	
2/22/2017			7.02		
5/30/2017		7.38			
5/31/2017	7.01		7.07	7.47	6
7/5/2017	7.07	7.44	7	7.5	6
9/5/2017				7.39	5.9
9/7/2017	7.01	7.41	7.02		
2/5/2018			7.12		
2/6/2018	7.09	7.41		7.47	
2/7/2018					5.86
6/11/2018					
6/12/2018	7.07	7.4	7.09	7.53	6.05
10/22/2018		7.33			
10/23/2018			7.09	7.4	5.84
10/24/2018	7.14				
5/20/2019					
5/21/2019	6.98	7.31	7.05		
5/22/2019				7.43	5.81
9/3/2019	6.67	7.46			
9/4/2019			6.71	7.45	5.67
2/11/2020					
2/12/2020	7.03	7.51	7.09	7.47	5.72
9/8/2020	5.9				
9/9/2020		7.54	6.95	7.32	5.71
4/13/2021	7.22	7.7	7.17	7.33	5.84
10/4/2021		7.82	6.95	7.21	
10/5/2021	7.12				
10/6/2021					5.64
4/12/2022		7.22			5.25
4/13/2022	6.85		6.84	7.4	

FIGURE F.

Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 5/31/2022, 10:10 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	**GN-GSA-MW-12**	**3.901**	**102**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GN-GSA-MW-15 (bg)**	**-0.8106**	**-117**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GN-GSA-MW-3 (bg)**	**-9.601**	**-119**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GN-GSA-MW-5**	**6.556**	**115**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-11**	**1.703**	**117**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-14S (bg)**	**-0.4589**	**-110**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-15 (bg)**	**-0.3293**	**-87**	**-68**	**Yes**	**18**	**5.556**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-3 (bg)**	**-0.09949**	**-77**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	**GN-GSA-MW-15 (bg)**	**-0.05887**	**-104**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	**GN-GSA-MW-3 (bg)**	**-0.07961**	**-75**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-14S (bg)**	**-1.698**	**-97**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-15 (bg)**	**-0.3716**	**-87**	**-68**	**Yes**	**18**	**5.556**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-3 (bg)**	**-3.054**	**-137**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-5**	**20.37**	**115**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-8**	**0.5214**	**93**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GN-GSA-MW-15 (bg)**	**-4.203**	**-92**	**-68**	**Yes**	**18**	**5.556**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GN-GSA-MW-3 (bg)**	**-28.38**	**-131**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GN-GSA-MW-5**	**39.13**	**116**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**

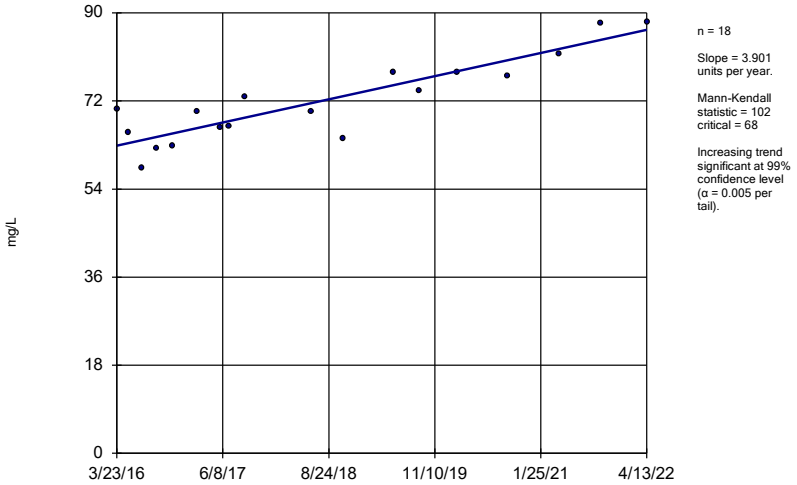
Trend Tests - Prediction Limit Exceedances - All Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 5/31/2022, 10:10 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	**GN-GSA-MW-12**	**3.901**	**102**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GN-GSA-MW-14S (bg)	-0.2897	-13	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GN-GSA-MW-15 (bg)**	**-0.8106**	**-117**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GN-GSA-MW-2 (bg)	1.479	52	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GN-GSA-MW-3 (bg)**	**-9.601**	**-119**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GN-GSA-MW-5**	**6.556**	**115**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-11**	**1.703**	**117**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-14S (bg)**	**-0.4589**	**-110**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-15 (bg)**	**-0.3293**	**-87**	**-68**	**Yes**	**18**	**5.556**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	GN-GSA-MW-2 (bg)	-0.001806	-3	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**GN-GSA-MW-3 (bg)**	**-0.09949**	**-77**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	GN-GSA-MW-1	-0.0004986	-5	-74	No	19	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-14S (bg)	0.003036	30	74	No	19	26.32	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-15 (bg)	0	65	74	No	19	73.68	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-2 (bg)	0.004864	55	74	No	19	52.63	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-3 (bg)	0	-4	-74	No	19	10.53	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-14S (bg)	-0.01357	-39	-74	No	19	0	n/a	n/a	0.01	NP
pH (pH)	**GN-GSA-MW-15 (bg)**	**-0.05887**	**-104**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	GN-GSA-MW-2 (bg)	-0.01583	-55	-74	No	19	0	n/a	n/a	0.01	NP
pH (pH)	**GN-GSA-MW-3 (bg)**	**-0.07961**	**-75**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	GN-GSA-MW-6	-0.02307	-38	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GN-GSA-MW-14S (bg)**	**-1.698**	**-97**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-15 (bg)**	**-0.3716**	**-87**	**-68**	**Yes**	**18**	**5.556**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GN-GSA-MW-2 (bg)	0.2537	41	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GN-GSA-MW-3 (bg)**	**-3.054**	**-137**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-5**	**20.37**	**115**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-8**	**0.5214**	**93**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GN-GSA-MW-14S (bg)	-3.067	-61	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GN-GSA-MW-15 (bg)**	**-4.203**	**-92**	**-68**	**Yes**	**18**	**5.556**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GN-GSA-MW-2 (bg)	-1.64	-33	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GN-GSA-MW-3 (bg)**	**-28.38**	**-131**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GN-GSA-MW-5**	**39.13**	**116**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Sen's Slope Estimator

GN-GSA-MW-12



n = 18

Slope = 3.901 units per year.

Mann-Kendall statistic = 102 critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

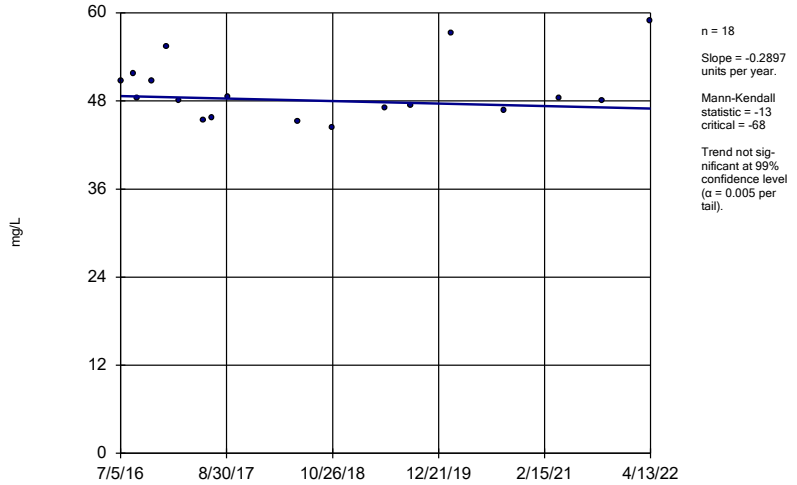
Constituent: Calcium Analysis Run 5/31/2022 10:08 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-14S (bg)



n = 18

Slope = -0.2897 units per year.

Mann-Kendall statistic = -13 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

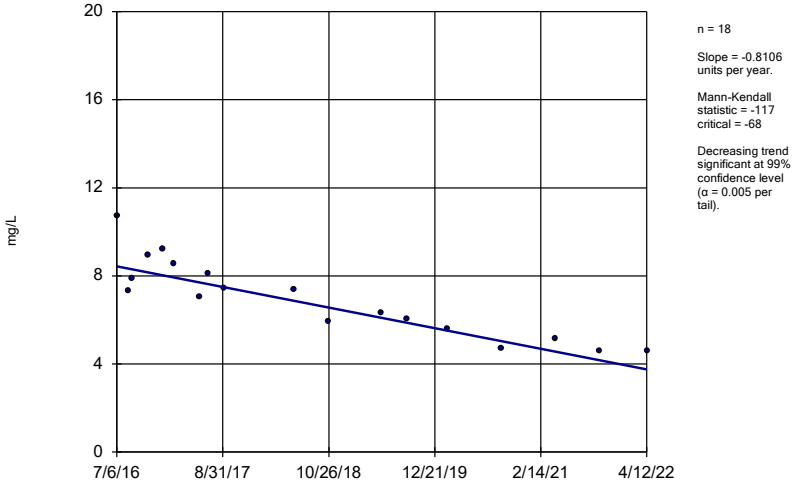
Constituent: Calcium Analysis Run 5/31/2022 10:08 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-15 (bg)



n = 18

Slope = -0.8106 units per year.

Mann-Kendall statistic = -117 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

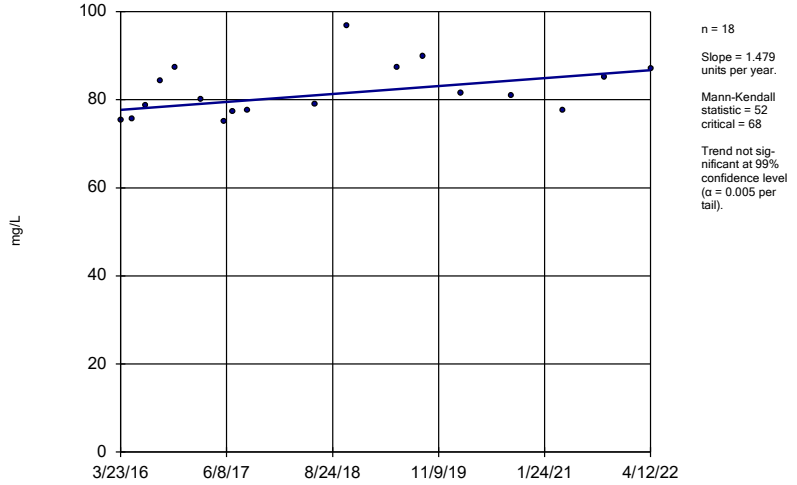
Constituent: Calcium Analysis Run 5/31/2022 10:08 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-2 (bg)



n = 18

Slope = 1.479 units per year.

Mann-Kendall statistic = 52 critical = 68

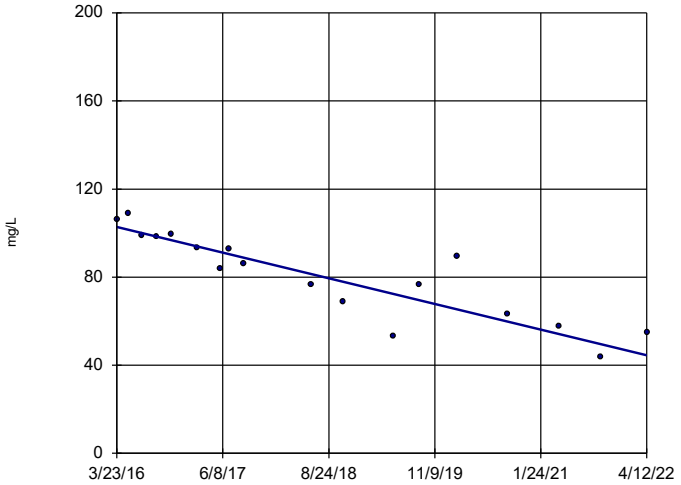
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/31/2022 10:08 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston GSA

Sen's Slope Estimator

GN-GSA-MW-3 (bg)



n = 18

Slope = -9.601 units per year.

Mann-Kendall statistic = -119 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

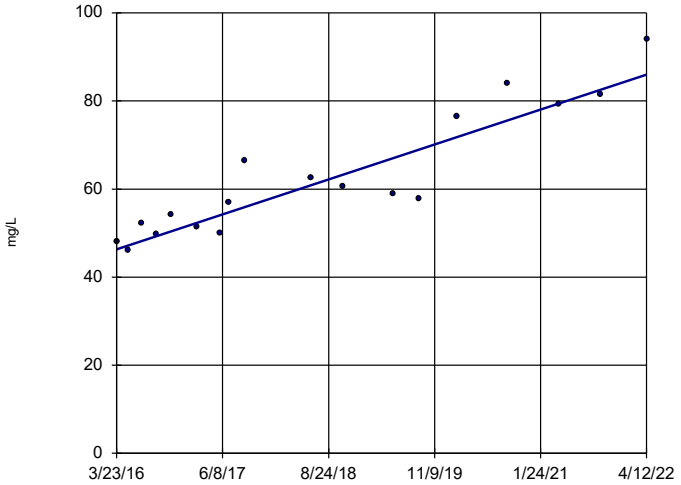
Constituent: Calcium Analysis Run 5/31/2022 10:08 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-5



n = 18

Slope = 6.556 units per year.

Mann-Kendall statistic = 115 critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

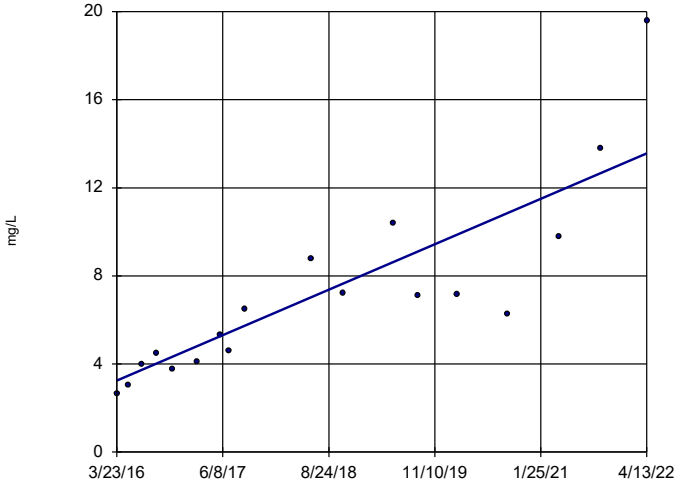
Constituent: Calcium Analysis Run 5/31/2022 10:08 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-11



n = 18

Slope = 1.703 units per year.

Mann-Kendall statistic = 117 critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

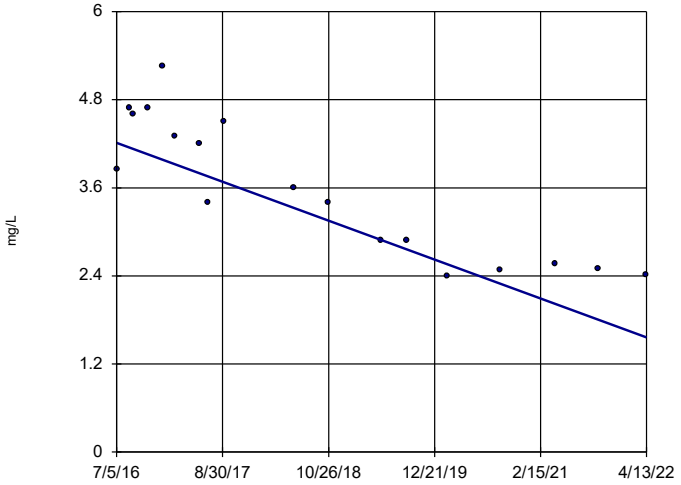
Constituent: Chloride Analysis Run 5/31/2022 10:08 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-14S (bg)



n = 18

Slope = -0.4589 units per year.

Mann-Kendall statistic = -110 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

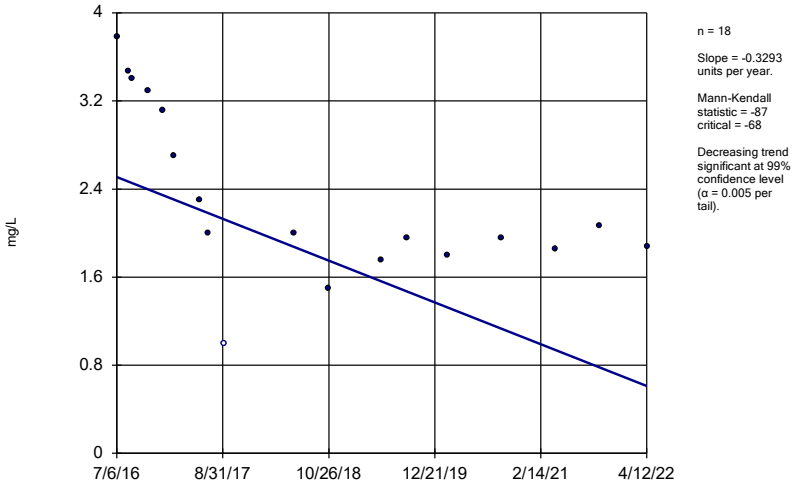
Constituent: Chloride Analysis Run 5/31/2022 10:08 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston GSA

Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-GSA-MW-15 (bg)



n = 18

Slope = -0.3293 units per year.

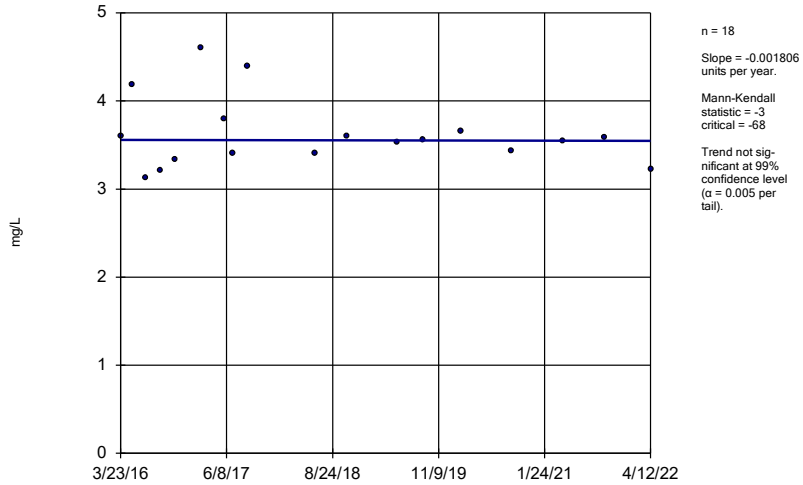
Mann-Kendall statistic = -87
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/31/2022 10:08 AM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sen's Slope Estimator

GN-GSA-MW-2 (bg)



n = 18

Slope = -0.001806 units per year.

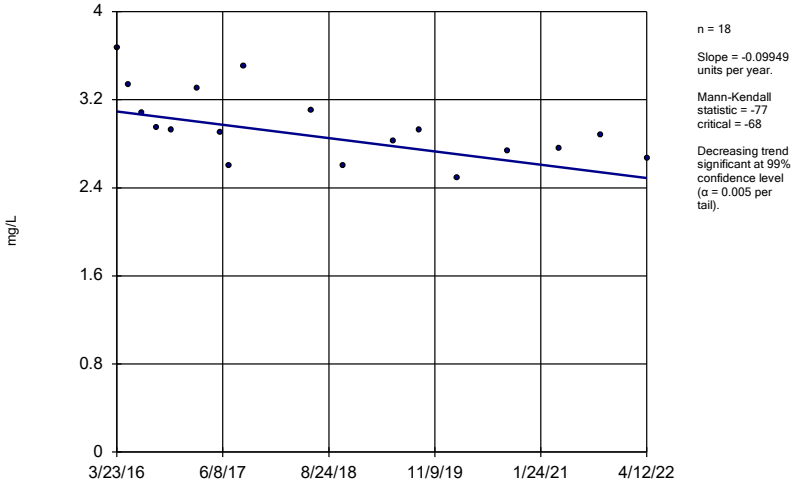
Mann-Kendall statistic = -3
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/31/2022 10:08 AM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sen's Slope Estimator

GN-GSA-MW-3 (bg)



n = 18

Slope = -0.09949 units per year.

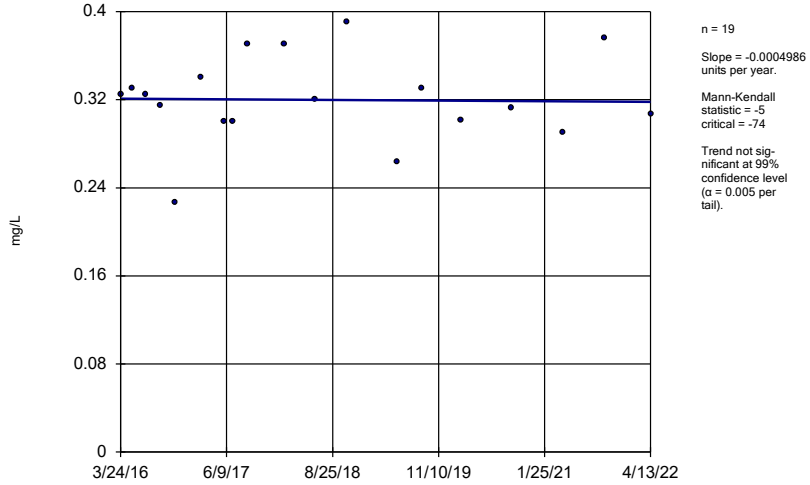
Mann-Kendall statistic = -77
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/31/2022 10:08 AM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sen's Slope Estimator

GN-GSA-MW-1



n = 19

Slope = -0.0004986 units per year.

Mann-Kendall statistic = -5
critical = -74

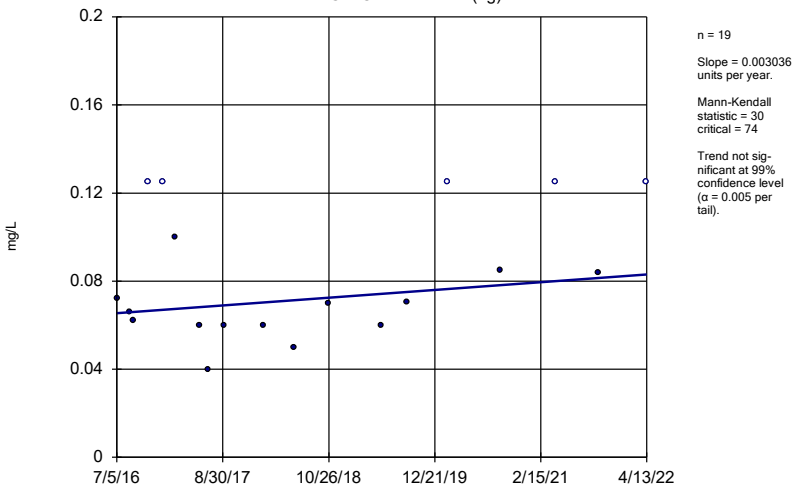
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 5/31/2022 10:08 AM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-GSA-MW-14S (bg)



n = 19

Slope = 0.003036 units per year.

Mann-Kendall statistic = 30
critical = 74

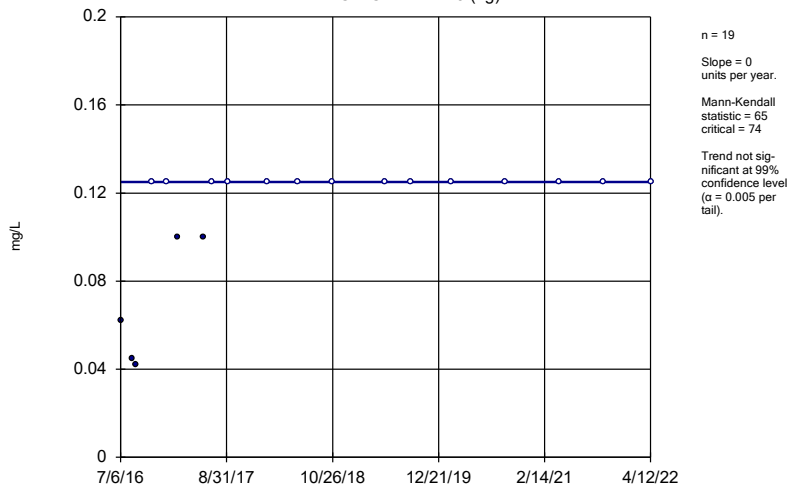
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 5/31/2022 10:08 AM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-GSA-MW-15 (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 65
critical = 74

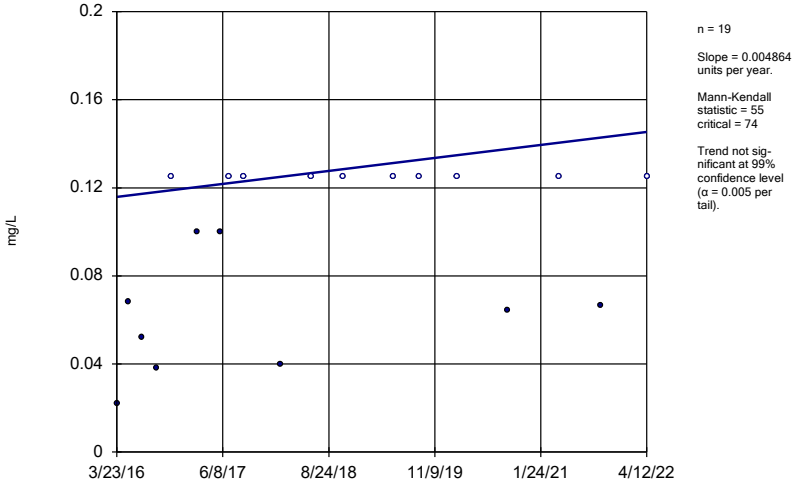
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 5/31/2022 10:08 AM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-GSA-MW-2 (bg)



n = 19

Slope = 0.004864 units per year.

Mann-Kendall statistic = 55
critical = 74

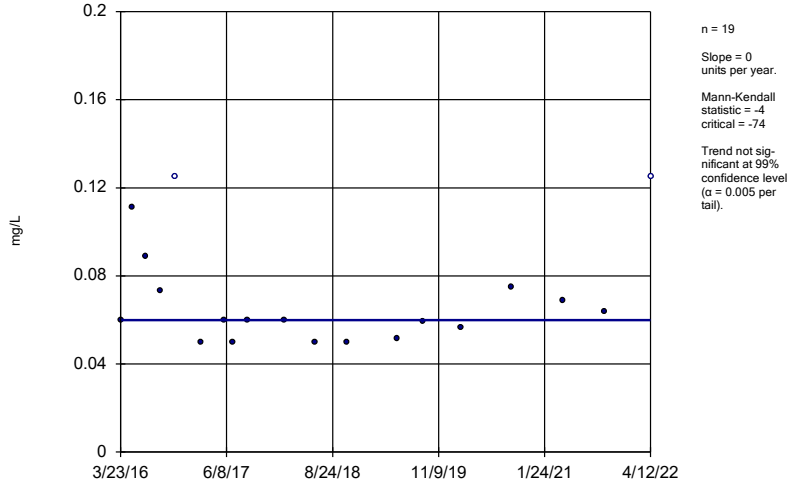
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 5/31/2022 10:08 AM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-GSA-MW-3 (bg)



n = 19

Slope = 0 units per year.

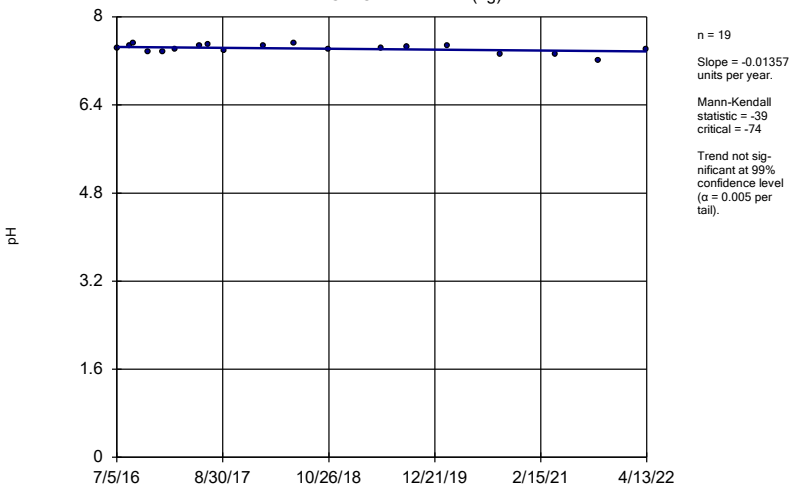
Mann-Kendall statistic = -4
critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 5/31/2022 10:08 AM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sen's Slope Estimator

GN-GSA-MW-14S (bg)



n = 19

Slope = -0.01357 units per year.

Mann-Kendall statistic = -39
critical = -74

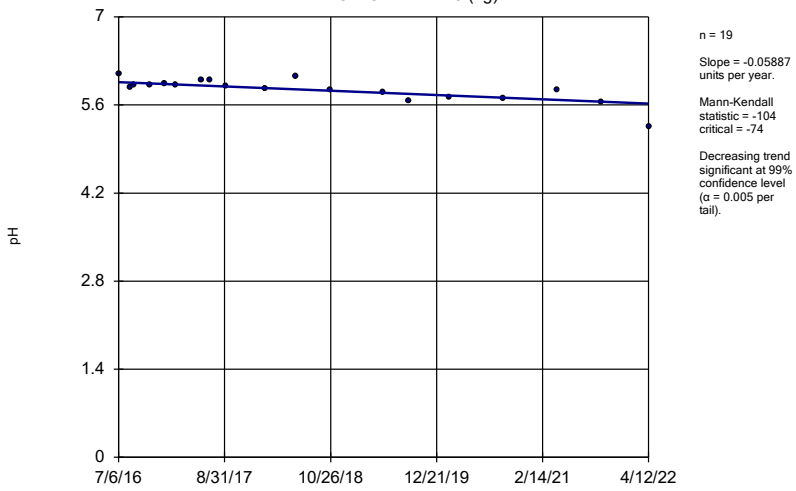
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 5/31/2022 10:08 AM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-15 (bg)



n = 19

Slope = -0.05887 units per year.

Mann-Kendall statistic = -104
critical = -74

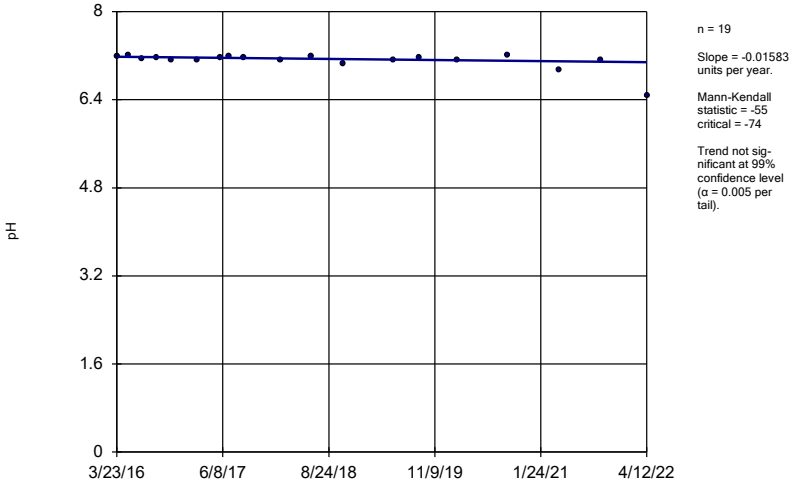
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 5/31/2022 10:08 AM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-2 (bg)



n = 19

Slope = -0.01583 units per year.

Mann-Kendall statistic = -55
critical = -74

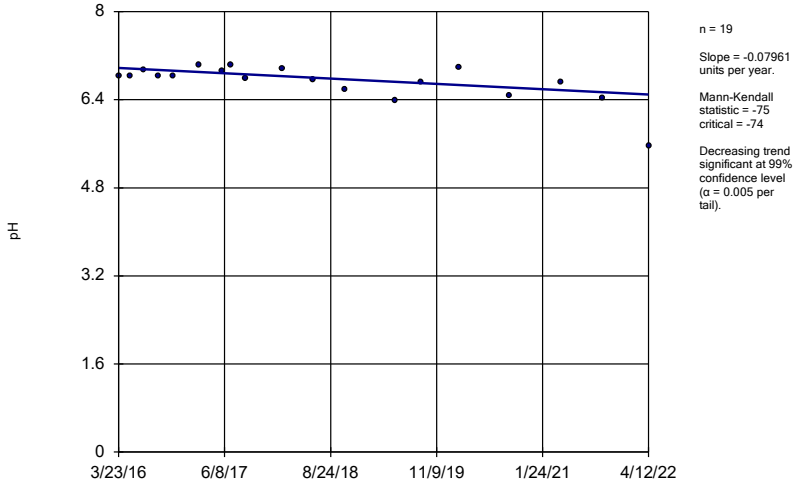
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 5/31/2022 10:08 AM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-3 (bg)



n = 19

Slope = -0.07961 units per year.

Mann-Kendall statistic = -75
critical = -74

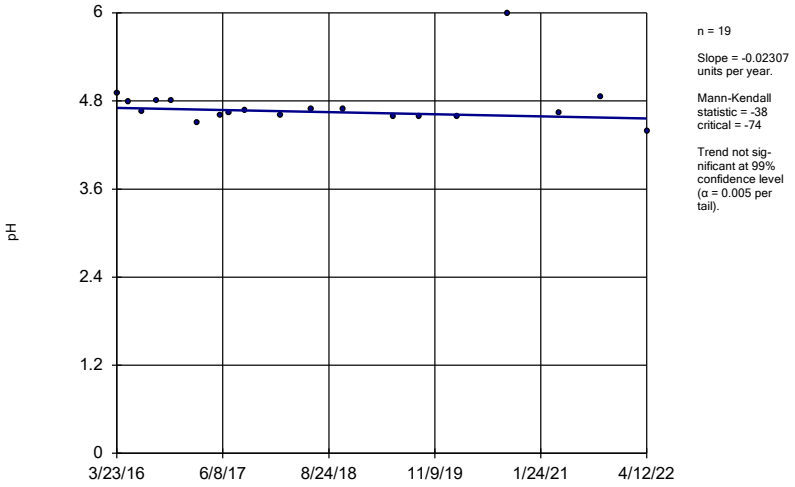
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 5/31/2022 10:08 AM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-6



n = 19

Slope = -0.02307 units per year.

Mann-Kendall statistic = -38
critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

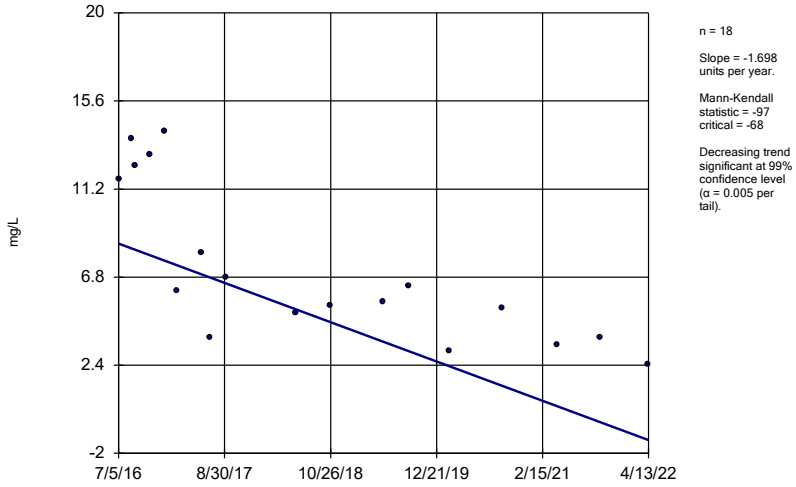
Constituent: pH Analysis Run 5/31/2022 10:08 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-14S (bg)



n = 18

Slope = -1.698 units per year.

Mann-Kendall statistic = -97
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/31/2022 10:08 AM View: Appendix III - Trend Tests

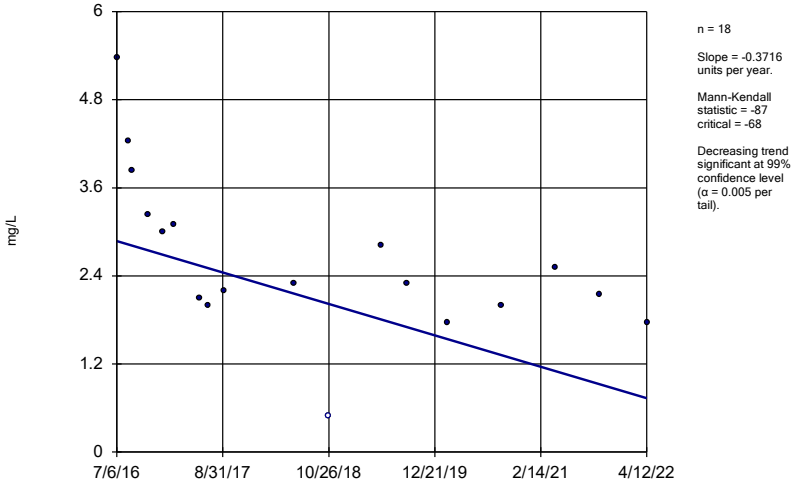
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-GSA-MW-15 (bg)



n = 18

Slope = -0.3716 units per year.

Mann-Kendall statistic = -87
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

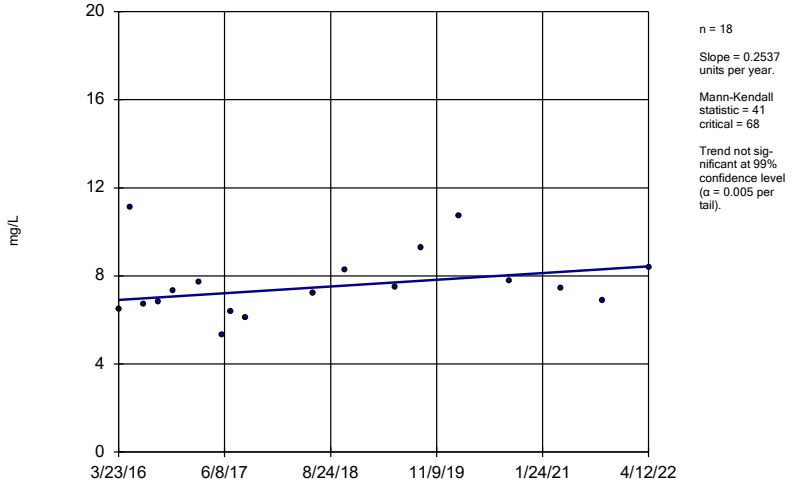
Constituent: Sulfate Analysis Run 5/31/2022 10:08 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-2 (bg)



n = 18

Slope = 0.2537 units per year.

Mann-Kendall statistic = 41
critical = 68

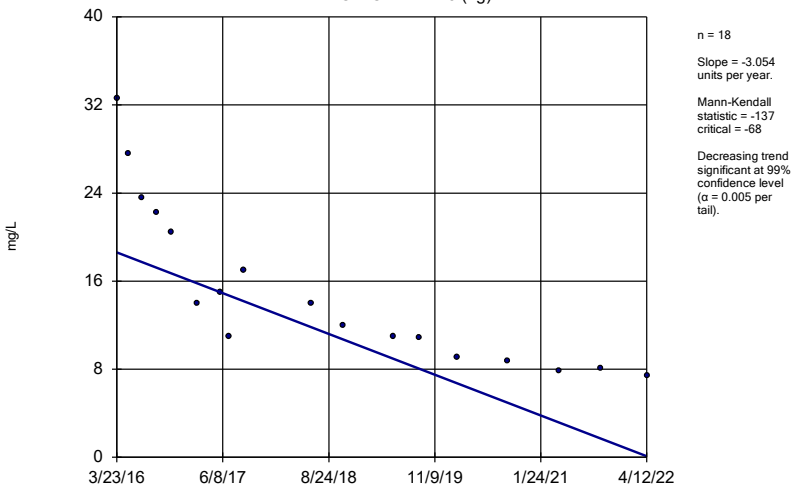
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/31/2022 10:08 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston GSA

Sen's Slope Estimator

GN-GSA-MW-3 (bg)



n = 18

Slope = -3.054 units per year.

Mann-Kendall statistic = -137
critical = -68

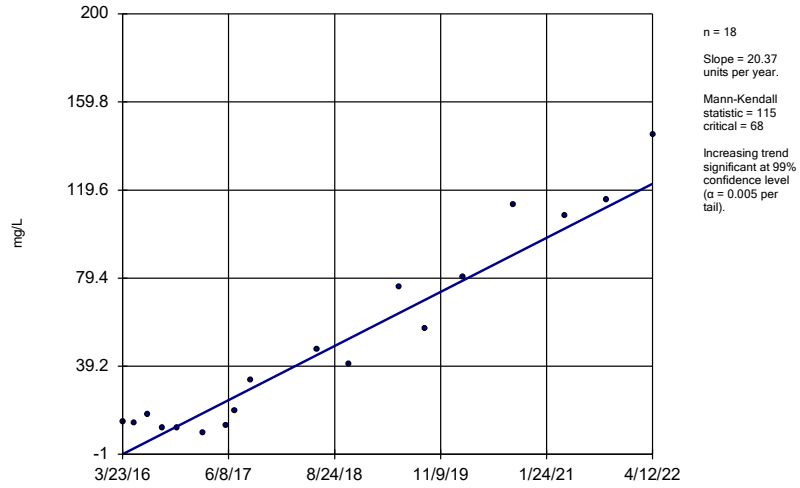
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/31/2022 10:08 AM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-5



n = 18

Slope = 20.37 units per year.

Mann-Kendall statistic = 115
critical = 68

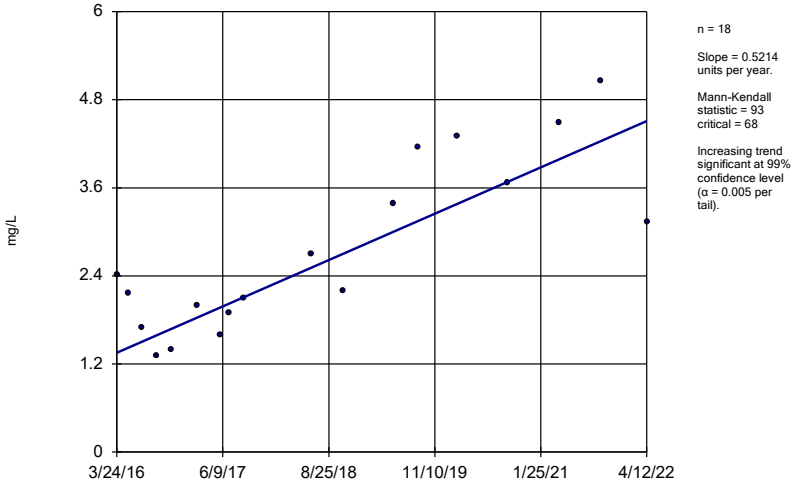
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/31/2022 10:08 AM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-8



n = 18

Slope = 0.5214 units per year.

Mann-Kendall statistic = 93
critical = 68

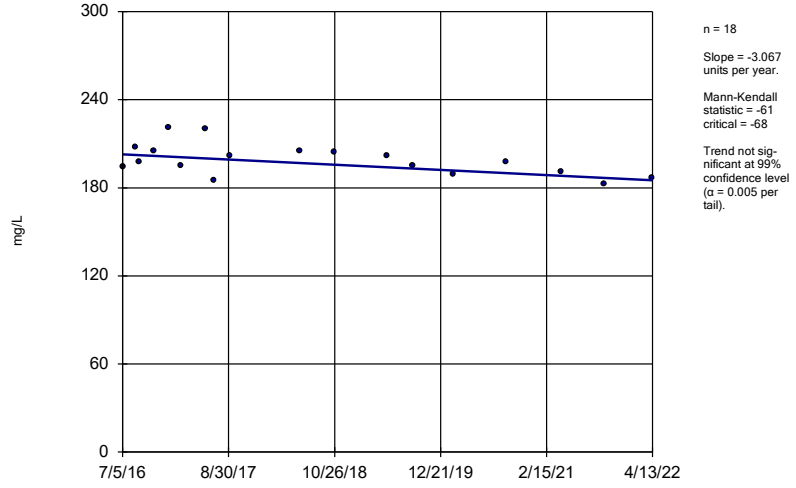
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/31/2022 10:08 AM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-14S (bg)



n = 18

Slope = -3.067 units per year.

Mann-Kendall statistic = -61
critical = -68

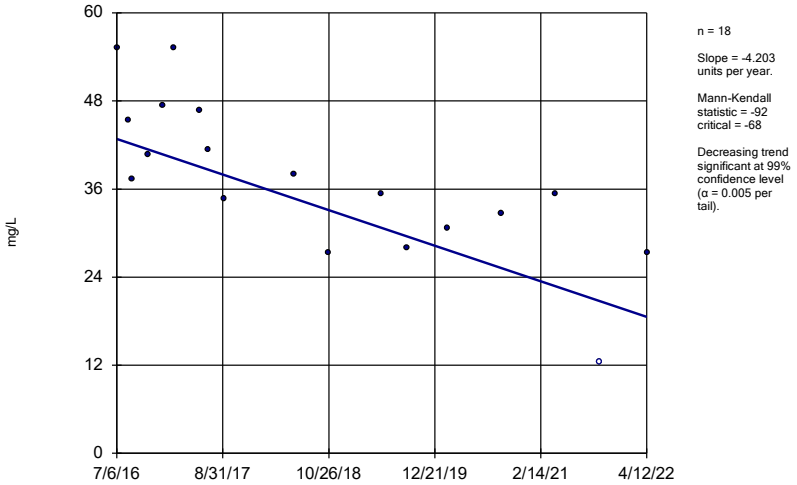
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/31/2022 10:08 AM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-GSA-MW-15 (bg)



n = 18

Slope = -4.203 units per year.

Mann-Kendall statistic = -92 critical = -68

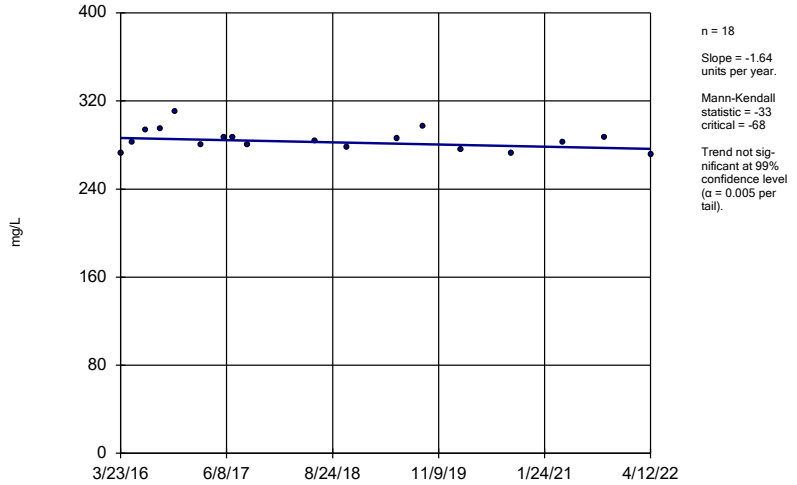
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/31/2022 10:08 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston GSA

Sen's Slope Estimator

GN-GSA-MW-2 (bg)



n = 18

Slope = -1.64 units per year.

Mann-Kendall statistic = -33 critical = -68

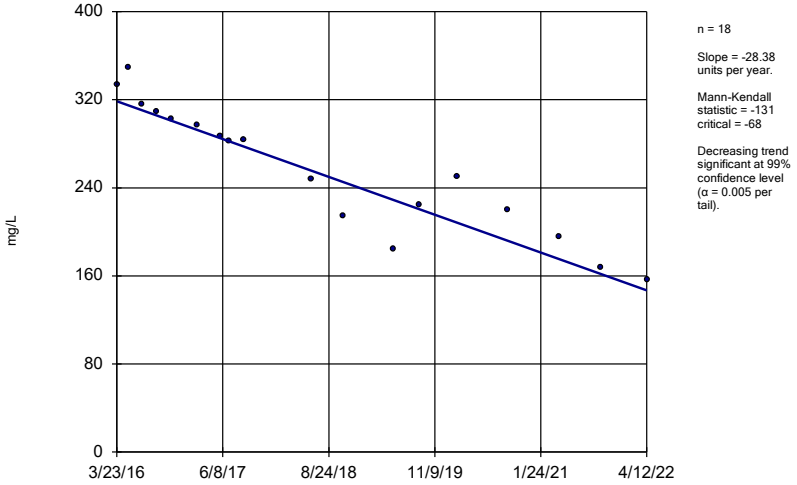
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/31/2022 10:08 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston GSA

Sen's Slope Estimator

GN-GSA-MW-3 (bg)



n = 18

Slope = -28.38 units per year.

Mann-Kendall statistic = -131 critical = -68

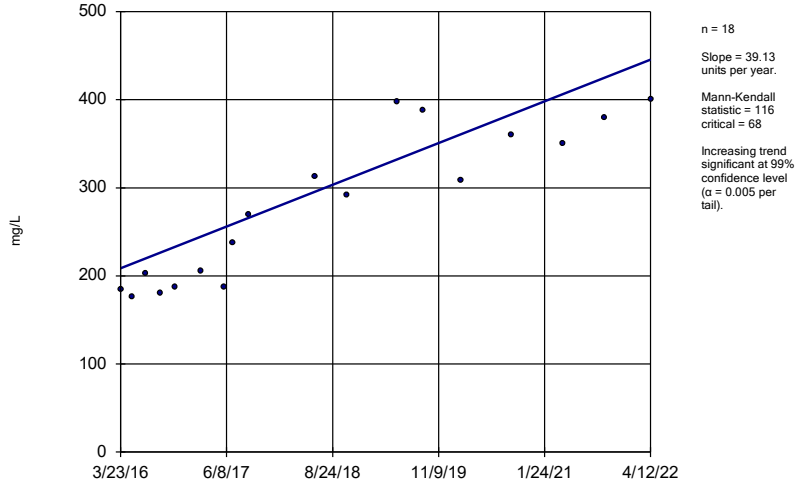
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/31/2022 10:08 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston GSA

Sen's Slope Estimator

GN-GSA-MW-5



n = 18

Slope = 39.13 units per year.

Mann-Kendall statistic = 116 critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/31/2022 10:08 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston GSA

FIGURE G.

Upper Tolerance Limits - Summary Table

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 1/11/2022, 10:38 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.00117	n/a	n/a	n/a	68	n/a	n/a	95.59	n/a	n/a	0.03056	NP Inter
Arsenic (mg/L)	n/a	0.00032	n/a	n/a	n/a	68	n/a	n/a	89.71	n/a	n/a	0.03056	NP Inter
Barium (mg/L)	n/a	0.0622	n/a	n/a	n/a	68	n/a	n/a	0	n/a	n/a	0.03056	NP Inter
Beryllium (mg/L)	n/a	0.00102	n/a	n/a	n/a	68	n/a	n/a	100	n/a	n/a	0.03056	NP Inter
Cadmium (mg/L)	n/a	0.0002	n/a	n/a	n/a	68	n/a	n/a	100	n/a	n/a	0.03056	NP Inter
Chromium (mg/L)	n/a	0.00102	n/a	n/a	n/a	68	n/a	n/a	89.71	n/a	n/a	0.03056	NP Inter
Cobalt (mg/L)	n/a	0.00313	n/a	n/a	n/a	68	n/a	n/a	94.12	n/a	n/a	0.03056	NP Inter
Combined Radium 226 + 228 (pCi/L)	n/a	2.36	n/a	n/a	n/a	68	n/a	n/a	2.941	n/a	n/a	0.03056	NP Inter
Fluoride (mg/L)	n/a	0.111	n/a	n/a	n/a	72	n/a	n/a	37.5	n/a	n/a	0.02489	NP Inter
Lead (mg/L)	n/a	0.0002	n/a	n/a	n/a	68	n/a	n/a	100	n/a	n/a	0.03056	NP Inter
Lithium (mg/L)	n/a	0.02	n/a	n/a	n/a	68	n/a	n/a	100	n/a	n/a	0.03056	NP Inter
Mercury (mg/L)	n/a	0.0005	n/a	n/a	n/a	68	n/a	n/a	100	n/a	n/a	0.03056	NP Inter
Molybdenum (mg/L)	n/a	0.00046	n/a	n/a	n/a	68	n/a	n/a	92.65	n/a	n/a	0.03056	NP Inter
Selenium (mg/L)	n/a	0.00102	n/a	n/a	n/a	68	n/a	n/a	98.53	n/a	n/a	0.03056	NP Inter
Thallium (mg/L)	n/a	0.000228	n/a	n/a	n/a	68	n/a	n/a	98.53	n/a	n/a	0.03056	NP Inter

FIGURE H.

GASTON GYPSUM POND GWPS			
Analyte	**Units**	**Background**	**GWPS**
Antimony	mg/L	0.00117	0.006
Arsenic	mg/L	0.00032	0.01
Barium	mg/L	0.0622	2
Beryllium	mg/L	0.00102	0.004
Cadmium	mg/L	0.0002	0.005
Chromium	mg/L	0.00102	0.1
Cobalt	mg/L	0.00313	0.006
Combined Radium-226/228	pCi/L	2.36	5
Fluoride	mg/L	0.111	4
Lead	mg/L	0.0002	0.015
Lithium	mg/L	0.02	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.00046	0.1
Selenium	mg/L	0.00102	0.05
Thallium	mg/L	0.000228	0.002

Notes:

1. mg/L - Milligrams per liter

2. pCi/L - Picocuries per liter

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

4. GWPS established during second semi-annual sampling event in 2021.

&/'hZ /X

Confidence Intervals - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 5/31/2022, 10:18 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	**GN-GSA-MW-1**	**2.585**	**2.002**	**2**	**Yes**	**8**	**2.294**	**0.275**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Intervals - All Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 5/31/2022, 10:18 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GN-GSA-MW-1	0.00102	0.000909	0.006	No	8	0.001006	0.00003924	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-GSA-MW-10	0.00102	0.000916	0.006	No	8	0.001007	0.00003677	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-GSA-MW-12	0.00102	0.000813	0.006	No	8	0.0009941	0.00007319	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-GSA-MW-13	0.00127	0.00102	0.006	No	8	0.001051	0.00008839	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-GSA-MW-5	0.00241	0.00102	0.006	No	8	0.001194	0.0004914	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-GSA-MW-6	0.00171	0.00102	0.006	No	8	0.001106	0.000244	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-GSA-MW-7	0.00123	0.00102	0.006	No	8	0.001046	0.00007425	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-GSA-MW-8	0.00106	0.00102	0.006	No	8	0.001025	0.00001414	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-GSA-MW-9	0.00112	0.00102	0.006	No	8	0.001032	0.00003536	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-1	0.007288	0.003149	0.01	No	8	0.005219	0.001953	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-GSA-MW-10	0.0002	0.00007	0.01	No	8	0.0001696	0.00005641	75	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-11	0.0002	0.00009	0.01	No	8	0.0001617	0.00005318	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-12	0.00033	0.0002	0.01	No	8	0.0002212	0.00004518	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-13	0.00348	0.00012	0.01	No	8	0.0005911	0.001168	50	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-GSA-MW-5	0.00235	0.0001442	0.01	No	8	0.001247	0.001112	25	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	GN-GSA-MW-6	0.0002	0.00008	0.01	No	8	0.0001611	0.0000543	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-7	0.001	0.0002	0.01	No	8	0.0003736	0.0002757	50	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-GSA-MW-8	0.001412	0.001208	0.01	No	8	0.00131	0.00009577	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-GSA-MW-9	0.000237	0.00014	0.01	No	8	0.0001946	0.00002709	62.5	None	No	0.004	NP (NDs)
Barium (mg/L)	**GN-GSA-MW-1**	**2.585**	**2.002**	**2**	**Yes**	**8**	**2.294**	**0.275**	**0**	**None**	**No**	**0.01**	**Param.**
Barium (mg/L)	GN-GSA-MW-10	0.03934	0.03324	2	No	8	0.03629	0.002878	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-11	0.0162	0.00444	2	No	8	0.007318	0.003807	0	None	No	0.004	NP (normality)
Barium (mg/L)	GN-GSA-MW-12	0.02502	0.01835	2	No	8	0.02169	0.003146	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-13	0.0697	0.0369	2	No	8	0.04506	0.01039	0	None	No	0.004	NP (normality)
Barium (mg/L)	GN-GSA-MW-5	0.07437	0.04615	2	No	8	0.06026	0.01331	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-6	0.01949	0.01554	2	No	8	0.01751	0.001865	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-7	0.02285	0.01553	2	No	8	0.01919	0.003452	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-8	0.0314	0.0257	2	No	8	0.02788	0.002458	0	None	No	0.004	NP (normality)
Barium (mg/L)	GN-GSA-MW-9	0.02639	0.02224	2	No	8	0.02431	0.001956	0	None	No	0.01	Param.
Cadmium (mg/L)	GN-GSA-MW-10	0.0002	0.00008	0.005	No	8	0.000185	0.00004243	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-1	0.00102	0.00021	0.1	No	8	0.0009187	0.0002864	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-10	0.00102	0.00023	0.1	No	8	0.0009212	0.0002793	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-11	0.00102	0.0003	0.1	No	8	0.00093	0.0002546	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-12	0.00102	0.00021	0.1	No	8	0.0008275	0.0003571	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-13	0.002	0.000518	0.1	No	8	0.0009585	0.000486	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-GSA-MW-5	0.00102	0.00028	0.1	No	8	0.0008362	0.0003402	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-6	0.00102	0.00022	0.1	No	8	0.0007284	0.0004026	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-7	0.00102	0.000361	0.1	No	8	0.0008801	0.0002644	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-8	0.00102	0.000291	0.1	No	8	0.0007639	0.0003542	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-9	0.00102	0.00021	0.1	No	8	0.0008257	0.0003601	75	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-11	0.003096	0.001659	0.006	No	8	0.002322	0.0009415	12.5	None	x^2	0.01	Param.
Cobalt (mg/L)	GN-GSA-MW-12	0.00042	0.00016	0.006	No	8	0.0002247	0.00008055	62.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-13	0.0002	0.0001	0.006	No	8	0.0001822	0.00003634	75	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-5	0.004722	0.0004226	0.006	No	8	0.002509	0.002176	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	GN-GSA-MW-6	0.000682	0.0002	0.006	No	8	0.000374	0.0002403	62.5	Kaplan-Meier	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-7	0.00217	0.0002	0.006	No	8	0.0005837	0.0006766	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-GSA-MW-8	0.0002	0.00007	0.006	No	8	0.0001666	0.00005003	62.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-9	0.00041	0.0000816	0.006	No	8	0.0002114	0.00009029	75	None	No	0.004	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-1	1.78	0.925	5	No	8	1.344	0.4583	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-10	2.293	0.1533	5	No	8	1.181	1.637	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-11	1.773	0.07089	5	No	8	0.8594	1.096	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-12	1.413	0.2411	5	No	8	0.8273	0.553	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-13	1.643	0.2405	5	No	8	0.9734	1.222	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-5	1.105	0.08199	5	No	8	0.5935	0.4826	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-6	1.245	0.07475	5	No	8	0.6598	0.5519	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-7	0.9881	0.0946	5	No	8	0.5414	0.4215	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-8	0.8329	0.0974	5	No	8	0.4652	0.347	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-9	0.8409	0.1718	5	No	8	0.4904	0.3597	0	None	x^(1/3)	0.01	Param.

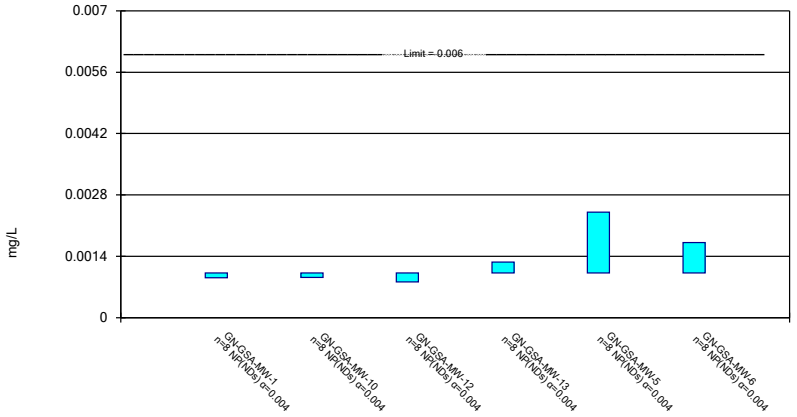
Confidence Intervals - All Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 5/31/2022, 10:18 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GN-GSA-MW-1	0.3666	0.2762	4	No	8	0.3214	0.04265	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-GSA-MW-10	0.125	0.0617	4	No	8	0.1171	0.02238	87.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-GSA-MW-12	0.125	0.0547	4	No	8	0.08515	0.03324	37.5	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-GSA-MW-13	0.125	0.05	4	No	8	0.07733	0.03031	25	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-GSA-MW-5	0.125	0.06	4	No	8	0.1082	0.02523	62.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-GSA-MW-7	0.1223	0.07583	4	No	8	0.09906	0.02192	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-GSA-MW-8	0.1467	0.08954	4	No	8	0.1181	0.02698	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-GSA-MW-9	0.125	0.05	4	No	8	0.08628	0.03525	37.5	None	No	0.004	NP (normality)
Lead (mg/L)	GN-GSA-MW-11	0.0002	0.00011	0.015	No	8	0.0001887	0.00003182	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-GSA-MW-13	0.00228	0.0002	0.015	No	8	0.00046	0.0007354	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-GSA-MW-6	0.0004	0.0002	0.015	No	8	0.0002519	0.00007709	62.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-GSA-MW-9	0.0002	0.00011	0.015	No	8	0.0001887	0.00003182	87.5	None	No	0.004	NP (NDs)
Lithium (mg/L)	GN-GSA-MW-1	0.02	0.00953	0.04	No	8	0.01486	0.005492	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-GSA-MW-1	0.005371	0.003419	0.1	No	8	0.004395	0.000921	0	None	No	0.01	Param.
Molybdenum (mg/L)	GN-GSA-MW-12	0.01	0.000298	0.1	No	8	0.006367	0.005014	62.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-GSA-MW-13	0.01	0.00016	0.1	No	8	0.006318	0.005081	62.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-GSA-MW-5	0.01	0.00009	0.1	No	8	0.006288	0.005123	62.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-GSA-MW-7	0.01	0.00025	0.1	No	8	0.006349	0.005038	62.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-GSA-MW-8	0.004113	0.003199	0.1	No	8	0.003656	0.000431	0	None	No	0.01	Param.
Molybdenum (mg/L)	GN-GSA-MW-9	0.01	0.000207	0.1	No	8	0.006342	0.005048	62.5	None	No	0.004	NP (NDs)

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

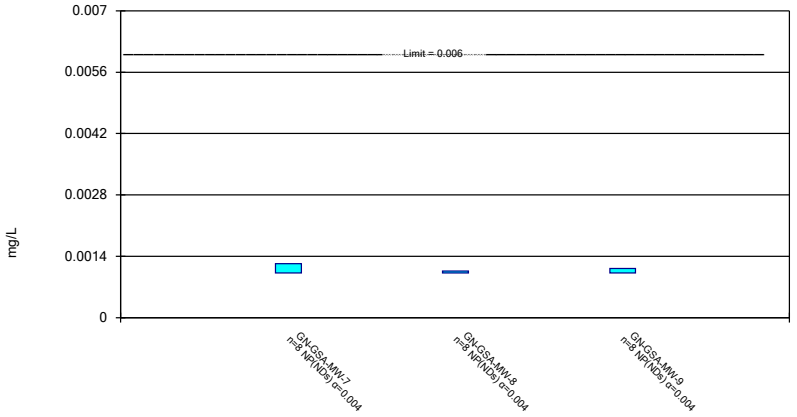


Constituent: Antimony Analysis Run 5/31/2022 10:17 AM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

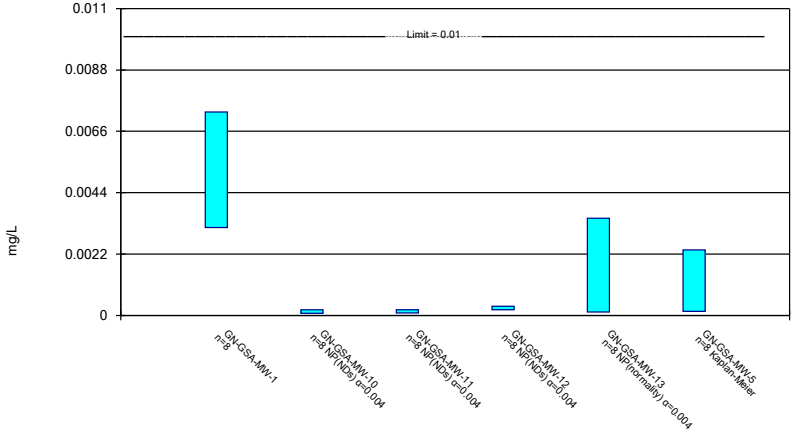


Constituent: Antimony Analysis Run 5/31/2022 10:17 AM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

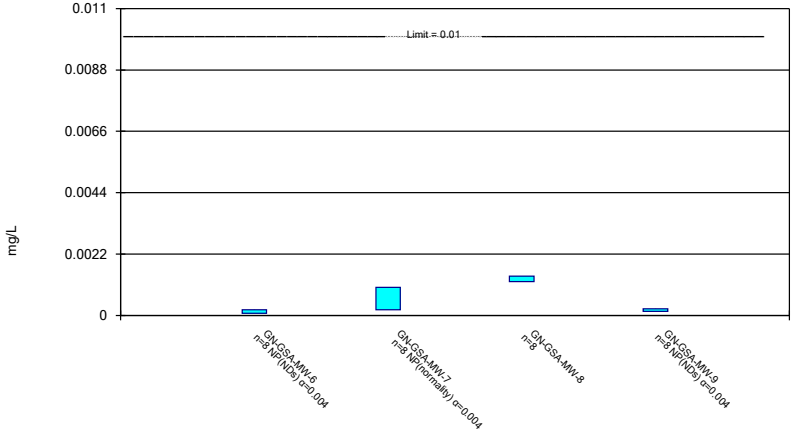


Constituent: Arsenic Analysis Run 5/31/2022 10:17 AM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

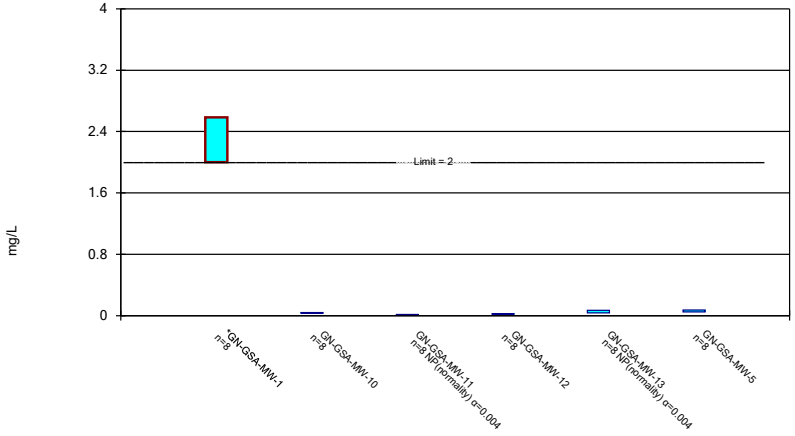
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 5/31/2022 10:17 AM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Parametric and Non-Parametric (NP) Confidence Interval

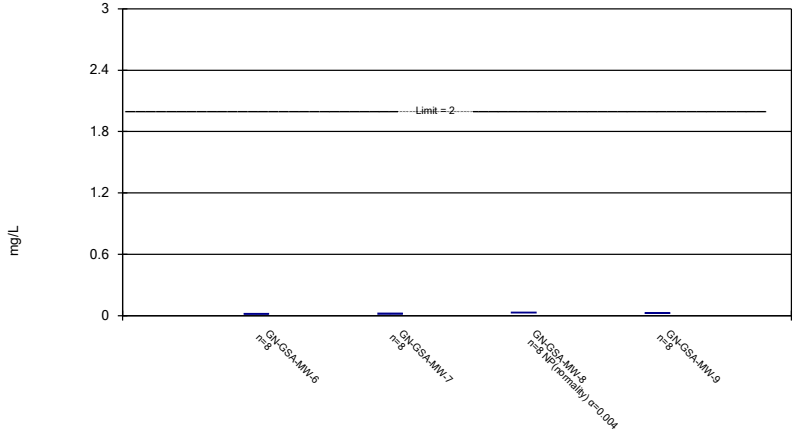
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 5/31/2022 10:17 AM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Parametric and Non-Parametric (NP) Confidence Interval

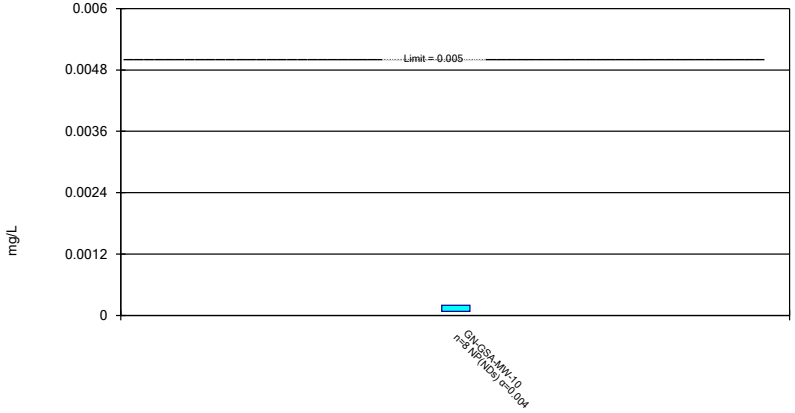
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 5/31/2022 10:17 AM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Non-Parametric Confidence Interval

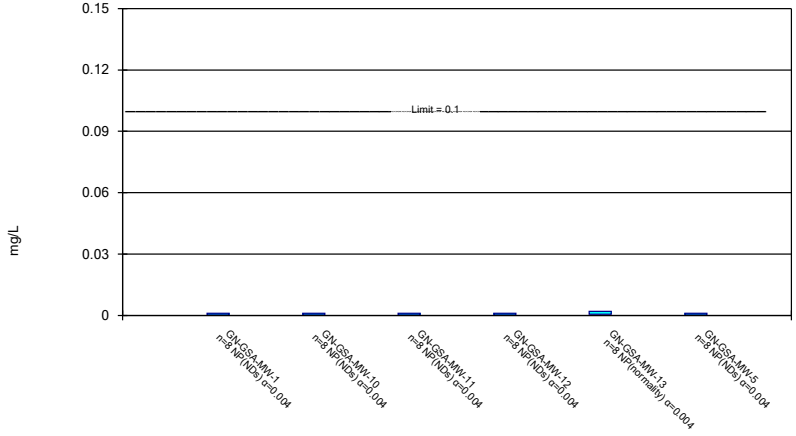
Compliance Limit is not exceeded.



Constituent: Cadmium Analysis Run 5/31/2022 10:17 AM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Non-Parametric Confidence Interval

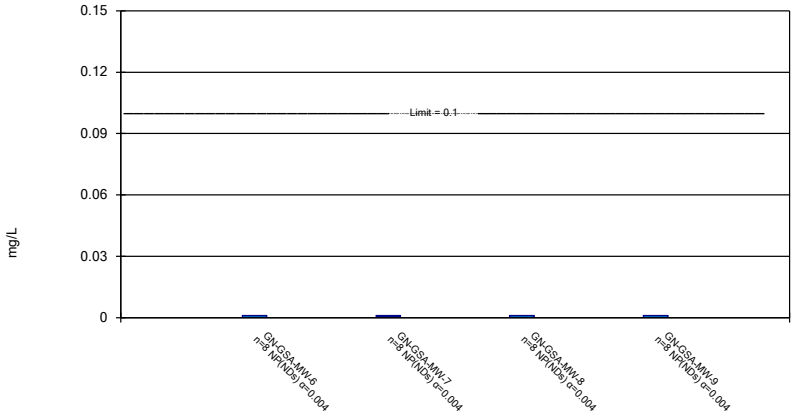
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 5/31/2022 10:17 AM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Non-Parametric Confidence Interval

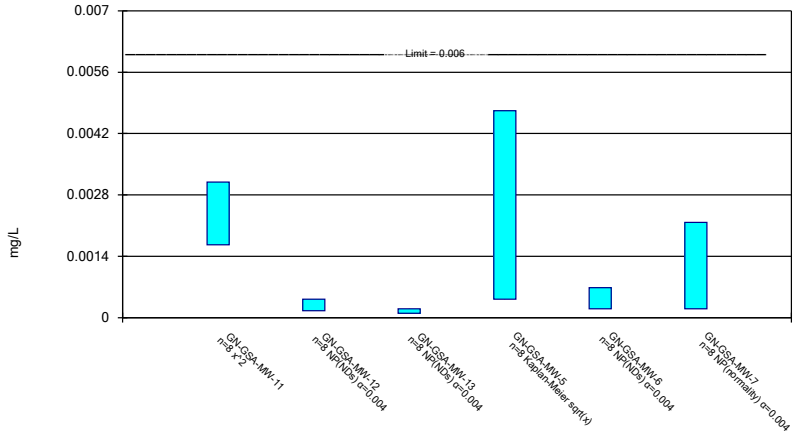
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 5/31/2022 10:17 AM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Parametric and Non-Parametric (NP) Confidence Interval

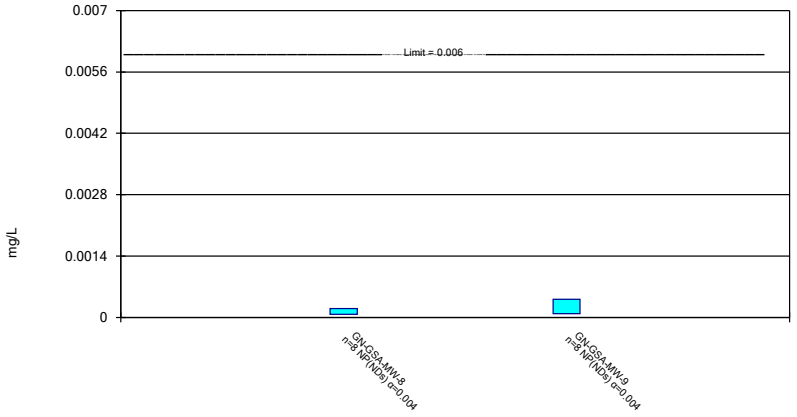
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/31/2022 10:17 AM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Non-Parametric Confidence Interval

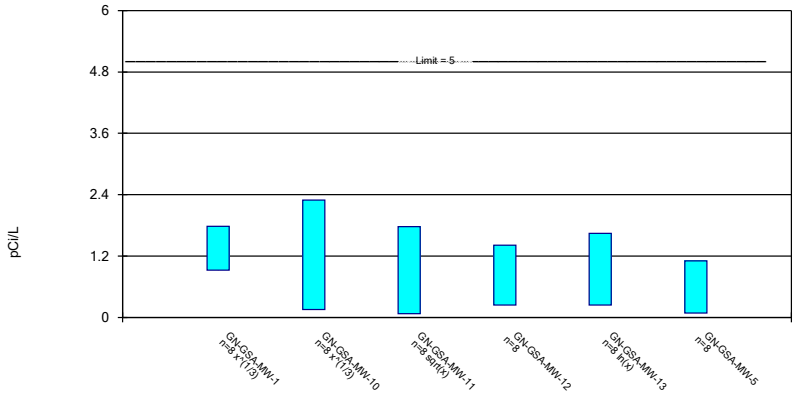
Compliance Limit is not exceeded.



Constituent: Cobalt Analysis Run 5/31/2022 10:17 AM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Parametric Confidence Interval

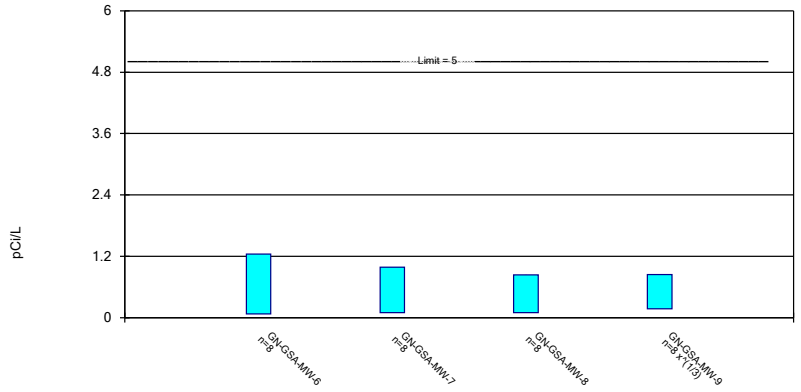
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/31/2022 10:17 AM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Parametric Confidence Interval

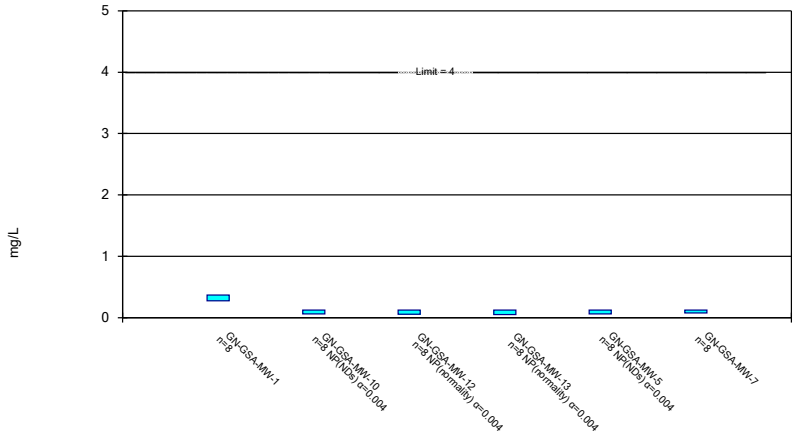
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/31/2022 10:17 AM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Parametric and Non-Parametric (NP) Confidence Interval

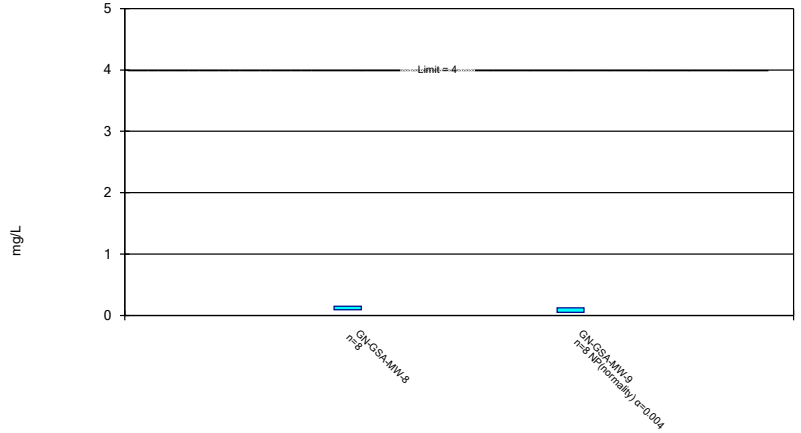
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/31/2022 10:17 AM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Parametric and Non-Parametric (NP) Confidence Interval

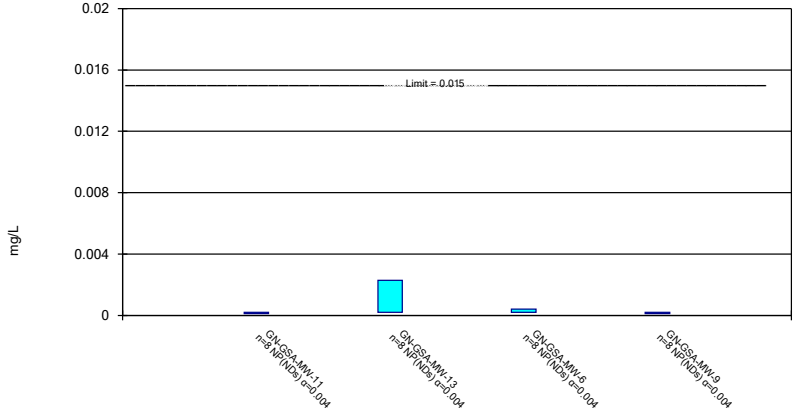
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/31/2022 10:17 AM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Non-Parametric Confidence Interval

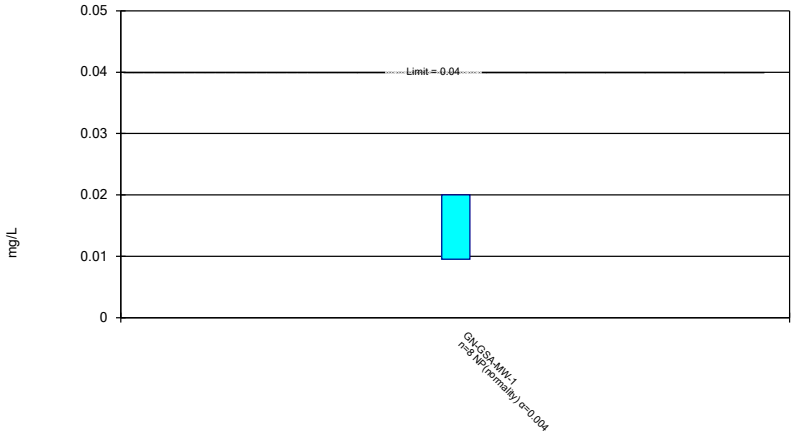
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 5/31/2022 10:17 AM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

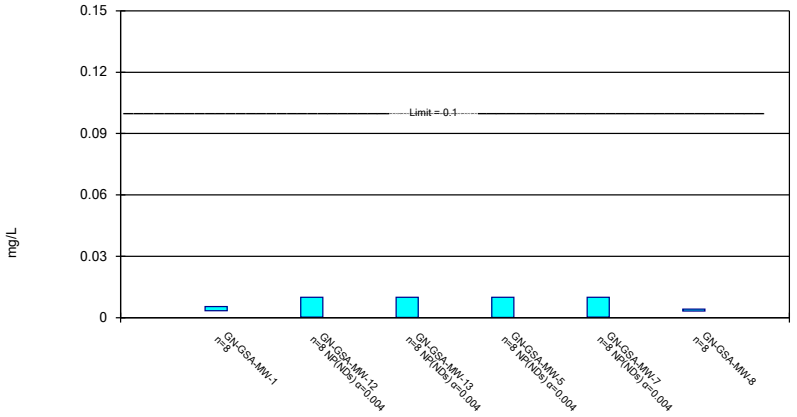


Constituent: Lithium Analysis Run 5/31/2022 10:17 AM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

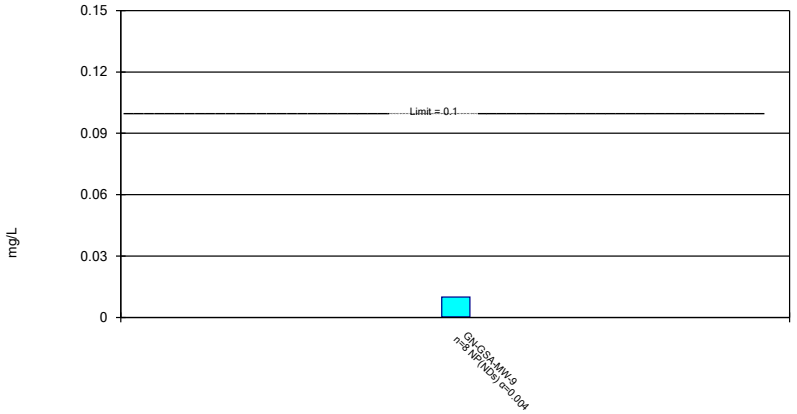


Constituent: Molybdenum Analysis Run 5/31/2022 10:17 AM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Molybdenum Analysis Run 5/31/2022 10:17 AM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/31/2022 10:18 AM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-5	GN-GSA-MW-6
10/22/2018					<0.00102	<0.00102
10/23/2018	<0.00102		<0.00102	<0.00102		
10/24/2018		<0.00102				
5/20/2019					0.00241 (J)	0.00171 (J)
5/21/2019	0.000909 (J)	0.000916 (J)	0.000813 (J)	0.00127 (J)		
9/3/2019		<0.00102				
9/4/2019	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102
2/11/2020					<0.00102	<0.00102
2/12/2020	<0.00102	<0.00102	<0.00102	<0.00102		
9/8/2020		<0.00102			<0.00102	<0.00102
9/9/2020	<0.00102		<0.00102	<0.00102		
4/13/2021	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
10/4/2021	<0.00102			<0.00102	<0.00102	<0.00102
10/5/2021		<0.00102	<0.00102			
4/12/2022					<0.00102	<0.00102
4/13/2022	<0.00102	<0.00102	<0.00102	<0.00102		
Mean	0.001006	0.001007	0.0009941	0.001051	0.001194	0.001106
Std. Dev.	3.924E-05	3.677E-05	7.319E-05	8.839E-05	0.0004914	0.000244
Upper Lim.	0.00102	0.00102	0.00102	0.00127	0.00241	0.00171
Lower Lim.	0.000909	0.000916	0.000813	0.00102	0.00102	0.00102

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/31/2022 10:18 AM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
10/22/2018	<0.00102	<0.00102	<0.00102
5/20/2019	0.00123 (J)		
5/21/2019		0.00106 (J)	0.00112 (J)
9/3/2019		<0.00102	<0.00102
9/4/2019	<0.00102		
2/11/2020	<0.00102		
2/12/2020		<0.00102	<0.00102
9/8/2020			<0.00102
9/9/2020	<0.00102	<0.00102	
4/13/2021	<0.00102	<0.00102	<0.00102
10/4/2021	<0.00102	<0.00102	
10/5/2021			<0.00102
4/12/2022	<0.00102	<0.00102	<0.00102
Mean	0.001046	0.001025	0.001032
Std. Dev.	7.425E-05	1.414E-05	3.536E-05
Upper Lim.	0.00123	0.00106	0.00112
Lower Lim.	0.00102	0.00102	0.00102

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/31/2022 10:18 AM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-5
10/22/2018						0.00188 (J)
10/23/2018	0.00829			<0.0002	<0.0002	
10/24/2018		<0.0002	<0.0002			
5/20/2019						0.00259 (J)
5/21/2019	0.00722	<0.0002	<0.0002	<0.0002	0.00348 (J)	
9/3/2019		<0.0002	<0.0002			
9/4/2019	0.00534			<0.0002	<0.0002	0.00305 (J)
2/11/2020						<0.0002
2/12/2020	0.0062	<0.0002	<0.0002	<0.0002	<0.0002	
9/8/2020		<0.0002				<0.0002
9/9/2020	0.0046 (J)		<0.0002	<0.0002	<0.0002	
4/13/2021	0.00427	8.71E-05 (J)	9.35E-05 (J)	0.00033	0.000189 (J)	0.000587
10/4/2021	0.00335				0.00012 (J)	0.00057
10/5/2021		7E-05 (J)	0.00011 (J)	0.00023		
4/12/2022						0.0009
4/13/2022	0.00248	<0.0002	9E-05 (J)	0.00021	0.00014 (J)	
Mean	0.005219	0.0001696	0.0001617	0.0002212	0.0005911	0.001247
Std. Dev.	0.001953	5.641E-05	5.318E-05	4.518E-05	0.001168	0.001112
Upper Lim.	0.007288	0.0002	0.0002	0.00033	0.00348	0.00235
Lower Lim.	0.003149	7E-05	9E-05	0.0002	0.00012	0.0001442

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/31/2022 10:18 AM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
10/22/2018	<0.0002	<0.0002	0.0015 (J)	<0.0002
5/20/2019	<0.0002	<0.0002		
5/21/2019			0.00128 (J)	<0.0002
9/3/2019			0.00118 (J)	<0.0002
9/4/2019	<0.0002	<0.0002		
2/11/2020	<0.0002	0.001 (J)		
2/12/2020			0.00133 (J)	<0.0002
9/8/2020	<0.0002			<0.0002
9/9/2020		<0.0002	0.00126 (J)	
4/13/2021	9.88E-05 (J)	0.000469	0.00134	0.000237
10/4/2021	8E-05 (J)	0.00029	0.00135	
10/5/2021				0.00014 (J)
4/12/2022	0.00011 (J)	0.00043	0.00124	0.00018 (J)
Mean	0.0001611	0.0003736	0.00131	0.0001946
Std. Dev.	5.43E-05	0.0002757	9.577E-05	2.709E-05
Upper Lim.	0.0002	0.001	0.001412	0.000237
Lower Lim.	8E-05	0.0002	0.001208	0.00014

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/31/2022 10:18 AM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-5
10/22/2018						0.0711
10/23/2018	2.22			0.0176	0.0457	
10/24/2018		0.0393	0.00522 (J)			
5/20/2019						0.0671
5/21/2019	2.51	0.0323	0.0056 (J)	0.0214	0.0697	
9/3/2019		0.0377	0.00656 (J)			
9/4/2019	1.96			0.0205	0.0455	0.0824
2/11/2020						0.0513
2/12/2020	2.15	0.0344	0.00444 (J)	0.024	0.0419	
9/8/2020		0.0331				0.0464
9/9/2020	2.5		0.00545 (J)	0.0182	0.039	
4/13/2021	2.41	0.0373	0.00636	0.0234	0.0403	0.0478
10/4/2021	1.92				0.0369	0.0494
10/5/2021		0.0359	0.00871	0.0212		
4/12/2022						0.0666
4/13/2022	2.68	0.0403	0.0162	0.0272	0.0415	
Mean	2.294	0.03629	0.007318	0.02169	0.04506	0.06026
Std. Dev.	0.275	0.002878	0.003807	0.003146	0.01039	0.01331
Upper Lim.	2.585	0.03934	0.0162	0.02502	0.0697	0.07437
Lower Lim.	2.002	0.03324	0.00444	0.01835	0.0369	0.04615

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/31/2022 10:18 AM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
10/22/2018	0.0185	0.0228	0.0314	0.0265
5/20/2019	0.0156	0.0163		
5/21/2019			0.0264	0.0249
9/3/2019			0.0314	0.0271
9/4/2019	0.0176	0.0256		
2/11/2020	0.0175	0.0194		
2/12/2020			0.0257	0.0214
9/8/2020	0.0159			0.0234
9/9/2020		0.0161	0.026	
4/13/2021	0.0175	0.016	0.0262	0.0226
10/4/2021	0.0161	0.0181	0.0265	
10/5/2021				0.0234
4/12/2022	0.0214	0.0192	0.0294	0.0252
Mean	0.01751	0.01919	0.02788	0.02431
Std. Dev.	0.001865	0.003452	0.002458	0.001956
Upper Lim.	0.01949	0.02285	0.0314	0.02639
Lower Lim.	0.01554	0.01553	0.0257	0.02224

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/31/2022 10:18 AM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-10
10/24/2018	<0.0002
5/21/2019	<0.0002
9/3/2019	<0.0002
2/12/2020	<0.0002
9/8/2020	<0.0002
4/13/2021	<0.0002
10/5/2021	8E-05 (J)
4/13/2022	<0.0002
Mean	0.000185
Std. Dev.	4.243E-05
Upper Lim.	0.0002
Lower Lim.	8E-05

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/31/2022 10:18 AM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-5
10/22/2018						<0.00102
10/23/2018	<0.00102			<0.00102	<0.00102	
10/24/2018		<0.00102	<0.00102			
5/20/2019						<0.00102
5/21/2019	<0.00102	<0.00102	<0.00102	<0.00102	0.002 (J)	
9/3/2019		<0.00102	<0.00102			
9/4/2019	<0.00102			<0.00102	<0.00102	<0.00102
2/11/2020						<0.00102
2/12/2020	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	
9/8/2020		<0.00102				<0.00102
9/9/2020	<0.00102		<0.00102	<0.00102	<0.00102	
4/13/2021	<0.00102	<0.00102	<0.00102	<0.00102	0.000518 (J)	<0.00102
10/4/2021	0.00021 (J)				0.00055 (J)	0.00028 (J)
10/5/2021		0.00023 (J)	0.0003 (J)	0.00029 (J)		
4/12/2022						0.00029 (J)
4/13/2022	<0.00102	<0.00102	<0.00102	0.00021 (J)	0.00052 (J)	
Mean	0.0009187	0.0009212	0.00093	0.0008275	0.0009585	0.0008362
Std. Dev.	0.0002864	0.0002793	0.0002546	0.0003571	0.000486	0.0003402
Upper Lim.	0.00102	0.00102	0.00102	0.00102	0.002	0.00102
Lower Lim.	0.00021	0.00023	0.0003	0.00021	0.000518	0.00028

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/31/2022 10:18 AM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
10/22/2018	<0.00102	<0.00102	<0.00102	<0.00102
5/20/2019	<0.00102	<0.00102		
5/21/2019			<0.00102	<0.00102
9/3/2019			<0.00102	<0.00102
9/4/2019	<0.00102	<0.00102		
2/11/2020	<0.00102	<0.00102		
2/12/2020			<0.00102	<0.00102
9/8/2020	<0.00102			<0.00102
9/9/2020		<0.00102	<0.00102	
4/13/2021	0.000257 (J)	0.000361 (J)	0.000291 (J)	0.000276 (J)
10/4/2021	0.00025 (J)	0.00056 (J)	0.00037 (J)	
10/5/2021				0.00021 (J)
4/12/2022	0.00022 (J)	<0.00102	0.00035 (J)	<0.00102
Mean	0.0007284	0.0008801	0.0007639	0.0008257
Std. Dev.	0.0004026	0.0002644	0.0003542	0.0003601
Upper Lim.	0.00102	0.00102	0.00102	0.00102
Lower Lim.	0.00022	0.000361	0.000291	0.00021

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/31/2022 10:18 AM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7
6/12/2018			<0.0002			
10/22/2018				0.0049 (J)	<0.0002	<0.0002
10/23/2018		<0.0002	<0.0002			
10/24/2018	0.00286 (J)					
5/20/2019				0.00489 (J)	<0.0002	<0.0002
5/21/2019	0.00245 (J)	<0.0002	0.0578 (o)			
9/3/2019	0.00298 (J)					
9/4/2019		<0.0002	<0.0002	0.00527	<0.0002	0.00217 (J)
2/11/2020				<0.0002	<0.0002	<0.0002
2/12/2020	<0.0002	<0.0002	<0.0002			
9/8/2020				<0.0002	<0.0002	
9/9/2020	0.00256 (J)	<0.0002	<0.0002			<0.0002
4/13/2021	0.00212	0.000218	0.000158 (J)	0.00104	0.000682	0.00077
10/4/2021			0.0001 (J)	0.00142	0.00065	0.00033
10/5/2021	0.00217	0.00042				
4/12/2022				0.00215	0.00066	0.0006
4/13/2022	0.00324	0.00016 (J)	<0.0002			
Mean	0.002322	0.0002247	0.0001822	0.002509	0.000374	0.0005837
Std. Dev.	0.0009415	8.055E-05	3.634E-05	0.002176	0.0002403	0.0006766
Upper Lim.	0.003096	0.00042	0.0002	0.004722	0.000682	0.00217
Lower Lim.	0.001659	0.00016	0.0001	0.0004226	0.0002	0.0002

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/31/2022 10:18 AM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-8	GN-GSA-MW-9
10/22/2018	<0.0002	<0.0002
5/21/2019	<0.0002	<0.0002
9/3/2019	<0.0002	<0.0002
2/12/2020	<0.0002	<0.0002
9/8/2020		<0.0002
9/9/2020	<0.0002	
4/13/2021	0.000123 (J)	8.16E-05 (J)
10/4/2021	0.00014 (J)	
10/5/2021		0.00041
4/12/2022	7E-05 (J)	<0.0002
Mean	0.0001666	0.0002114
Std. Dev.	5.003E-05	9.029E-05
Upper Lim.	0.0002	0.00041
Lower Lim.	7E-05	8.16E-05

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/31/2022 10:18 AM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-5
10/22/2018						1.16
10/23/2018	1.14			0.723	1.04	
10/24/2018		1.4	0.898			
5/20/2019						-0.251 (U)
5/21/2019	1.38	5.12 (U)	0.0995 (U)	0.376 (U)	0.503 (U)	
9/3/2019		0.793	3.47			
9/4/2019	2.39			0.534	3.92	1.05
2/11/2020						0.585
2/12/2020	1.17	0.13 (U)	0.0433 (U)	0.836	0.799	
9/8/2020		0.65 (U)				0.921
9/9/2020	1.02		0.798	1.88	0.27 (U)	
4/13/2021	0.909 (U)	0.531 (U)	0.589 (U)	0.592 (U)	0.667 (U)	0.434 (U)
10/4/2021	1.43				0.231 (U)	0.11 (U)
10/5/2021		0.269 (U)	0.524 (U)	1.42		
4/12/2022						0.739 (U)
4/13/2022	1.31	0.551 (U)	0.453 (U)	0.257 (U)	0.357 (U)	
Mean	1.344	1.181	0.8594	0.8273	0.9734	0.5935
Std. Dev.	0.4583	1.637	1.096	0.553	1.222	0.4826
Upper Lim.	1.78	2.293	1.773	1.413	1.643	1.105
Lower Lim.	0.925	0.1533	0.07089	0.2411	0.2405	0.08199

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/31/2022 10:18 AM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
10/22/2018	1.07	1.03	0.748	0.21 (U)
5/20/2019	0.498	0.465		
5/21/2019			0.21 (U)	0.289 (U)
9/3/2019			0.983	0.994
9/4/2019	0.608	1.28		
2/11/2020	0.743	0.513 (U)		
2/12/2020			-0.0587 (U)	0.377 (U)
9/8/2020	-0.109 (U)			1.07
9/9/2020		0.382 (U)	0.287 (U)	
4/13/2021	0.611 (U)	0.492 (U)	0.391 (U)	0.592 (U)
10/4/2021	1.7	0.144 (U)	0.794 (U)	
10/5/2021				0.2 (U)
4/12/2022	0.157 (U)	0.0248 (U)	0.367 (U)	0.191 (U)
Mean	0.6598	0.5414	0.4652	0.4904
Std. Dev.	0.5519	0.4215	0.347	0.3597
Upper Lim.	1.245	0.9881	0.8329	0.8409
Lower Lim.	0.07475	0.0946	0.0974	0.1718

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/31/2022 10:18 AM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-5	GN-GSA-MW-7
10/22/2018					0.06 (J)	0.1
10/23/2018	0.39		0.06 (J)	0.05 (J)		
10/24/2018		<0.125				
5/20/2019					0.0842 (J)	0.0919 (J)
5/21/2019	0.264	<0.125	0.0649 (J)	0.0595 (J)		
9/3/2019		<0.125				
9/4/2019	0.33		0.0547 (J)	0.0555 (J)	0.0962 (J)	0.07 (J)
2/11/2020					<0.125	0.0912 (J)
2/12/2020	0.301	<0.125	0.0586 (J)	<0.125		
9/8/2020		0.0617 (J)			<0.125	
9/9/2020	0.313		0.068 (J)	0.0655 (J)		0.118
4/13/2021	0.29	<0.125	<0.125	0.0633 (J)	<0.125	0.129
10/4/2021	0.376			0.0748 (J)	<0.125	0.12
10/5/2021		<0.125	<0.125			
4/12/2022					<0.125	0.0724 (J)
4/13/2022	0.307	<0.125	<0.125	<0.125		
Mean	0.3214	0.1171	0.08515	0.07733	0.1082	0.09906
Std. Dev.	0.04265	0.02238	0.03324	0.03031	0.02523	0.02192
Upper Lim.	0.3666	0.125	0.125	0.125	0.125	0.1223
Lower Lim.	0.2762	0.0617	0.0547	0.05	0.06	0.07583

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/31/2022 10:18 AM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-8	GN-GSA-MW-9
10/22/2018	0.15	0.05 (J)
5/21/2019	0.109	0.0526 (J)
9/3/2019	0.123	0.0554 (J)
2/12/2020	0.108	<0.125
9/8/2020		0.097 (J)
9/9/2020	0.14	
4/13/2021	0.119	0.0602 (J)
10/4/2021	0.134	
10/5/2021		<0.125
4/12/2022	0.0621 (J)	<0.125
Mean	0.1181	0.08628
Std. Dev.	0.02698	0.03525
Upper Lim.	0.1467	0.125
Lower Lim.	0.08954	0.05

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/31/2022 10:18 AM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-11	GN-GSA-MW-13	GN-GSA-MW-6	GN-GSA-MW-9
10/22/2018			<0.0002	<0.0002
10/23/2018		<0.0002		
10/24/2018	<0.0002			
5/20/2019			<0.0002	
5/21/2019	<0.0002	0.00228 (J)		<0.0002
9/3/2019	<0.0002			<0.0002
9/4/2019		<0.0002	<0.0002	
2/11/2020			<0.0002	
2/12/2020	<0.0002	<0.0002		<0.0002
9/8/2020			<0.0002	<0.0002
9/9/2020	<0.0002	<0.0002		
4/13/2021	<0.0002	<0.0002	0.000305	<0.0002
10/4/2021		<0.0002	0.00031	
10/5/2021	<0.0002			<0.0002
4/12/2022			0.0004	0.00011 (J)
4/13/2022	0.00011 (J)	<0.0002		
Mean	0.0001887	0.00046	0.0002519	0.0001887
Std. Dev.	3.182E-05	0.0007354	7.709E-05	3.182E-05
Upper Lim.	0.0002	0.00228	0.0004	0.0002
Lower Lim.	0.00011	0.0002	0.0002	0.00011

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/31/2022 10:18 AM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1
10/23/2018	<0.02
5/21/2019	<0.02
9/4/2019	<0.02
2/12/2020	<0.02
9/9/2020	0.0101 (J)
4/13/2021	0.00953 (J)
10/4/2021	0.00963 (J)
4/13/2022	0.00966 (J)
Mean	0.01486
Std. Dev.	0.005492
Upper Lim.	0.02
Lower Lim.	0.00953

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/31/2022 10:18 AM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-5	GN-GSA-MW-7	GN-GSA-MW-8
10/22/2018				<0.01	<0.01	0.00359 (J)
10/23/2018	0.006 (J)	<0.01	<0.01			
5/20/2019				<0.01	<0.01	
5/21/2019	0.00504 (J)	<0.01	<0.01			0.00379 (J)
9/3/2019						0.00437 (J)
9/4/2019	0.00504 (J)	<0.01	<0.01	<0.01	<0.01	
2/11/2020				<0.01	<0.01	
2/12/2020	0.00448 (J)	<0.01	<0.01			0.00322 (J)
9/8/2020				<0.01		
9/9/2020	0.00405 (J)	<0.01	<0.01		<0.01	0.00418 (J)
4/13/2021	0.00353	0.000298	0.000175 (J)	9.4E-05 (J)	0.000276	0.00318
10/4/2021	0.00372		0.00016 (J)	9E-05 (J)	0.00025	0.00345
10/5/2021		0.00033				
4/12/2022				0.00012 (J)	0.00027	0.00347
4/13/2022	0.0033	0.00031	0.00021			
Mean	0.004395	0.006367	0.006318	0.006288	0.006349	0.003656
Std. Dev.	0.000921	0.005014	0.005081	0.005123	0.005038	0.000431
Upper Lim.	0.005371	0.01	0.01	0.01	0.01	0.004113
Lower Lim.	0.003419	0.000298	0.00016	9E-05	0.00025	0.003199

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/31/2022 10:18 AM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-9
10/22/2018	<0.01
5/21/2019	<0.01
9/3/2019	<0.01
2/12/2020	<0.01
9/8/2020	<0.01
4/13/2021	0.000207
10/5/2021	0.00032
4/12/2022	0.00021
Mean	0.006342
Std. Dev.	0.005048
Upper Lim.	0.01
Lower Lim.	0.000207