2021 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

ALABAMA POWER COMPANY
PLANT GASTON
GYPSUM POND

January 31, 2022

Prepared for

Alabama Power Company
Birmingham, Alabama

By

Southern Company Services
Earth Science and Environmental Engineering

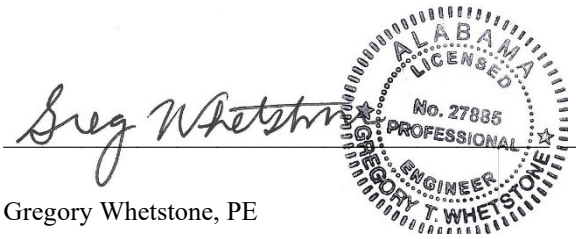
CERTIFICATION STATEMENT

This *2021 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.

1/31/2022

Gregory B. Dyer, PG — Date

AL Registered Professional Geologist No. 1471



1/31/2022

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 2021 Semi-Annual Groundwater Monitoring and Corrective Action Report has been prepared to document 2021 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 second semi-annual monitoring event of 2021 in well GN-AP-MW-1. This well location will be resampled and if necessary, an Alternate Source Demonstration (ASD) for barium will be pursued to demonstrate that the Gypsum Pond is not the source of barium in well GN-AP-MW-1.

The following summarizes results and activities conducted during 2021:

- Completed the first semi-annual assessment groundwater monitoring event between April 12, 2021, and April 15, 2021.
- Statistically significant levels (SSL) of Appendix IV parameters were not identified during the first 2021 semi-annual monitoring event.
- Submitted the First Semi-Annual Groundwater Monitoring and Corrective Action Report on July 31, 2021.
- Completed the second semi-annual assessment groundwater monitoring event between October 4 and October 15, 2021.

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

- Re-sample well GN-GSA-MW-1.

- If necessary, collect and or analyze data in evaluation of an ASD for barium in well GN-GSA-MW-1.
- Submit an ASD to the Department during the first semi-annual monitoring period of 2022.
- Continue semi-annual assessment monitoring in March or April 2022 and submit first semi-annual groundwater monitoring report of 2022 to the Department by July 31, 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 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
2021 Monitoring Period Summary
Plant Gaston – Gypsum Pond

Assessment Monitoring Initiated: July 16, 2019	
Monitoring Period:	January 1 - June 30, 2020
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 GS-GSA-MW-14S^ (Upgradient)
Chloride	GN-GSA-MW-11^
Fluoride	GN-GSA-MW-1, GN-GSA-MW-7^, GN-GSA-MW-8^
pH	GN-GSA-MW-1↓, GN-GSA-MW-6, and GN-GSA-MW-8^
Sulfate	GN-GSA-MW-5^, GN-GSA-MW-8
TDS	GN-GSA-MW-5^, GN-GSA-MW-6^, GN-GSA-MW-8^, GN-GSA-MW-10^

Appendix IV SSLs

Barium: GN-GSA-MW-1^

SSI/SSL Lists Superscript notations: "↓" - *indicates analyzed finding 1st Semi-Annual Monitoring Event Only*
"^" - *indicates analyzed finding 2nd Semi-Annual Monitoring Event Only*
"*" - *See the attached report for further details regarding statistical*

Alternate Source Demonstrations

An Alternate Source Demonstration (ASD) for barium is being pursued to demonstrate that the Gypsum Pond is not the source of barium in well GN-AP-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, 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))

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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 2021 Annual Groundwater Monitoring and Corrective Action Report has been prepared to document 2021 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, was identified during the second semi-annual monitoring event of 2021 in well GN-GSA-MW-1. An Alternate Source Demonstration (ASD) for barium is being pursued 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 system to monitor groundwater 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 within the uppermost aquifer. Wells were located to serve as upgradient, or downgradient monitoring locations based on groundwater flow direction as determined by the potentiometric surface elevation 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 2021, no monitoring well replacement or abandonment activities occurred

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, Tabulated 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 events 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 events 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 year. Semi-annual Assessment Monitoring sampling events occurred in April 2021 and October 2021.

The first semi-annual assessment monitoring event took place between April 12 and April 15, 2021. A groundwater monitoring report summarizing data and activities from the first semi-annual sampling event was submitted to the Department in July 2021. The second semi-annual assessment monitoring event took place between October 4 and October 15, 2021.

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 events 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 396.78 to 421.49 feet NAVD88 (feet above reference 1988 North American Vertical Datum). **Figure 6A, Potentiometric Surface Contour Map (April 13, 2021)** depicts groundwater elevations and inferred groundwater flow direction from higher elevation to lower.

During the second semi-annual sampling event, groundwater elevations ranged from 396.26 to 414.04 feet NAVD88 (feet above reference 1988 North American Vertical Datum). **Figure 6B, Potentiometric Surface Contour Map (October 4, 2021)** depicts groundwater elevations and inferred groundwater flow direction from higher elevation to lower

As shown on **Figures 6A** and **6B**, groundwater flows from north to the south-southeast, consistent with historic observations. Recent groundwater elevation data has been tabulated and included in **Table 3, Recent 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 sampling events in 2021.

5.0 EVALUATION OF GROUNDWATER QUALITY DATA

During each sampling event, quality assurance/quality control samples (QA/QC) were collected at a rate of one sample per every group of 10 well samples. 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 second semi-annual monitoring event of 2021. RPD calculations for the first semi-annual event are in **Appendix E, Lab Data Validation – First Semi-Annual Monitoring Event**. All RPDs were below 20% for 2021 sampling events with the exception of a single RPD for molybdenum during the first semi-annual sampling event.

Analytical data reviewed provided low-level or trace detections in field and or equipment blanks during monitoring period sampling events. **Table 4B, Field QC: Blank Detections** provides a summary of low-level detections observed during the second 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, thirteen (13) 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 2021 semi-annual monitoring events 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 F, 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 semi-annual monitoring event:

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

During the second semi-annual monitoring event the following SSIs over background were noted:

- GN-GSA-MW-1: Fluoride
- GN-GSA-MW-5: Calcium, Sulfate, TDS
- GN-GSA-MW-6: pH, TDS
- GN-GSA-MW-7: Fluoride
- GN-GSA-MW-8: Fluoride, pH, Sulfate, TDS
- GN-GSA-MW-10: TDS
- GN-GSA-MW-11: Chloride
- GN-GSA-MW-12: 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 F.**

5.3.2.1 First Semi-Annual Groundwater Monitoring Event

A review of the Sanitas results presented in **Appendix F** did not identify any Appendix IV SSLs during the first semi-annual monitoring event. **Table 6, First Semi-Annual Monitoring Event Analytical Summary** provides a summary of all constituent concentrations for the first semi-annual sampling event of 2021.

5.3.2.2 Second Semi-Annual Groundwater Monitoring Event

During the second semi-annual monitoring event, statistical analysis of Appendix IV data identified the following SSLs in downgradient wells:

- GN-GSA-MW-1: Barium.

Table 7, Second Semi-Annual Monitoring Event Analytical Summary provides a summary of all constituent concentrations for the second semi-annual sampling event of 2021. Statistical results for the second semi-annual monitoring event are included in **Appendix F**.

An Alternate Source Demonstration (ASD) was submitted for GN-GSA-MW-1 as a part of the 2018 Annual Groundwater Monitoring and Corrective Action Report. This ASD 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.

Resampling will be conducted at well GN-GSA-MW-1 as soon as feasible. If necessary, a work plan to further evaluate these and potential other lines of evidence will be developed to support an ASD study for the SSL in well GN-GSA-MW-1.

6.0 SUMMARY AND CONCLUSIONS

Statistically significant levels (SSLs) of the Appendix IV parameter, barium, was identified during the second semi-annual monitoring event of 2021 in well GN-GSA-MW-1. An Alternate Source Demonstration (ASD) for barium is being pursued 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 2021:

- Completed the first semi-annual assessment groundwater monitoring event between April 12, 2021 and April 15, 2021.
- Statistically significant levels (SSL) of Appendix IV parameters were not identified during the first 2021 semi-annual monitoring event.
- Submitted the First Semi-Annual Groundwater Monitoring and Corrective Action Report on July 31, 2021.
- Completed the second semi-annual assessment groundwater monitoring event between October 4 and October 15, 2021.
- Statistical analyses identified an SSL of barium in well GN-GSA-MW-1 during the second semi-annual assessment monitoring event.

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

- Resample well GN-GSA-MW-1 for barium.
- If needed, collect and/or analyze data in evaluation of an ASD for barium in well GN-GSA-MW-1.
- Submit an ASD to the Department during the first semi-annual monitoring period of 2022.
- Continue semi-annual assessment monitoring in March or April 2022 and submit first semi-annual groundwater monitoring report of 2022 to the Department by July 31, 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 and ADEM Admin. Code r. 335-13-15-.06(7).

7.0 REFERENCES

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Tables

Executive Summary Table.
Monitoring Period Summary
Plant Gaston - Gypsum Pond

Assessment Monitoring Initiated: July 16, 2019
Monitoring Period: January 1 - December 31, 2021
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 GS-GSA-MW-14S^ (Upgradient)
Chloride	GN-GSA-MW-11^
Fluoride	GN-GSA-MW-1, GN-GSA-MW-7^, GN-GSA-MW-8^
pH	GN-GSA-MW-1↓, GN-GSA-MW-6, and GN-GSA-MW-8^
Sulfate	GN-GSA-MW-5^, GN-GSA-MW-8
TDS	GN-GSA-MW-5^, GN-GSA-MW-6^, GN-GSA-MW-8^, GN-GSA-MW-10^

Appendix IV SSLs

Barium: GN-GSA-MW-1^

SSI/SSL Lists Superscript notations: "↓" - *indicates analyzed finding 1st Semi-Annual Monitoring Event Only*
"^" - *indicates analyzed finding 2nd Semi-Annual Monitoring Event Only*
"*" - *See the attached report for further details regarding statistical exceedances*

Alternate Source Demonstrations

An Alternate Source Demonstration (ASD) for barium is being pursued to demonstrate that the Gypsum Pond is not the source of barium in well GN-AP-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, 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))

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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.

Table 1c. - 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 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.

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Table 2. Parameters And Reporting Limits

Plant Gaston Gypsum Storage Area
04/13/2021 - 10/06/2021

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	0.1	mg/L
pH (Field)	Field Sampling	NA	SU
Sulfate	SM4500SO4 E 2011	1-8	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	0.1	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	Total Radium Calculation	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

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Table 3. Recent Groundwater Elevations
Plant Gaston Gypsum Storage Area
April 2018 – October 2021

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

Notes:
ft = feet; ft NAVD = elevation in feet, referenced to North American Vertical Datum
(1) "- -" Not Measured
(2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD) 1988.

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Table 4a. Relative Percent Difference (RPD) Calculations

Plant Gaston Gypsum Storage Area
10/04/2021 - 10/04/2021

GN-GSA-MW-13				
Sample Date = 10/4/2021				
Analyte	**Units**	**Original Result**	**Duplicate Result**	**RPD (%)**
Calcium	mg/L	92.2	92.9	0.76%
Chloride	mg/L	3.37	3.39	0.59%
Sulfate	mg/L	7.18	7.23	0.69%
TDS	mg/L	277	291	4.93%
Barium	mg/L	0.0369	0.0374	1.35%
GN-GSA-MW-5				
Sample Date = 10/4/2021				
Analyte	**Units**	**Original Result**	**Duplicate Result**	**RPD (%)**
Calcium	mg/L	81.6	81.2	0.49%
Chloride	mg/L	9.45	9.52	0.74%
Sulfate	mg/L	115	112	2.64%
TDS	mg/L	379	395	4.13%
Arsenic	mg/L	0.00057	0.00054	5.77%
Barium	mg/L	0.0494	0.0517	4.55%
Cobalt	mg/L	0.00142	0.00144	1.40%

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 Pond
10/4/2021 - 10/5/2021

Parameters Detected Above MDL					
Sample Date	**QC Location**	**Parameter**	**Blank Concentration**	**Units**	**MDL**
10/04/2021	FB-1	Chromium	0.000248 J	mg/L	0.000203
10/04/2021	FB-2	Chromium	0.000285 J	mg/L	0.000203
10/05/2021	EB-1	Chromium	0.000206 J	mg/L	0.000203

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

Southern Company

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

Plant Gaston Gypsum Pond

10/4/2021 - 10/5/2021

List of Compliance Sample Concentrations < 5x Blank Concentrations							
Sample Date	**QC Sample**	**Parameter**	**QC Sample Result (5x)**	**Sample Location**	**Result**	**Units**	**Validation Flag**
10/04/2021	FB-1	Chromium	0.00124	GN-GSA-MW-1	0.000207 J	mg/L	+(U)*
10/05/2021	EB-1	Chromium	0.00103	GN-GSA-MW-10	0.000234 J	mg/L	+(U)*
10/05/2021	EB-1	Chromium	0.00103	GN-GSA-MW-11	0.000303 J	mg/L	+(U)*
10/05/2021	EB-1	Chromium	0.00103	GN-GSA-MW-12	0.00029 J	mg/L	+(U)*
10/04/2021	FB-1	Chromium	0.00124	GN-GSA-MW-13	0.000547 J	mg/L	+(U)*
10/04/2021	FB-1	Chromium	0.00124	GN-GSA-MW-14S	0.000653 J	mg/L	+(U)*
10/04/2021	FB-1	Chromium	0.00124	GN-GSA-MW-2	0.000605 J	mg/L	+(U)*
10/04/2021	FB-1	Chromium	0.00124	GN-GSA-MW-3	0.000455 J	mg/L	+(U)*
10/04/2021	FB-2	Chromium	0.001425	GN-GSA-MW-5	0.000277 J	mg/L	+(U)*
10/04/2021	FB-2	Chromium	0.001425	GN-GSA-MW-6	0.000245 J	mg/L	+(U)*
10/04/2021	FB-2	Chromium	0.001425	GN-GSA-MW-7	0.000563 J	mg/L	+(U)*
10/04/2021	FB-2	Chromium	0.001425	GN-GSA-MW-8	0.000365 J	mg/L	+(U)*
10/05/2021	FB-2	Chromium	0.001425	GN-GSA-MW-9	0.000208 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 (excluding Radium).

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	0.003	0.006
Arsenic	mg/L	0.005	0.01
Barium	mg/L	0.0622	2
Beryllium	mg/L	0.003	0.004
Cadmium	mg/L	0.001	0.005
Chromium	mg/L	0.01	0.1
Cobalt	mg/L	0.01	0.01
Fluoride	mg/L	0.3	4
Lead	mg/L	0.005	0.015
Lithium	mg/L	0.05	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.01	0.1
Selenium	mg/L	0.01	0.05
Thallium	mg/L	0.001	0.002
Combined Radium 226 + 228	pCi/L	3	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.
Second Semi-Annual Monitoring Event Analytical Summary
Plant Gaston Gypsum Pond
4/13/2021

Analyte	Units	GROUNDWATER MONITORING WELLS													
		GN-GSA-MW-2	GN-GSA-MW-3	GN-GSA-MW-14S	GN-GSA-MW-15	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	GN-GSA-MW-13
		04/13/2021	04/13/2021	04/13/2021	04/13/2021	04/13/2021	04/13/2021	04/13/2021	04/13/2021	04/13/2021	04/13/2021	04/13/2021	04/13/2021	04/13/2021	04/13/2021
Appendix III															
Boron	mg/L	<0.03	<0.03	<0.03	<0.03	0.0306 J	0.0333 J	<0.03	<0.03	<0.03	<0.03	<0.03	0.0422 J	<0.03	<0.03
Calcium	mg/L	77.5	57.8	48.4	5.17	44	79.2	0.505	64.1	52.2	43.5	97.1	12.3	81.6	89.8
Chloride	mg/L	3.55	2.76	2.56	1.86	2.54	9.78	3.54	3.64	1.64	2.14	3.07	9.8	3.97	3.56
Fluoride	mg/L	<0.06	0.069 J	<0.06	<0.06	0.29	<0.06	<0.06	0.129	0.119	0.0602 J	<0.06	<0.06	<0.06	0.0633 J
pH_Field	SU	6.94	6.71	7.33	5.84	7.7	6.36	4.63	6.84	7.7	6.9	7.22	5.46	6.61	7.17
Sulfate	mg/L	7.44	7.88	3.45	2.51	4.43	108	<0.5	6.37	4.49	4.65	1.68	2.77	8.86	8.38
TDS	mg/L	283	196	191	35.3	237	350	26	220	186	163	273	66	260	286
Appendix IV															
Antimony	mg/L	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507
Arsenic	mg/L	0.000123 J	0.00011 J	0.000187 J	0.000134 J	0.00427	0.000587	9.88e-005 J	0.000469	0.00134	0.000237	8.71e-005 J	9.35e-005 J	0.00033	0.000189 J
Barium	mg/L	0.0371	0.0259	0.0217	0.00801	2.41	0.0478	0.0175	0.016	0.0262	0.0226	0.0373	0.00636	0.0234	0.0403
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	0.000517 J	0.000337 J	0.000697 J	0.000375 J	<0.000203	<0.000203	0.000257 J	0.000361 J	0.000291 J	0.000276 J	<0.000203	<0.000203	<0.000203	0.000518 J
Cobalt	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	0.00046	<6.8e-005	0.00104	0.000682	0.00077	0.000123 J	8.16e-005 J	<6.8e-005	0.00212	0.000218	0.000158 J
Combined Radium 226 + 228	pCi/L	0.258 U	0.652 U	0.788 U	0.452 U	0.909 U	0.434 U	0.611 U	0.492 U	0.391 U	0.592 U	0.531 U	0.589 U	0.592 U	0.667 U
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000305	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	0.00953 J	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.000307	7.49e-005 J	0.000334	<6.8e-005	0.00353	9.4e-005 J	<6.8e-005	0.000276	0.00318	0.000207	<6.8e-005	<6.8e-005	0.000298	0.000175 J
Selenium	mg/L	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. J value indicates the result is greater that or equal to the Method Detection Limit (MDL) and less that the Practical Quantitation Limit (PQL).
Values are displayed as less than the PQL with a J.

2. "<MDL" -Non-Detect and indicates the result was not detected above the MDL.

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. TDS - Total Dissolved Solids

Southern Company

Table 7.
Second Semi-Annual Monitoring Event Analytical Summary
Plant Gaston Gypsum Pond
10/04/2021-10/06/2021

Analyte	Units	GROUNDWATER MONITORING WELLS													
		GN-GSA-MW-2	GN-GSA-MW-3	GN-GSA-MW-14S	GN-GSA-MW-15	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	GN-GSA-MW-13
		10/04/2021	10/04/2021	10/04/2021	10/06/2021	10/04/2021	10/04/2021	10/04/2021	10/04/2021	10/04/2021	10/05/2021	10/05/2021	10/05/2021	10/05/2021	10/04/2021
Appendix III															
Boron	mg/L	<0.03	<0.03	<0.03	<0.03	0.0343 J	0.0395 J	<0.03	<0.03	<0.03	<0.03	<0.03	0.0472 J	<0.03	<0.03
Calcium	mg/L	85	43.7	48	4.62	45.4	81.6	0.53	70.4	55.1	54.6	108	13.8	87.9	92.2
Chloride	mg/L	3.59	2.88	2.5	2.07	2.58	9.52	3.61	3.48	1.76	2.16	3.04	13.8	3.69	3.39
Fluoride	mg/L	0.0664 J	0.0637 J	0.0838 J	<0.06	0.376	<0.06	<0.06	0.12	0.134	<0.06	<0.06	<0.06	<0.06	0.0748 J
pH_Field	SU	7.13	6.43	7.21	5.64	7.33	6.66	4.86	6.96	7.82	6.96	7.12	6.01	7.25	6.95
Sulfate	mg/L	6.86	8.09	3.78	2.15	4.08	112	<0.5	6.02	5.05	4.08	1.8	2.86	8.02	7.23
TDS	mg/L	287	168	183	--	221	395	32	232	203	170	293	92.7	255	277
Appendix IV															
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	0.000168 J	<6.8e-005	0.000158 J	0.000319	0.00335	0.000571	7.81e-005 J	0.000286	0.00135	0.000144 J	7.29e-005 J	0.000111 J	0.000232	0.000117 J
Barium	mg/L	0.0353	0.0232	0.024	0.00769	1.92	0.0517	0.0161	0.0181	0.0265	0.0234	0.0359	0.00871	0.0212	0.0374
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	8.16e-005 J	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	0.000605 J	0.000455 J	0.000653 J	<0.000203	0.000207 J	0.000277 J	0.000245 J	0.000563 J	0.000365 J	0.000208 J	0.000234 J	0.000303 J	0.00029 J	0.000547 J
Cobalt	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	0.000501	<6.8e-005	0.00144	0.000651	0.000326	0.000137 J	0.000406	<6.8e-005	0.00217	0.000417	8.7e-005 J
Combined Radium 226 + 228	pCi/L	1.1 U	1.22 U	0.573 U	1.33	1.43	0.11 U	1.7	0.144 U	0.794 U	0.2 U	0.269 U	0.524 U	1.42	0.231 U
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000314	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	0.00963 J	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.000338	<6.8e-005	0.000456	<6.8e-005	0.00372	8.8e-005 J	<6.8e-005	0.000248	0.00345	0.000319	<6.8e-005	<6.8e-005	0.000325	0.000154 J
Selenium	mg/L	<0.000508	0.000598 J	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

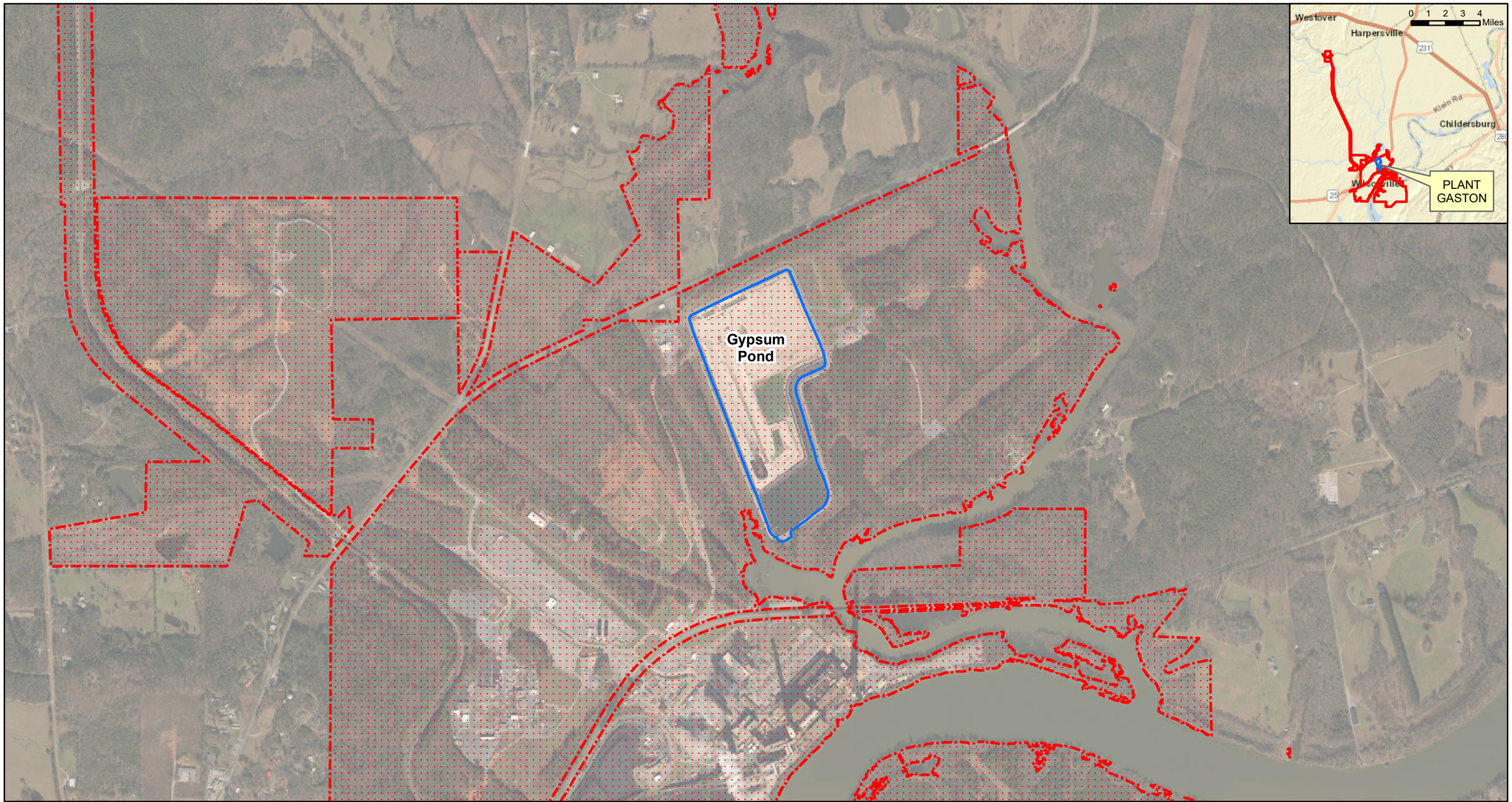
1. J value indicates the result is greater that or equal to the Method Detection Limit (MDL) and less that the Practical Quantitation Limit (PQL).
Values are displayed as less than the PQL with a J.

2. "<MDL" -Non-Detect and indicates the result was not detected above the MDL.

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. TDS - Total Dissolved Solids

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

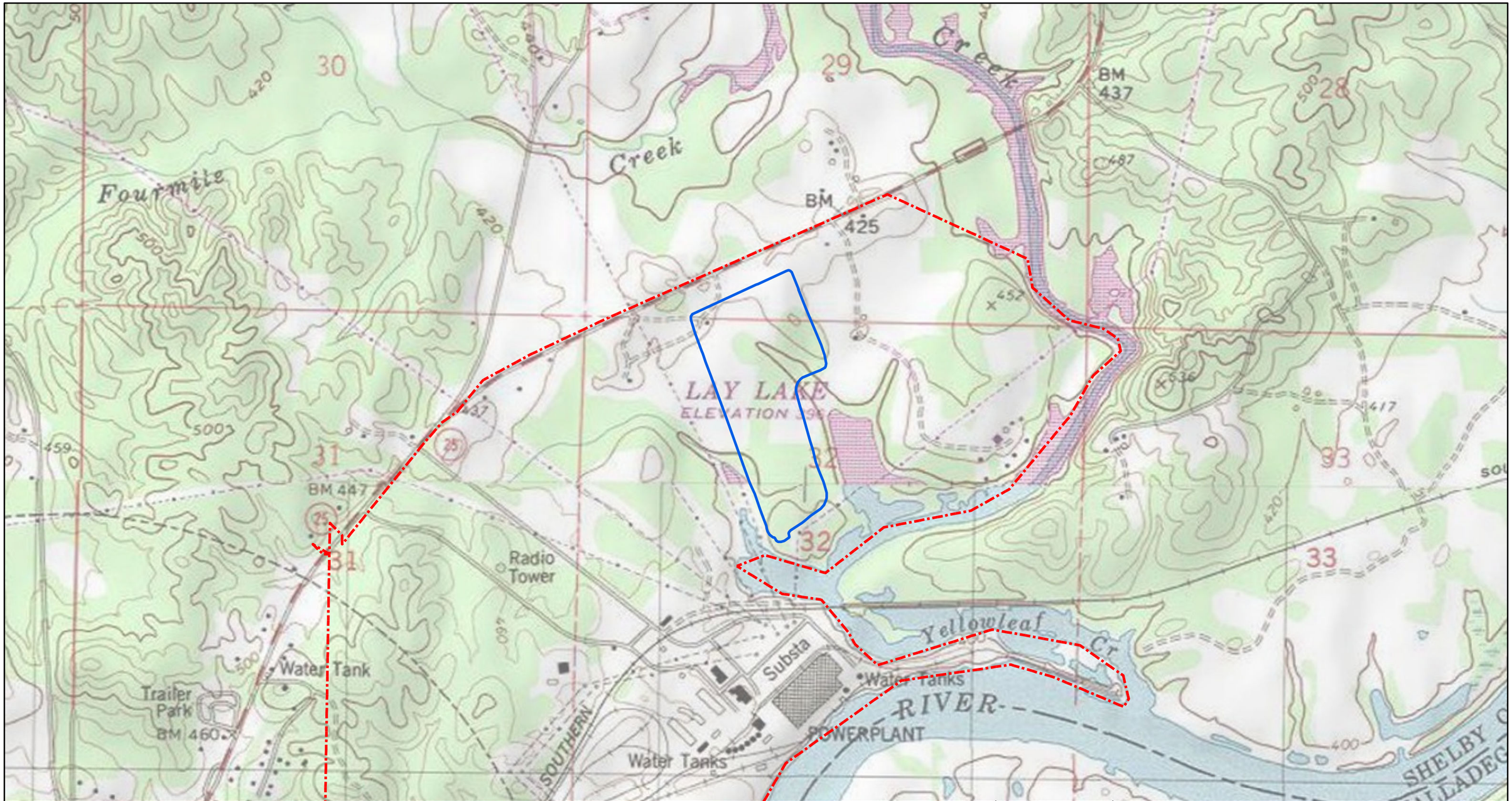
DRAWING TITLE

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

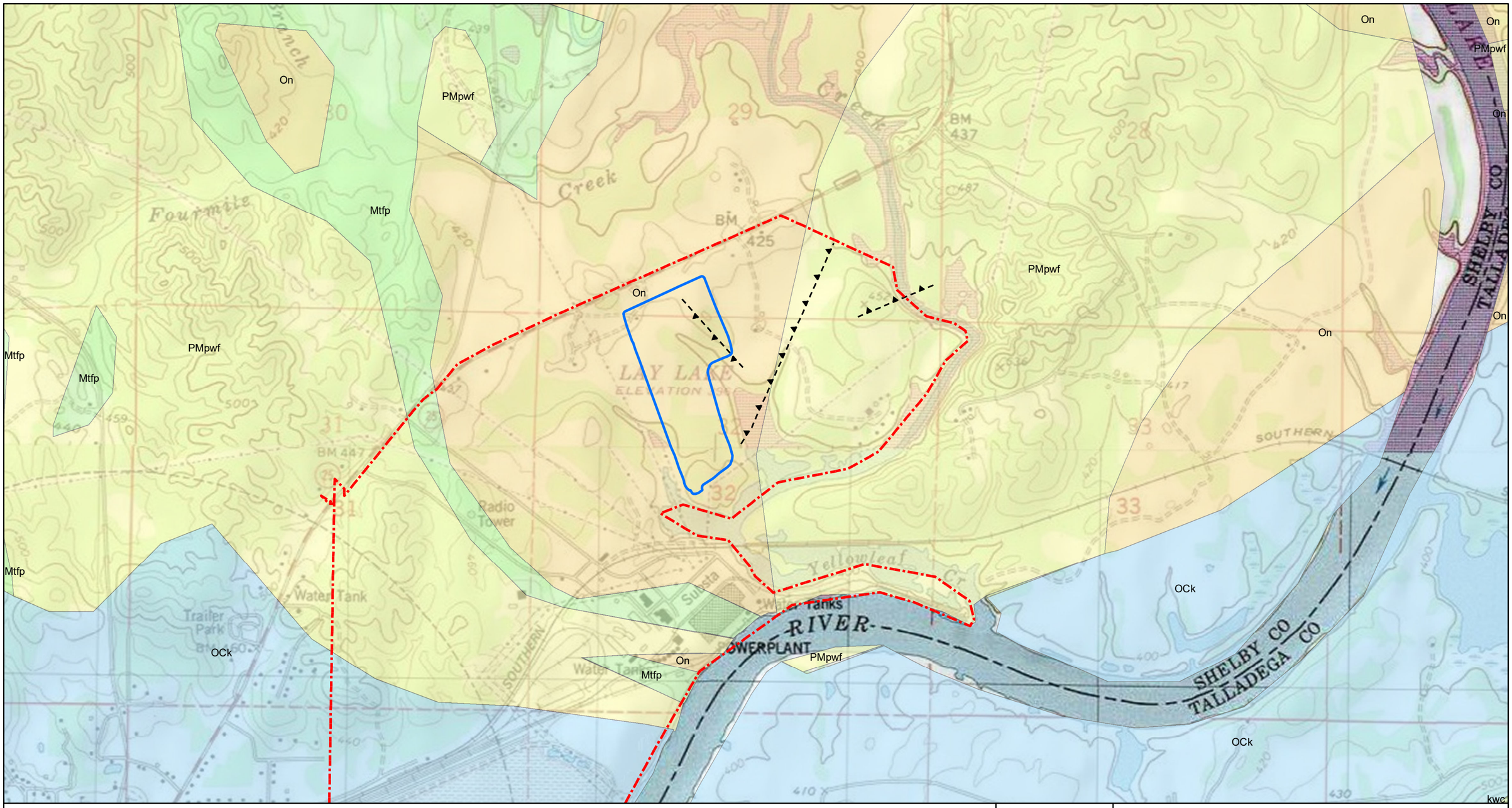
DRAWING TITLE

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

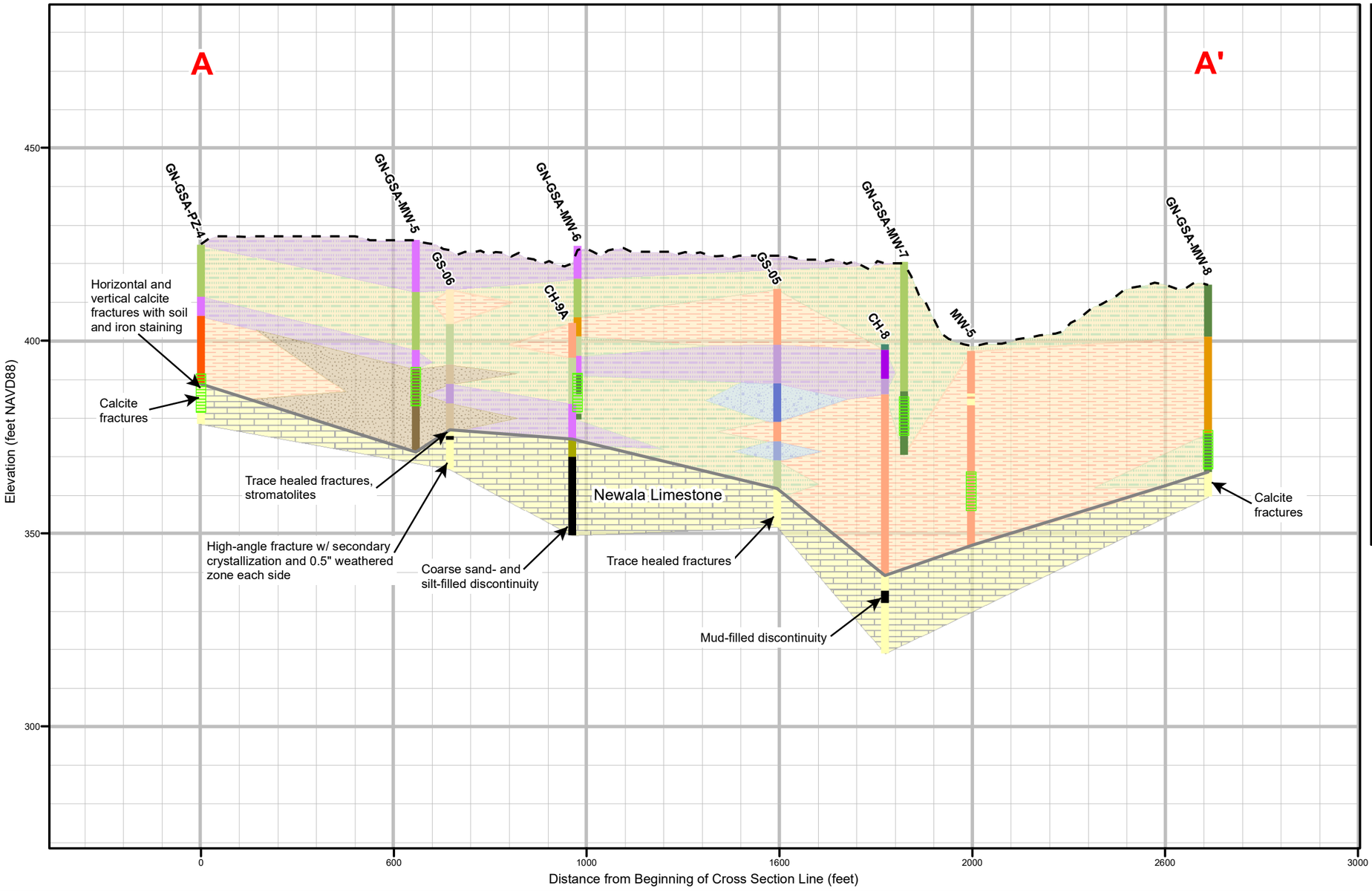
DRAWING TITLE

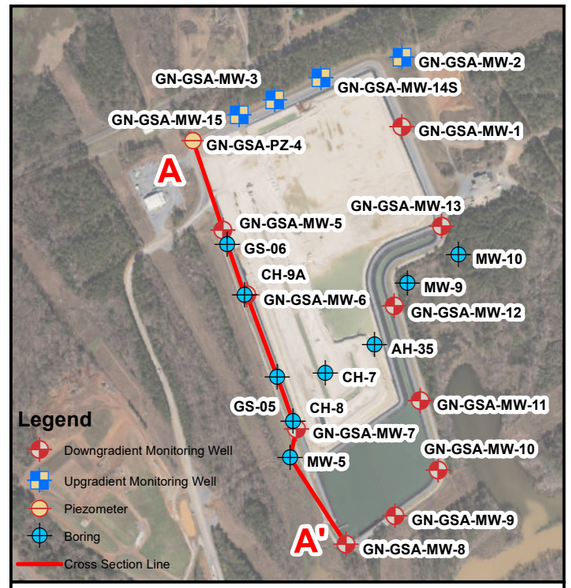
SITE GEOLOGIC MAP
PLANT GASTON GYPSUM POND

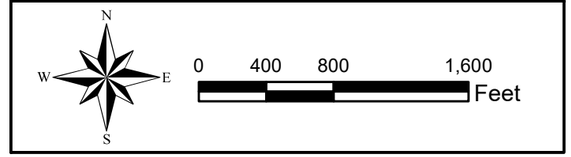
FIGURE NO

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

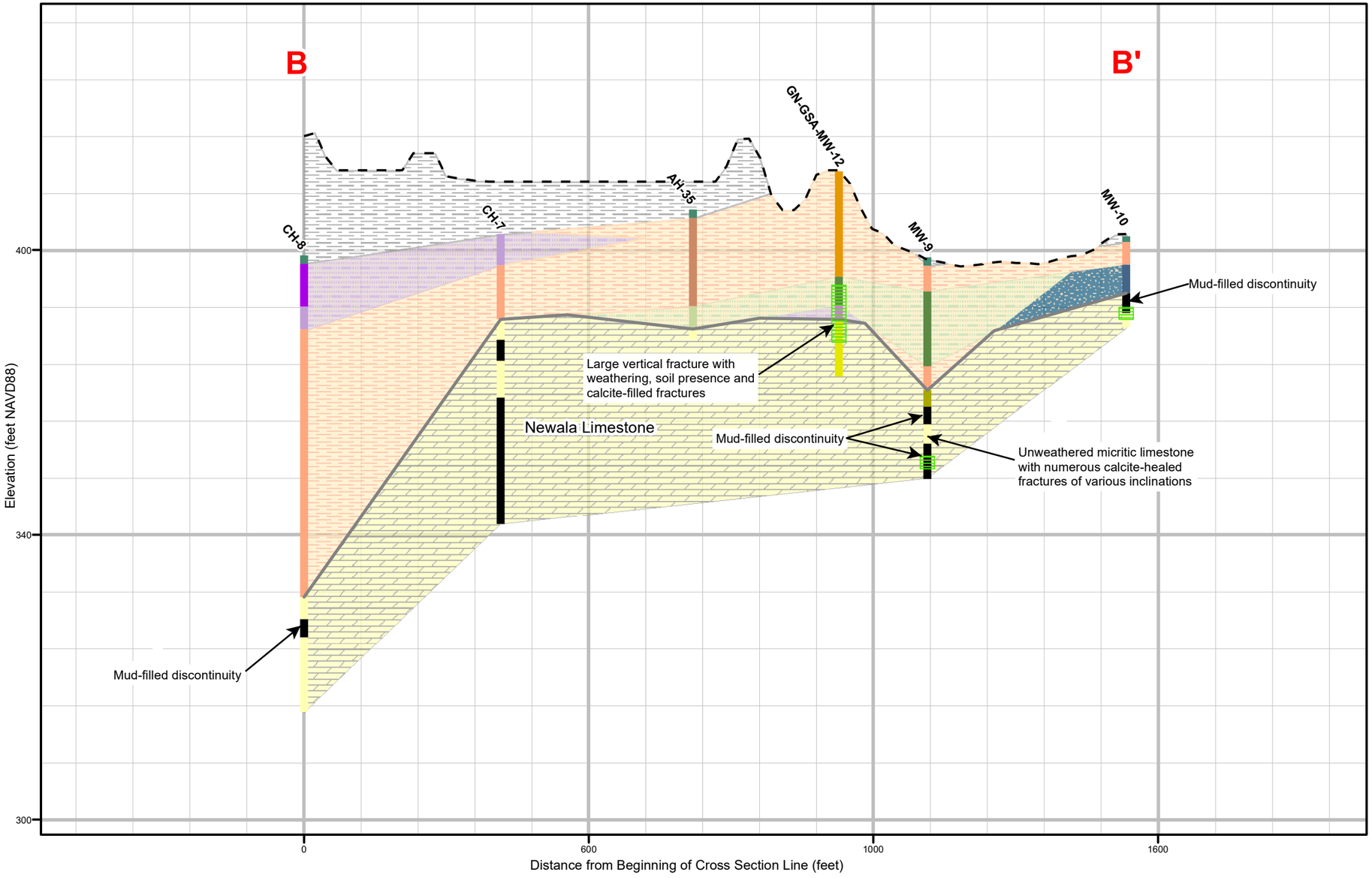
DRAWING TITLE

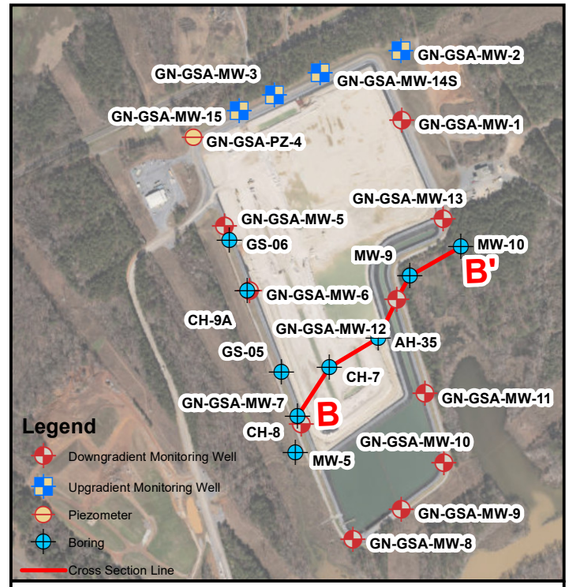
GEOLOGIC CROSS-SECTION A - A'
PLANT GASTON GYPSUM POND

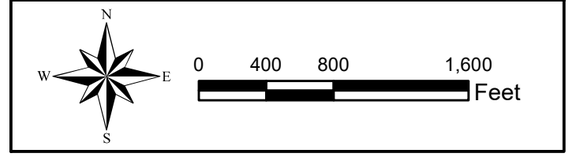
FIGURE NO

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

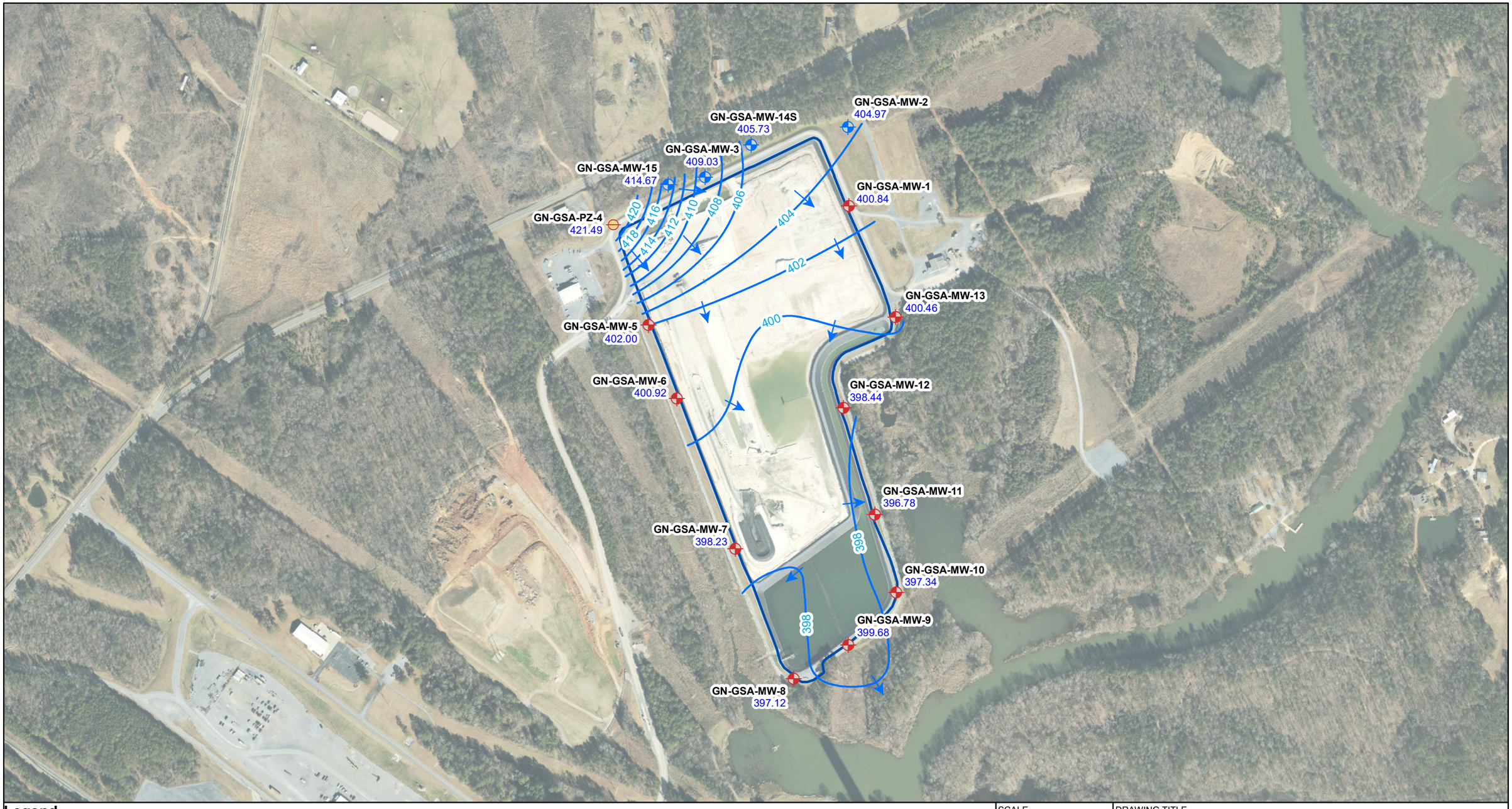
DRAWING TITLE

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
400.84 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	1/27/2022
DRAWN BY	KWR
CHECKED BY	GBD

DRAWING TITLE

POTENTIOMETRIC SURFACE CONTOUR MAP APRIL 13, 2021 PLANT GASTON GYPSUM POND

FIGURE NO

FIGURE 6A

Southern Company

Legend

- Downgradient Monitoring Well
- Upgradient Monitoring Well
- Piezometer

GN-GSA-MW-1 Well ID
398.49 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	1/27/2022
DRAWN BY	KWR
CHECKED BY	GBD

DRAWING TITLE
POTENTIOMETRIC SURFACE CONTOUR MAP
OCTOBER 4, 2021
PLANT GASTON GYPSUM POND

FIGURE NO
FIGURE 6B

Southern Company

Appendix A

Southern Company

Appendix A
Historical Analytical Data
Gaston Gypsum Pond

Analyte	Units	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
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
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
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
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
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
TDS	mg/L	272	283	294	295	310	280	287	287	280	--	284	278	286	297	276	272	283	287
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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 A
Historical Analytical Data
Gaston Gypsum Pond

Analyte	Units	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
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
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
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
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
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
TDS	mg/L	334	349	316	309	302	297	287	283	284	--	248	215	184	225	250	220	196	168
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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 A
Historical Analytical Data
Gaston Gypsum Pond

Analyte	Units	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
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
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
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
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
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
TDS	mg/L	194	208	198	205	221	195	220	185	202	--	205	204	202	195	189	198	191	183
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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
Gaston Gypsum Pond

Analyte	Units	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
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
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
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
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
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
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	--
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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 A
Historical Analytical Data
Gaston Gypsum Pond

Analyte	Units	GN-GSA-MW-1																	
		03/24/2016	05/10/2016	07/05/2016	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
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
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
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
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
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
TDS	mg/L	203	204	188	188	197	165	244	201	196	--	221	195	244	200	219	221	237	221
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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
Gaston Gypsum Pond

Analyte	Units	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
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
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	81.6
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	9.52
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
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	112
TDS	mg/L	185	176	203	180	187	205	187	238	269	--	312	292	398	388	308	360	350	395
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
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
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
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
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
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
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
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
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
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
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
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	8.8e-005 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
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

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
Gaston Gypsum Pond

Analyte	Units	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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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
Gaston Gypsum Pond

Analyte	Units	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
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
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
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
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
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
TDS	mg/L	202	207	202	204	212	251	234	229	225	--	210	209	218	233	241	234	220	232
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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
Gaston Gypsum Pond

Analyte	Units	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
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
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
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
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
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
TDS	mg/L	179	195	192	193	198	195	184	194	193	--	186	184	185	184	182	192	186	203
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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 A
Historical Analytical Data
Gaston Gypsum Pond

Analyte	Units	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
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
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
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
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
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
TDS	mg/L	149	179	183	173	207	153	158	138	171	--	167	177	176	189	153	187	163	170
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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
Gaston Gypsum Pond

Analyte	Units	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
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
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
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
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
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
TDS	mg/L	2240	257	256	245	258	243	252	257	259	--	266	265	274	260	259	275	273	293
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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 A
Historical Analytical Data
Gaston Gypsum Pond

Analyte	Units	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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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
Gaston Gypsum Pond

Analyte	Units	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
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
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
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
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
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
TDS	mg/L	237	226	191	200	190	264	242	231	225	--	230	201	231	217	256	230	260	255
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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 A
Historical Analytical Data
Gaston Gypsum Pond

Analyte	Units	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
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
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
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	3.39
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
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	7.23
TDS	mg/L	244	247	247	264	173	260	277	296	294	--	282	279	286	271	282	271	286	277
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
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	0.000117 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
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
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
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	0.000547 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
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
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
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
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
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	0.000154 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
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

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

Southern Company

Appendix B -
Historical Groundwater Elevations Summary
Plant Gaston Gypsum Pond

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
GN-GSA-MW-1	426.73	399.89	400.55	399.31	396.15	396.46	394.18	399.83	398.12	400.75
GN-GSA-MW-2	421.19	403.92	402.87	401.41	398.08	397.71	397.31	401.40	399.44	405.73
GN-GSA-MW-3	425.30	411.24	409.76	407.57	402.71	400.85	399.16	402.18	403.33	408.43
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
GN-GSA-MW-6	427.64	400.10	400.07	399.25	397.27	397.02	395.44	399.55	398.66	400.74
GN-GSA-MW-7	423.79	391.38	398.01	397.35	395.97	395.77	394.57	397.65	397.24	398.14
GN-GSA-MW-8	417.58	396.41	397.38	396.20	395.84	395.75	395.46	396.50	395.90	396.71
GN-GSA-MW-9	417.68	397.03	398.56	396.61	395.76	395.74	394.99	397.13	396.05	398.57
GN-GSA-MW-10	418.04	396.51	397.33	396.29	395.64	395.68	395.05	396.67	396.21	396.71
GN-GSA-MW-11	417.69	396.44	397.28	396.21	395.47	395.55	395.13	396.60	396.09	396.38
GN-GSA-MW-12	417.10	397.82	398.40	397.12	395.67	395.80	394.76	397.69	396.81	397.92
GN-GSA-MW-13	422.74	399.60	400.87	398.76	395.49	395.93	393.46	399.56	397.83	400.36
GN-GSA-MW-14S	424.06	--	--	--	400.16	398.80	397.63	401.59	400.86	406.18
GN-GSA-MW-15	426.19	--	--	--	402.95	401.21	399.07	407.15	404.90	414.83

Well Name	Top of Casing Elevation	Groundwater Elevation (ft. AMSL)								
		8/14/2017	1/9/2018	4/16/2018	10/1/2018	5/20/2019	9/3/2019	2/11/2020	9/8/2020	4/13/2021
GN-GSA-MW-1	426.73	398.09	400.03	398.84	395.23	398.50	394.93	402.13	395.97	400.84
GN-GSA-MW-2	421.19	399.15	399.14	401.37	397.59	400.52	397.66	410.56	398.01	404.97
GN-GSA-MW-3	425.30	403.55	402.09	405.13	399.85	405.62	400.51	410.32	401.64	409.03
GN-GSA-PZ-4	427.71	--	--	--	--	414.22	410.95	424.34	411.95	421.49
GN-GSA-MW-5	429.49	399.17	400.45	399.53	396.02	399.55	396.04	403.27	397.52	402.00
GN-GSA-MW-6	427.64	398.55	399.80	398.84	395.94	398.84	395.88	401.96	397.27	400.92
GN-GSA-MW-7	423.79	397.30	398.17	396.93	394.89	397.16	395.37	399.91	396.37	398.23
GN-GSA-MW-8	417.58	396.33	397.18	396.07	394.08	396.10	395.62	401.36	395.70	397.12
GN-GSA-MW-9	417.68	396.75	399.12	396.53	394.25	396.61	395.39	402.97	395.82	399.68
GN-GSA-MW-10	418.04	396.40	397.39	396.24	394.02	396.26	395.37	400.76	395.74	397.34
GN-GSA-MW-11	417.69	396.21	397.13	396.09	394.39	396.01	395.34	400.66	395.47	396.78
GN-GSA-MW-12	417.10	396.92	398.35	396.87	394.95	397.04	395.30	400.44	395.90	398.44
GN-GSA-MW-13	422.74	397.79	400.73	398.52	394.78	398.11	394.36	402.74	395.55	400.46
GN-GSA-MW-14S	424.06	400.84	400.00	402.34	398.14	402.39	398.44	411.16	399.33	405.73
GN-GSA-MW-15	426.19	404.61	406.76	407.66	400.17	406.92	400.43	418.13	402.03	414.67

Notes:
(1) "- -" Not Measured
(2) Standard Dev. - Standard Deviation
(3) NAVD88 - 1988 North American Vertical Datum

Reference Units:
(1)Elevations - feet NAVD88; (2) Standard Dev. - feet

Southern Company

Appendix B -
Historical Groundwater Elevations Summary
Plant Gaston Gypsum Pond

Well Name	Top of Casing Elevation	4/13/2021	Groundwater Elevation Data Summary			
			Standard Dev	GW Elev. (Min)	GW Elev. (Average)	GW Elev. (Max)
GN-GSA-MW-1	426.73	400.84	6.55	394.18	398.32	402.13
GN-GSA-MW-2	421.19	404.97	5.51	397.31	400.94	410.56
GN-GSA-MW-3	425.30	409.03	5.77	399.16	404.61	411.24
GN-GSA-PZ-4	427.71	421.49	6.13	410.95	416.59	424.34
GN-GSA-MW-5	429.49	402.00	6.87	396.02	399.37	403.27
GN-GSA-MW-6	427.64	400.92	6.54	395.44	398.67	401.96
GN-GSA-MW-7	423.79	398.23	6.15	391.38	396.69	399.91
GN-GSA-MW-8	417.58	397.12	4.80	394.08	396.43	401.36
GN-GSA-MW-9	417.68	399.68	4.88	394.25	397.09	402.97
GN-GSA-MW-10	418.04	397.34	4.88	394.02	396.42	400.76
GN-GSA-MW-11	417.69	396.78	4.81	394.39	396.29	400.66
GN-GSA-MW-12	417.10	398.44	4.58	394.76	397.01	400.44
GN-GSA-MW-13	422.74	400.46	5.90	393.46	398.05	402.74
GN-GSA-MW-14S	424.06	405.73	6.25	397.63	401.57	411.16
GN-GSA-MW-15	426.19	414.67	7.07	399.07	406.1	418.13

Notes:
(1) "- -" Not Measured
(2) Standard Dev. - Standard Deviation
(3) NAVD88 - 1988 North American Vertical Datum

Reference Units:
(1)Elevations - feet NAVD88; (2) Standard Dev. - feet

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

2021 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.

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

Analytical Report

Alabama Power

Sample Group : WMWGASG_1318

Project/Site : Gaston Gypsum
Wilsonville, AL 35186

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

Attention : Dustin Brooks & Greg Dyer

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

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

May 18, 2021

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on April 14, 2021.
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, 2021

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

Sincerely,

Quality Control: Laura Midkiff

Digitally signed by Laura Midkiff
DN: cn=Laura Midkiff, o=Alabama Power Company, ou=Environmental Affairs, email=lbmidkif@southernco.com, c=US
Date: 2021.05.18 14:09:38 -05'00'

Supervision: T. Durant Maske

Digitally signed by T. Durant Maske
DN: cn=T. Durant Maske, o=Alabama Power Company, ou=Environmental Affairs, email=tdmaske@southernco.com, c=US
Date: 2021.05.19 08:39:59 -05'00'

REPORT OF LABORATORY ANALYSIS

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

Case Narrative

Alabama Power

Total Metals ICP

Gaston Gypsum

WMWGASG_1318

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
BB07007	696265	WMWGASG_1318
BB07008	696265	WMWGASG_1318
BB07009	696265	WMWGASG_1318
BB07010	696265	WMWGASG_1318
BB07011	696265	WMWGASG_1318
BB07012	696265	WMWGASG_1318
BB07013	696265	WMWGASG_1318
BB07014	696265	WMWGASG_1318
BB07015	696265	WMWGASG_1318
BB07016	696265	WMWGASG_1318
BB07017	696266	WMWGASG_1318
BB07018	696266	WMWGASG_1318
BB07019	696266	WMWGASG_1318
BB07020	696266	WMWGASG_1318
BB07021	696266	WMWGASG_1318
BB07022	696266	WMWGASG_1318
BB07023	696266	WMWGASG_1318
BB07024	696266	WMWGASG_1318
BB07025	696266	WMWGASG_1318

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

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- 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
BB07008	Calcium	10.15
BB07010	Calcium	10.15
BB07011	Calcium	10.15
BB07013	Calcium	10.15
BB07014	Calcium	10.15
BB07015	Calcium	10.15
BB07017	Calcium	10.15
BB07018	Calcium	10.15
BB07019	Calcium	10.15
BB07020	Calcium	10.15
BB07022	Calcium	10.15
BB07023	Calcium	10.15
BB07025	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_1318

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
BB07007	696231	WMWGASG_1318
BB07008	696231	WMWGASG_1318
BB07010	696231	WMWGASG_1318
BB07011	696231	WMWGASG_1318
BB07012	696231	WMWGASG_1318
BB07013	696231	WMWGASG_1318
BB07014	696231	WMWGASG_1318
BB07015	696231	WMWGASG_1318
BB07016	696231	WMWGASG_1318
BB07017	696231	WMWGASG_1318
BB07018	696232	WMWGASG_1318
BB07019	696232	WMWGASG_1318
BB07020	696232	WMWGASG_1318
BB07022	696232	WMWGASG_1318
BB07023	696232	WMWGASG_1318
BB07025	696232	WMWGASG_1318

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

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each batch passed all acceptance criteria for all requested analytes.
- 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.
- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for precision were met.

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

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

Case Narrative

Alabama Power

Total Metals ICPMS

Gaston Gypsum

WMWGASG_1318

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
BB07007	696610	WMWGASG_1318
BB07008	696610	WMWGASG_1318
BB07009	696610	WMWGASG_1318
BB07010	696610	WMWGASG_1318
BB07011	696610	WMWGASG_1318
BB07012	696610	WMWGASG_1318
BB07013	696610	WMWGASG_1318
BB07014	696610	WMWGASG_1318
BB07015	696610	WMWGASG_1318
BB07016	696610	WMWGASG_1318
BB07017	696611	WMWGASG_1318
BB07018	696611	WMWGASG_1318
BB07019	696611	WMWGASG_1318
BB07020	696611	WMWGASG_1318
BB07021	696611	WMWGASG_1318
BB07022	696611	WMWGASG_1318
BB07023	696611	WMWGASG_1318
BB07024	696611	WMWGASG_1318
BB07025	696611	WMWGASG_1318

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

General Quality Control Procedures:

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

Matrix Specific Quality Control Procedures:

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

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for accuracy were met, except for the following:
  - BB07025 Barium MS/MSD spike level was less than 30% of the sample concentration.
- 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 sample was diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

Sample ID	Analyte	Dilution Factor
BB07025	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_1318

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
BB07007	696580	WMWGASG_1318
BB07008	696580	WMWGASG_1318
BB07010	696580	WMWGASG_1318
BB07011	696580	WMWGASG_1318
BB07012	696580	WMWGASG_1318
BB07013	696580	WMWGASG_1318
BB07014	696580	WMWGASG_1318
BB07015	696580	WMWGASG_1318
BB07016	696580	WMWGASG_1318
BB07017	696580	WMWGASG_1318
BB07018	696581	WMWGASG_1318
BB07019	696581	WMWGASG_1318
BB07020	696581	WMWGASG_1318
BB07022	696581	WMWGASG_1318
BB07023	696581	WMWGASG_1318
BB07025	696581	WMWGASG_1318

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.

Matrix Specific Quality Control Procedures:

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

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

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

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

Case Narrative

Alabama Power

Mercury

Gaston Gypsum

WMWGASG_1318

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
BB07007	695979	WMWGASG_1318
BB07008	695979	WMWGASG_1318
BB07009	695979	WMWGASG_1318
BB07010	695979	WMWGASG_1318
BB07011	695979	WMWGASG_1318
BB07012	695979	WMWGASG_1318
BB07013	695979	WMWGASG_1318
BB07014	695979	WMWGASG_1318
BB07015	695979	WMWGASG_1318
BB07016	695979	WMWGASG_1318
BB07017	695980	WMWGASG_1318
BB07018	695980	WMWGASG_1318
BB07019	695980	WMWGASG_1318
BB07020	695980	WMWGASG_1318
BB07021	695980	WMWGASG_1318
BB07022	695980	WMWGASG_1318
BB07023	695980	WMWGASG_1318
BB07024	695980	WMWGASG_1318
BB07025	695980	WMWGASG_1318

4. All of the above samples were analyzed and prepared by EPA 245.1.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

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

Matrix Specific Quality Control Procedures:

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

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

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

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

Case Narrative

Alabama Power

TDS

Gaston Gypsum

WMWGASG_1318

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
BB07007	696308	WMWGASG_1318
BB07008	696308	WMWGASG_1318
BB07009	696308	WMWGASG_1318
BB07010	696308	WMWGASG_1318
BB07011	696308	WMWGASG_1318
BB07012	696308	WMWGASG_1318
BB07013	696308	WMWGASG_1318
BB07014	696308	WMWGASG_1318
BB07015	696308	WMWGASG_1318
BB07016	696308	WMWGASG_1318
BB07017	696309	WMWGASG_1318
BB07018	696309	WMWGASG_1318
BB07019	696309	WMWGASG_1318
BB07020	696309	WMWGASG_1318
BB07021	696309	WMWGASG_1318
BB07022	696309	WMWGASG_1318
BB07023	696309	WMWGASG_1318
BB07024	696309	WMWGASG_1318
BB07025	696309	WMWGASG_1318

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

General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch. RPD/2 was less than 5%.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue <2.5mg had the maximum volume of 150mL filtered. Affected samples are as follows:
    - BB07009
    - BB07021
    - BB07024

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

Case Narrative

Alabama Power

Anions

Gaston Gypsum

WMWGASG_1318

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
BB07007	696139, 696143, & 695985	WMWGASG_1318
BB07008	696139, 696143, & 695985	WMWGASG_1318
BB07009	696139, 696143, & 695985	WMWGASG_1318
BB07010	696139, 696143, & 695985	WMWGASG_1318
BB07011	696139, 696143, & 695985	WMWGASG_1318
BB07012	696139, 696143, & 695985	WMWGASG_1318
BB07013	696139, 696143, & 695985	WMWGASG_1318
BB07014	696139, 696143, & 695985	WMWGASG_1318
BB07015	696139, 696143, & 695985	WMWGASG_1318
BB07016	696139, 696143, & 695985	WMWGASG_1318
BB07017	696140, 696144, & 695986	WMWGASG_1318
BB07018	696140, 696144, & 695986	WMWGASG_1318
BB07019	696140, 696144, & 695986	WMWGASG_1318
BB07020	696140, 696144, & 695986	WMWGASG_1318
BB07021	696140, 696144, & 695986	WMWGASG_1318
BB07022	696140, 696144, & 695986	WMWGASG_1318
BB07023	696140, 696144, & 695986	WMWGASG_1318
BB07024	696140, 696144, & 695986	WMWGASG_1318
BB07025	696140, 696144, & 695986	WMWGASG_1318

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

General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV), and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below the 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 was analyzed with each batch. Acceptance criteria for accuracy were met.
- A sample duplicate was analyzed with each batch. Acceptance criteria for precision were met.

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

Sample ID	Analyte	Dilution Factor
BB07014	Sulfate	8
BB07015	Sulfate	8

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

Alkalinity

Gaston Gypsum

WMWGASG_1318

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
BB07007	696818 & 696819	WMWGASG_1318
BB07008	696818 & 696819	WMWGASG_1318
BB07010	696818 & 696819	WMWGASG_1318
BB07011	696818 & 696819	WMWGASG_1318
BB07012	696818 & 696819	WMWGASG_1318
BB07013	696818 & 696819	WMWGASG_1318
BB07014	696818 & 696819	WMWGASG_1318
BB07015	696818 & 696819	WMWGASG_1318
BB07016	696818 & 696819	WMWGASG_1318
BB07017	696818 & 696819	WMWGASG_1318
BB07018	696818 & 696819	WMWGASG_1318
BB07019	696818 & 696819	WMWGASG_1318
BB07020	696818 & 696819	WMWGASG_1318
BB07022	696818 & 696819	WMWGASG_1318
BB07023	696818 & 696819	WMWGASG_1318
BB07025	696818 & 696819	WMWGASG_1318

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

General Quality Control Procedures:

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

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: 4/13/21 11:55
Customer ID:
Submittal Date: 4/14/21 10:32

Laboratory ID Number: BB07007

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/19/21 12:02	4/20/21 12:28		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/19/21 12:02	4/20/21 12:28		1.015	5.17	mg/L	0.070035	0.406	
* Iron, Total	4/19/21 12:02	4/20/21 12:28		1.015	0.0674	mg/L	0.008120	0.0406	
* Lithium, Total	4/19/21 12:02	4/20/21 12:28		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/19/21 12:02	4/20/21 12:28		1.015	0.352	mg/L	0.021315	0.406	J
* Sodium, Total	4/19/21 12:02	4/20/21 12:28		1.015	0.934	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	4/19/21 13:00	4/21/21 11:30		1.015	0.0203	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/15/21 12:15	4/19/21 14:50		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/15/21 12:15	4/19/21 14:50		1.015	0.000134	mg/L	0.000068	0.000203	J
* Barium, Total	4/15/21 12:15	4/19/21 14:50		1.015	0.00801	mg/L	0.000101	0.000203	
* Beryllium, Total	4/15/21 12:15	4/19/21 14:50		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/15/21 12:15	4/19/21 14:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/15/21 12:15	4/19/21 14:50		1.015	0.000375	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/15/21 12:15	4/19/21 14:50		1.015	0.000460	mg/L	0.000068	0.000203	
* Lead, Total	4/15/21 12:15	4/19/21 14:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/15/21 12:15	4/19/21 14:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	4/15/21 12:15	4/19/21 14:50		1.015	0.287	mg/L	0.169505	0.5075	J
* Manganese, Total	4/15/21 12:15	4/19/21 14:50		1.015	0.0659	mg/L	0.000068	0.000203	
* Selenium, Total	4/15/21 12:15	4/19/21 14:50		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/15/21 12:15	4/19/21 14:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	4/19/21 09:08	4/19/21 13:10		1.015	0.0533	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/15/21 11:10	4/16/21 09:40		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	4/26/21 09:56	4/26/21 10:48		1	12.3	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/20/21 08:50	4/22/21 13:30		1	35.3	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 11:55
Customer ID:
Submittal Date: 4/14/21 10:32

Laboratory ID Number: BB07007

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	4/26/21 09:56	4/26/21 10:48		1	12.3	mg/L			
Carbonate Alkalinity, (calc.)	4/26/21 09:56	4/26/21 10:48		1	0.00	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/15/21 11:05	4/15/21 11:05		1	1.86	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/15/21 13:20	4/15/21 13:20		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/14/21 12:11	4/14/21 12:11		1	2.51	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/13/21 11:52	4/13/21 11:52			38.90	uS/cm			FA
pH	4/13/21 11:52	4/13/21 11:52			5.84	SU			FA
Temperature	4/13/21 11:52	4/13/21 11:52			21.20	C			FA
Turbidity	4/13/21 11:52	4/13/21 11:52			4.84	NTU			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.
LBM 5/17/21

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Version: 3.2
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Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/13/21 11:55
Customer ID:
Delivery Date: 4/14/21 10:32

Description: Gaston Gypsum - MW-15

Laboratory ID Number: BB07007

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07016	Iron, Total	mg/L	0.000162	0.0176	0.2	0.206	0.204	0.208	0.170 to 0.230	98.9	70.0 to 130	0.976	20.0
BB07017	Iron, Dissolved	mg/L	0.000123	0.0176	0.2	0.263	0.264	0.205	0.170 to 0.230	98.8	70.0 to 130	0.380	20.0
BB07017	Manganese, Dissolved	mg/L	0.0000074	0.000147	0.10	0.448	0.430	0.0998	0.0850 to 0.115	103	70.0 to 130	4.10	20.0
BB07016	Calcium, Total	mg/L	-0.00281	0.152	5.00	5.42	5.39	5.04	4.25 to 5.75	98.3	70.0 to 130	0.555	20.0
BB07016	Manganese, Total	mg/L	0.0000143	0.000147	0.10	0.107	0.106	0.0982	0.0850 to 0.115	99.9	70.0 to 130	0.939	20.0
BB07016	Molybdenum, Total	mg/L	0.0000041	0.000147	0.10	0.0956	0.0961	0.0964	0.0850 to 0.115	95.6	70.0 to 130	0.522	20.0
BB07016	Selenium, Total	mg/L	0.0000166	0.00100	0.10	0.1000	0.0991	0.0993	0.0850 to 0.115	100	70.0 to 130	0.904	20.0
BB07016	Barium, Total	mg/L	0.0000237	0.000200	0.10	0.118	0.112	0.0964	0.0850 to 0.115	100	70.0 to 130	5.22	20.0
BB07016	Mercury, Total by CVAA	mg/L	-0.0000330	0.000500	0.004	0.00368	0.00366	0.00363	0.00340 to 0.00460	92.0	70.0 to 130	0.545	20.0
BB07016	Antimony, Total	mg/L	0.000154	0.00100	0.10	0.0934	0.0929	0.0912	0.0850 to 0.115	93.4	70.0 to 130	0.537	20.0
BB07016	Arsenic, Total	mg/L	0.0000486	0.000147	0.10	0.100	0.103	0.101	0.0850 to 0.115	99.9	70.0 to 130	2.96	20.0
BB07016	Cadmium, Total	mg/L	0.0000084	0.000147	0.10	0.0968	0.0960	0.0978	0.0850 to 0.115	96.8	70.0 to 130	0.830	20.0
BB07016	Beryllium, Total	mg/L	0.0000402	0.000880	0.10	0.0957	0.0970	0.0961	0.0850 to 0.115	95.7	70.0 to 130	1.35	20.0
BB07016	Magnesium, Total	mg/L	-0.00330	0.0462	5.00	5.28	5.25	5.07	4.25 to 5.75	98.3	70.0 to 130	0.570	20.0
BB07016	Boron, Total	mg/L	0.00200	0.0650	1.00	1.03	1.03	1.04	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BB07016	Chromium, Total	mg/L	-0.0000009	0.000440	0.10	0.0996	0.0984	0.0993	0.0850 to 0.115	99.3	70.0 to 130	1.21	20.0
BB07016	Potassium, Total	mg/L	0.00408	0.367	10.0	10.3	10.2	10.1	8.50 to 11.5	103	70.0 to 130	0.976	20.0
BB07016	Lithium, Total	mg/L	-0.0000545	0.0154	0.20	0.196	0.196	0.203	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BB07016	Sodium, Total	mg/L	0.000402	0.0660	5.00	7.24	7.22	4.89	4.25 to 5.75	97.6	70.0 to 130	0.277	20.0
BB07016	Thallium, Total	mg/L	-0.0000096	0.000147	0.10	0.0951	0.0949	0.0941	0.0850 to 0.115	95.1	70.0 to 130	0.211	20.0
BB07016	Cobalt, Total	mg/L	-0.0000080	0.000147	0.10	0.100	0.0982	0.0995	0.0850 to 0.115	99.3	70.0 to 130	1.82	20.0
BB07016	Lead, Total	mg/L	0.0000015	0.000147	0.10	0.0991	0.0989	0.0970	0.0850 to 0.115	98.8	70.0 to 130	0.202	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASG
Sample Date: 4/13/21 11:55
Customer ID:
Delivery Date: 4/14/21 10:32

Description: Gaston Gypsum - MW-15

Laboratory ID Number: BB07007

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07025	Alkalinity, Total as CaCO3	mg/L					224	51.2	45.0 to 55.0			1.80	10.0
BB07016	Fluoride	mg/L	0.0331	0.100	2.50	2.30	0.0084	2.53	2.25 to 2.75	92.0	80.0 to 120	0.00	20.0
BB07015	Solids, Dissolved	mg/L	-2.00	25.0			350	54.0	40.0 to 60.0			0.143	5.00
BB07016	Chloride	mg/L	-0.111	1.00	10.0	13.8	3.50	9.94	9.00 to 11.0	103	80.0 to 120	1.14	20.0
BB07016	Sulfate	mg/L	-0.644	1.00	20.0	18.3	-0.196	18.7	18.0 to 22.0	91.5	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.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 14:16
Customer ID:
Submittal Date: 4/14/21 10:32

Laboratory ID Number: BB07008

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/19/21 12:02	4/20/21 12:32		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/19/21 12:02	4/20/21 14:17		10.15	57.8	mg/L	0.70035	4.06	
* Iron, Total	4/19/21 12:02	4/20/21 12:32		1.015	0.00923	mg/L	0.008120	0.0406	J
* Lithium, Total	4/19/21 12:02	4/20/21 12:32		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/19/21 12:02	4/20/21 12:32		1.015	2.33	mg/L	0.021315	0.406	
* Sodium, Total	4/19/21 12:02	4/20/21 12:32		1.015	5.09	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	4/19/21 13:00	4/21/21 11:33		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/15/21 12:15	4/19/21 14:54		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/15/21 12:15	4/19/21 14:54		1.015	0.000110	mg/L	0.000068	0.000203	J
* Barium, Total	4/15/21 12:15	4/19/21 14:54		1.015	0.0259	mg/L	0.000101	0.000203	
* Beryllium, Total	4/15/21 12:15	4/19/21 14:54		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/15/21 12:15	4/19/21 14:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/15/21 12:15	4/19/21 14:54		1.015	0.000337	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/15/21 12:15	4/19/21 14:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/15/21 12:15	4/19/21 14:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/15/21 12:15	4/19/21 14:54		1.015	0.0000749	mg/L	0.000068	0.000203	J
* Potassium, Total	4/15/21 12:15	4/19/21 14:54		1.015	7.81	mg/L	0.169505	0.5075	
* Manganese, Total	4/15/21 12:15	4/19/21 14:54		1.015	0.00724	mg/L	0.000068	0.000203	
* Selenium, Total	4/15/21 12:15	4/19/21 14:54		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/15/21 12:15	4/19/21 14:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	4/19/21 09:08	4/19/21 13:13		1.015	0.00254	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/15/21 11:10	4/16/21 09:42		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	4/26/21 09:56	4/26/21 10:48		1	197	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/20/21 08:50	4/22/21 13:30		1	196	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

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: 4/13/21 14:16
Customer ID:
Submittal Date: 4/14/21 10:32

Laboratory ID Number: BB07008

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	4/26/21 09:56	4/26/21 10:48		1	197	mg/L			
Carbonate Alkalinity, (calc.)	4/26/21 09:56	4/26/21 10:48		1	0.16	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/15/21 11:06	4/15/21 11:06		1	2.76	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/15/21 13:21	4/15/21 13:21		1	0.0690	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/14/21 12:12	4/14/21 12:12		1	7.88	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/13/21 14:13	4/13/21 14:13			353.47	uS/cm			FA
pH	4/13/21 14:13	4/13/21 14:13			6.71	SU			FA
Temperature	4/13/21 14:13	4/13/21 14:13			20.76	C			FA
Turbidity	4/13/21 14:13	4/13/21 14:13			1.32	NTU			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.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
COA_CCR

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744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASG
Sample Date: 4/13/21 14:16
Customer ID:
Delivery Date: 4/14/21 10:32

Description: Gaston Gypsum - MW-3

Laboratory ID Number: BB07008

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07016	Iron, Total	mg/L	0.000162	0.0176	0.2	0.206	0.204	0.208	0.170 to 0.230	98.9	70.0 to 130	0.976	20.0
BB07016	Calcium, Total	mg/L	-0.00281	0.152	5.00	5.42	5.39	5.04	4.25 to 5.75	98.3	70.0 to 130	0.555	20.0
BB07016	Manganese, Total	mg/L	0.0000143	0.000147	0.10	0.107	0.106	0.0982	0.0850 to 0.115	99.9	70.0 to 130	0.939	20.0
BB07016	Molybdenum, Total	mg/L	0.0000041	0.000147	0.10	0.0956	0.0961	0.0964	0.0850 to 0.115	95.6	70.0 to 130	0.522	20.0
BB07016	Selenium, Total	mg/L	0.0000166	0.00100	0.10	0.1000	0.0991	0.0993	0.0850 to 0.115	100	70.0 to 130	0.904	20.0
BB07017	Iron, Dissolved	mg/L	0.000123	0.0176	0.2	0.263	0.264	0.205	0.170 to 0.230	98.8	70.0 to 130	0.380	20.0
BB07017	Manganese, Dissolved	mg/L	0.0000074	0.000147	0.10	0.448	0.430	0.0998	0.0850 to 0.115	103	70.0 to 130	4.10	20.0
BB07016	Arsenic, Total	mg/L	0.0000486	0.000147	0.10	0.100	0.103	0.101	0.0850 to 0.115	99.9	70.0 to 130	2.96	20.0
BB07016	Cadmium, Total	mg/L	0.0000084	0.000147	0.10	0.0968	0.0960	0.0978	0.0850 to 0.115	96.8	70.0 to 130	0.830	20.0
BB07016	Barium, Total	mg/L	0.0000237	0.000200	0.10	0.118	0.112	0.0964	0.0850 to 0.115	100	70.0 to 130	5.22	20.0
BB07016	Mercury, Total by CVAA	mg/L	-0.0000330	0.000500	0.004	0.00368	0.00366	0.00363	0.00340 to 0.00460	92.0	70.0 to 130	0.545	20.0
BB07016	Antimony, Total	mg/L	0.000154	0.00100	0.10	0.0934	0.0929	0.0912	0.0850 to 0.115	93.4	70.0 to 130	0.537	20.0
BB07016	Beryllium, Total	mg/L	0.0000402	0.000880	0.10	0.0957	0.0970	0.0961	0.0850 to 0.115	95.7	70.0 to 130	1.35	20.0
BB07016	Magnesium, Total	mg/L	-0.00330	0.0462	5.00	5.28	5.25	5.07	4.25 to 5.75	98.3	70.0 to 130	0.570	20.0
BB07016	Boron, Total	mg/L	0.00200	0.0650	1.00	1.03	1.03	1.04	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BB07016	Chromium, Total	mg/L	-0.0000009	0.000440	0.10	0.0996	0.0984	0.0993	0.0850 to 0.115	99.3	70.0 to 130	1.21	20.0
BB07016	Potassium, Total	mg/L	0.00408	0.367	10.0	10.3	10.2	10.1	8.50 to 11.5	103	70.0 to 130	0.976	20.0
BB07016	Lithium, Total	mg/L	-0.0000545	0.0154	0.20	0.196	0.196	0.203	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BB07016	Sodium, Total	mg/L	0.000402	0.0660	5.00	7.24	7.22	4.89	4.25 to 5.75	97.6	70.0 to 130	0.277	20.0
BB07016	Thallium, Total	mg/L	-0.0000096	0.000147	0.10	0.0951	0.0949	0.0941	0.0850 to 0.115	95.1	70.0 to 130	0.211	20.0
BB07016	Cobalt, Total	mg/L	-0.0000080	0.000147	0.10	0.100	0.0982	0.0995	0.0850 to 0.115	99.3	70.0 to 130	1.82	20.0
BB07016	Lead, Total	mg/L	0.0000015	0.000147	0.10	0.0991	0.0989	0.0970	0.0850 to 0.115	98.8	70.0 to 130	0.202	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASG
Sample Date: 4/13/21 14:16
Customer ID:
Delivery Date: 4/14/21 10:32

Description: Gaston Gypsum - MW-3

Laboratory ID Number: BB07008

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07016	Fluoride	mg/L	0.0331	0.100	2.50	2.30	0.0084	2.53	2.25 to 2.75	92.0	80.0 to 120	0.00	20.0
BB07015	Solids, Dissolved	mg/L	-2.00	25.0			350	54.0	40.0 to 60.0			0.143	5.00
BB07025	Alkalinity, Total as CaCO3	mg/L					224	51.2	45.0 to 55.0			1.80	10.0
BB07016	Chloride	mg/L	-0.111	1.00	10.0	13.8	3.50	9.94	9.00 to 11.0	103	80.0 to 120	1.14	20.0
BB07016	Sulfate	mg/L	-0.644	1.00	20.0	18.3	-0.196	18.7	18.0 to 22.0	91.5	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.
LBM 5/17/21

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: 4/13/21 14:45
Customer ID:
Submittal Date: 4/14/21 10:32

Laboratory ID Number: BB07009

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/19/21 12:02	4/20/21 12:35		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/19/21 12:02	4/20/21 12:35		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	4/19/21 12:02	4/20/21 12:35		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/19/21 12:02	4/20/21 12:35		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/19/21 12:02	4/20/21 12:35		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	4/19/21 12:02	4/20/21 12:35		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/15/21 12:15	4/19/21 14:57		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/15/21 12:15	4/19/21 14:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	4/15/21 12:15	4/19/21 14:57		1.015	Not Detected	mg/L	0.000101	0.000203	U
* Beryllium, Total	4/15/21 12:15	4/19/21 14:57		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/15/21 12:15	4/19/21 14:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/15/21 12:15	4/19/21 14:57		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/15/21 12:15	4/19/21 14:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/15/21 12:15	4/19/21 14:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/15/21 12:15	4/19/21 14:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/15/21 12:15	4/19/21 14:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	4/15/21 12:15	4/19/21 14:57		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	4/15/21 12:15	4/19/21 14:57		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/15/21 12:15	4/19/21 14:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/15/21 11:10	4/16/21 09:45		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/20/21 08:50	4/22/21 13:30		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/15/21 11:07	4/15/21 11:07		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/15/21 13:22	4/15/21 13:22		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/14/21 12:13	4/14/21 12:13		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 14:45
Customer ID:
Delivery Date: 4/14/21 10:32

Description: Gaston Gypsum Field Blank-2

Laboratory ID Number: BB07009

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07016	Iron, Total	mg/L	0.000162	0.0176	0.2	0.206	0.204	0.208	0.170 to 0.230	98.9	70.0 to 130	0.976	20.0
BB07016	Beryllium, Total	mg/L	0.0000402	0.000880	0.10	0.0957	0.0970	0.0961	0.0850 to 0.115	95.7	70.0 to 130	1.35	20.0
BB07016	Magnesium, Total	mg/L	-0.00330	0.0462	5.00	5.28	5.25	5.07	4.25 to 5.75	98.3	70.0 to 130	0.570	20.0
BB07016	Calcium, Total	mg/L	-0.00281	0.152	5.00	5.42	5.39	5.04	4.25 to 5.75	98.3	70.0 to 130	0.555	20.0
BB07016	Manganese, Total	mg/L	0.0000143	0.000147	0.10	0.107	0.106	0.0982	0.0850 to 0.115	99.9	70.0 to 130	0.939	20.0
BB07016	Molybdenum, Total	mg/L	0.0000041	0.000147	0.10	0.0956	0.0961	0.0964	0.0850 to 0.115	95.6	70.0 to 130	0.522	20.0
BB07016	Selenium, Total	mg/L	0.0000166	0.00100	0.10	0.1000	0.0991	0.0993	0.0850 to 0.115	100	70.0 to 130	0.904	20.0
BB07016	Barium, Total	mg/L	0.0000237	0.000200	0.10	0.118	0.112	0.0964	0.0850 to 0.115	100	70.0 to 130	5.22	20.0
BB07016	Mercury, Total by CVAA	mg/L	-0.0000330	0.000500	0.004	0.00368	0.00366	0.00363	0.00340 to 0.00460	92.0	70.0 to 130	0.545	20.0
BB07016	Antimony, Total	mg/L	0.000154	0.00100	0.10	0.0934	0.0929	0.0912	0.0850 to 0.115	93.4	70.0 to 130	0.537	20.0
BB07016	Arsenic, Total	mg/L	0.0000486	0.000147	0.10	0.100	0.103	0.101	0.0850 to 0.115	99.9	70.0 to 130	2.96	20.0
BB07016	Cadmium, Total	mg/L	0.0000084	0.000147	0.10	0.0968	0.0960	0.0978	0.0850 to 0.115	96.8	70.0 to 130	0.830	20.0
BB07016	Cobalt, Total	mg/L	-0.0000080	0.000147	0.10	0.100	0.0982	0.0995	0.0850 to 0.115	99.3	70.0 to 130	1.82	20.0
BB07016	Lead, Total	mg/L	0.0000015	0.000147	0.10	0.0991	0.0989	0.0970	0.0850 to 0.115	98.8	70.0 to 130	0.202	20.0
BB07016	Boron, Total	mg/L	0.00200	0.0650	1.00	1.03	1.03	1.04	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BB07016	Chromium, Total	mg/L	-0.0000009	0.000440	0.10	0.0996	0.0984	0.0993	0.0850 to 0.115	99.3	70.0 to 130	1.21	20.0
BB07016	Potassium, Total	mg/L	0.00408	0.367	10.0	10.3	10.2	10.1	8.50 to 11.5	103	70.0 to 130	0.976	20.0
BB07016	Lithium, Total	mg/L	-0.0000545	0.0154	0.20	0.196	0.196	0.203	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BB07016	Sodium, Total	mg/L	0.000402	0.0660	5.00	7.24	7.22	4.89	4.25 to 5.75	97.6	70.0 to 130	0.277	20.0
BB07016	Thallium, Total	mg/L	-0.0000096	0.000147	0.10	0.0951	0.0949	0.0941	0.0850 to 0.115	95.1	70.0 to 130	0.211	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: 4/13/21 14:45
Customer ID:
Delivery Date: 4/14/21 10:32

Description: Gaston Gypsum Field Blank-2

Laboratory ID Number: BB07009

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07016	Fluoride	mg/L	0.0331	0.100	2.50	2.30	0.0084	2.53	2.25 to 2.75	92.0	80.0 to 120	0.00	20.0
BB07015	Solids, Dissolved	mg/L	-2.00	25.0			350	54.0	40.0 to 60.0			0.143	5.00
BB07016	Chloride	mg/L	-0.111	1.00	10.0	13.8	3.50	9.94	9.00 to 11.0	103	80.0 to 120	1.14	20.0
BB07016	Sulfate	mg/L	-0.644	1.00	20.0	18.3	-0.196	18.7	18.0 to 22.0	91.5	80.0 to 120	0.00	20.0

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-14S

Location Code: WMWGASG
Collected: 4/13/21 15:15
Customer ID:
Submittal Date: 4/14/21 10:32

Laboratory ID Number: BB07010

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/19/21 12:02	4/20/21 12:39		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/19/21 12:02	4/20/21 14:21		10.15	48.4	mg/L	0.70035	4.06	
* Iron, Total	4/19/21 12:02	4/20/21 12:39		1.015	0.0512	mg/L	0.008120	0.0406	
* Lithium, Total	4/19/21 12:02	4/20/21 12:39		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/19/21 12:02	4/20/21 12:39		1.015	9.04	mg/L	0.021315	0.406	
* Sodium, Total	4/19/21 12:02	4/20/21 12:39		1.015	9.96	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	4/19/21 13:00	4/21/21 11:37		1.015	0.0357	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/15/21 12:15	4/19/21 15:01		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/15/21 12:15	4/19/21 15:01		1.015	0.000187	mg/L	0.000068	0.000203	J
* Barium, Total	4/15/21 12:15	4/19/21 15:01		1.015	0.0217	mg/L	0.000101	0.000203	
* Beryllium, Total	4/15/21 12:15	4/19/21 15:01		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/15/21 12:15	4/19/21 15:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/15/21 12:15	4/19/21 15:01		1.015	0.000697	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/15/21 12:15	4/19/21 15:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/15/21 12:15	4/19/21 15:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/15/21 12:15	4/19/21 15:01		1.015	0.000334	mg/L	0.000068	0.000203	
* Potassium, Total	4/15/21 12:15	4/19/21 15:01		1.015	0.747	mg/L	0.169505	0.5075	
* Manganese, Total	4/15/21 12:15	4/19/21 15:01		1.015	0.0164	mg/L	0.000068	0.000203	
* Selenium, Total	4/15/21 12:15	4/19/21 15:01		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/15/21 12:15	4/19/21 15:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	4/19/21 09:08	4/19/21 13:17		1.015	0.0162	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/15/21 11:10	4/16/21 09:47		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	4/26/21 09:56	4/26/21 10:48		1	200	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/20/21 08:50	4/22/21 13:30		1	191	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 15:15
Customer ID:
Submittal Date: 4/14/21 10:32

Laboratory ID Number: BB07010

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	4/26/21 09:56	4/26/21 10:48		1	199	mg/L			
Carbonate Alkalinity, (calc.)	4/26/21 09:56	4/26/21 10:48		1	1.00	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/15/21 11:10	4/15/21 11:10		1	2.56	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/15/21 13:23	4/15/21 13:23		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/14/21 12:14	4/14/21 12:14		1	3.45	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/13/21 15:12	4/13/21 15:12			333.75	uS/cm			FA
pH	4/13/21 15:12	4/13/21 15:12			7.33	SU			FA
Temperature	4/13/21 15:12	4/13/21 15:12			20.12	C			FA
Turbidity	4/13/21 15:12	4/13/21 15:12			2.23	NTU			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.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 15:15
Customer ID:
Delivery Date: 4/14/21 10:32

Description: Gaston Gypsum - MW-14S

Laboratory ID Number: BB07010

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07016	Iron, Total	mg/L	0.000162	0.0176	0.2	0.206	0.204	0.208	0.170 to 0.230	98.9	70.0 to 130	0.976	20.0
BB07016	Barium, Total	mg/L	0.0000237	0.000200	0.10	0.118	0.112	0.0964	0.0850 to 0.115	100	70.0 to 130	5.22	20.0
BB07016	Mercury, Total by CVAA	mg/L	-0.0000330	0.000500	0.004	0.00368	0.00366	0.00363	0.00340 to 0.00460	92.0	70.0 to 130	0.545	20.0
BB07016	Antimony, Total	mg/L	0.000154	0.00100	0.10	0.0934	0.0929	0.0912	0.0850 to 0.115	93.4	70.0 to 130	0.537	20.0
BB07016	Beryllium, Total	mg/L	0.0000402	0.000880	0.10	0.0957	0.0970	0.0961	0.0850 to 0.115	95.7	70.0 to 130	1.35	20.0
BB07016	Magnesium, Total	mg/L	-0.00330	0.0462	5.00	5.28	5.25	5.07	4.25 to 5.75	98.3	70.0 to 130	0.570	20.0
BB07016	Calcium, Total	mg/L	-0.00281	0.152	5.00	5.42	5.39	5.04	4.25 to 5.75	98.3	70.0 to 130	0.555	20.0
BB07016	Manganese, Total	mg/L	0.0000143	0.000147	0.10	0.107	0.106	0.0982	0.0850 to 0.115	99.9	70.0 to 130	0.939	20.0
BB07016	Molybdenum, Total	mg/L	0.0000041	0.000147	0.10	0.0956	0.0961	0.0964	0.0850 to 0.115	95.6	70.0 to 130	0.522	20.0
BB07016	Selenium, Total	mg/L	0.0000166	0.00100	0.10	0.1000	0.0991	0.0993	0.0850 to 0.115	100	70.0 to 130	0.904	20.0
BB07017	Iron, Dissolved	mg/L	0.000123	0.0176	0.2	0.263	0.264	0.205	0.170 to 0.230	98.8	70.0 to 130	0.380	20.0
BB07017	Manganese, Dissolved	mg/L	0.0000074	0.000147	0.10	0.448	0.430	0.0998	0.0850 to 0.115	103	70.0 to 130	4.10	20.0
BB07016	Arsenic, Total	mg/L	0.0000486	0.000147	0.10	0.100	0.103	0.101	0.0850 to 0.115	99.9	70.0 to 130	2.96	20.0
BB07016	Cadmium, Total	mg/L	0.0000084	0.000147	0.10	0.0968	0.0960	0.0978	0.0850 to 0.115	96.8	70.0 to 130	0.830	20.0
BB07016	Boron, Total	mg/L	0.00200	0.0650	1.00	1.03	1.03	1.04	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BB07016	Chromium, Total	mg/L	-0.0000009	0.000440	0.10	0.0996	0.0984	0.0993	0.0850 to 0.115	99.3	70.0 to 130	1.21	20.0
BB07016	Potassium, Total	mg/L	0.00408	0.367	10.0	10.3	10.2	10.1	8.50 to 11.5	103	70.0 to 130	0.976	20.0
BB07016	Lithium, Total	mg/L	-0.0000545	0.0154	0.20	0.196	0.196	0.203	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BB07016	Sodium, Total	mg/L	0.000402	0.0660	5.00	7.24	7.22	4.89	4.25 to 5.75	97.6	70.0 to 130	0.277	20.0
BB07016	Thallium, Total	mg/L	-0.0000096	0.000147	0.10	0.0951	0.0949	0.0941	0.0850 to 0.115	95.1	70.0 to 130	0.211	20.0
BB07016	Cobalt, Total	mg/L	-0.0000080	0.000147	0.10	0.100	0.0982	0.0995	0.0850 to 0.115	99.3	70.0 to 130	1.82	20.0
BB07016	Lead, Total	mg/L	0.0000015	0.000147	0.10	0.0991	0.0989	0.0970	0.0850 to 0.115	98.8	70.0 to 130	0.202	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASG
Sample Date: 4/13/21 15:15
Customer ID:
Delivery Date: 4/14/21 10:32

Description: Gaston Gypsum - MW-14S

Laboratory ID Number: BB07010

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07025	Alkalinity, Total as CaCO3	mg/L					224	51.2	45.0 to 55.0			1.80	10.0
BB07015	Solids, Dissolved	mg/L	-2.00	25.0			350	54.0	40.0 to 60.0			0.143	5.00
BB07016	Fluoride	mg/L	0.0331	0.100	2.50	2.30	0.0084	2.53	2.25 to 2.75	92.0	80.0 to 120	0.00	20.0
BB07016	Chloride	mg/L	-0.111	1.00	10.0	13.8	3.50	9.94	9.00 to 11.0	103	80.0 to 120	1.14	20.0
BB07016	Sulfate	mg/L	-0.644	1.00	20.0	18.3	-0.196	18.7	18.0 to 22.0	91.5	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.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 16:40
Customer ID:
Submittal Date: 4/14/21 10:32

Laboratory ID Number: BB07011

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/19/21 12:02	4/20/21 12:42		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/19/21 12:02	4/20/21 14:24		10.15	77.5	mg/L	0.70035	4.06	
* Iron, Total	4/19/21 12:02	4/20/21 12:42		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/19/21 12:02	4/20/21 12:42		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/19/21 12:02	4/20/21 12:42		1.015	20.8	mg/L	0.021315	0.406	
* Sodium, Total	4/19/21 12:02	4/20/21 12:42		1.015	2.41	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	4/19/21 13:00	4/21/21 11:40		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/15/21 12:15	4/19/21 15:05		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/15/21 12:15	4/19/21 15:05		1.015	0.000123	mg/L	0.000068	0.000203	J
* Barium, Total	4/15/21 12:15	4/19/21 15:05		1.015	0.0371	mg/L	0.000101	0.000203	
* Beryllium, Total	4/15/21 12:15	4/19/21 15:05		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/15/21 12:15	4/19/21 15:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/15/21 12:15	4/19/21 15:05		1.015	0.000517	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/15/21 12:15	4/19/21 15:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/15/21 12:15	4/19/21 15:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/15/21 12:15	4/19/21 15:05		1.015	0.000307	mg/L	0.000068	0.000203	
* Potassium, Total	4/15/21 12:15	4/19/21 15:05		1.015	0.491	mg/L	0.169505	0.5075	J
* Manganese, Total	4/15/21 12:15	4/19/21 15:05		1.015	0.000482	mg/L	0.000068	0.000203	
* Selenium, Total	4/15/21 12:15	4/19/21 15:05		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/15/21 12:15	4/19/21 15:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	4/19/21 09:08	4/19/21 13:21		1.015	0.000275	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/15/21 11:10	4/16/21 09:49		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	4/26/21 09:56	4/26/21 10:48		1	244	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/20/21 08:50	4/22/21 13:30		1	283	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 16:40
Customer ID:
Submittal Date: 4/14/21 10:32

Laboratory ID Number: BB07011

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	4/26/21 09:56	4/26/21 10:48		1	244	mg/L			
Carbonate Alkalinity, (calc.)	4/26/21 09:56	4/26/21 10:48		1	0.68	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/15/21 11:11	4/15/21 11:11		1	3.55	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/15/21 13:24	4/15/21 13:24		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/14/21 12:15	4/14/21 12:15		1	7.44	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/13/21 16:37	4/13/21 16:37			503.86	uS/cm			FA
pH	4/13/21 16:37	4/13/21 16:37			6.94	SU			FA
Temperature	4/13/21 16:37	4/13/21 16:37			21.60	C			FA
Turbidity	4/13/21 16:37	4/13/21 16:37			0.72	NTU			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.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 16:40
Customer ID:
Delivery Date: 4/14/21 10:32

Description: Gaston Gypsum - MW-2

Laboratory ID Number: BB07011

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07016	Iron, Total	mg/L	0.000162	0.0176	0.2	0.206	0.204	0.208	0.170 to 0.230	98.9	70.0 to 130	0.976	20.0
BB07016	Calcium, Total	mg/L	-0.00281	0.152	5.00	5.42	5.39	5.04	4.25 to 5.75	98.3	70.0 to 130	0.555	20.0
BB07016	Manganese, Total	mg/L	0.0000143	0.000147	0.10	0.107	0.106	0.0982	0.0850 to 0.115	99.9	70.0 to 130	0.939	20.0
BB07016	Molybdenum, Total	mg/L	0.0000041	0.000147	0.10	0.0956	0.0961	0.0964	0.0850 to 0.115	95.6	70.0 to 130	0.522	20.0
BB07016	Selenium, Total	mg/L	0.0000166	0.00100	0.10	0.1000	0.0991	0.0993	0.0850 to 0.115	100	70.0 to 130	0.904	20.0
BB07017	Iron, Dissolved	mg/L	0.000123	0.0176	0.2	0.263	0.264	0.205	0.170 to 0.230	98.8	70.0 to 130	0.380	20.0
BB07017	Manganese, Dissolved	mg/L	0.0000074	0.000147	0.10	0.448	0.430	0.0998	0.0850 to 0.115	103	70.0 to 130	4.10	20.0
BB07016	Barium, Total	mg/L	0.0000237	0.000200	0.10	0.118	0.112	0.0964	0.0850 to 0.115	100	70.0 to 130	5.22	20.0
BB07016	Mercury, Total by CVAA	mg/L	-0.0000330	0.000500	0.004	0.00368	0.00366	0.00363	0.00340 to 0.00460	92.0	70.0 to 130	0.545	20.0
BB07016	Antimony, Total	mg/L	0.000154	0.00100	0.10	0.0934	0.0929	0.0912	0.0850 to 0.115	93.4	70.0 to 130	0.537	20.0
BB07016	Arsenic, Total	mg/L	0.0000486	0.000147	0.10	0.100	0.103	0.101	0.0850 to 0.115	99.9	70.0 to 130	2.96	20.0
BB07016	Cadmium, Total	mg/L	0.0000084	0.000147	0.10	0.0968	0.0960	0.0978	0.0850 to 0.115	96.8	70.0 to 130	0.830	20.0
BB07016	Beryllium, Total	mg/L	0.0000402	0.000880	0.10	0.0957	0.0970	0.0961	0.0850 to 0.115	95.7	70.0 to 130	1.35	20.0
BB07016	Magnesium, Total	mg/L	-0.00330	0.0462	5.00	5.28	5.25	5.07	4.25 to 5.75	98.3	70.0 to 130	0.570	20.0
BB07016	Boron, Total	mg/L	0.00200	0.0650	1.00	1.03	1.03	1.04	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BB07016	Chromium, Total	mg/L	-0.0000009	0.000440	0.10	0.0996	0.0984	0.0993	0.0850 to 0.115	99.3	70.0 to 130	1.21	20.0
BB07016	Potassium, Total	mg/L	0.00408	0.367	10.0	10.3	10.2	10.1	8.50 to 11.5	103	70.0 to 130	0.976	20.0
BB07016	Lithium, Total	mg/L	-0.0000545	0.0154	0.20	0.196	0.196	0.203	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BB07016	Sodium, Total	mg/L	0.000402	0.0660	5.00	7.24	7.22	4.89	4.25 to 5.75	97.6	70.0 to 130	0.277	20.0
BB07016	Thallium, Total	mg/L	-0.0000096	0.000147	0.10	0.0951	0.0949	0.0941	0.0850 to 0.115	95.1	70.0 to 130	0.211	20.0
BB07016	Cobalt, Total	mg/L	-0.0000080	0.000147	0.10	0.100	0.0982	0.0995	0.0850 to 0.115	99.3	70.0 to 130	1.82	20.0
BB07016	Lead, Total	mg/L	0.0000015	0.000147	0.10	0.0991	0.0989	0.0970	0.0850 to 0.115	98.8	70.0 to 130	0.202	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASG
Sample Date: 4/13/21 16:40
Customer ID:
Delivery Date: 4/14/21 10:32

Description: Gaston Gypsum - MW-2

Laboratory ID Number: BB07011

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07025	Alkalinity, Total as CaCO3	mg/L					224	51.2	45.0 to 55.0			1.80	10.0
BB07015	Solids, Dissolved	mg/L	-2.00	25.0			350	54.0	40.0 to 60.0			0.143	5.00
BB07016	Fluoride	mg/L	0.0331	0.100	2.50	2.30	0.0084	2.53	2.25 to 2.75	92.0	80.0 to 120	0.00	20.0
BB07016	Chloride	mg/L	-0.111	1.00	10.0	13.8	3.50	9.94	9.00 to 11.0	103	80.0 to 120	1.14	20.0
BB07016	Sulfate	mg/L	-0.644	1.00	20.0	18.3	-0.196	18.7	18.0 to 22.0	91.5	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.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 13:27
Customer ID:
Submittal Date: 4/14/21 10:32

Laboratory ID Number: BB07012

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/19/21 12:02	4/20/21 12:45		1.015	0.0422	mg/L	0.030000	0.1015	J
* Calcium, Total	4/19/21 12:02	4/20/21 12:45		1.015	12.3	mg/L	0.070035	0.406	
* Iron, Total	4/19/21 12:02	4/20/21 12:45		1.015	0.0391	mg/L	0.008120	0.0406	J
* Lithium, Total	4/19/21 12:02	4/20/21 12:45		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/19/21 12:02	4/20/21 12:45		1.015	2.00	mg/L	0.021315	0.406	
* Sodium, Total	4/19/21 12:02	4/20/21 12:45		1.015	4.05	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	4/19/21 13:00	4/21/21 11:44		1.015	0.0431	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/15/21 12:15	4/19/21 15:08		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/15/21 12:15	4/19/21 15:08		1.015	0.0000935	mg/L	0.000068	0.000203	J
* Barium, Total	4/15/21 12:15	4/19/21 15:08		1.015	0.00636	mg/L	0.000101	0.000203	
* Beryllium, Total	4/15/21 12:15	4/19/21 15:08		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/15/21 12:15	4/19/21 15:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/15/21 12:15	4/19/21 15:08		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/15/21 12:15	4/19/21 15:08		1.015	0.00212	mg/L	0.000068	0.000203	
* Lead, Total	4/15/21 12:15	4/19/21 15:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/15/21 12:15	4/19/21 15:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	4/15/21 12:15	4/19/21 15:08		1.015	0.234	mg/L	0.169505	0.5075	J
* Manganese, Total	4/15/21 12:15	4/19/21 15:08		1.015	0.201	mg/L	0.000068	0.000203	
* Selenium, Total	4/15/21 12:15	4/19/21 15:08		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/15/21 12:15	4/19/21 15:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	4/19/21 09:08	4/19/21 13:24		1.015	0.210	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/15/21 11:10	4/16/21 09:52		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	4/26/21 09:56	4/26/21 10:48		1	25.6	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/20/21 08:50	4/22/21 13:30		1	66.0	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

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: 4/13/21 13:27
Customer ID:
Submittal Date: 4/14/21 10:32

Laboratory ID Number: BB07012

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	4/26/21 09:56	4/26/21 10:48		1	25.6	mg/L			
Carbonate Alkalinity, (calc.)	4/26/21 09:56	4/26/21 10:48		1	0.00	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/15/21 11:12	4/15/21 11:12		1	9.80	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/15/21 13:26	4/15/21 13:26		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/14/21 12:17	4/14/21 12:17		1	2.77	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/13/21 13:23	4/13/21 13:23			105.72	uS/cm			FA
pH	4/13/21 13:23	4/13/21 13:23			5.46	SU			FA
Temperature	4/13/21 13:23	4/13/21 13:23			20.96	C			FA
Turbidity	4/13/21 13:23	4/13/21 13:23			0.53	NTU			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.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 13:27
Customer ID:
Delivery Date: 4/14/21 10:32

Description: Gaston Gypsum - MW-11

Laboratory ID Number: BB07012

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07016	Iron, Total	mg/L	0.000162	0.0176	0.2	0.206	0.204	0.208	0.170 to 0.230	98.9	70.0 to 130	0.976	20.0
BB07016	Beryllium, Total	mg/L	0.0000402	0.000880	0.10	0.0957	0.0970	0.0961	0.0850 to 0.115	95.7	70.0 to 130	1.35	20.0
BB07016	Magnesium, Total	mg/L	-0.00330	0.0462	5.00	5.28	5.25	5.07	4.25 to 5.75	98.3	70.0 to 130	0.570	20.0
BB07016	Arsenic, Total	mg/L	0.0000486	0.000147	0.10	0.100	0.103	0.101	0.0850 to 0.115	99.9	70.0 to 130	2.96	20.0
BB07016	Cadmium, Total	mg/L	0.0000084	0.000147	0.10	0.0968	0.0960	0.0978	0.0850 to 0.115	96.8	70.0 to 130	0.830	20.0
BB07016	Barium, Total	mg/L	0.0000237	0.000200	0.10	0.118	0.112	0.0964	0.0850 to 0.115	100	70.0 to 130	5.22	20.0
BB07016	Mercury, Total by CVAA	mg/L	-0.0000330	0.000500	0.004	0.00368	0.00366	0.00363	0.00340 to 0.00460	92.0	70.0 to 130	0.545	20.0
BB07016	Antimony, Total	mg/L	0.000154	0.00100	0.10	0.0934	0.0929	0.0912	0.0850 to 0.115	93.4	70.0 to 130	0.537	20.0
BB07017	Iron, Dissolved	mg/L	0.000123	0.0176	0.2	0.263	0.264	0.205	0.170 to 0.230	98.8	70.0 to 130	0.380	20.0
BB07017	Manganese, Dissolved	mg/L	0.0000074	0.000147	0.10	0.448	0.430	0.0998	0.0850 to 0.115	103	70.0 to 130	4.10	20.0
BB07016	Calcium, Total	mg/L	-0.00281	0.152	5.00	5.42	5.39	5.04	4.25 to 5.75	98.3	70.0 to 130	0.555	20.0
BB07016	Manganese, Total	mg/L	0.0000143	0.000147	0.10	0.107	0.106	0.0982	0.0850 to 0.115	99.9	70.0 to 130	0.939	20.0
BB07016	Molybdenum, Total	mg/L	0.0000041	0.000147	0.10	0.0956	0.0961	0.0964	0.0850 to 0.115	95.6	70.0 to 130	0.522	20.0
BB07016	Selenium, Total	mg/L	0.0000166	0.00100	0.10	0.1000	0.0991	0.0993	0.0850 to 0.115	100	70.0 to 130	0.904	20.0
BB07016	Cobalt, Total	mg/L	-0.0000080	0.000147	0.10	0.100	0.0982	0.0995	0.0850 to 0.115	99.3	70.0 to 130	1.82	20.0
BB07016	Lead, Total	mg/L	0.0000015	0.000147	0.10	0.0991	0.0989	0.0970	0.0850 to 0.115	98.8	70.0 to 130	0.202	20.0
BB07016	Boron, Total	mg/L	0.00200	0.0650	1.00	1.03	1.03	1.04	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BB07016	Chromium, Total	mg/L	-0.0000009	0.000440	0.10	0.0996	0.0984	0.0993	0.0850 to 0.115	99.3	70.0 to 130	1.21	20.0
BB07016	Potassium, Total	mg/L	0.00408	0.367	10.0	10.3	10.2	10.1	8.50 to 11.5	103	70.0 to 130	0.976	20.0
BB07016	Lithium, Total	mg/L	-0.0000545	0.0154	0.20	0.196	0.196	0.203	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BB07016	Sodium, Total	mg/L	0.000402	0.0660	5.00	7.24	7.22	4.89	4.25 to 5.75	97.6	70.0 to 130	0.277	20.0
BB07016	Thallium, Total	mg/L	-0.0000096	0.000147	0.10	0.0951	0.0949	0.0941	0.0850 to 0.115	95.1	70.0 to 130	0.211	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASG
Sample Date: 4/13/21 13:27
Customer ID:
Delivery Date: 4/14/21 10:32

Description: Gaston Gypsum - MW-11

Laboratory ID Number: BB07012

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07025	Alkalinity, Total as CaCO3	mg/L					224	51.2	45.0 to 55.0			1.80	10.0
BB07015	Solids, Dissolved	mg/L	-2.00	25.0			350	54.0	40.0 to 60.0			0.143	5.00
BB07016	Fluoride	mg/L	0.0331	0.100	2.50	2.30	0.0084	2.53	2.25 to 2.75	92.0	80.0 to 120	0.00	20.0
BB07016	Chloride	mg/L	-0.111	1.00	10.0	13.8	3.50	9.94	9.00 to 11.0	103	80.0 to 120	1.14	20.0
BB07016	Sulfate	mg/L	-0.644	1.00	20.0	18.3	-0.196	18.7	18.0 to 22.0	91.5	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.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 14:30
Customer ID:
Submittal Date: 4/14/21 10:32

Laboratory ID Number: BB07013

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/19/21 12:02	4/20/21 12:49		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/19/21 12:02	4/20/21 14:27		10.15	81.6	mg/L	0.70035	4.06	
* Iron, Total	4/19/21 12:02	4/20/21 12:49		1.015	0.00990	mg/L	0.008120	0.0406	J
* Lithium, Total	4/19/21 12:02	4/20/21 12:49		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/19/21 12:02	4/20/21 12:49		1.015	7.98	mg/L	0.021315	0.406	
* Sodium, Total	4/19/21 12:02	4/20/21 12:49		1.015	5.79	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	4/19/21 13:00	4/21/21 11:47		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/15/21 12:15	4/19/21 15:12		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/15/21 12:15	4/19/21 15:12		1.015	0.000330	mg/L	0.000068	0.000203	
* Barium, Total	4/15/21 12:15	4/19/21 15:12		1.015	0.0234	mg/L	0.000101	0.000203	
* Beryllium, Total	4/15/21 12:15	4/19/21 15:12		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/15/21 12:15	4/19/21 15:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/15/21 12:15	4/19/21 15:12		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/15/21 12:15	4/19/21 15:12		1.015	0.000218	mg/L	0.000068	0.000203	
* Lead, Total	4/15/21 12:15	4/19/21 15:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/15/21 12:15	4/19/21 15:12		1.015	0.000298	mg/L	0.000068	0.000203	
* Potassium, Total	4/15/21 12:15	4/19/21 15:12		1.015	0.260	mg/L	0.169505	0.5075	J
* Manganese, Total	4/15/21 12:15	4/19/21 15:12		1.015	0.0973	mg/L	0.000068	0.000203	
* Selenium, Total	4/15/21 12:15	4/19/21 15:12		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/15/21 12:15	4/19/21 15:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	4/19/21 09:08	4/19/21 13:28		1.015	0.101	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/15/21 11:10	4/16/21 09:54		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	4/26/21 09:56	4/26/21 10:48		1	230	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/20/21 08:50	4/22/21 13:30		1	260	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 14:30
Customer ID:
Submittal Date: 4/14/21 10:32

Laboratory ID Number: BB07013

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	4/26/21 09:56	4/26/21 10:48		1	230	mg/L			
Carbonate Alkalinity, (calc.)	4/26/21 09:56	4/26/21 10:48		1	0.47	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/15/21 11:13	4/15/21 11:13		1	3.97	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/15/21 13:27	4/15/21 13:27		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/14/21 12:18	4/14/21 12:18		1	8.86	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/13/21 14:26	4/13/21 14:26			443.27	uS/cm			FA
pH	4/13/21 14:26	4/13/21 14:26			6.61	SU			FA
Temperature	4/13/21 14:26	4/13/21 14:26			20.01	C			FA
Turbidity	4/13/21 14:26	4/13/21 14:26			0.7	NTU			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.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 14:30
Customer ID:
Delivery Date: 4/14/21 10:32

Description: Gaston Gypsum - MW-12

Laboratory ID Number: BB07013

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07016	Iron, Total	mg/L	0.000162	0.0176	0.2	0.206	0.204	0.208	0.170 to 0.230	98.9	70.0 to 130	0.976	20.0
BB07016	Arsenic, Total	mg/L	0.0000486	0.000147	0.10	0.100	0.103	0.101	0.0850 to 0.115	99.9	70.0 to 130	2.96	20.0
BB07016	Cadmium, Total	mg/L	0.0000084	0.000147	0.10	0.0968	0.0960	0.0978	0.0850 to 0.115	96.8	70.0 to 130	0.830	20.0
BB07016	Barium, Total	mg/L	0.0000237	0.000200	0.10	0.118	0.112	0.0964	0.0850 to 0.115	100	70.0 to 130	5.22	20.0
BB07016	Mercury, Total by CVAA	mg/L	-0.0000330	0.000500	0.004	0.00368	0.00366	0.00363	0.00340 to 0.00460	92.0	70.0 to 130	0.545	20.0
BB07016	Antimony, Total	mg/L	0.000154	0.00100	0.10	0.0934	0.0929	0.0912	0.0850 to 0.115	93.4	70.0 to 130	0.537	20.0
BB07016	Beryllium, Total	mg/L	0.0000402	0.000880	0.10	0.0957	0.0970	0.0961	0.0850 to 0.115	95.7	70.0 to 130	1.35	20.0
BB07016	Magnesium, Total	mg/L	-0.00330	0.0462	5.00	5.28	5.25	5.07	4.25 to 5.75	98.3	70.0 to 130	0.570	20.0
BB07016	Calcium, Total	mg/L	-0.00281	0.152	5.00	5.42	5.39	5.04	4.25 to 5.75	98.3	70.0 to 130	0.555	20.0
BB07016	Manganese, Total	mg/L	0.0000143	0.000147	0.10	0.107	0.106	0.0982	0.0850 to 0.115	99.9	70.0 to 130	0.939	20.0
BB07016	Molybdenum, Total	mg/L	0.0000041	0.000147	0.10	0.0956	0.0961	0.0964	0.0850 to 0.115	95.6	70.0 to 130	0.522	20.0
BB07016	Selenium, Total	mg/L	0.0000166	0.00100	0.10	0.1000	0.0991	0.0993	0.0850 to 0.115	100	70.0 to 130	0.904	20.0
BB07017	Iron, Dissolved	mg/L	0.000123	0.0176	0.2	0.263	0.264	0.205	0.170 to 0.230	98.8	70.0 to 130	0.380	20.0
BB07017	Manganese, Dissolved	mg/L	0.0000074	0.000147	0.10	0.448	0.430	0.0998	0.0850 to 0.115	103	70.0 to 130	4.10	20.0
BB07016	Cobalt, Total	mg/L	-0.0000080	0.000147	0.10	0.100	0.0982	0.0995	0.0850 to 0.115	99.3	70.0 to 130	1.82	20.0
BB07016	Lead, Total	mg/L	0.0000015	0.000147	0.10	0.0991	0.0989	0.0970	0.0850 to 0.115	98.8	70.0 to 130	0.202	20.0
BB07016	Boron, Total	mg/L	0.00200	0.0650	1.00	1.03	1.03	1.04	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BB07016	Chromium, Total	mg/L	-0.0000009	0.000440	0.10	0.0996	0.0984	0.0993	0.0850 to 0.115	99.3	70.0 to 130	1.21	20.0
BB07016	Potassium, Total	mg/L	0.00408	0.367	10.0	10.3	10.2	10.1	8.50 to 11.5	103	70.0 to 130	0.976	20.0
BB07016	Lithium, Total	mg/L	-0.0000545	0.0154	0.20	0.196	0.196	0.203	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BB07016	Sodium, Total	mg/L	0.000402	0.0660	5.00	7.24	7.22	4.89	4.25 to 5.75	97.6	70.0 to 130	0.277	20.0
BB07016	Thallium, Total	mg/L	-0.0000096	0.000147	0.10	0.0951	0.0949	0.0941	0.0850 to 0.115	95.1	70.0 to 130	0.211	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASG
Sample Date: 4/13/21 14:30
Customer ID:
Delivery Date: 4/14/21 10:32

Description: Gaston Gypsum - MW-12

Laboratory ID Number: BB07013

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07025	Alkalinity, Total as CaCO3	mg/L					224	51.2	45.0 to 55.0			1.80	10.0
BB07015	Solids, Dissolved	mg/L	-2.00	25.0			350	54.0	40.0 to 60.0			0.143	5.00
BB07016	Fluoride	mg/L	0.0331	0.100	2.50	2.30	0.0084	2.53	2.25 to 2.75	92.0	80.0 to 120	0.00	20.0
BB07016	Chloride	mg/L	-0.111	1.00	10.0	13.8	3.50	9.94	9.00 to 11.0	103	80.0 to 120	1.14	20.0
BB07016	Sulfate	mg/L	-0.644	1.00	20.0	18.3	-0.196	18.7	18.0 to 22.0	91.5	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.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 09:10
Customer ID:
Submittal Date: 4/14/21 10:32

Laboratory ID Number: BB07014

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/19/21 12:02	4/20/21 12:52		1.015	0.0333	mg/L	0.030000	0.1015	J
* Calcium, Total	4/19/21 12:02	4/20/21 14:31		10.15	79.2	mg/L	0.70035	4.06	
* Iron, Total	4/19/21 12:02	4/20/21 12:52		1.015	0.433	mg/L	0.008120	0.0406	
* Lithium, Total	4/19/21 12:02	4/20/21 12:52		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/19/21 12:02	4/20/21 12:52		1.015	18.9	mg/L	0.021315	0.406	
* Sodium, Total	4/19/21 12:02	4/20/21 12:52		1.015	4.29	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	4/19/21 13:00	4/21/21 11:50		1.015	0.466	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/15/21 12:15	4/19/21 15:16		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/15/21 12:15	4/19/21 15:16		1.015	0.000587	mg/L	0.000068	0.000203	
* Barium, Total	4/15/21 12:15	4/19/21 15:16		1.015	0.0478	mg/L	0.000101	0.000203	
* Beryllium, Total	4/15/21 12:15	4/19/21 15:16		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/15/21 12:15	4/19/21 15:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/15/21 12:15	4/19/21 15:16		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/15/21 12:15	4/19/21 15:16		1.015	0.00104	mg/L	0.000068	0.000203	
* Lead, Total	4/15/21 12:15	4/19/21 15:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/15/21 12:15	4/19/21 15:16		1.015	0.0000940	mg/L	0.000068	0.000203	J
* Potassium, Total	4/15/21 12:15	4/19/21 15:16		1.015	0.288	mg/L	0.169505	0.5075	J
* Manganese, Total	4/15/21 12:15	4/19/21 15:16		1.015	0.302	mg/L	0.000068	0.000203	
* Selenium, Total	4/15/21 12:15	4/19/21 15:16		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/15/21 12:15	4/19/21 15:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	4/19/21 09:08	4/19/21 13:31		1.015	0.313	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/15/21 11:10	4/16/21 09:56		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	4/26/21 09:56	4/26/21 10:48		1	180	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/20/21 08:50	4/22/21 13:30		1	350	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

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: 4/13/21 09:10
Customer ID:
Submittal Date: 4/14/21 10:32

Laboratory ID Number: BB07014

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	4/26/21 09:56	4/26/21 10:48		1	180	mg/L			
Carbonate Alkalinity, (calc.)	4/26/21 09:56	4/26/21 10:48		1	0.07	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/15/21 11:08	4/15/21 11:08		1	9.78	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/15/21 13:28	4/15/21 13:28		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/14/21 12:25	4/14/21 12:25		8	108	mg/L	4.00	8	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	4/13/21 09:07	4/13/21 09:07			507.46	uS/cm			FA
pH	4/13/21 09:07	4/13/21 09:07			6.36	SU			FA
Temperature	4/13/21 09:07	4/13/21 09:07			19.02	C			FA
Turbidity	4/13/21 09:07	4/13/21 09:07			0.38	NTU			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.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 09:10
Customer ID:
Delivery Date: 4/14/21 10:32

Description: Gaston Gypsum - MW-5

Laboratory ID Number: BB07014

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07016	Iron, Total	mg/L	0.000162	0.0176	0.2	0.206	0.204	0.208	0.170 to 0.230	98.9	70.0 to 130	0.976	20.0
BB07017	Iron, Dissolved	mg/L	0.000123	0.0176	0.2	0.263	0.264	0.205	0.170 to 0.230	98.8	70.0 to 130	0.380	20.0
BB07017	Manganese, Dissolved	mg/L	0.0000074	0.000147	0.10	0.448	0.430	0.0998	0.0850 to 0.115	103	70.0 to 130	4.10	20.0
BB07016	Barium, Total	mg/L	0.0000237	0.000200	0.10	0.118	0.112	0.0964	0.0850 to 0.115	100	70.0 to 130	5.22	20.0
BB07016	Mercury, Total by CVAA	mg/L	-0.0000330	0.000500	0.004	0.00368	0.00366	0.00363	0.00340 to 0.00460	92.0	70.0 to 130	0.545	20.0
BB07016	Antimony, Total	mg/L	0.000154	0.00100	0.10	0.0934	0.0929	0.0912	0.0850 to 0.115	93.4	70.0 to 130	0.537	20.0
BB07016	Arsenic, Total	mg/L	0.0000486	0.000147	0.10	0.100	0.103	0.101	0.0850 to 0.115	99.9	70.0 to 130	2.96	20.0
BB07016	Cadmium, Total	mg/L	0.0000084	0.000147	0.10	0.0968	0.0960	0.0978	0.0850 to 0.115	96.8	70.0 to 130	0.830	20.0
BB07016	Beryllium, Total	mg/L	0.0000402	0.000880	0.10	0.0957	0.0970	0.0961	0.0850 to 0.115	95.7	70.0 to 130	1.35	20.0
BB07016	Magnesium, Total	mg/L	-0.00330	0.0462	5.00	5.28	5.25	5.07	4.25 to 5.75	98.3	70.0 to 130	0.570	20.0
BB07016	Calcium, Total	mg/L	-0.00281	0.152	5.00	5.42	5.39	5.04	4.25 to 5.75	98.3	70.0 to 130	0.555	20.0
BB07016	Manganese, Total	mg/L	0.0000143	0.000147	0.10	0.107	0.106	0.0982	0.0850 to 0.115	99.9	70.0 to 130	0.939	20.0
BB07016	Molybdenum, Total	mg/L	0.0000041	0.000147	0.10	0.0956	0.0961	0.0964	0.0850 to 0.115	95.6	70.0 to 130	0.522	20.0
BB07016	Selenium, Total	mg/L	0.0000166	0.00100	0.10	0.1000	0.0991	0.0993	0.0850 to 0.115	100	70.0 to 130	0.904	20.0
BB07016	Cobalt, Total	mg/L	-0.0000080	0.000147	0.10	0.100	0.0982	0.0995	0.0850 to 0.115	99.3	70.0 to 130	1.82	20.0
BB07016	Lead, Total	mg/L	0.0000015	0.000147	0.10	0.0991	0.0989	0.0970	0.0850 to 0.115	98.8	70.0 to 130	0.202	20.0
BB07016	Boron, Total	mg/L	0.00200	0.0650	1.00	1.03	1.03	1.04	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BB07016	Chromium, Total	mg/L	-0.0000009	0.000440	0.10	0.0996	0.0984	0.0993	0.0850 to 0.115	99.3	70.0 to 130	1.21	20.0
BB07016	Potassium, Total	mg/L	0.00408	0.367	10.0	10.3	10.2	10.1	8.50 to 11.5	103	70.0 to 130	0.976	20.0
BB07016	Lithium, Total	mg/L	-0.0000545	0.0154	0.20	0.196	0.196	0.203	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BB07016	Sodium, Total	mg/L	0.000402	0.0660	5.00	7.24	7.22	4.89	4.25 to 5.75	97.6	70.0 to 130	0.277	20.0
BB07016	Thallium, Total	mg/L	-0.0000096	0.000147	0.10	0.0951	0.0949	0.0941	0.0850 to 0.115	95.1	70.0 to 130	0.211	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASG
Sample Date: 4/13/21 09:10
Customer ID:
Delivery Date: 4/14/21 10:32

Description: Gaston Gypsum - MW-5

Laboratory ID Number: BB07014

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07025	Alkalinity, Total as CaCO3	mg/L					224	51.2	45.0 to 55.0			1.80	10.0
BB07016	Fluoride	mg/L	0.0331	0.100	2.50	2.30	0.0084	2.53	2.25 to 2.75	92.0	80.0 to 120	0.00	20.0
BB07015	Solids, Dissolved	mg/L	-2.00	25.0			350	54.0	40.0 to 60.0			0.143	5.00
BB07016	Chloride	mg/L	-0.111	1.00	10.0	13.8	3.50	9.94	9.00 to 11.0	103	80.0 to 120	1.14	20.0
BB07016	Sulfate	mg/L	-0.644	1.00	20.0	18.3	-0.196	18.7	18.0 to 22.0	91.5	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.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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 DUP

Location Code: WMWGASG
Collected: 4/13/21 09:10
Customer ID:
Submittal Date: 4/14/21 10:32

Laboratory ID Number: BB07015

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/19/21 12:02	4/20/21 12:55		1.015	0.0332	mg/L	0.030000	0.1015	J
* Calcium, Total	4/19/21 12:02	4/20/21 14:34		10.15	79.1	mg/L	0.70035	4.06	
* Iron, Total	4/19/21 12:02	4/20/21 12:55		1.015	0.434	mg/L	0.008120	0.0406	
* Lithium, Total	4/19/21 12:02	4/20/21 12:55		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/19/21 12:02	4/20/21 12:55		1.015	19.0	mg/L	0.021315	0.406	
* Sodium, Total	4/19/21 12:02	4/20/21 12:55		1.015	4.30	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	4/19/21 13:00	4/21/21 11:54		1.015	0.461	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/15/21 12:15	4/19/21 15:19		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/15/21 12:15	4/19/21 15:19		1.015	0.000480	mg/L	0.000068	0.000203	
* Barium, Total	4/15/21 12:15	4/19/21 15:19		1.015	0.0488	mg/L	0.000101	0.000203	
* Beryllium, Total	4/15/21 12:15	4/19/21 15:19		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/15/21 12:15	4/19/21 15:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/15/21 12:15	4/19/21 15:19		1.015	0.000258	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/15/21 12:15	4/19/21 15:19		1.015	0.00110	mg/L	0.000068	0.000203	
* Lead, Total	4/15/21 12:15	4/19/21 15:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/15/21 12:15	4/19/21 15:19		1.015	0.000105	mg/L	0.000068	0.000203	J
* Potassium, Total	4/15/21 12:15	4/19/21 15:19		1.015	0.300	mg/L	0.169505	0.5075	J
* Manganese, Total	4/15/21 12:15	4/19/21 15:19		1.015	0.300	mg/L	0.000068	0.000203	
* Selenium, Total	4/15/21 12:15	4/19/21 15:19		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/15/21 12:15	4/19/21 15:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	4/19/21 09:08	4/19/21 13:35		1.015	0.311	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/15/21 11:10	4/16/21 09:59		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	4/26/21 09:56	4/26/21 10:48		1	154	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/20/21 08:50	4/22/21 13:30		1	349	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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 DUP

Location Code: WMWGASG
Collected: 4/13/21 09:10
Customer ID:
Submittal Date: 4/14/21 10:32

Laboratory ID Number: BB07015

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	4/26/21 09:56	4/26/21 10:48		1	154	mg/L			
Carbonate Alkalinity, (calc.)	4/26/21 09:56	4/26/21 10:48		1	0.07	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/15/21 11:14	4/15/21 11:14		1	9.78	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/15/21 13:29	4/15/21 13:29		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/14/21 12:26	4/14/21 12:26		8	111	mg/L	4.00	8	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	4/13/21 09:07	4/13/21 09:07			507.46	uS/cm			FA
pH	4/13/21 09:07	4/13/21 09:07			6.36	SU			FA
Temperature	4/13/21 09:07	4/13/21 09:07			19.02	C			FA
Turbidity	4/13/21 09:07	4/13/21 09:07			0.38	NTU			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.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 09:10
Customer ID:
Delivery Date: 4/14/21 10:32

Description: Gaston Gypsum - MW-5 DUP

Laboratory ID Number: BB07015

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07016	Iron, Total	mg/L	0.000162	0.0176	0.2	0.206	0.204	0.208	0.170 to 0.230	98.9	70.0 to 130	0.976	20.0
BB07016	Calcium, Total	mg/L	-0.00281	0.152	5.00	5.42	5.39	5.04	4.25 to 5.75	98.3	70.0 to 130	0.555	20.0
BB07016	Manganese, Total	mg/L	0.0000143	0.000147	0.10	0.107	0.106	0.0982	0.0850 to 0.115	99.9	70.0 to 130	0.939	20.0
BB07016	Molybdenum, Total	mg/L	0.0000041	0.000147	0.10	0.0956	0.0961	0.0964	0.0850 to 0.115	95.6	70.0 to 130	0.522	20.0
BB07016	Selenium, Total	mg/L	0.0000166	0.00100	0.10	0.1000	0.0991	0.0993	0.0850 to 0.115	100	70.0 to 130	0.904	20.0
BB07016	Beryllium, Total	mg/L	0.0000402	0.000880	0.10	0.0957	0.0970	0.0961	0.0850 to 0.115	95.7	70.0 to 130	1.35	20.0
BB07016	Magnesium, Total	mg/L	-0.00330	0.0462	5.00	5.28	5.25	5.07	4.25 to 5.75	98.3	70.0 to 130	0.570	20.0
BB07016	Arsenic, Total	mg/L	0.0000486	0.000147	0.10	0.100	0.103	0.101	0.0850 to 0.115	99.9	70.0 to 130	2.96	20.0
BB07016	Cadmium, Total	mg/L	0.0000084	0.000147	0.10	0.0968	0.0960	0.0978	0.0850 to 0.115	96.8	70.0 to 130	0.830	20.0
BB07016	Barium, Total	mg/L	0.0000237	0.000200	0.10	0.118	0.112	0.0964	0.0850 to 0.115	100	70.0 to 130	5.22	20.0
BB07016	Mercury, Total by CVAA	mg/L	-0.0000330	0.000500	0.004	0.00368	0.00366	0.00363	0.00340 to 0.00460	92.0	70.0 to 130	0.545	20.0
BB07016	Antimony, Total	mg/L	0.000154	0.00100	0.10	0.0934	0.0929	0.0912	0.0850 to 0.115	93.4	70.0 to 130	0.537	20.0
BB07017	Iron, Dissolved	mg/L	0.000123	0.0176	0.2	0.263	0.264	0.205	0.170 to 0.230	98.8	70.0 to 130	0.380	20.0
BB07017	Manganese, Dissolved	mg/L	0.0000074	0.000147	0.10	0.448	0.430	0.0998	0.0850 to 0.115	103	70.0 to 130	4.10	20.0
BB07016	Boron, Total	mg/L	0.00200	0.0650	1.00	1.03	1.03	1.04	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BB07016	Chromium, Total	mg/L	-0.0000009	0.000440	0.10	0.0996	0.0984	0.0993	0.0850 to 0.115	99.3	70.0 to 130	1.21	20.0
BB07016	Potassium, Total	mg/L	0.00408	0.367	10.0	10.3	10.2	10.1	8.50 to 11.5	103	70.0 to 130	0.976	20.0
BB07016	Lithium, Total	mg/L	-0.0000545	0.0154	0.20	0.196	0.196	0.203	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BB07016	Sodium, Total	mg/L	0.000402	0.0660	5.00	7.24	7.22	4.89	4.25 to 5.75	97.6	70.0 to 130	0.277	20.0
BB07016	Thallium, Total	mg/L	-0.0000096	0.000147	0.10	0.0951	0.0949	0.0941	0.0850 to 0.115	95.1	70.0 to 130	0.211	20.0
BB07016	Cobalt, Total	mg/L	-0.0000080	0.000147	0.10	0.100	0.0982	0.0995	0.0850 to 0.115	99.3	70.0 to 130	1.82	20.0
BB07016	Lead, Total	mg/L	0.0000015	0.000147	0.10	0.0991	0.0989	0.0970	0.0850 to 0.115	98.8	70.0 to 130	0.202	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASG
Sample Date: 4/13/21 09:10
Customer ID:
Delivery Date: 4/14/21 10:32

Description: Gaston Gypsum - MW-5 DUP

Laboratory ID Number: BB07015

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07025	Alkalinity, Total as CaCO3	mg/L					224	51.2	45.0 to 55.0			1.80	10.0
BB07016	Fluoride	mg/L	0.0331	0.100	2.50	2.30	0.0084	2.53	2.25 to 2.75	92.0	80.0 to 120	0.00	20.0
BB07015	Solids, Dissolved	mg/L	-2.00	25.0			350	54.0	40.0 to 60.0			0.143	5.00
BB07016	Chloride	mg/L	-0.111	1.00	10.0	13.8	3.50	9.94	9.00 to 11.0	103	80.0 to 120	1.14	20.0
BB07016	Sulfate	mg/L	-0.644	1.00	20.0	18.3	-0.196	18.7	18.0 to 22.0	91.5	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.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 10:10
Customer ID:
Submittal Date: 4/14/21 10:32

Laboratory ID Number: BB07016

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/19/21 12:02	4/20/21 12:59		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/19/21 12:02	4/20/21 12:59		1.015	0.505	mg/L	0.070035	0.406	
* Iron, Total	4/19/21 12:02	4/20/21 12:59		1.015	0.00821	mg/L	0.008120	0.0406	J
* Lithium, Total	4/19/21 12:02	4/20/21 12:59		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/19/21 12:02	4/20/21 12:59		1.015	0.367	mg/L	0.021315	0.406	J
* Sodium, Total	4/19/21 12:02	4/20/21 12:59		1.015	2.36	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	4/19/21 13:00	4/21/21 11:57		1.015	0.00823	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/15/21 12:15	4/19/21 15:23		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/15/21 12:15	4/19/21 15:23		1.015	0.0000988	mg/L	0.000068	0.000203	J
* Barium, Total	4/15/21 12:15	4/19/21 15:23		1.015	0.0175	mg/L	0.000101	0.000203	
* Beryllium, Total	4/15/21 12:15	4/19/21 15:23		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/15/21 12:15	4/19/21 15:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/15/21 12:15	4/19/21 15:23		1.015	0.000257	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/15/21 12:15	4/19/21 15:23		1.015	0.000682	mg/L	0.000068	0.000203	
* Lead, Total	4/15/21 12:15	4/19/21 15:23		1.015	0.000305	mg/L	0.000068	0.000203	
* Molybdenum, Total	4/15/21 12:15	4/19/21 15:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	4/15/21 12:15	4/19/21 15:23		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Manganese, Total	4/15/21 12:15	4/19/21 15:23		1.015	0.00706	mg/L	0.000068	0.000203	
* Selenium, Total	4/15/21 12:15	4/19/21 15:23		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/15/21 12:15	4/19/21 15:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	4/19/21 09:08	4/19/21 13:39		1.015	0.00738	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/15/21 11:10	4/16/21 10:01		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	4/26/21 09:56	4/26/21 10:48		1	0.24	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/20/21 08:50	4/22/21 13:30		1	26.0	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

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: 4/13/21 10:10
Customer ID:
Submittal Date: 4/14/21 10:32

Laboratory ID Number: BB07016

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	4/26/21 09:56	4/26/21 10:48		1	0.240	mg/L			
Carbonate Alkalinity, (calc.)	4/26/21 09:56	4/26/21 10:48		1	0.00	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/15/21 11:15	4/15/21 11:15		1	3.54	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/15/21 13:30	4/15/21 13:30		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/14/21 12:21	4/14/21 12:21		1	Not Detected	mg/L	0.50	1	U
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	4/13/21 10:04	4/13/21 10:04			28.60	uS/cm			FA
pH	4/13/21 10:04	4/13/21 10:04			4.63	SU			FA
Temperature	4/13/21 10:04	4/13/21 10:04			20.28	C			FA
Turbidity	4/13/21 10:04	4/13/21 10:04			0.69	NTU			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.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 10:10
Customer ID:
Delivery Date: 4/14/21 10:32

Description: Gaston Gypsum - MW-6

Laboratory ID Number: BB07016

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07016	Iron, Total	mg/L	0.000162	0.0176	0.2	0.206	0.204	0.208	0.170 to 0.230	98.9	70.0 to 130	0.976	20.0
BB07016	Beryllium, Total	mg/L	0.0000402	0.000880	0.10	0.0957	0.0970	0.0961	0.0850 to 0.115	95.7	70.0 to 130	1.35	20.0
BB07016	Magnesium, Total	mg/L	-0.00330	0.0462	5.00	5.28	5.25	5.07	4.25 to 5.75	98.3	70.0 to 130	0.570	20.0
BB07016	Arsenic, Total	mg/L	0.0000486	0.000147	0.10	0.100	0.103	0.101	0.0850 to 0.115	99.9	70.0 to 130	2.96	20.0
BB07016	Cadmium, Total	mg/L	0.0000084	0.000147	0.10	0.0968	0.0960	0.0978	0.0850 to 0.115	96.8	70.0 to 130	0.830	20.0
BB07016	Barium, Total	mg/L	0.0000237	0.000200	0.10	0.118	0.112	0.0964	0.0850 to 0.115	100	70.0 to 130	5.22	20.0
BB07016	Mercury, Total by CVAA	mg/L	-0.0000330	0.000500	0.004	0.00368	0.00366	0.00363	0.00340 to 0.00460	92.0	70.0 to 130	0.545	20.0
BB07016	Antimony, Total	mg/L	0.000154	0.00100	0.10	0.0934	0.0929	0.0912	0.0850 to 0.115	93.4	70.0 to 130	0.537	20.0
BB07017	Iron, Dissolved	mg/L	0.000123	0.0176	0.2	0.263	0.264	0.205	0.170 to 0.230	98.8	70.0 to 130	0.380	20.0
BB07017	Manganese, Dissolved	mg/L	0.0000074	0.000147	0.10	0.448	0.430	0.0998	0.0850 to 0.115	103	70.0 to 130	4.10	20.0
BB07016	Calcium, Total	mg/L	-0.00281	0.152	5.00	5.42	5.39	5.04	4.25 to 5.75	98.3	70.0 to 130	0.555	20.0
BB07016	Manganese, Total	mg/L	0.0000143	0.000147	0.10	0.107	0.106	0.0982	0.0850 to 0.115	99.9	70.0 to 130	0.939	20.0
BB07016	Molybdenum, Total	mg/L	0.0000041	0.000147	0.10	0.0956	0.0961	0.0964	0.0850 to 0.115	95.6	70.0 to 130	0.522	20.0
BB07016	Selenium, Total	mg/L	0.0000166	0.00100	0.10	0.1000	0.0991	0.0993	0.0850 to 0.115	100	70.0 to 130	0.904	20.0
BB07016	Boron, Total	mg/L	0.00200	0.0650	1.00	1.03	1.03	1.04	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BB07016	Chromium, Total	mg/L	-0.0000009	0.000440	0.10	0.0996	0.0984	0.0993	0.0850 to 0.115	99.3	70.0 to 130	1.21	20.0
BB07016	Potassium, Total	mg/L	0.00408	0.367	10.0	10.3	10.2	10.1	8.50 to 11.5	103	70.0 to 130	0.976	20.0
BB07016	Lithium, Total	mg/L	-0.0000545	0.0154	0.20	0.196	0.196	0.203	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BB07016	Sodium, Total	mg/L	0.000402	0.0660	5.00	7.24	7.22	4.89	4.25 to 5.75	97.6	70.0 to 130	0.277	20.0
BB07016	Thallium, Total	mg/L	-0.0000096	0.000147	0.10	0.0951	0.0949	0.0941	0.0850 to 0.115	95.1	70.0 to 130	0.211	20.0
BB07016	Cobalt, Total	mg/L	-0.0000080	0.000147	0.10	0.100	0.0982	0.0995	0.0850 to 0.115	99.3	70.0 to 130	1.82	20.0
BB07016	Lead, Total	mg/L	0.0000015	0.000147	0.10	0.0991	0.0989	0.0970	0.0850 to 0.115	98.8	70.0 to 130	0.202	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASG
Sample Date: 4/13/21 10:10
Customer ID:
Delivery Date: 4/14/21 10:32

Description: Gaston Gypsum - MW-6

Laboratory ID Number: BB07016

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07025	Alkalinity, Total as CaCO3	mg/L					224	51.2	45.0 to 55.0			1.80	10.0
BB07016	Fluoride	mg/L	0.0331	0.100	2.50	2.30	0.0084	2.53	2.25 to 2.75	92.0	80.0 to 120	0.00	20.0
BB07015	Solids, Dissolved	mg/L	-2.00	25.0			350	54.0	40.0 to 60.0			0.143	5.00
BB07016	Chloride	mg/L	-0.111	1.00	10.0	13.8	3.50	9.94	9.00 to 11.0	103	80.0 to 120	1.14	20.0
BB07016	Sulfate	mg/L	-0.644	1.00	20.0	18.3	-0.196	18.7	18.0 to 22.0	91.5	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.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 12:08
Customer ID:
Submittal Date: 4/14/21 10:32

Laboratory ID Number: BB07017

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/19/21 12:02	4/20/21 13:16		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/19/21 12:02	4/20/21 14:44		10.15	64.1	mg/L	0.70035	4.06	
* Iron, Total	4/19/21 12:02	4/20/21 13:16		1.015	0.0757	mg/L	0.008120	0.0406	
* Lithium, Total	4/19/21 12:02	4/20/21 13:16		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/19/21 12:02	4/20/21 13:16		1.015	9.22	mg/L	0.021315	0.406	
* Sodium, Total	4/19/21 12:02	4/20/21 13:16		1.015	4.66	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	4/19/21 13:00	4/21/21 12:01		1.015	0.0654	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/15/21 12:15	4/19/21 15:44		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/15/21 12:15	4/19/21 15:44		1.015	0.000469	mg/L	0.000068	0.000203	
* Barium, Total	4/15/21 12:15	4/19/21 15:44		1.015	0.0160	mg/L	0.000101	0.000203	
* Beryllium, Total	4/15/21 12:15	4/19/21 15:44		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/15/21 12:15	4/19/21 15:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/15/21 12:15	4/19/21 15:44		1.015	0.000361	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/15/21 12:15	4/19/21 15:44		1.015	0.000770	mg/L	0.000068	0.000203	
* Lead, Total	4/15/21 12:15	4/19/21 15:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/15/21 12:15	4/19/21 15:44		1.015	0.000276	mg/L	0.000068	0.000203	
* Potassium, Total	4/15/21 12:15	4/19/21 15:44		1.015	0.699	mg/L	0.169505	0.5075	
* Manganese, Total	4/15/21 12:15	4/19/21 15:44		1.015	0.317	mg/L	0.000068	0.000203	
* Selenium, Total	4/15/21 12:15	4/19/21 15:44		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/15/21 12:15	4/19/21 15:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	4/19/21 09:08	4/19/21 13:42		1.015	0.345	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/22/21 09:14	4/22/21 15:00		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	4/26/21 09:56	4/26/21 10:48		1	225	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/20/21 08:50	4/22/21 13:30		1	220	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 12:08
Customer ID:
Submittal Date: 4/14/21 10:32

Laboratory ID Number: BB07017

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	4/26/21 09:56	4/26/21 10:48		1	225	mg/L			
Carbonate Alkalinity, (calc.)	4/26/21 09:56	4/26/21 10:48		1	0.24	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/15/21 11:27	4/15/21 11:27		1	3.64	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/15/21 13:41	4/15/21 13:41		1	0.129	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/14/21 12:36	4/14/21 12:36		1	6.37	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	4/13/21 12:03	4/13/21 12:03			370.52	uS/cm			FA
pH	4/13/21 12:03	4/13/21 12:03			6.84	SU			FA
Temperature	4/13/21 12:03	4/13/21 12:03			23.25	C			FA
Turbidity	4/13/21 12:03	4/13/21 12:03			0.68	NTU			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.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 12:08
Customer ID:
Delivery Date: 4/14/21 10:32

Description: Gaston Gypsum - MW-7

Laboratory ID Number: BB07017

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07025	Calcium, Total	mg/L	-0.00281	0.152	5.00	48.5	48.3	5.04	4.25 to 5.75	90.0	70.0 to 130	0.413	20.0
BB07025	Lithium, Total	mg/L	-0.0000545	0.0154	0.20	0.224	0.220	0.203	0.170 to 0.230	107	70.0 to 130	1.80	20.0
BB07024	Mercury, Total by CVAA	mg/L	0.0000309	0.000500	0.004	0.00378	0.00372	0.00379	0.00340 to 0.00460	94.5	70.0 to 130	1.60	20.0
BB07025	Barium, Total	mg/L	0.0000237	0.000200	0.10	2.43	2.49	0.0964	0.0850 to 0.115	20.0	70.0 to 130	2.44	20.0
BB07025	Sodium, Total	mg/L	0.000402	0.0660	5.00	15.3	15.1	4.89	4.25 to 5.75	110	70.0 to 130	1.32	20.0
BB07025	Antimony, Total	mg/L	0.000154	0.00100	0.10	0.0950	0.0950	0.0912	0.0850 to 0.115	95.0	70.0 to 130	0.00	20.0
BB07025	Thallium, Total	mg/L	-0.0000096	0.000147	0.10	0.0954	0.0953	0.0941	0.0850 to 0.115	95.4	70.0 to 130	0.105	20.0
BB07025	Potassium, Total	mg/L	0.00408	0.367	10.0	11.3	10.9	10.1	8.50 to 11.5	101	70.0 to 130	3.60	20.0
BB07025	Magnesium, Total	mg/L	-0.00330	0.0462	5.00	27.3	27.4	5.07	4.25 to 5.75	106	70.0 to 130	0.366	20.0
BB07025	Molybdenum, Total	mg/L	0.0000041	0.000147	0.10	0.0992	0.0987	0.0964	0.0850 to 0.115	95.7	70.0 to 130	0.505	20.0
BB07025	Cadmium, Total	mg/L	0.0000084	0.000147	0.10	0.0960	0.0960	0.0978	0.0850 to 0.115	96.0	70.0 to 130	0.00	20.0
BB07025	Cobalt, Total	mg/L	-0.0000080	0.000147	0.10	0.0977	0.0953	0.0995	0.0850 to 0.115	97.7	70.0 to 130	2.49	20.0
BB07025	Lead, Total	mg/L	0.0000015	0.000147	0.10	0.0985	0.0987	0.0970	0.0850 to 0.115	98.5	70.0 to 130	0.203	20.0
BB07025	Selenium, Total	mg/L	0.0000166	0.00100	0.10	0.0996	0.0983	0.0993	0.0850 to 0.115	99.6	70.0 to 130	1.31	20.0
BB07017	Iron, Dissolved	mg/L	0.000123	0.0176	0.2	0.263	0.264	0.205	0.170 to 0.230	98.8	70.0 to 130	0.380	20.0
BB07017	Manganese, Dissolved	mg/L	0.0000074	0.000147	0.10	0.448	0.430	0.0998	0.0850 to 0.115	103	70.0 to 130	4.10	20.0
BB07025	Boron, Total	mg/L	0.00200	0.0650	1.00	1.07	1.07	1.04	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BB07025	Arsenic, Total	mg/L	0.0000486	0.000147	0.10	0.105	0.104	0.101	0.0850 to 0.115	101	70.0 to 130	0.957	20.0
BB07025	Beryllium, Total	mg/L	0.0000402	0.000880	0.10	0.0959	0.0942	0.0961	0.0850 to 0.115	95.9	70.0 to 130	1.79	20.0
BB07025	Chromium, Total	mg/L	-0.0000009	0.000440	0.10	0.0998	0.0962	0.0993	0.0850 to 0.115	99.8	70.0 to 130	3.67	20.0
BB07025	Iron, Total	mg/L	0.000162	0.0176	0.2	0.445	0.447	0.208	0.170 to 0.230	96.5	70.0 to 130	0.448	20.0
BB07025	Manganese, Total	mg/L	0.0000143	0.000147	0.10	0.105	0.103	0.0982	0.0850 to 0.115	97.8	70.0 to 130	1.92	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASG
Sample Date: 4/13/21 12:08
Customer ID:
Delivery Date: 4/14/21 10:32

Description: Gaston Gypsum - MW-7

Laboratory ID Number: BB07017

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07025	Alkalinity, Total as CaCO3	mg/L					224	51.2	45.0 to 55.0			1.80	10.0
BB07025	Fluoride	mg/L	0.0138	0.100	2.50	2.97	0.296	2.57	2.25 to 2.75	107	80.0 to 120	2.05	20.0
BB07025	Chloride	mg/L	-0.0896	1.00	10.0	12.8	2.65	9.93	9.00 to 11.0	103	80.0 to 120	4.24	20.0
BB07025	Sulfate	mg/L	-0.770	1.00	20.0	22.3	4.35	18.5	18.0 to 22.0	89.4	80.0 to 120	1.82	20.0
BB07025	Solids, Dissolved	mg/L	-2.00	25.0			230	54.0	40.0 to 60.0			1.50	5.00

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 13:36
Customer ID:
Submittal Date: 4/14/21 10:32

Laboratory ID Number: BB07018

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/19/21 12:02	4/20/21 13:19		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/19/21 12:02	4/20/21 14:48		10.15	52.2	mg/L	0.70035	4.06	
* Iron, Total	4/19/21 12:02	4/20/21 13:19		1.015	0.414	mg/L	0.008120	0.0406	
* Lithium, Total	4/19/21 12:02	4/20/21 13:19		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/19/21 12:02	4/20/21 13:19		1.015	10.7	mg/L	0.021315	0.406	
* Sodium, Total	4/19/21 12:02	4/20/21 13:19		1.015	1.34	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	4/19/21 13:00	4/21/21 12:17		1.015	0.369	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/15/21 12:15	4/19/21 15:48		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/15/21 12:15	4/19/21 15:48		1.015	0.00134	mg/L	0.000068	0.000203	
* Barium, Total	4/15/21 12:15	4/19/21 15:48		1.015	0.0262	mg/L	0.000101	0.000203	
* Beryllium, Total	4/15/21 12:15	4/19/21 15:48		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/15/21 12:15	4/19/21 15:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/15/21 12:15	4/19/21 15:48		1.015	0.000291	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/15/21 12:15	4/19/21 15:48		1.015	0.000123	mg/L	0.000068	0.000203	J
* Lead, Total	4/15/21 12:15	4/19/21 15:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/15/21 12:15	4/19/21 15:48		1.015	0.00318	mg/L	0.000068	0.000203	
* Potassium, Total	4/15/21 12:15	4/19/21 15:48		1.015	1.43	mg/L	0.169505	0.5075	
* Manganese, Total	4/15/21 12:15	4/19/21 15:48		1.015	0.116	mg/L	0.000068	0.000203	
* Selenium, Total	4/15/21 12:15	4/19/21 15:48		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/15/21 12:15	4/19/21 15:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	4/19/21 09:08	4/19/21 14:04		1.015	0.113	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/22/21 09:14	4/22/21 15:02		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	4/26/21 09:56	4/26/21 10:48		1	161	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/20/21 08:50	4/22/21 13:30		1	186	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 13:36
Customer ID:
Submittal Date: 4/14/21 10:32

Laboratory ID Number: BB07018

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	4/26/21 09:56	4/26/21 10:48		1	160	mg/L			
Carbonate Alkalinity, (calc.)	4/26/21 09:56	4/26/21 10:48		1	0.83	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/15/21 11:29	4/15/21 11:29		1	1.64	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/15/21 13:42	4/15/21 13:42		1	0.119	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/14/21 12:38	4/14/21 12:38		1	4.49	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	4/13/21 13:33	4/13/21 13:33			314.68	uS/cm			FA
pH	4/13/21 13:33	4/13/21 13:33			7.70	SU			FA
Temperature	4/13/21 13:33	4/13/21 13:33			21.72	C			FA
Turbidity	4/13/21 13:33	4/13/21 13:33			0.98	NTU			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.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 13:36
Customer ID:
Delivery Date: 4/14/21 10:32

Description: Gaston Gypsum - MW-8

Laboratory ID Number: BB07018

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07025	Calcium, Total	mg/L	-0.00281	0.152	5.00	48.5	48.3	5.04	4.25 to 5.75	90.0	70.0 to 130	0.413	20.0
BB07025	Boron, Total	mg/L	0.00200	0.0650	1.00	1.07	1.07	1.04	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BB07025	Potassium, Total	mg/L	0.00408	0.367	10.0	11.3	10.9	10.1	8.50 to 11.5	101	70.0 to 130	3.60	20.0
BB07025	Magnesium, Total	mg/L	-0.00330	0.0462	5.00	27.3	27.4	5.07	4.25 to 5.75	106	70.0 to 130	0.366	20.0
BB07025	Molybdenum, Total	mg/L	0.0000041	0.000147	0.10	0.0992	0.0987	0.0964	0.0850 to 0.115	95.7	70.0 to 130	0.505	20.0
BB07025	Lithium, Total	mg/L	-0.0000545	0.0154	0.20	0.224	0.220	0.203	0.170 to 0.230	107	70.0 to 130	1.80	20.0
BB07025	Manganese, Dissolved	mg/L	0.0000074	0.000147	0.10	0.104	0.105	0.0998	0.0850 to 0.115	97.7	70.0 to 130	0.957	20.0
BB07024	Mercury, Total by CVAA	mg/L	0.0000309	0.000500	0.004	0.00378	0.00372	0.00379	0.00340 to 0.00460	94.5	70.0 to 130	1.60	20.0
BB07025	Barium, Total	mg/L	0.0000237	0.000200	0.10	2.43	2.49	0.0964	0.0850 to 0.115	20.0	70.0 to 130	2.44	20.0
BB07025	Sodium, Total	mg/L	0.000402	0.0660	5.00	15.3	15.1	4.89	4.25 to 5.75	110	70.0 to 130	1.32	20.0
BB07025	Antimony, Total	mg/L	0.000154	0.00100	0.10	0.0950	0.0950	0.0912	0.0850 to 0.115	95.0	70.0 to 130	0.00	20.0
BB07025	Thallium, Total	mg/L	-0.0000096	0.000147	0.10	0.0954	0.0953	0.0941	0.0850 to 0.115	95.4	70.0 to 130	0.105	20.0
BB07025	Cadmium, Total	mg/L	0.0000084	0.000147	0.10	0.0960	0.0960	0.0978	0.0850 to 0.115	96.0	70.0 to 130	0.00	20.0
BB07025	Cobalt, Total	mg/L	-0.0000080	0.000147	0.10	0.0977	0.0953	0.0995	0.0850 to 0.115	97.7	70.0 to 130	2.49	20.0
BB07025	Iron, Dissolved	mg/L	0.000123	0.0176	0.2	0.435	0.435	0.205	0.170 to 0.230	99.5	70.0 to 130	0.00	20.0
BB07025	Lead, Total	mg/L	0.0000015	0.000147	0.10	0.0985	0.0987	0.0970	0.0850 to 0.115	98.5	70.0 to 130	0.203	20.0
BB07025	Selenium, Total	mg/L	0.0000166	0.00100	0.10	0.0996	0.0983	0.0993	0.0850 to 0.115	99.6	70.0 to 130	1.31	20.0
BB07025	Arsenic, Total	mg/L	0.0000486	0.000147	0.10	0.105	0.104	0.101	0.0850 to 0.115	101	70.0 to 130	0.957	20.0
BB07025	Beryllium, Total	mg/L	0.0000402	0.000880	0.10	0.0959	0.0942	0.0961	0.0850 to 0.115	95.9	70.0 to 130	1.79	20.0
BB07025	Chromium, Total	mg/L	-0.0000009	0.000440	0.10	0.0998	0.0962	0.0993	0.0850 to 0.115	99.8	70.0 to 130	3.67	20.0
BB07025	Iron, Total	mg/L	0.000162	0.0176	0.2	0.445	0.447	0.208	0.170 to 0.230	96.5	70.0 to 130	0.448	20.0
BB07025	Manganese, Total	mg/L	0.0000143	0.000147	0.10	0.105	0.103	0.0982	0.0850 to 0.115	97.8	70.0 to 130	1.92	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASG
Sample Date: 4/13/21 13:36
Customer ID:
Delivery Date: 4/14/21 10:32

Description: Gaston Gypsum - MW-8

Laboratory ID Number: BB07018

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07025	Alkalinity, Total as CaCO3	mg/L					224	51.2	45.0 to 55.0			1.80	10.0
BB07025	Fluoride	mg/L	0.0138	0.100	2.50	2.97	0.296	2.57	2.25 to 2.75	107	80.0 to 120	2.05	20.0
BB07025	Chloride	mg/L	-0.0896	1.00	10.0	12.8	2.65	9.93	9.00 to 11.0	103	80.0 to 120	4.24	20.0
BB07025	Sulfate	mg/L	-0.770	1.00	20.0	22.3	4.35	18.5	18.0 to 22.0	89.4	80.0 to 120	1.82	20.0
BB07025	Solids, Dissolved	mg/L	-2.00	25.0			230	54.0	40.0 to 60.0			1.50	5.00

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 14:45
Customer ID:
Submittal Date: 4/14/21 10:32

Laboratory ID Number: BB07019

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/19/21 12:02	4/20/21 13:22		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/19/21 12:02	4/20/21 14:51		10.15	43.5	mg/L	0.70035	4.06	
* Iron, Total	4/19/21 12:02	4/20/21 13:22		1.015	0.154	mg/L	0.008120	0.0406	
* Lithium, Total	4/19/21 12:02	4/20/21 13:22		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/19/21 12:02	4/20/21 13:22		1.015	5.89	mg/L	0.021315	0.406	
* Sodium, Total	4/19/21 12:02	4/20/21 13:22		1.015	3.20	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	4/19/21 13:00	4/21/21 12:21		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/15/21 12:15	4/19/21 15:51		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/15/21 12:15	4/19/21 15:51		1.015	0.000237	mg/L	0.000068	0.000203	
* Barium, Total	4/15/21 12:15	4/19/21 15:51		1.015	0.0226	mg/L	0.000101	0.000203	
* Beryllium, Total	4/15/21 12:15	4/19/21 15:51		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/15/21 12:15	4/19/21 15:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/15/21 12:15	4/19/21 15:51		1.015	0.000276	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/15/21 12:15	4/19/21 15:51		1.015	0.0000816	mg/L	0.000068	0.000203	J
* Lead, Total	4/15/21 12:15	4/19/21 15:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/15/21 12:15	4/19/21 15:51		1.015	0.000207	mg/L	0.000068	0.000203	
* Potassium, Total	4/15/21 12:15	4/19/21 15:51		1.015	0.739	mg/L	0.169505	0.5075	
* Manganese, Total	4/15/21 12:15	4/19/21 15:51		1.015	0.0139	mg/L	0.000068	0.000203	
* Selenium, Total	4/15/21 12:15	4/19/21 15:51		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/15/21 12:15	4/19/21 15:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	4/19/21 09:08	4/19/21 14:07		1.015	0.0164	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/22/21 09:14	4/22/21 15:05		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	4/26/21 09:56	4/26/21 10:48		1	138	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/20/21 08:50	4/22/21 13:30		1	163	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 14:45
Customer ID:
Submittal Date: 4/14/21 10:32

Laboratory ID Number: BB07019

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	4/26/21 09:56	4/26/21 10:48		1	137	mg/L			
Carbonate Alkalinity, (calc.)	4/26/21 09:56	4/26/21 10:48		1	0.13	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/15/21 11:30	4/15/21 11:30		1	2.14	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/15/21 13:44	4/15/21 13:44		1	0.0602	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/14/21 12:39	4/14/21 12:39		1	4.65	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	4/13/21 14:40	4/13/21 14:40			247.83	uS/cm			FA
pH	4/13/21 14:40	4/13/21 14:40			6.90	SU			FA
Temperature	4/13/21 14:40	4/13/21 14:40			20.77	C			FA
Turbidity	4/13/21 14:40	4/13/21 14:40			1.26	NTU			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.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 14:45
Customer ID:
Delivery Date: 4/14/21 10:32

Description: Gaston Gypsum - MW-9

Laboratory ID Number: BB07019

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07025	Calcium, Total	mg/L	-0.00281	0.152	5.00	48.5	48.3	5.04	4.25 to 5.75	90.0	70.0 to 130	0.413	20.0
BB07025	Boron, Total	mg/L	0.00200	0.0650	1.00	1.07	1.07	1.04	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BB07025	Lithium, Total	mg/L	-0.0000545	0.0154	0.20	0.224	0.220	0.203	0.170 to 0.230	107	70.0 to 130	1.80	20.0
BB07025	Manganese, Dissolved	mg/L	0.0000074	0.000147	0.10	0.104	0.105	0.0998	0.0850 to 0.115	97.7	70.0 to 130	0.957	20.0
BB07025	Potassium, Total	mg/L	0.00408	0.367	10.0	11.3	10.9	10.1	8.50 to 11.5	101	70.0 to 130	3.60	20.0
BB07025	Magnesium, Total	mg/L	-0.00330	0.0462	5.00	27.3	27.4	5.07	4.25 to 5.75	106	70.0 to 130	0.366	20.0
BB07025	Molybdenum, Total	mg/L	0.0000041	0.000147	0.10	0.0992	0.0987	0.0964	0.0850 to 0.115	95.7	70.0 to 130	0.505	20.0
BB07024	Mercury, Total by CVAA	mg/L	0.0000309	0.000500	0.004	0.00378	0.00372	0.00379	0.00340 to 0.00460	94.5	70.0 to 130	1.60	20.0
BB07025	Barium, Total	mg/L	0.0000237	0.000200	0.10	2.43	2.49	0.0964	0.0850 to 0.115	20.0	70.0 to 130	2.44	20.0
BB07025	Sodium, Total	mg/L	0.000402	0.0660	5.00	15.3	15.1	4.89	4.25 to 5.75	110	70.0 to 130	1.32	20.0
BB07025	Antimony, Total	mg/L	0.000154	0.00100	0.10	0.0950	0.0950	0.0912	0.0850 to 0.115	95.0	70.0 to 130	0.00	20.0
BB07025	Thallium, Total	mg/L	-0.0000096	0.000147	0.10	0.0954	0.0953	0.0941	0.0850 to 0.115	95.4	70.0 to 130	0.105	20.0
BB07025	Cadmium, Total	mg/L	0.0000084	0.000147	0.10	0.0960	0.0960	0.0978	0.0850 to 0.115	96.0	70.0 to 130	0.00	20.0
BB07025	Cobalt, Total	mg/L	-0.0000080	0.000147	0.10	0.0977	0.0953	0.0995	0.0850 to 0.115	97.7	70.0 to 130	2.49	20.0
BB07025	Iron, Dissolved	mg/L	0.000123	0.0176	0.2	0.435	0.435	0.205	0.170 to 0.230	99.5	70.0 to 130	0.00	20.0
BB07025	Lead, Total	mg/L	0.0000015	0.000147	0.10	0.0985	0.0987	0.0970	0.0850 to 0.115	98.5	70.0 to 130	0.203	20.0
BB07025	Selenium, Total	mg/L	0.0000166	0.00100	0.10	0.0996	0.0983	0.0993	0.0850 to 0.115	99.6	70.0 to 130	1.31	20.0
BB07025	Arsenic, Total	mg/L	0.0000486	0.000147	0.10	0.105	0.104	0.101	0.0850 to 0.115	101	70.0 to 130	0.957	20.0
BB07025	Beryllium, Total	mg/L	0.0000402	0.000880	0.10	0.0959	0.0942	0.0961	0.0850 to 0.115	95.9	70.0 to 130	1.79	20.0
BB07025	Chromium, Total	mg/L	-0.0000009	0.000440	0.10	0.0998	0.0962	0.0993	0.0850 to 0.115	99.8	70.0 to 130	3.67	20.0
BB07025	Iron, Total	mg/L	0.000162	0.0176	0.2	0.445	0.447	0.208	0.170 to 0.230	96.5	70.0 to 130	0.448	20.0
BB07025	Manganese, Total	mg/L	0.0000143	0.000147	0.10	0.105	0.103	0.0982	0.0850 to 0.115	97.8	70.0 to 130	1.92	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASG
Sample Date: 4/13/21 14:45
Customer ID:
Delivery Date: 4/14/21 10:32

Description: Gaston Gypsum - MW-9

Laboratory ID Number: BB07019

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07025	Alkalinity, Total as CaCO3	mg/L					224	51.2	45.0 to 55.0			1.80	10.0
BB07025	Chloride	mg/L	-0.0896	1.00	10.0	12.8	2.65	9.93	9.00 to 11.0	103	80.0 to 120	4.24	20.0
BB07025	Sulfate	mg/L	-0.770	1.00	20.0	22.3	4.35	18.5	18.0 to 22.0	89.4	80.0 to 120	1.82	20.0
BB07025	Solids, Dissolved	mg/L	-2.00	25.0			230	54.0	40.0 to 60.0			1.50	5.00
BB07025	Fluoride	mg/L	0.0138	0.100	2.50	2.97	0.296	2.57	2.25 to 2.75	107	80.0 to 120	2.05	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

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: 4/13/21 14:45
Customer ID:
Submittal Date: 4/14/21 10:32

Laboratory ID Number: BB07020

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/19/21 12:02	4/20/21 13:26		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/19/21 12:02	4/20/21 14:54		10.15	42.9	mg/L	0.70035	4.06	
* Iron, Total	4/19/21 12:02	4/20/21 13:26		1.015	0.0763	mg/L	0.008120	0.0406	
* Lithium, Total	4/19/21 12:02	4/20/21 13:26		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/19/21 12:02	4/20/21 13:26		1.015	5.86	mg/L	0.021315	0.406	
* Sodium, Total	4/19/21 12:02	4/20/21 13:26		1.015	3.26	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	4/19/21 13:00	4/21/21 12:24		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/15/21 12:15	4/19/21 15:55		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/15/21 12:15	4/19/21 15:55		1.015	0.000164	mg/L	0.000068	0.000203	J
* Barium, Total	4/15/21 12:15	4/19/21 15:55		1.015	0.0212	mg/L	0.000101	0.000203	
* Beryllium, Total	4/15/21 12:15	4/19/21 15:55		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/15/21 12:15	4/19/21 15:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/15/21 12:15	4/19/21 15:55		1.015	0.000263	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/15/21 12:15	4/19/21 15:55		1.015	0.0000708	mg/L	0.000068	0.000203	J
* Lead, Total	4/15/21 12:15	4/19/21 15:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/15/21 12:15	4/19/21 15:55		1.015	0.000295	mg/L	0.000068	0.000203	
* Potassium, Total	4/15/21 12:15	4/19/21 15:55		1.015	0.744	mg/L	0.169505	0.5075	
* Manganese, Total	4/15/21 12:15	4/19/21 15:55		1.015	0.0135	mg/L	0.000068	0.000203	
* Selenium, Total	4/15/21 12:15	4/19/21 15:55		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/15/21 12:15	4/19/21 15:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	4/19/21 09:08	4/19/21 14:11		1.015	0.0166	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/22/21 09:14	4/22/21 15:07		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	4/26/21 09:56	4/26/21 10:48		1	137	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/20/21 08:50	4/22/21 13:30		1	159	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 14:45
Customer ID:
Submittal Date: 4/14/21 10:32

Laboratory ID Number: BB07020

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	4/26/21 09:56	4/26/21 10:48		1	137	mg/L			
Carbonate Alkalinity, (calc.)	4/26/21 09:56	4/26/21 10:48		1	0.15	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/15/21 11:31	4/15/21 11:31		1	2.13	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/15/21 13:45	4/15/21 13:45		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/14/21 12:40	4/14/21 12:40		1	4.66	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	4/13/21 14:40	4/13/21 14:40			247.83	uS/cm			FA
pH	4/13/21 14:40	4/13/21 14:40			6.90	SU			FA
Temperature	4/13/21 14:40	4/13/21 14:40			20.77	C			FA
Turbidity	4/13/21 14:40	4/13/21 14:40			1.26	NTU			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.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 14:45
Customer ID:
Delivery Date: 4/14/21 10:32

Description: Gaston Gypsum - MW-9 DUP

Laboratory ID Number: BB07020

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07025	Calcium, Total	mg/L	-0.00281	0.152	5.00	48.5	48.3	5.04	4.25 to 5.75	90.0	70.0 to 130	0.413	20.0
BB07025	Boron, Total	mg/L	0.00200	0.0650	1.00	1.07	1.07	1.04	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BB07025	Lithium, Total	mg/L	-0.0000545	0.0154	0.20	0.224	0.220	0.203	0.170 to 0.230	107	70.0 to 130	1.80	20.0
BB07025	Manganese, Dissolved	mg/L	0.0000074	0.000147	0.10	0.104	0.105	0.0998	0.0850 to 0.115	97.7	70.0 to 130	0.957	20.0
BB07025	Potassium, Total	mg/L	0.00408	0.367	10.0	11.3	10.9	10.1	8.50 to 11.5	101	70.0 to 130	3.60	20.0
BB07025	Magnesium, Total	mg/L	-0.00330	0.0462	5.00	27.3	27.4	5.07	4.25 to 5.75	106	70.0 to 130	0.366	20.0
BB07025	Molybdenum, Total	mg/L	0.0000041	0.000147	0.10	0.0992	0.0987	0.0964	0.0850 to 0.115	95.7	70.0 to 130	0.505	20.0
BB07024	Mercury, Total by CVAA	mg/L	0.0000309	0.000500	0.004	0.00378	0.00372	0.00379	0.00340 to 0.00460	94.5	70.0 to 130	1.60	20.0
BB07025	Barium, Total	mg/L	0.0000237	0.000200	0.10	2.43	2.49	0.0964	0.0850 to 0.115	20.0	70.0 to 130	2.44	20.0
BB07025	Sodium, Total	mg/L	0.000402	0.0660	5.00	15.3	15.1	4.89	4.25 to 5.75	110	70.0 to 130	1.32	20.0
BB07025	Antimony, Total	mg/L	0.000154	0.00100	0.10	0.0950	0.0950	0.0912	0.0850 to 0.115	95.0	70.0 to 130	0.00	20.0
BB07025	Thallium, Total	mg/L	-0.0000096	0.000147	0.10	0.0954	0.0953	0.0941	0.0850 to 0.115	95.4	70.0 to 130	0.105	20.0
BB07025	Cadmium, Total	mg/L	0.0000084	0.000147	0.10	0.0960	0.0960	0.0978	0.0850 to 0.115	96.0	70.0 to 130	0.00	20.0
BB07025	Cobalt, Total	mg/L	-0.0000080	0.000147	0.10	0.0977	0.0953	0.0995	0.0850 to 0.115	97.7	70.0 to 130	2.49	20.0
BB07025	Iron, Dissolved	mg/L	0.000123	0.0176	0.2	0.435	0.435	0.205	0.170 to 0.230	99.5	70.0 to 130	0.00	20.0
BB07025	Lead, Total	mg/L	0.0000015	0.000147	0.10	0.0985	0.0987	0.0970	0.0850 to 0.115	98.5	70.0 to 130	0.203	20.0
BB07025	Selenium, Total	mg/L	0.0000166	0.00100	0.10	0.0996	0.0983	0.0993	0.0850 to 0.115	99.6	70.0 to 130	1.31	20.0
BB07025	Arsenic, Total	mg/L	0.0000486	0.000147	0.10	0.105	0.104	0.101	0.0850 to 0.115	101	70.0 to 130	0.957	20.0
BB07025	Beryllium, Total	mg/L	0.0000402	0.000880	0.10	0.0959	0.0942	0.0961	0.0850 to 0.115	95.9	70.0 to 130	1.79	20.0
BB07025	Chromium, Total	mg/L	-0.0000009	0.000440	0.10	0.0998	0.0962	0.0993	0.0850 to 0.115	99.8	70.0 to 130	3.67	20.0
BB07025	Iron, Total	mg/L	0.000162	0.0176	0.2	0.445	0.447	0.208	0.170 to 0.230	96.5	70.0 to 130	0.448	20.0
BB07025	Manganese, Total	mg/L	0.0000143	0.000147	0.10	0.105	0.103	0.0982	0.0850 to 0.115	97.8	70.0 to 130	1.92	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASG
Sample Date: 4/13/21 14:45
Customer ID:
Delivery Date: 4/14/21 10:32

Description: Gaston Gypsum - MW-9 DUP

Laboratory ID Number: BB07020

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07025	Alkalinity, Total as CaCO3	mg/L					224	51.2	45.0 to 55.0			1.80	10.0
BB07025	Fluoride	mg/L	0.0138	0.100	2.50	2.97	0.296	2.57	2.25 to 2.75	107	80.0 to 120	2.05	20.0
BB07025	Chloride	mg/L	-0.0896	1.00	10.0	12.8	2.65	9.93	9.00 to 11.0	103	80.0 to 120	4.24	20.0
BB07025	Sulfate	mg/L	-0.770	1.00	20.0	22.3	4.35	18.5	18.0 to 22.0	89.4	80.0 to 120	1.82	20.0
BB07025	Solids, Dissolved	mg/L	-2.00	25.0			230	54.0	40.0 to 60.0			1.50	5.00

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 15:15
Customer ID:
Submittal Date: 4/14/21 10:32

Laboratory ID Number: BB07021

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/19/21 12:02	4/20/21 13:29		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/19/21 12:02	4/20/21 13:29		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	4/19/21 12:02	4/20/21 13:29		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/19/21 12:02	4/20/21 13:29		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/19/21 12:02	4/20/21 13:29		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	4/19/21 12:02	4/20/21 13:29		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/15/21 12:15	4/19/21 15:59		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/15/21 12:15	4/19/21 15:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	4/15/21 12:15	4/19/21 15:59		1.015	Not Detected	mg/L	0.000101	0.000203	U
* Beryllium, Total	4/15/21 12:15	4/19/21 15:59		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/15/21 12:15	4/19/21 15:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/15/21 12:15	4/19/21 15:59		1.015	0.000239	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/15/21 12:15	4/19/21 15:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/15/21 12:15	4/19/21 15:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/15/21 12:15	4/19/21 15:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/15/21 12:15	4/19/21 15:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	4/15/21 12:15	4/19/21 15:59		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	4/15/21 12:15	4/19/21 15:59		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/15/21 12:15	4/19/21 15:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/22/21 09:14	4/22/21 15:10		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/20/21 08:50	4/22/21 13:30		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/15/21 11:32	4/15/21 11:32		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/15/21 13:46	4/15/21 13:46		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/14/21 12:41	4/14/21 12:41		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 15:15
Customer ID:
Delivery Date: 4/14/21 10:32

Description: Gaston Gypsum Field Blank-1

Laboratory ID Number: BB07021

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07025	Calcium, Total	mg/L	-0.00281	0.152	5.00	48.5	48.3	5.04	4.25 to 5.75	90.0	70.0 to 130	0.413	20.0
BB07025	Lithium, Total	mg/L	-0.0000545	0.0154	0.20	0.224	0.220	0.203	0.170 to 0.230	107	70.0 to 130	1.80	20.0
BB07025	Boron, Total	mg/L	0.00200	0.0650	1.00	1.07	1.07	1.04	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BB07025	Potassium, Total	mg/L	0.00408	0.367	10.0	11.3	10.9	10.1	8.50 to 11.5	101	70.0 to 130	3.60	20.0
BB07025	Magnesium, Total	mg/L	-0.00330	0.0462	5.00	27.3	27.4	5.07	4.25 to 5.75	106	70.0 to 130	0.366	20.0
BB07025	Molybdenum, Total	mg/L	0.0000041	0.000147	0.10	0.0992	0.0987	0.0964	0.0850 to 0.115	95.7	70.0 to 130	0.505	20.0
BB07024	Mercury, Total by CVAA	mg/L	0.0000309	0.000500	0.004	0.00378	0.00372	0.00379	0.00340 to 0.00460	94.5	70.0 to 130	1.60	20.0
BB07025	Barium, Total	mg/L	0.0000237	0.000200	0.10	2.43	2.49	0.0964	0.0850 to 0.115	20.0	70.0 to 130	2.44	20.0
BB07025	Sodium, Total	mg/L	0.000402	0.0660	5.00	15.3	15.1	4.89	4.25 to 5.75	110	70.0 to 130	1.32	20.0
BB07025	Antimony, Total	mg/L	0.000154	0.00100	0.10	0.0950	0.0950	0.0912	0.0850 to 0.115	95.0	70.0 to 130	0.00	20.0
BB07025	Thallium, Total	mg/L	-0.0000096	0.000147	0.10	0.0954	0.0953	0.0941	0.0850 to 0.115	95.4	70.0 to 130	0.105	20.0
BB07025	Cadmium, Total	mg/L	0.0000084	0.000147	0.10	0.0960	0.0960	0.0978	0.0850 to 0.115	96.0	70.0 to 130	0.00	20.0
BB07025	Cobalt, Total	mg/L	-0.0000080	0.000147	0.10	0.0977	0.0953	0.0995	0.0850 to 0.115	97.7	70.0 to 130	2.49	20.0
BB07025	Lead, Total	mg/L	0.0000015	0.000147	0.10	0.0985	0.0987	0.0970	0.0850 to 0.115	98.5	70.0 to 130	0.203	20.0
BB07025	Selenium, Total	mg/L	0.0000166	0.00100	0.10	0.0996	0.0983	0.0993	0.0850 to 0.115	99.6	70.0 to 130	1.31	20.0
BB07025	Arsenic, Total	mg/L	0.0000486	0.000147	0.10	0.105	0.104	0.101	0.0850 to 0.115	101	70.0 to 130	0.957	20.0
BB07025	Beryllium, Total	mg/L	0.0000402	0.000880	0.10	0.0959	0.0942	0.0961	0.0850 to 0.115	95.9	70.0 to 130	1.79	20.0
BB07025	Chromium, Total	mg/L	-0.0000009	0.000440	0.10	0.0998	0.0962	0.0993	0.0850 to 0.115	99.8	70.0 to 130	3.67	20.0
BB07025	Iron, Total	mg/L	0.000162	0.0176	0.2	0.445	0.447	0.208	0.170 to 0.230	96.5	70.0 to 130	0.448	20.0
BB07025	Manganese, Total	mg/L	0.0000143	0.000147	0.10	0.105	0.103	0.0982	0.0850 to 0.115	97.8	70.0 to 130	1.92	20.0

Comments:

Reported: 5/18/2021
Version: 3.2
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASGFB
Sample Date: 4/13/21 15:15
Customer ID:
Delivery Date: 4/14/21 10:32

Description: Gaston Gypsum Field Blank-1

Laboratory ID Number: BB07021

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07025	Fluoride	mg/L	0.0138	0.100	2.50	2.97	0.296	2.57	2.25 to 2.75	107	80.0 to 120	2.05	20.0
BB07025	Chloride	mg/L	-0.0896	1.00	10.0	12.8	2.65	9.93	9.00 to 11.0	103	80.0 to 120	4.24	20.0
BB07025	Sulfate	mg/L	-0.770	1.00	20.0	22.3	4.35	18.5	18.0 to 22.0	89.4	80.0 to 120	1.82	20.0
BB07025	Solids, Dissolved	mg/L	-2.00	25.0			230	54.0	40.0 to 60.0			1.50	5.00

Comments:

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 15:42
Customer ID:
Submittal Date: 4/14/21 10:32

Laboratory ID Number: BB07022

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/19/21 12:02	4/20/21 13:33		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/19/21 12:02	4/20/21 14:58		10.15	97.1	mg/L	0.70035	4.06	
* Iron, Total	4/19/21 12:02	4/20/21 13:33		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/19/21 12:02	4/20/21 13:33		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/19/21 12:02	4/20/21 13:33		1.015	1.78	mg/L	0.021315	0.406	
* Sodium, Total	4/19/21 12:02	4/20/21 13:33		1.015	2.09	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	4/19/21 13:00	4/21/21 12:28		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/15/21 12:15	4/19/21 16:02		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/15/21 12:15	4/19/21 16:02		1.015	0.0000871	mg/L	0.000068	0.000203	J
* Barium, Total	4/15/21 12:15	4/19/21 16:02		1.015	0.0373	mg/L	0.000101	0.000203	
* Beryllium, Total	4/15/21 12:15	4/19/21 16:02		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/15/21 12:15	4/19/21 16:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/15/21 12:15	4/19/21 16:02		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/15/21 12:15	4/19/21 16:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/15/21 12:15	4/19/21 16:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/15/21 12:15	4/19/21 16:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	4/15/21 12:15	4/19/21 16:02		1.015	0.185	mg/L	0.169505	0.5075	J
* Manganese, Total	4/15/21 12:15	4/19/21 16:02		1.015	0.00170	mg/L	0.000068	0.000203	
* Selenium, Total	4/15/21 12:15	4/19/21 16:02		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/15/21 12:15	4/19/21 16:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	4/19/21 09:08	4/19/21 14:14		1.015	0.00218	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/22/21 09:14	4/22/21 15:12		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	4/26/21 09:56	4/26/21 10:48		1	246	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/20/21 08:50	4/22/21 13:30		1	273	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 15:42
Customer ID:
Submittal Date: 4/14/21 10:32

Laboratory ID Number: BB07022

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	4/26/21 09:56	4/26/21 10:48		1	246	mg/L			
Carbonate Alkalinity, (calc.)	4/26/21 09:56	4/26/21 10:48		1	0.49	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/15/21 11:33	4/15/21 11:33		1	3.07	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/15/21 13:47	4/15/21 13:47		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/14/21 12:42	4/14/21 12:42		1	1.68	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	4/13/21 15:39	4/13/21 15:39			444.68	uS/cm			FA
pH	4/13/21 15:39	4/13/21 15:39			7.22	SU			FA
Temperature	4/13/21 15:39	4/13/21 15:39			21.77	C			FA
Turbidity	4/13/21 15:39	4/13/21 15:39			0.16	NTU			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.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 15:42
Customer ID:
Delivery Date: 4/14/21 10:32

Description: Gaston Gypsum - MW-10

Laboratory ID Number: BB07022

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07025	Calcium, Total	mg/L	-0.00281	0.152	5.00	48.5	48.3	5.04	4.25 to 5.75	90.0	70.0 to 130	0.413	20.0
BB07025	Boron, Total	mg/L	0.00200	0.0650	1.00	1.07	1.07	1.04	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BB07025	Lithium, Total	mg/L	-0.0000545	0.0154	0.20	0.224	0.220	0.203	0.170 to 0.230	107	70.0 to 130	1.80	20.0
BB07025	Manganese, Dissolved	mg/L	0.0000074	0.000147	0.10	0.104	0.105	0.0998	0.0850 to 0.115	97.7	70.0 to 130	0.957	20.0
BB07025	Potassium, Total	mg/L	0.00408	0.367	10.0	11.3	10.9	10.1	8.50 to 11.5	101	70.0 to 130	3.60	20.0
BB07025	Magnesium, Total	mg/L	-0.00330	0.0462	5.00	27.3	27.4	5.07	4.25 to 5.75	106	70.0 to 130	0.366	20.0
BB07025	Molybdenum, Total	mg/L	0.0000041	0.000147	0.10	0.0992	0.0987	0.0964	0.0850 to 0.115	95.7	70.0 to 130	0.505	20.0
BB07024	Mercury, Total by CVAA	mg/L	0.0000309	0.000500	0.004	0.00378	0.00372	0.00379	0.00340 to 0.00460	94.5	70.0 to 130	1.60	20.0
BB07025	Barium, Total	mg/L	0.0000237	0.000200	0.10	2.43	2.49	0.0964	0.0850 to 0.115	20.0	70.0 to 130	2.44	20.0
BB07025	Sodium, Total	mg/L	0.000402	0.0660	5.00	15.3	15.1	4.89	4.25 to 5.75	110	70.0 to 130	1.32	20.0
BB07025	Antimony, Total	mg/L	0.000154	0.00100	0.10	0.0950	0.0950	0.0912	0.0850 to 0.115	95.0	70.0 to 130	0.00	20.0
BB07025	Thallium, Total	mg/L	-0.0000096	0.000147	0.10	0.0954	0.0953	0.0941	0.0850 to 0.115	95.4	70.0 to 130	0.105	20.0
BB07025	Cadmium, Total	mg/L	0.0000084	0.000147	0.10	0.0960	0.0960	0.0978	0.0850 to 0.115	96.0	70.0 to 130	0.00	20.0
BB07025	Cobalt, Total	mg/L	-0.0000080	0.000147	0.10	0.0977	0.0953	0.0995	0.0850 to 0.115	97.7	70.0 to 130	2.49	20.0
BB07025	Iron, Dissolved	mg/L	0.000123	0.0176	0.2	0.435	0.435	0.205	0.170 to 0.230	99.5	70.0 to 130	0.00	20.0
BB07025	Lead, Total	mg/L	0.0000015	0.000147	0.10	0.0985	0.0987	0.0970	0.0850 to 0.115	98.5	70.0 to 130	0.203	20.0
BB07025	Selenium, Total	mg/L	0.0000166	0.00100	0.10	0.0996	0.0983	0.0993	0.0850 to 0.115	99.6	70.0 to 130	1.31	20.0
BB07025	Arsenic, Total	mg/L	0.0000486	0.000147	0.10	0.105	0.104	0.101	0.0850 to 0.115	101	70.0 to 130	0.957	20.0
BB07025	Beryllium, Total	mg/L	0.0000402	0.000880	0.10	0.0959	0.0942	0.0961	0.0850 to 0.115	95.9	70.0 to 130	1.79	20.0
BB07025	Chromium, Total	mg/L	-0.0000009	0.000440	0.10	0.0998	0.0962	0.0993	0.0850 to 0.115	99.8	70.0 to 130	3.67	20.0
BB07025	Iron, Total	mg/L	0.000162	0.0176	0.2	0.445	0.447	0.208	0.170 to 0.230	96.5	70.0 to 130	0.448	20.0
BB07025	Manganese, Total	mg/L	0.0000143	0.000147	0.10	0.105	0.103	0.0982	0.0850 to 0.115	97.8	70.0 to 130	1.92	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASG
Sample Date: 4/13/21 15:42
Customer ID:
Delivery Date: 4/14/21 10:32

Description: Gaston Gypsum - MW-10

Laboratory ID Number: BB07022

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07025	Alkalinity, Total as CaCO3	mg/L					224	51.2	45.0 to 55.0			1.80	10.0
BB07025	Fluoride	mg/L	0.0138	0.100	2.50	2.97	0.296	2.57	2.25 to 2.75	107	80.0 to 120	2.05	20.0
BB07025	Chloride	mg/L	-0.0896	1.00	10.0	12.8	2.65	9.93	9.00 to 11.0	103	80.0 to 120	4.24	20.0
BB07025	Sulfate	mg/L	-0.770	1.00	20.0	22.3	4.35	18.5	18.0 to 22.0	89.4	80.0 to 120	1.82	20.0
BB07025	Solids, Dissolved	mg/L	-2.00	25.0			230	54.0	40.0 to 60.0			1.50	5.00

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 16:45
Customer ID:
Submittal Date: 4/14/21 10:32

Laboratory ID Number: BB07023

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/19/21 12:02	4/20/21 13:36		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/19/21 12:02	4/20/21 15:01		10.15	89.8	mg/L	0.70035	4.06	
* Iron, Total	4/19/21 12:02	4/20/21 13:36		1.015	0.00822	mg/L	0.008120	0.0406	J
* Lithium, Total	4/19/21 12:02	4/20/21 13:36		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/19/21 12:02	4/20/21 13:36		1.015	10.6	mg/L	0.021315	0.406	
* Sodium, Total	4/19/21 12:02	4/20/21 13:36		1.015	3.46	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	4/19/21 13:00	4/21/21 12:31		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/15/21 12:15	4/19/21 16:06		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/15/21 12:15	4/19/21 16:06		1.015	0.000189	mg/L	0.000068	0.000203	J
* Barium, Total	4/15/21 12:15	4/19/21 16:06		1.015	0.0403	mg/L	0.000101	0.000203	
* Beryllium, Total	4/15/21 12:15	4/19/21 16:06		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/15/21 12:15	4/19/21 16:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/15/21 12:15	4/19/21 16:06		1.015	0.000518	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/15/21 12:15	4/19/21 16:06		1.015	0.000158	mg/L	0.000068	0.000203	J
* Lead, Total	4/15/21 12:15	4/19/21 16:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/15/21 12:15	4/19/21 16:06		1.015	0.000175	mg/L	0.000068	0.000203	J
* Potassium, Total	4/15/21 12:15	4/19/21 16:06		1.015	0.986	mg/L	0.169505	0.5075	
* Manganese, Total	4/15/21 12:15	4/19/21 16:06		1.015	0.00969	mg/L	0.000068	0.000203	
* Selenium, Total	4/15/21 12:15	4/19/21 16:06		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/15/21 12:15	4/19/21 16:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	4/19/21 09:08	4/19/21 14:18		1.015	0.000134	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/22/21 09:14	4/22/21 15:14		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	4/26/21 09:56	4/26/21 10:48		1	261	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/20/21 08:50	4/22/21 13:30		1	286	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 16:45
Customer ID:
Submittal Date: 4/14/21 10:32

Laboratory ID Number: BB07023

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	4/26/21 09:56	4/26/21 10:48		1	260	mg/L			
Carbonate Alkalinity, (calc.)	4/26/21 09:56	4/26/21 10:48		1	0.60	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/15/21 11:35	4/15/21 11:35		1	3.56	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/15/21 13:48	4/15/21 13:48		1	0.0633	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/14/21 12:44	4/14/21 12:44		1	8.38	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	4/13/21 16:39	4/13/21 16:39			471.04	uS/cm			FA
pH	4/13/21 16:39	4/13/21 16:39			7.17	SU			FA
Temperature	4/13/21 16:39	4/13/21 16:39			20.81	C			FA
Turbidity	4/13/21 16:39	4/13/21 16:39			0.48	NTU			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.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 16:45
Customer ID:
Delivery Date: 4/14/21 10:32

Description: Gaston Gypsum - MW-13

Laboratory ID Number: BB07023

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07025	Calcium, Total	mg/L	-0.00281	0.152	5.00	48.5	48.3	5.04	4.25 to 5.75	90.0	70.0 to 130	0.413	20.0
BB07025	Boron, Total	mg/L	0.00200	0.0650	1.00	1.07	1.07	1.04	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BB07025	Lithium, Total	mg/L	-0.0000545	0.0154	0.20	0.224	0.220	0.203	0.170 to 0.230	107	70.0 to 130	1.80	20.0
BB07025	Manganese, Dissolved	mg/L	0.0000074	0.000147	0.10	0.104	0.105	0.0998	0.0850 to 0.115	97.7	70.0 to 130	0.957	20.0
BB07024	Mercury, Total by CVAA	mg/L	0.0000309	0.000500	0.004	0.00378	0.00372	0.00379	0.00340 to 0.00460	94.5	70.0 to 130	1.60	20.0
BB07025	Barium, Total	mg/L	0.0000237	0.000200	0.10	2.43	2.49	0.0964	0.0850 to 0.115	20.0	70.0 to 130	2.44	20.0
BB07025	Sodium, Total	mg/L	0.000402	0.0660	5.00	15.3	15.1	4.89	4.25 to 5.75	110	70.0 to 130	1.32	20.0
BB07025	Antimony, Total	mg/L	0.000154	0.00100	0.10	0.0950	0.0950	0.0912	0.0850 to 0.115	95.0	70.0 to 130	0.00	20.0
BB07025	Thallium, Total	mg/L	-0.0000096	0.000147	0.10	0.0954	0.0953	0.0941	0.0850 to 0.115	95.4	70.0 to 130	0.105	20.0
BB07025	Potassium, Total	mg/L	0.00408	0.367	10.0	11.3	10.9	10.1	8.50 to 11.5	101	70.0 to 130	3.60	20.0
BB07025	Magnesium, Total	mg/L	-0.00330	0.0462	5.00	27.3	27.4	5.07	4.25 to 5.75	106	70.0 to 130	0.366	20.0
BB07025	Molybdenum, Total	mg/L	0.0000041	0.000147	0.10	0.0992	0.0987	0.0964	0.0850 to 0.115	95.7	70.0 to 130	0.505	20.0
BB07025	Cadmium, Total	mg/L	0.0000084	0.000147	0.10	0.0960	0.0960	0.0978	0.0850 to 0.115	96.0	70.0 to 130	0.00	20.0
BB07025	Cobalt, Total	mg/L	-0.0000080	0.000147	0.10	0.0977	0.0953	0.0995	0.0850 to 0.115	97.7	70.0 to 130	2.49	20.0
BB07025	Iron, Dissolved	mg/L	0.000123	0.0176	0.2	0.435	0.435	0.205	0.170 to 0.230	99.5	70.0 to 130	0.00	20.0
BB07025	Lead, Total	mg/L	0.0000015	0.000147	0.10	0.0985	0.0987	0.0970	0.0850 to 0.115	98.5	70.0 to 130	0.203	20.0
BB07025	Selenium, Total	mg/L	0.0000166	0.00100	0.10	0.0996	0.0983	0.0993	0.0850 to 0.115	99.6	70.0 to 130	1.31	20.0
BB07025	Arsenic, Total	mg/L	0.0000486	0.000147	0.10	0.105	0.104	0.101	0.0850 to 0.115	101	70.0 to 130	0.957	20.0
BB07025	Beryllium, Total	mg/L	0.0000402	0.000880	0.10	0.0959	0.0942	0.0961	0.0850 to 0.115	95.9	70.0 to 130	1.79	20.0
BB07025	Chromium, Total	mg/L	-0.0000009	0.000440	0.10	0.0998	0.0962	0.0993	0.0850 to 0.115	99.8	70.0 to 130	3.67	20.0
BB07025	Iron, Total	mg/L	0.000162	0.0176	0.2	0.445	0.447	0.208	0.170 to 0.230	96.5	70.0 to 130	0.448	20.0
BB07025	Manganese, Total	mg/L	0.0000143	0.000147	0.10	0.105	0.103	0.0982	0.0850 to 0.115	97.8	70.0 to 130	1.92	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASG
Sample Date: 4/13/21 16:45
Customer ID:
Delivery Date: 4/14/21 10:32

Description: Gaston Gypsum - MW-13

Laboratory ID Number: BB07023

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07025	Alkalinity, Total as CaCO3	mg/L					224	51.2	45.0 to 55.0			1.80	10.0
BB07025	Fluoride	mg/L	0.0138	0.100	2.50	2.97	0.296	2.57	2.25 to 2.75	107	80.0 to 120	2.05	20.0
BB07025	Chloride	mg/L	-0.0896	1.00	10.0	12.8	2.65	9.93	9.00 to 11.0	103	80.0 to 120	4.24	20.0
BB07025	Sulfate	mg/L	-0.770	1.00	20.0	22.3	4.35	18.5	18.0 to 22.0	89.4	80.0 to 120	1.82	20.0
BB07025	Solids, Dissolved	mg/L	-2.00	25.0			230	54.0	40.0 to 60.0			1.50	5.00

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 17:05
Customer ID:
Submittal Date: 4/14/21 10:32

Laboratory ID Number: BB07024

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/19/21 12:02	4/20/21 13:39		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/19/21 12:02	4/20/21 13:39		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	4/19/21 12:02	4/20/21 13:39		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/19/21 12:02	4/20/21 13:39		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/19/21 12:02	4/20/21 13:39		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	4/19/21 12:02	4/20/21 13:39		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/15/21 12:15	4/19/21 16:09		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/15/21 12:15	4/19/21 16:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	4/15/21 12:15	4/19/21 16:09		1.015	Not Detected	mg/L	0.000101	0.000203	U
* Beryllium, Total	4/15/21 12:15	4/19/21 16:09		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/15/21 12:15	4/19/21 16:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/15/21 12:15	4/19/21 16:09		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/15/21 12:15	4/19/21 16:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/15/21 12:15	4/19/21 16:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/15/21 12:15	4/19/21 16:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/15/21 12:15	4/19/21 16:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	4/15/21 12:15	4/19/21 16:09		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	4/15/21 12:15	4/19/21 16:09		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/15/21 12:15	4/19/21 16:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/22/21 09:14	4/22/21 15:19		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/20/21 08:50	4/22/21 13:30		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/15/21 11:36	4/15/21 11:36		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/15/21 13:50	4/15/21 13:50		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/14/21 12:45	4/14/21 12:45		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 17:05
Customer ID:
Delivery Date: 4/14/21 10:32

Description: Gaston Gypsum Equipment Blank-1

Laboratory ID Number: BB07024

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07025	Calcium, Total	mg/L	-0.00281	0.152	5.00	48.5	48.3	5.04	4.25 to 5.75	90.0	70.0 to 130	0.413	20.0
BB07025	Boron, Total	mg/L	0.00200	0.0650	1.00	1.07	1.07	1.04	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BB07025	Potassium, Total	mg/L	0.00408	0.367	10.0	11.3	10.9	10.1	8.50 to 11.5	101	70.0 to 130	3.60	20.0
BB07025	Magnesium, Total	mg/L	-0.00330	0.0462	5.00	27.3	27.4	5.07	4.25 to 5.75	106	70.0 to 130	0.366	20.0
BB07025	Molybdenum, Total	mg/L	0.0000041	0.000147	0.10	0.0992	0.0987	0.0964	0.0850 to 0.115	95.7	70.0 to 130	0.505	20.0
BB07025	Cadmium, Total	mg/L	0.0000084	0.000147	0.10	0.0960	0.0960	0.0978	0.0850 to 0.115	96.0	70.0 to 130	0.00	20.0
BB07025	Cobalt, Total	mg/L	-0.0000080	0.000147	0.10	0.0977	0.0953	0.0995	0.0850 to 0.115	97.7	70.0 to 130	2.49	20.0
BB07025	Lead, Total	mg/L	0.0000015	0.000147	0.10	0.0985	0.0987	0.0970	0.0850 to 0.115	98.5	70.0 to 130	0.203	20.0
BB07025	Selenium, Total	mg/L	0.0000166	0.00100	0.10	0.0996	0.0983	0.0993	0.0850 to 0.115	99.6	70.0 to 130	1.31	20.0
BB07024	Mercury, Total by CVAA	mg/L	0.0000309	0.000500	0.004	0.00378	0.00372	0.00379	0.00340 to 0.00460	94.5	70.0 to 130	1.60	20.0
BB07025	Barium, Total	mg/L	0.0000237	0.000200	0.10	2.43	2.49	0.0964	0.0850 to 0.115	20.0	70.0 to 130	2.44	20.0
BB07025	Sodium, Total	mg/L	0.000402	0.0660	5.00	15.3	15.1	4.89	4.25 to 5.75	110	70.0 to 130	1.32	20.0
BB07025	Antimony, Total	mg/L	0.000154	0.00100	0.10	0.0950	0.0950	0.0912	0.0850 to 0.115	95.0	70.0 to 130	0.00	20.0
BB07025	Thallium, Total	mg/L	-0.0000096	0.000147	0.10	0.0954	0.0953	0.0941	0.0850 to 0.115	95.4	70.0 to 130	0.105	20.0
BB07025	Arsenic, Total	mg/L	0.0000486	0.000147	0.10	0.105	0.104	0.101	0.0850 to 0.115	101	70.0 to 130	0.957	20.0
BB07025	Beryllium, Total	mg/L	0.0000402	0.000880	0.10	0.0959	0.0942	0.0961	0.0850 to 0.115	95.9	70.0 to 130	1.79	20.0
BB07025	Chromium, Total	mg/L	-0.0000009	0.000440	0.10	0.0998	0.0962	0.0993	0.0850 to 0.115	99.8	70.0 to 130	3.67	20.0
BB07025	Iron, Total	mg/L	0.000162	0.0176	0.2	0.445	0.447	0.208	0.170 to 0.230	96.5	70.0 to 130	0.448	20.0
BB07025	Manganese, Total	mg/L	0.0000143	0.000147	0.10	0.105	0.103	0.0982	0.0850 to 0.115	97.8	70.0 to 130	1.92	20.0
BB07025	Lithium, Total	mg/L	-0.0000545	0.0154	0.20	0.224	0.220	0.203	0.170 to 0.230	107	70.0 to 130	1.80	20.0

Comments:

Reported: 5/18/2021
Version: 3.2
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASGEB
Sample Date: 4/13/21 17:05
Customer ID:
Delivery Date: 4/14/21 10:32

Description: Gaston Gypsum Equipment Blank-1

Laboratory ID Number: BB07024

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07025	Fluoride	mg/L	0.0138	0.100	2.50	2.97	0.296	2.57	2.25 to 2.75	107	80.0 to 120	2.05	20.0
BB07025	Chloride	mg/L	-0.0896	1.00	10.0	12.8	2.65	9.93	9.00 to 11.0	103	80.0 to 120	4.24	20.0
BB07025	Sulfate	mg/L	-0.770	1.00	20.0	22.3	4.35	18.5	18.0 to 22.0	89.4	80.0 to 120	1.82	20.0
BB07025	Solids, Dissolved	mg/L	-2.00	25.0			230	54.0	40.0 to 60.0			1.50	5.00

Comments:

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: 4/13/21 17:30
Customer ID:
Submittal Date: 4/14/21 10:33

Laboratory ID Number: BB07025

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/19/21 12:02	4/20/21 13:43		1.015	0.0306	mg/L	0.030000	0.1015	J
* Calcium, Total	4/19/21 12:02	4/20/21 15:05		10.15	44.0	mg/L	0.70035	4.06	
* Iron, Total	4/19/21 12:02	4/20/21 13:43		1.015	0.252	mg/L	0.008120	0.0406	
* Lithium, Total	4/19/21 12:02	4/20/21 13:43		1.015	0.00953	mg/L	0.007105	0.01999956	J
* Magnesium, Total	4/19/21 12:02	4/20/21 13:43		1.015	22.0	mg/L	0.021315	0.406	
* Sodium, Total	4/19/21 12:02	4/20/21 13:43		1.015	9.78	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	4/19/21 13:00	4/21/21 12:34		1.015	0.236	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/15/21 12:15	4/19/21 16:13		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/15/21 12:15	4/19/21 16:13		1.015	0.00427	mg/L	0.000068	0.000203	
* Barium, Total	4/15/21 12:15	4/19/21 16:34		5.075	2.41	mg/L	0.000507	0.001015	RA
* Beryllium, Total	4/15/21 12:15	4/19/21 16:13		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/15/21 12:15	4/19/21 16:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/15/21 12:15	4/19/21 16:13		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/15/21 12:15	4/19/21 16:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/15/21 12:15	4/19/21 16:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/15/21 12:15	4/19/21 16:13		1.015	0.00353	mg/L	0.000068	0.000203	
* Potassium, Total	4/15/21 12:15	4/19/21 16:13		1.015	1.20	mg/L	0.169505	0.5075	
* Manganese, Total	4/15/21 12:15	4/19/21 16:13		1.015	0.00719	mg/L	0.000068	0.000203	
* Selenium, Total	4/15/21 12:15	4/19/21 16:13		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/15/21 12:15	4/19/21 16:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	4/19/21 09:08	4/19/21 14:22		1.015	0.00632	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/22/21 09:14	4/22/21 15:17		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	4/26/21 09:56	4/26/21 10:48		1	220	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/20/21 08:50	4/22/21 13:30		1	237	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 17:30
Customer ID:
Submittal Date: 4/14/21 10:33

Laboratory ID Number: BB07025

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	4/26/21 09:56	4/26/21 10:48		1	219	mg/L			
Carbonate Alkalinity, (calc.)	4/26/21 09:56	4/26/21 10:48		1	1.36	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/15/21 11:37	4/15/21 11:37		1	2.54	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/15/21 13:51	4/15/21 13:51		1	0.290	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/14/21 12:35	4/14/21 12:35		1	4.43	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	4/13/21 17:25	4/13/21 17:25			381.87	uS/cm			FA
pH	4/13/21 17:25	4/13/21 17:25			7.70	SU			FA
Temperature	4/13/21 17:25	4/13/21 17:25			20.34	C			FA
Turbidity	4/13/21 17:25	4/13/21 17:25			0.17	NTU			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.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
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: 4/13/21 17:30
Customer ID:
Delivery Date: 4/14/21 10:33

Description: Gaston Gypsum - MW-1

Laboratory ID Number: BB07025

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07025	Calcium, Total	mg/L	-0.00281	0.152	5.00	48.5	48.3	5.04	4.25 to 5.75	90.0	70.0 to 130	0.413	20.0
BB07025	Boron, Total	mg/L	0.00200	0.0650	1.00	1.07	1.07	1.04	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BB07025	Lithium, Total	mg/L	-0.0000545	0.0154	0.20	0.224	0.220	0.203	0.170 to 0.230	107	70.0 to 130	1.80	20.0
BB07025	Manganese, Dissolved	mg/L	0.0000074	0.000147	0.10	0.104	0.105	0.0998	0.0850 to 0.115	97.7	70.0 to 130	0.957	20.0
BB07025	Potassium, Total	mg/L	0.00408	0.367	10.0	11.3	10.9	10.1	8.50 to 11.5	101	70.0 to 130	3.60	20.0
BB07025	Magnesium, Total	mg/L	-0.00330	0.0462	5.00	27.3	27.4	5.07	4.25 to 5.75	106	70.0 to 130	0.366	20.0
BB07025	Molybdenum, Total	mg/L	0.0000041	0.000147	0.10	0.0992	0.0987	0.0964	0.0850 to 0.115	95.7	70.0 to 130	0.505	20.0
BB07024	Mercury, Total by CVAA	mg/L	0.0000309	0.000500	0.004	0.00378	0.00372	0.00379	0.00340 to 0.00460	94.5	70.0 to 130	1.60	20.0
BB07025	Barium, Total	mg/L	0.0000237	0.000200	0.10	2.43	2.49	0.0964	0.0850 to 0.115	20.0	70.0 to 130	2.44	20.0
BB07025	Sodium, Total	mg/L	0.000402	0.0660	5.00	15.3	15.1	4.89	4.25 to 5.75	110	70.0 to 130	1.32	20.0
BB07025	Antimony, Total	mg/L	0.000154	0.00100	0.10	0.0950	0.0950	0.0912	0.0850 to 0.115	95.0	70.0 to 130	0.00	20.0
BB07025	Thallium, Total	mg/L	-0.0000096	0.000147	0.10	0.0954	0.0953	0.0941	0.0850 to 0.115	95.4	70.0 to 130	0.105	20.0
BB07025	Cadmium, Total	mg/L	0.0000084	0.000147	0.10	0.0960	0.0960	0.0978	0.0850 to 0.115	96.0	70.0 to 130	0.00	20.0
BB07025	Cobalt, Total	mg/L	-0.0000080	0.000147	0.10	0.0977	0.0953	0.0995	0.0850 to 0.115	97.7	70.0 to 130	2.49	20.0
BB07025	Iron, Dissolved	mg/L	0.000123	0.0176	0.2	0.435	0.435	0.205	0.170 to 0.230	99.5	70.0 to 130	0.00	20.0
BB07025	Lead, Total	mg/L	0.0000015	0.000147	0.10	0.0985	0.0987	0.0970	0.0850 to 0.115	98.5	70.0 to 130	0.203	20.0
BB07025	Selenium, Total	mg/L	0.0000166	0.00100	0.10	0.0996	0.0983	0.0993	0.0850 to 0.115	99.6	70.0 to 130	1.31	20.0
BB07025	Arsenic, Total	mg/L	0.0000486	0.000147	0.10	0.105	0.104	0.101	0.0850 to 0.115	101	70.0 to 130	0.957	20.0
BB07025	Beryllium, Total	mg/L	0.0000402	0.000880	0.10	0.0959	0.0942	0.0961	0.0850 to 0.115	95.9	70.0 to 130	1.79	20.0
BB07025	Chromium, Total	mg/L	-0.0000009	0.000440	0.10	0.0998	0.0962	0.0993	0.0850 to 0.115	99.8	70.0 to 130	3.67	20.0
BB07025	Iron, Total	mg/L	0.000162	0.0176	0.2	0.445	0.447	0.208	0.170 to 0.230	96.5	70.0 to 130	0.448	20.0
BB07025	Manganese, Total	mg/L	0.0000143	0.000147	0.10	0.105	0.103	0.0982	0.0850 to 0.115	97.8	70.0 to 130	1.92	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASG
Sample Date: 4/13/21 17:30
Customer ID:
Delivery Date: 4/14/21 10:33

Description: Gaston Gypsum - MW-1

Laboratory ID Number: BB07025

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB07025	Alkalinity, Total as CaCO3	mg/L					224	51.2	45.0 to 55.0			1.80	10.0
BB07025	Fluoride	mg/L	0.0138	0.100	2.50	2.97	0.296	2.57	2.25 to 2.75	107	80.0 to 120	2.05	20.0
BB07025	Chloride	mg/L	-0.0896	1.00	10.0	12.8	2.65	9.93	9.00 to 11.0	103	80.0 to 120	4.24	20.0
BB07025	Sulfate	mg/L	-0.770	1.00	20.0	22.3	4.35	18.5	18.0 to 22.0	89.4	80.0 to 120	1.82	20.0
BB07025	Solids, Dissolved	mg/L	-2.00	25.0			230	54.0	40.0 to 60.0			1.50	5.00

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 5/17/21

Reported: 5/18/2021
Version: 3.2
COA_CCR

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

Definitions

Alabama Power

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

Qualifier	Description
FA	Field results were reviewed by the Water Field Group.
J	Reported value is an estimate because concentration is less than reporting limit.
RA	Matrix spike is invalid due to sample concentration.
U	Compound was analyzed, but not detected.

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☐ Outside Lab
☑ Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jodi Webb	Requested By	Greg Dyer
Collector	Dallas Gentry	Location	Gaston Gypsum

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

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-15	04/13/2021	11:55	6	Groundwater		BB07007
MW-3	04/13/2021	14:16	6	Groundwater		BB07008
FB-2	04/13/2021	14:45	4	Field Blank		BB07009
MW-14S	04/13/2021	15:15	6	Groundwater		BB07010
MW-2	04/13/2021	16:40	6	Groundwater		BB07011

Relinquished By	Received By	Date/Time
Dallas Gentry	Laura Mapp	04/14/2021 08:14

SmarTroll ID	7586-41444-5-3	All metals and radiological bottles have pH < 2	☑
Turbidity ID	3901-20010-2-2	Cooler Temp	1.7 degrees C
Sample Event	1318	Thermometer ID	5408-27568-2-2
		pH Strip ID	8206-45803-10-7

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
Site Representative	Jodi Webb	Requested By	Greg Dyer
Collector	Anthony Goggins	Location	Gaston Gypsum

Bottles

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

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-5	04/13/2021	09:10	6	Groundwater		BB07014
MW-5 Dup	04/13/2021	09:10	6	Sample Duplicate		BB07015
MW-6	04/13/2021	10:10	6	Groundwater		BB07016
MW-7	04/13/2021	12:08	6	Groundwater		BB07017
MW-8	04/13/2021	13:36	6	Groundwater		BB07018
MW-9	04/13/2021	14:45	6	Groundwater		BB07019
MW-9 Dup	04/13/2021	14:45	6	Sample Duplicate		BB07020
FB-1	04/13/2021	15:15	4	Field Blank		BB07021
MW-10	04/13/2021	15:42	6	Groundwater		BB07022
MW-13	04/13/2021	16:45	6	Groundwater		BB07023
EB-1	04/13/2021	17:05	4	Equipment Blank		BB07024
MW-1	04/13/2021	17:30	6	Groundwater		BB07025

Relinquished By	Received By	Date/Time
		04/14/2021 09:10

SmarTroll ID	7586-41445–5-4	All metals and radiological bottles have pH < 2	☑
Turbidity ID	4677-23343-4-2	Cooler Temp	3.5 degrees C
Sample Event	1318	Thermometer ID	6603-34819-1-1
		pH Strip ID	8206-45803-10-7 & 8206-45805-10-9

Bottles/Pre-Preserved Bottles are provided by the GTL

7.1

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☐ Outside Lab
☑ Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jodi Webb	Requested By	Greg Dyer
Collector	TJ Daugherty	Location	Gaston Gypsum

Bottles

1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
2	Diss Metals	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-11	04/13/2021	13:27	6	Groundwater		BB07012
MW-12	04/13/2021	14:30	6	Groundwater		BB07013

Relinquished By	Received By	Date/Time
		04/14/2021 09:14

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2	☑
Turbidity ID	3901-2009-2-1	Cooler Temp	0.5 degrees C
Sample Event	1318	Thermometer ID	5408-27568-2-2
		pH Strip ID	8206-45803-10-7

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
Site Representative	Jodi Webb	Requested By	Greg Dyer
Collector	Dallas Gentry	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-15	04/13/2021	11:55	1	Groundwater		BB07026
MW-3	04/13/2021	14:16	1	Groundwater		BB07027
FB-2	04/13/2021	14:45	1	Field Blank		BB07028
MW-14S	04/13/2021	15:15	1	Groundwater		BB07029
MW-2	04/13/2021	16:40	1	Groundwater		BB07030

Relinquished By	Received By	Date/Time
Dallas Gentry	Lauren Mabry	04/14/2021 08:15

SmarTroll ID	7586-41444-5-3	All metals and radiological bottles have pH < 2	☑
Turbidity ID	3901-20010-2-2	Cooler Temp	N/A
Sample Event	1318	Thermometer ID	N/A
		pH Strip ID	8206-45803-10-7

Bottles/Pre-Preserved Bottles are provided by the GTL

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☑ Lab Complete ☑ Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jodi Webb	Requested By	Greg Dyer
Collector	Anthony Goggins	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	04/13/2021	09:10	1	Groundwater		BB07033
MW-5 Dup	04/13/2021	09:10	1	Sample Duplicate		BB07034
MW-6	04/13/2021	10:10	1	Groundwater		BB07035
MW-7	04/13/2021	12:08	1	Groundwater		BB07036
MW-8	04/13/2021	13:36	1	Groundwater		BB07037
MW-9	04/13/2021	14:45	1	Groundwater		BB07038
MW-9 Dup	04/13/2021	14:45	1	Sample Duplicate		BB07039
FB-1	04/13/2021	15:15	1	Field Blank		BB07040
MW-10	04/13/2021	15:42	1	Groundwater		BB07041
MW-13	04/13/2021	16:45	1	Groundwater		BB07042
EB-1	04/13/2021	17:05	1	Equipment Blank		BB07043
MW-1	04/13/2021	17:30	1	Groundwater		BB07044

Relinquished By	Received By	Date/Time
		04/14/2021 09:08

SmarTroll ID	7586-41445–5-4	All metals and radiological bottles have pH < 2	☑
Turbidity ID	4677-23343-4-2	Cooler Temp	N/A
Sample Event	1318	Thermometer ID	N/A
		pH Strip ID	8206-45803-10-7 & 8206-45805-10-9

Bottles/Pre-Preserved Bottles are provided by the GTL

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☑ Lab Complete ☑ Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jodi Webb	Requested By	Greg Dyer
Collector	TJ Daugherty	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: Rad MS/MSD @ MW-11

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-11	04/13/2021	13:27	3	Groundwater		BB07031
MW-12	04/13/2021	14:30	1	Groundwater		BB07032

Relinquished By	Received By	Date/Time
		04/14/2021 09:14

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2	☑
Turbidity ID	3901-2009-2-1	Cooler Temp	N/A
Sample Event	1318	Thermometer ID	N/A
		pH Strip ID	8206-45803-10-7

Bottles/Pre-Preserved Bottles are provided by the GTL

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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(704)875-9092

June 01, 2021

Laura Midkiff
Alabama Power
744 Highway 87
GSC #8
Calera, AL 35040

RE: Project: GASTON GYPSUM WMWGASG_1318
Pace Project No.: 92535021

Dear Laura Midkiff:

Enclosed are the analytical results for sample(s) received by the laboratory on April 20, 2021. 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,

Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Brooke Caton, Alabama Power
Renee Jernigan, Alabama Power

Pace Analytical Services, LLC
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CERTIFICATIONS

Project: GASTON GYPSUM WMWGASG_1318
Pace Project No.: 92535021

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 #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: GASTON GYPSUM WMWGASG_1318
Pace Project No.: 92535021

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92535021001	**BB07026 MW-15**	Water	04/13/21 11:55	04/20/21 10:20
92535021002	**BB07027 MW-3**	Water	04/13/21 14:16	04/20/21 10:20
92535021003	**BB07028 FB-2**	Water	04/13/21 14:45	04/20/21 10:20
92535021004	**BB07029 MW-14S**	Water	04/13/21 15:15	04/20/21 10:20
92535021005	**BB07030 MW-2**	Water	04/13/21 16:40	04/20/21 10:20
92535021006	**BB07031 MW-11**	Water	04/13/21 13:27	04/20/21 10:20
92535021007	**BB07031 MW-11 MS**	Water	04/13/21 13:27	04/20/21 10:20
92535021008	**BB07031 MW-11 MSD**	Water	04/13/21 13:27	04/20/21 10:20
92535021009	**BB07032 MW-12**	Water	04/13/21 14:30	04/20/21 10:20
92535021010	**BB07033 MW-5**	Water	04/13/21 09:10	04/20/21 10:20
92535021011	**BB07034 MW-5 DUP**	Water	04/13/21 09:10	04/20/21 10:20
92535021012	**BB07035 MW-6**	Water	04/13/21 10:10	04/20/21 10:20
92535021013	**BB07036 MW-7**	Water	04/13/21 12:08	04/20/21 10:20
92535021014	**BB07037 MW-8**	Water	04/13/21 13:36	04/20/21 10:20
92535021015	**BB07038 MW-9**	Water	04/13/21 14:45	04/20/21 10:20
92535021016	**BB07039 MW-9 DUP**	Water	04/13/21 14:45	04/20/21 10:20
92535021017	**BB07040 FB-1**	Water	04/13/21 15:15	04/20/21 10:20
92535021018	**BB07041 MW-10**	Water	04/13/21 15:42	04/20/21 10:20
92535021019	**BB07042 MW-13**	Water	04/13/21 16:45	04/20/21 10:20
92535021020	**BB07043 EB-1**	Water	04/13/21 17:05	04/20/21 10:20
92535021021	**BB07044 MW-1**	Water	04/13/21 17:30	04/20/21 10:20

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SAMPLE ANALYTE COUNT

Project: GASTON GYPSUM WMWGASG_1318
Pace Project No.: 92535021

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92535021001	**BB07026 MW-15**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92535021002	**BB07027 MW-3**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92535021003	**BB07028 FB-2**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92535021004	**BB07029 MW-14S**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92535021005	**BB07030 MW-2**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92535021006	**BB07031 MW-11**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92535021007	**BB07031 MW-11 MS**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92535021008	**BB07031 MW-11 MSD**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92535021009	**BB07032 MW-12**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92535021010	**BB07033 MW-5**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92535021011	**BB07034 MW-5 DUP**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92535021012	**BB07035 MW-6**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92535021013	**BB07036 MW-7**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: GASTON GYPSUM WMWGASG_1318
Pace Project No.: 92535021

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92535021014	**BB07037 MW-8**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92535021015	**BB07038 MW-9**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92535021016	**BB07039 MW-9 DUP**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92535021017	**BB07040 FB-1**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92535021018	**BB07041 MW-10**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92535021019	**BB07042 MW-13**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92535021020	**BB07043 EB-1**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92535021021	**BB07044 MW-1**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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PROJECT NARRATIVE

Project: GASTON GYPSUM WMWGASG_1318
Pace Project No.: 92535021

Method: **EPA 9315**
Description: 9315 Total Radium
Client: Alabama Power
Date: June 01, 2021

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
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(704)875-9092

PROJECT NARRATIVE

Project: GASTON GYPSUM WMWGASG_1318
Pace Project No.: 92535021

Method: **EPA 9320**
Description: 9320 Radium 228
Client: Alabama Power
Date: June 01, 2021

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
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PROJECT NARRATIVE

Project: GASTON GYPSUM WMWGASG_1318
Pace Project No.: 92535021

Method: **Total Radium Calculation**
Description: Total Radium 228+226
Client: Alabama Power
Date: June 01, 2021

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.

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON GYPSUM WMWGASG_1318
Pace Project No.: 92535021

Sample: BB07026 MW-15 **Lab ID: 92535021001** Collected: 04/13/21 11:55 Received: 04/20/21 10:20 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	**0.0324U ± 0.131 (0.339) C:96% T:NA**	pCi/L	05/21/21 07:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.420U ± 0.338 (0.668) C:71% T:91%**	pCi/L	05/26/21 11:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.452U ± 0.469 (1.01)**	pCi/L	05/28/21 13:51	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON GYPSUM WMWGASG_1318
Pace Project No.: 92535021

Sample: BB07027 MW-3 **Lab ID: 92535021002** Collected: 04/13/21 14:16 Received: 04/20/21 10:20 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	**0.230U ± 0.211 (0.393) C:95% T:NA**	pCi/L	05/21/21 07:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.422U ± 0.403 (0.819) C:66% T:80%**	pCi/L	05/26/21 11:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.652U ± 0.614 (1.21)**	pCi/L	05/28/21 13:51	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON GYPSUM WMWGASG_1318
Pace Project No.: 92535021

Sample: BB07028 FB-2 **Lab ID: 92535021003** Collected: 04/13/21 14:45 Received: 04/20/21 10:20 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	**-0.0100U ± 0.115 (0.339) C:94% T:NA**	pCi/L	05/21/21 07:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.254U ± 0.309 (0.776) C:67% T:91%**	pCi/L	05/26/21 11:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.000U ± 0.424 (1.12)**	pCi/L	05/28/21 13:51	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON GYPSUM WMWGASG_1318
Pace Project No.: 92535021

Sample: BB07029 MW-14S **Lab ID: 92535021004** Collected: 04/13/21 15:15 Received: 04/20/21 10:20 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	**0.107U ± 0.166 (0.360) C:89% T:NA**	pCi/L	05/21/21 07:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.681U ± 0.419 (0.786) C:67% T:90%**	pCi/L	05/26/21 11:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.788U ± 0.585 (1.15)**	pCi/L	05/28/21 13:51	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON GYPSUM WMWGASG_1318
Pace Project No.: 92535021

Sample: BB07030 MW-2 **Lab ID: 92535021005** Collected: 04/13/21 16:40 Received: 04/20/21 10:20 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	**-0.0985U ± 0.0616 (0.331) C:93% T:NA**	pCi/L	05/21/21 07:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.258U ± 0.372 (0.800) C:68% T:91%**	pCi/L	05/26/21 11:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.258U ± 0.434 (1.13)**	pCi/L	05/28/21 13:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON GYPSUM WMWGASG_1318
Pace Project No.: 92535021

Sample: BB07031 MW-11 **Lab ID: 92535021006** Collected: 04/13/21 13:27 Received: 04/20/21 10:20 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	**0.163U ± 0.180 (0.351) C:93% T:NA**	pCi/L	05/21/21 07:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.426U ± 0.355 (0.709) C:71% T:90%**	pCi/L	05/26/21 11:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.589U ± 0.535 (1.06)**	pCi/L	05/28/21 13:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON GYPSUM WMWGASG_1318
Pace Project No.: 92535021

Sample: BB07031 MW-11 MS **Lab ID: 92535021007** Collected: 04/13/21 13:27 Received: 04/20/21 10:20 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	**102.46 %REC ± NA (NA) C:NA T:NA**	pCi/L	05/21/21 07:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**118.95 %REC ± NA (NA) C:NA T:NA**	pCi/L	05/26/21 11:19	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON GYPSUM WMWGASG_1318
Pace Project No.: 92535021

Sample: BB07031 MW-11 MSD **Lab ID: 92535021008** Collected: 04/13/21 13:27 Received: 04/20/21 10:20 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	**100.12 %REC 2.31RPD ± NA (NA) C:NA T:NA**	pCi/L	05/21/21 07:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**104.90 %REC 12.55 RPD ± NA (NA) C:NA T:NA**	pCi/L	05/26/21 11:20	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON GYPSUM WMWGASG_1318
Pace Project No.: 92535021

Sample: BB07032 MW-12 **Lab ID: 92535021009** Collected: 04/13/21 14:30 Received: 04/20/21 10:20 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	**0.0777U ± 0.145 (0.331) C:91% T:NA**	pCi/L	05/21/21 07:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.514U ± 0.334 (0.624) C:69% T:96%**	pCi/L	05/26/21 11:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.592U ± 0.479 (0.955)**	pCi/L	05/28/21 13:51	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON GYPSUM WMWGASG_1318
Pace Project No.: 92535021

Sample: BB07033 MW-5 **Lab ID: 92535021010** Collected: 04/13/21 09:10 Received: 04/20/21 10:20 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	**0.200U ± 0.185 (0.329) C:92% T:NA**	pCi/L	05/21/21 07:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.234U ± 0.329 (0.704) C:67% T:89%**	pCi/L	05/26/21 11:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.434U ± 0.514 (1.03)**	pCi/L	05/28/21 13:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON GYPSUM WMWGASG_1318
Pace Project No.: 92535021

Sample: BB07034 MW-5 DUP **Lab ID: 92535021011** Collected: 04/13/21 09:10 Received: 04/20/21 10:20 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	**0.0951U ± 0.180 (0.414) C:95% T:NA**	pCi/L	05/21/21 07:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.297U ± 0.343 (0.720) C:68% T:93%**	pCi/L	05/26/21 11:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.392U ± 0.523 (1.13)**	pCi/L	05/28/21 13:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON GYPSUM WMWGASG_1318
Pace Project No.: 92535021

Sample: BB07035 MW-6 **Lab ID: 92535021012** Collected: 04/13/21 10:10 Received: 04/20/21 10:20 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	**0.141U ± 0.190 (0.405) C:96% T:NA**	pCi/L	05/21/21 07:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.470U ± 0.354 (0.693) C:69% T:92%**	pCi/L	05/26/21 11:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.611U ± 0.544 (1.10)**	pCi/L	05/28/21 13:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON GYPSUM WMWGASG_1318
Pace Project No.: 92535021

Sample: BB07036 MW-7 **Lab ID: 92535021013** Collected: 04/13/21 12:08 Received: 04/20/21 10:20 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	**-0.00905U ± 0.103 (0.311) C:89% T:NA**	pCi/L	05/21/21 07:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.492U ± 0.319 (0.591) C:70% T:93%**	pCi/L	05/26/21 11:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.492U ± 0.422 (0.902)**	pCi/L	05/28/21 13:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON GYPSUM WMWGASG_1318
Pace Project No.: 92535021

Sample: BB07037 MW-8 **Lab ID: 92535021014** Collected: 04/13/21 13:36 Received: 04/20/21 10:20 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	**0.212U ± 0.196 (0.348) C:81% T:NA**	pCi/L	05/21/21 07:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.179U ± 0.298 (0.649) C:68% T:97%**	pCi/L	05/26/21 11:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.391U ± 0.494 (0.997)**	pCi/L	05/28/21 13:51	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON GYPSUM WMWGASG_1318
Pace Project No.: 92535021

Sample: BB07038 MW-9 **Lab ID: 92535021015** Collected: 04/13/21 14:45 Received: 04/20/21 10:20 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	**0.246U ± 0.240 (0.473) C:91% T:NA**	pCi/L	05/21/21 07:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.346U ± 0.338 (0.693) C:66% T:93%**	pCi/L	05/26/21 11:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.592U ± 0.578 (1.17)**	pCi/L	05/28/21 13:51	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON GYPSUM WMWGASG_1318
Pace Project No.: 92535021

Sample: BB07039 MW-9 DUP **Lab ID: 92535021016** Collected: 04/13/21 14:45 Received: 04/20/21 10:20 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	**0.151U ± 0.176 (0.352) C:87% T:NA**	pCi/L	05/21/21 07:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.233U ± 0.323 (0.692) C:69% T:94%**	pCi/L	05/26/21 11:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.384U ± 0.499 (1.04)**	pCi/L	05/28/21 13:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON GYPSUM WMWGASG_1318
Pace Project No.: 92535021

Sample: BB07040 FB-1 **Lab ID: 92535021017** Collected: 04/13/21 15:15 Received: 04/20/21 10:20 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	**0.283U ± 0.224 (0.380) C:85% T:NA**	pCi/L	05/21/21 07:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.101U ± 0.270 (0.607) C:71% T:97%**	pCi/L	05/26/21 11:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.384U ± 0.494 (0.987)**	pCi/L	05/28/21 13:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON GYPSUM WMWGASG_1318
Pace Project No.: 92535021

Sample: BB07041 MW-10 **Lab ID: 92535021018** Collected: 04/13/21 15:42 Received: 04/20/21 10:20 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	**0.289U ± 0.221 (0.373) C:92% T:NA**	pCi/L	05/21/21 07:53	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.242U ± 0.331 (0.709) C:68% T:94%**	pCi/L	05/26/21 11:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.531U ± 0.552 (1.08)**	pCi/L	05/28/21 13:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON GYPSUM WMWGASG_1318
Pace Project No.: 92535021

Sample: BB07042 MW-13 **Lab ID: 92535021019** Collected: 04/13/21 16:45 Received: 04/20/21 10:20 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	**0.0445U ± 0.176 (0.441) C:95% T:NA**	pCi/L	05/21/21 08:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.622U ± 0.364 (0.654) C:68% T:91%**	pCi/L	05/26/21 11:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.667U ± 0.540 (1.10)**	pCi/L	05/28/21 13:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON GYPSUM WMWGASG_1318
Pace Project No.: 92535021

Sample: BB07043 EB-1 **Lab ID: 92535021020** Collected: 04/13/21 17:05 Received: 04/20/21 10:20 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	**0.147U ± 0.179 (0.360) C:92% T:NA**	pCi/L	05/21/21 08:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.817 ± 0.383 (0.635) C:74% T:91%**	pCi/L	05/26/21 11:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.964U ± 0.562 (0.995)**	pCi/L	05/28/21 13:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON GYPSUM WMWGASG_1318
Pace Project No.: 92535021

Sample: BB07044 MW-1 **Lab ID: 92535021021** Collected: 04/13/21 17:30 Received: 04/20/21 10:20 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	**0.615 ± 0.298 (0.356) C:89% T:NA**	pCi/L	05/21/21 08:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.294U ± 0.312 (0.648) C:73% T:91%**	pCi/L	05/27/21 12:02	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.909U ± 0.610 (1.00)**	pCi/L	05/28/21 13:51	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GASTON GYPSUM WMWGASG_1318
Pace Project No.: 92535021

QC Batch: 446124 | Analysis Method: EPA 9320
QC Batch Method: EPA 9320 | Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92535021001, 92535021002, 92535021003, 92535021004, 92535021005, 92535021006, 92535021007, 92535021008, 92535021009, 92535021010, 92535021011, 92535021012, 92535021013, 92535021014, 92535021015, 92535021016, 92535021017, 92535021018, 92535021019, 92535021020

METHOD BLANK: 2153196 Matrix: Water

Associated Lab Samples: 92535021001, 92535021002, 92535021003, 92535021004, 92535021005, 92535021006, 92535021007, 92535021008, 92535021009, 92535021010, 92535021011, 92535021012, 92535021013, 92535021014, 92535021015, 92535021016, 92535021017, 92535021018, 92535021019, 92535021020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.823 ± 0.389 (0.655) C:72% T:88%	pCi/L	05/26/21 11:27	

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.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GASTON GYPSUM WMWGASG_1318
Pace Project No.: 92535021

QC Batch: 446125
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92535021021

METHOD BLANK: 2153199
Matrix: Water
Associated Lab Samples: 92535021021

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.606 ± 0.372 (0.689) C:68% T:90%	pCi/L	05/27/21 12:02	

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
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL - RADIOCHEMISTRY

Project: GASTON GYPSUM WMWGASG_1318
Pace Project No.: 92535021

QC Batch: 445338
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92535021021

METHOD BLANK: 2149724
Matrix: Water
Associated Lab Samples: 92535021021

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.353 ± 0.229 (0.323) C:91% T:NA	pCi/L	05/21/21 08:41	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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QUALITY CONTROL - RADIOCHEMISTRY

Project: GASTON GYPSUM WMWGASG_1318
Pace Project No.: 92535021

QC Batch: 445336 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92535021001, 92535021002, 92535021003, 92535021004, 92535021005, 92535021006, 92535021007, 92535021008, 92535021009, 92535021010, 92535021011, 92535021012, 92535021013, 92535021014, 92535021015, 92535021016, 92535021017, 92535021018, 92535021019, 92535021020

METHOD BLANK: 2149723 Matrix: Water

Associated Lab Samples: 92535021001, 92535021002, 92535021003, 92535021004, 92535021005, 92535021006, 92535021007, 92535021008, 92535021009, 92535021010, 92535021011, 92535021012, 92535021013, 92535021014, 92535021015, 92535021016, 92535021017, 92535021018, 92535021019, 92535021020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0113 ± 0.155 (0.429) C:98% T:NA	pCi/L	05/21/21 07:15	

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
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
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QUALIFIERS

Project: GASTON GYPSUM WMWGASG_1318
Pace Project No.: 92535021

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(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
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GASTON GYPSUM WMWGASG_1318
Pace Project No.: 92535021

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92535021001	**BB07026 MW-15**	EPA 9315	445336		
92535021002	**BB07027 MW-3**	EPA 9315	445336		
92535021003	**BB07028 FB-2**	EPA 9315	445336		
92535021004	**BB07029 MW-14S**	EPA 9315	445336		
92535021005	**BB07030 MW-2**	EPA 9315	445336		
92535021006	**BB07031 MW-11**	EPA 9315	445336		
92535021007	**BB07031 MW-11 MS**	EPA 9315	445336		
92535021008	**BB07031 MW-11 MSD**	EPA 9315	445336		
92535021009	**BB07032 MW-12**	EPA 9315	445336		
92535021010	**BB07033 MW-5**	EPA 9315	445336		
92535021011	**BB07034 MW-5 DUP**	EPA 9315	445336		
92535021012	**BB07035 MW-6**	EPA 9315	445336		
92535021013	**BB07036 MW-7**	EPA 9315	445336		
92535021014	**BB07037 MW-8**	EPA 9315	445336		
92535021015	**BB07038 MW-9**	EPA 9315	445336		
92535021016	**BB07039 MW-9 DUP**	EPA 9315	445336		
92535021017	**BB07040 FB-1**	EPA 9315	445336		
92535021018	**BB07041 MW-10**	EPA 9315	445336		
92535021019	**BB07042 MW-13**	EPA 9315	445336		
92535021020	**BB07043 EB-1**	EPA 9315	445336		
92535021021	**BB07044 MW-1**	EPA 9315	445338		
92535021001	**BB07026 MW-15**	EPA 9320	446124		
92535021002	**BB07027 MW-3**	EPA 9320	446124		
92535021003	**BB07028 FB-2**	EPA 9320	446124		
92535021004	**BB07029 MW-14S**	EPA 9320	446124		
92535021005	**BB07030 MW-2**	EPA 9320	446124		
92535021006	**BB07031 MW-11**	EPA 9320	446124		
92535021007	**BB07031 MW-11 MS**	EPA 9320	446124		
92535021008	**BB07031 MW-11 MSD**	EPA 9320	446124		
92535021009	**BB07032 MW-12**	EPA 9320	446124		
92535021010	**BB07033 MW-5**	EPA 9320	446124		
92535021011	**BB07034 MW-5 DUP**	EPA 9320	446124		
92535021012	**BB07035 MW-6**	EPA 9320	446124		
92535021013	**BB07036 MW-7**	EPA 9320	446124		
92535021014	**BB07037 MW-8**	EPA 9320	446124		
92535021015	**BB07038 MW-9**	EPA 9320	446124		
92535021016	**BB07039 MW-9 DUP**	EPA 9320	446124		
92535021017	**BB07040 FB-1**	EPA 9320	446124		
92535021018	**BB07041 MW-10**	EPA 9320	446124		
92535021019	**BB07042 MW-13**	EPA 9320	446124		
92535021020	**BB07043 EB-1**	EPA 9320	446124		
92535021021	**BB07044 MW-1**	EPA 9320	446125		
92535021001	**BB07026 MW-15**	Total Radium Calculation	450154		
92535021002	**BB07027 MW-3**	Total Radium Calculation	450154		
92535021003	**BB07028 FB-2**	Total Radium Calculation	450154		
92535021004	**BB07029 MW-14S**	Total Radium Calculation	450154		
92535021005	**BB07030 MW-2**	Total Radium Calculation	450154		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GASTON GYPSUM WMWGASG_1318
Pace Project No.: 92535021

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92535021006	**BB07031 MW-11**	Total Radium Calculation	450154		
92535021009	**BB07032 MW-12**	Total Radium Calculation	450154		
92535021010	**BB07033 MW-5**	Total Radium Calculation	450154		
92535021011	**BB07034 MW-5 DUP**	Total Radium Calculation	450154		
92535021012	**BB07035 MW-6**	Total Radium Calculation	450154		
92535021013	**BB07036 MW-7**	Total Radium Calculation	450154		
92535021014	**BB07037 MW-8**	Total Radium Calculation	450154		
92535021015	**BB07038 MW-9**	Total Radium Calculation	450154		
92535021016	**BB07039 MW-9 DUP**	Total Radium Calculation	450154		
92535021017	**BB07040 FB-1**	Total Radium Calculation	450154		
92535021018	**BB07041 MW-10**	Total Radium Calculation	450154		
92535021019	**BB07042 MW-13**	Total Radium Calculation	450154		
92535021020	**BB07043 EB-1**	Total Radium Calculation	450154		
92535021021	**BB07044 MW-1**	Total Radium Calculation	450154		

WO#: 92535021

92535021

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical — Client Name: Alabama Power Co.

LIMS Login

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other ______

Tracking #: 9551 0670 2953

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Thermometer Used: — 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# 10D1101

Date and Initials of person examining contents: 4-23-21 JA

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.
Sample Labels match COC:	✓			5.
-Includes date/time/ID Matrix: GW				
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:	✓			10.
-Pace Containers Used:	✓			
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.
All containers meet method preservation requirements.	✓			Initial when completed / 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: JA Date: 4-23-21 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.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 3

Section A — Required Client Information:

Company:	Alabama Power Company
Address:	744 Highway 87 GSC Bldg #8 Calera, AL 35040
Email To:	lbmidkif@southernco.com
Phone:	205-664-6197 Fax
Requested Due Date:	28 days

Section B — Required Project Information:

Report To:	Laura Midkiff
Copy To:	Brooke Caton & Renee Jernigan
Purchase Order #:	APC57570-0001
Project Name:	Plant Gaston Gypsum
Project Number:	WMWGASG_1318

Section C — Invoice Information:

Attention:	Laura Midkiff
Company Name:	Alabama Power Co.
Address:	744 Highway 87 GSC Bldg #8
Pace Quote:	CCR
Pace Project Manager:	Kevin.Herring@pacelabs.com
Pace Profile #:	13805

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)		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	EPA 9315	EPA 9320	Total Radium Sum	Matrix Spike/Matrix Spike D	Residual Chlorine (Y/N)
1	BB07026	MW-15	GW	G			4/13/2021	11:55		1			X							X	X	X		
2	BB07027	MW-3	GW	G			4/13/2021	14:16		1			X							X	X	X		
3	BB07028	FB-2	GW	G			4/13/2021	14:45		1			X							X	X	X		
4	BB07029	MW-14S	GW	G			4/13/2021	15:15		1			X							X	X	X		
5	BB07030	MW-2	GW	G			4/13/2021	16:40		1			X							X	X	X		
6																								
7																								
8																								
9																								
10																								
11																								
12																								

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Laura Midkiff/ APC GTL	4/14/2021	14:20	Jimmy Adkerson	4-20-21	10:20	—	N	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 2 Of 3

Section A
Required Client Information:

Company:	Alabama Power Company
Address:	744 Highway 87 GSC Bldg #8
	Calera, AL 35040
Email To:	lbmidkif@southernco.com
Phone:	205-664-6197 Fax
Requested Due Date:	28 days

Section B
Required Project Information:

Report To:	Laura Midkiff
Copy To:	Brooke Caton & Renee Jernigan
Purchase Order #:	APC57570-0001
Project Name:	Plant Gaston Gypsum
Project Number:	WMWGASG_1318

Section C
Invoice Information:

Attention:	Laura Midkiff
Company Name:	Alabama Power Co.
Address:	744 Highway 87 GSC Bldg #8
Pace Quote:	CCR
Pace Project Manager:	Kevin.Herring@pacelabs.com
Pace Profile #:	13805

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)		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	EPA 9315	EPA 9320	Total Radium Sum	Matrix Spike/Matrix Spike D	Residual Chlorine (Y/N)
1	BB07031	MW-11	GW	G			4/13/2021	13:27		3			X							X	X	X	X	
2	BB07032	MW-12	GW	G			4/13/2021	14:30		1			X							X	X	X		
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Laura Midkiff/ APC GTL	4/14/2021	14:20	Jimmy Alderson	4-20-21	10:20	~	N	Y	Y

SAMPLER NAME AND SIGNATURE				
PRINT Name of SAMPLER:				
SIGNATURE of SAMPLER:	DATE Signed:	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 3 Of 3

Section A — Required Client Information:

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Pace Project Manager:	Kevin.Herring@pacelabs.com
Pace Profile #:	13805

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)		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	EPA 9315	EPA 9320	Total Radium Sum	Matrix Spike/Matrix Spike D	Residual Chlorine (Y/N)
1	BB07033	MW-5	GW	G			4/13/2021	9:10		1			X							X	X	X		
2	BB07034	MW-5 DUP	GW	G			4/13/2021	9:10		1			X							X	X	X		
3	BB07035	MW-6	GW	G			4/13/2021	10:10		1			X							X	X	X		
4	BB07036	MW-7	GW	G			4/13/2021	12:08		1			X							X	X	X		
5	BB07037	MW-8	GW	G			4/13/2021	13:36		1			X							X	X	X		
6	BB07038	MW-9	GW	G			4/13/2021	14:45		1			X							X	X	X		
7	BB07039	MW-9 DUP	GW	G			4/13/2021	14:45		1			X							X	X	X		
8	BB07040	FB-1	GW	G			4/13/2021	15:15		1			X							X	X	X		
9	BB07041	MW-10	GW	G			4/13/2021	15:42		1			X							X	X	X		
10	BB07042	MW-13	GW	G			4/13/2021	16:45		1			X							X	X	X		
11	BB07043	FB-1	GW	G			4/13/2021	17:05		1			X							X	X	X		
12	BB07044	MW-1	GW	G			4/13/2021	17:30		1			X							X	X	X		

Matrix codes: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Laura Midkiff/ APC GTL	4/14/2021	14:20	Jimmy Andregar	4-2021	10:20	—	N	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-226
Analyst:	LAL
Date:	4/29/2021
Worklist:	60186
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2149723
MB concentration:	-0.011
M/B Counting Uncertainty:	0.155
MB MDC:	0.429
MB Numerical Performance Indicator:	-0.14
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS60186	LCSD60186
Count Date:	5/21/2021	5/21/2021
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.037	24.037
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.236	0.236
Target Conc. (pCi/L, g, F):	10.169	10.195
Uncertainty (Calculated):	0.122	0.122
Result (pCi/L, g, F):	10.191	11.547
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.977	1.030
Numerical Performance Indicator:	0.04	2.55
Percent Recovery:	100.22%	113.26%
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:	4/13/2021	
Sample I.D.	92535021006	
Sample MS I.D.	92535021007	
Sample MSD I.D.	92535021008	
Spike I.D.:	19-033	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.038	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.219	
MS Target Conc.(pCi/L, g, F):	21.920	
MSD Aliquot (L, g, F):	0.212	
MSD Target Conc. (pCi/L, g, F):	22.669	
MS Spike Uncertainty (calculated):	0.263	
MSD Spike Uncertainty (calculated):	0.272	
Sample Result:	0.163	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.178	
Sample Matrix Spike Result:	22.621	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.520	
Sample Matrix Spike Duplicate Result:	22.859	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.600	
MS Numerical Performance Indicator:	0.680	
MSD Numerical Performance Indicator:	0.033	
MS Percent Recovery:	102.46%	
MSD Percent Recovery:	100.12%	
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.:	LCS60186	
Duplicate Sample I.D.	LCSD60186	
Sample Result (pCi/L, g, F):	10.191	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.977	
Sample Duplicate Result (pCi/L, g, F):	11.547	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.030	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-1.871	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	12.22%	
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.	92535021006	
Sample MS I.D.	92535021007	
Sample MSD I.D.	92535021008	
Sample Matrix Spike Result:	22.621	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.520	
Sample Matrix Spike Duplicate Result:	22.859	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.600	
Duplicate Numerical Performance Indicator:	-0.212	
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	2.31%	
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:

5/21/21

LAMS 5/21/21

Quality Control Sample Performance Assessment

Pace Analytical™
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Test:	Ra-226
Analyst:	LAL
Date:	4/29/2021
Worklist:	60187
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2149724
MB concentration:	0.353
M/B Counting Uncertainty:	0.224
MB MDC:	0.323
MB Numerical Performance Indicator:	3.09
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS60187	LCSD60187
Count Date:	5/21/2021	5/21/2021
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.037	24.037
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.204	0.200
Target Conc. (pCi/L, g, F):	11.784	12.015
Uncertainty (Calculated):	0.141	0.144
Result (pCi/L, g, F):	11.501	12.143
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	1.148	1.204
Numerical Performance Indicator:	-0.48	0.21
Percent Recovery:	97.60%	101.06%
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:	4/5/2021	
Sample I.D.	92534960011	
Sample MS I.D.	92534960012	
Sample MSD I.D.	92534960013	
Spike I.D.:	19-033	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.039	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.237	
MS Target Conc.(pCi/L, g, F):	20.324	
MSD Aliquot (L, g, F):	0.219	
MSD Target Conc. (pCi/L, g, F):	21.949	
MS Spike Uncertainty (calculated):	0.244	
MSD Spike Uncertainty (calculated):	0.263	
Sample Result:	5.612	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.805	
Sample Matrix Spike Result:	27.713	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.695	
Sample Matrix Spike Duplicate Result:	28.234	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.803	
MS Numerical Performance Indicator:	1.841	
MSD Numerical Performance Indicator:	0.662	
MS Percent Recovery:	108.75%	
MSD Percent Recovery:	103.06%	
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.:	LCS60187	
Duplicate Sample I.D.	LCSD60187	
Sample Result (pCi/L, g, F):	11.501	
Sample Result Counting Uncertainty (pCi/L, g, F):	1.148	
Sample Duplicate Result (pCi/L, g, F):	12.143	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.204	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.756	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.48%	
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.	92534960011	
Sample MS I.D.	92534960012	
Sample MSD I.D.	92534960013	
Sample Matrix Spike Result:	27.713	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.695	
Sample Matrix Spike Duplicate Result:	28.234	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.803	
Duplicate Numerical Performance Indicator:	-0.412	
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	5.37%	
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:
*The method blank result is below the reporting limit for this analysis and is acceptable.

CW 5/21/21

LAM 5/21/21

Quality Control Sample Performance Assessment

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Test:	Ra-228
Analyst:	VAL
Date:	5/24/2021
Worklist:	60305
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2153196
MB concentration:	0.823
M/B 2 Sigma CSU:	0.389
MB MDC:	0.655
MB Numerical Performance Indicator:	4.14
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS60305	LCSD60305
Count Date:	5/26/2021	
Spike I.D.:	21-003	
Decay Corrected Spike Concentration (pCi/mL):	37.555	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.810	
Target Conc. (pCi/L, g, F):	4.634	
Uncertainty (Calculated):	0.227	
Result (pCi/L, g, F):	4.951	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.078	
Numerical Performance Indicator:	0.56	
Percent Recovery:	106.84%	
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:	4/13/2021	
Sample I.D.	92535021006	
Sample MS I.D.	92535021007	
Sample MSD I.D.	92535021008	
Spike I.D.:	21-003	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	38.091	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.808	
MS Target Conc.(pCi/L, g, F):	9.423	
MSD Aliquot (L, g, F):	0.813	
MSD Target Conc. (pCi/L, g, F):	9.374	
MS Spike Uncertainty (calculated):	0.462	
MSD Spike Uncertainty (calculated):	0.459	
Sample Result:	0.426	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.355	
Sample Matrix Spike Result:	11.635	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	2.293	
Sample Matrix Spike Duplicate Result:	10.260	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	2.033	
MS Numerical Performance Indicator:	1.480	
MSD Numerical Performance Indicator:	0.426	
MS Percent Recovery:	118.95%	
MSD Percent Recovery:	104.90%	
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.	92535021006	
Sample MS I.D.	92535021007	
Sample MSD I.D.	92535021008	
Sample Matrix Spike Result:	11.635	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	2.293	
Sample Matrix Spike Duplicate Result:	10.260	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	2.033	
Duplicate Numerical Performance Indicator:	0.879	
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	12.55%	
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:
*The method blank result is below the reporting limit for this analysis and is acceptable.

CHE 5/27/21

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	VAL
Date:	5/24/2021
Worklist:	60306
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2153199
MB concentration:	0.606
M/B 2 Sigma CSU:	0.372
MB MDC:	0.689
MB Numerical Performance Indicator:	3.19
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS60306	LCSD60306
Count Date:	5/27/2021	
Spike I.D.:	21-003	
Decay Corrected Spike Concentration (pCi/mL):	37.542	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.815	
Target Conc. (pCi/L, g, F):	4.604	
Uncertainty (Calculated):	0.226	
Result (pCi/L, g, F):	4.885	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.107	
Numerical Performance Indicator:	0.49	
Percent Recovery:	106.11%	
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:	4/5/2021	
Sample I.D.	92534960011	
Sample MS I.D.	92534960012	
Sample MSD I.D.	92534960013	
Spike I.D.:	21-003	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	38.190	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.823	
MS Target Conc.(pCi/L, g, F):	9.278	
MSD Aliquot (L, g, F):	0.815	
MSD Target Conc. (pCi/L, g, F):	9.373	
MS Spike Uncertainty (calculated):	0.455	
MSD Spike Uncertainty (calculated):	0.459	
Sample Result:	1.030	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.492	
Sample Matrix Spike Result:	12.657	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	2.501	
Sample Matrix Spike Duplicate Result:	9.815	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.979	
MS Numerical Performance Indicator:	1.778	
MSD Numerical Performance Indicator:	-0.552	
MS Percent Recovery:	125.32%	
MSD Percent Recovery:	93.72%	
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.	92534960011	
Sample MS I.D.	92534960012	
Sample MSD I.D.	92534960013	
Sample Matrix Spike Result:	12.657	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	2.501	
Sample Matrix Spike Duplicate Result:	9.815	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.979	
Duplicate Numerical Performance Indicator:	1.747	
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	28.86%	
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.~~

MB activity < MDC

5/28/21

5/28/21

Alabama Power Company
Plant Gaston Gypsum Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-GSA-MW-2	4/13/2021 16:17	Conductivity	537.67	uS/cm
GN-GSA-MW-2	4/13/2021 16:17	DO	1.8	mg/L
GN-GSA-MW-2	4/13/2021 16:17	Depth to Water Detail	17.28	ft
GN-GSA-MW-2	4/13/2021 16:17	Oxidation Reduction Potention	38.52	mv
GN-GSA-MW-2	4/13/2021 16:17	pH	7.02	SU
GN-GSA-MW-2	4/13/2021 16:17	Temperature	22.17	C
GN-GSA-MW-2	4/13/2021 16:17	Turbidity	1.29	NTU
GN-GSA-MW-2	4/13/2021 16:22	Conductivity	526.82	uS/cm
GN-GSA-MW-2	4/13/2021 16:22	DO	2.53	mg/L
GN-GSA-MW-2	4/13/2021 16:22	Depth to Water Detail	17.74	ft
GN-GSA-MW-2	4/13/2021 16:22	Oxidation Reduction Potention	47.41	mv
GN-GSA-MW-2	4/13/2021 16:22	pH	6.92	SU
GN-GSA-MW-2	4/13/2021 16:22	Temperature	21.86	C
GN-GSA-MW-2	4/13/2021 16:22	Turbidity	0.94	NTU
GN-GSA-MW-2	4/13/2021 16:27	Conductivity	511.22	uS/cm
GN-GSA-MW-2	4/13/2021 16:27	DO	2.8	mg/L
GN-GSA-MW-2	4/13/2021 16:27	Depth to Water Detail	18.04	ft
GN-GSA-MW-2	4/13/2021 16:27	Oxidation Reduction Potention	55.92	mv
GN-GSA-MW-2	4/13/2021 16:27	pH	6.89	SU
GN-GSA-MW-2	4/13/2021 16:27	Temperature	21.7	C
GN-GSA-MW-2	4/13/2021 16:27	Turbidity	0.76	NTU
GN-GSA-MW-2	4/13/2021 16:32	Conductivity	503.66	uS/cm
GN-GSA-MW-2	4/13/2021 16:32	DO	2.8	mg/L
GN-GSA-MW-2	4/13/2021 16:32	Depth to Water Detail	18.19	ft
GN-GSA-MW-2	4/13/2021 16:32	Oxidation Reduction Potention	60.97	mv
GN-GSA-MW-2	4/13/2021 16:32	pH	6.92	SU
GN-GSA-MW-2	4/13/2021 16:32	Temperature	21.7	C
GN-GSA-MW-2	4/13/2021 16:32	Turbidity	0.78	NTU
GN-GSA-MW-2	4/13/2021 16:37	Conductivity	503.86	uS/cm
GN-GSA-MW-2	4/13/2021 16:37	DO	2.77	mg/L
GN-GSA-MW-2	4/13/2021 16:37	Depth to Water Detail	18.3	ft
GN-GSA-MW-2	4/13/2021 16:37	Oxidation Reduction Potention	60.52	mv
GN-GSA-MW-2	4/13/2021 16:37	pH	6.94	SU
GN-GSA-MW-2	4/13/2021 16:37	Temperature	21.6	C
GN-GSA-MW-2	4/13/2021 16:37	Turbidity	0.72	NTU

Alabama Power Company
Plant Gaston Gypsum Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-GSA-MW-3	4/13/2021 12:58	Conductivity	267.38	uS/cm
GN-GSA-MW-3	4/13/2021 12:58	DO	1	mg/L
GN-GSA-MW-3	4/13/2021 12:58	Depth to Water Detail	18.37	ft
GN-GSA-MW-3	4/13/2021 12:58	Oxidation Reduction Potention	97.67	mv
GN-GSA-MW-3	4/13/2021 12:58	pH	6.2	SU
GN-GSA-MW-3	4/13/2021 12:58	Temperature	20.74	C
GN-GSA-MW-3	4/13/2021 12:58	Turbidity	1.51	NTU
GN-GSA-MW-3	4/13/2021 13:03	Conductivity	251.71	uS/cm
GN-GSA-MW-3	4/13/2021 13:03	DO	1.04	mg/L
GN-GSA-MW-3	4/13/2021 13:03	Depth to Water Detail	19.41	ft
GN-GSA-MW-3	4/13/2021 13:03	Oxidation Reduction Potention	102.01	mv
GN-GSA-MW-3	4/13/2021 13:03	pH	6.11	SU
GN-GSA-MW-3	4/13/2021 13:03	Temperature	20.73	C
GN-GSA-MW-3	4/13/2021 13:03	Turbidity	1.42	NTU
GN-GSA-MW-3	4/13/2021 13:08	Conductivity	241.23	uS/cm
GN-GSA-MW-3	4/13/2021 13:08	DO	1.27	mg/L
GN-GSA-MW-3	4/13/2021 13:08	Depth to Water Detail	20.2	ft
GN-GSA-MW-3	4/13/2021 13:08	Oxidation Reduction Potention	105.97	mv
GN-GSA-MW-3	4/13/2021 13:08	pH	6.1	SU
GN-GSA-MW-3	4/13/2021 13:08	Temperature	20.86	C
GN-GSA-MW-3	4/13/2021 13:08	Turbidity	1.68	NTU
GN-GSA-MW-3	4/13/2021 13:13	Conductivity	242.67	uS/cm
GN-GSA-MW-3	4/13/2021 13:13	DO	1.29	mg/L
GN-GSA-MW-3	4/13/2021 13:13	Depth to Water Detail	20.94	ft
GN-GSA-MW-3	4/13/2021 13:13	Oxidation Reduction Potention	104.5	mv
GN-GSA-MW-3	4/13/2021 13:13	pH	6.14	SU
GN-GSA-MW-3	4/13/2021 13:13	Temperature	20.86	C
GN-GSA-MW-3	4/13/2021 13:13	Turbidity	1.58	NTU
GN-GSA-MW-3	4/13/2021 13:18	Conductivity	248.05	uS/cm
GN-GSA-MW-3	4/13/2021 13:18	DO	1.27	mg/L
GN-GSA-MW-3	4/13/2021 13:18	Depth to Water Detail	21.51	ft
GN-GSA-MW-3	4/13/2021 13:18	Oxidation Reduction Potention	103.84	mv
GN-GSA-MW-3	4/13/2021 13:18	pH	6.18	SU
GN-GSA-MW-3	4/13/2021 13:18	Temperature	20.79	C
GN-GSA-MW-3	4/13/2021 13:18	Turbidity	1.6	NTU
GN-GSA-MW-3	4/13/2021 13:23	Conductivity	254.1	uS/cm
GN-GSA-MW-3	4/13/2021 13:23	DO	1.26	mg/L
GN-GSA-MW-3	4/13/2021 13:23	Depth to Water Detail	22.04	ft
GN-GSA-MW-3	4/13/2021 13:23	Oxidation Reduction Potention	103.12	mv
GN-GSA-MW-3	4/13/2021 13:23	pH	6.25	SU
GN-GSA-MW-3	4/13/2021 13:23	Temperature	20.8	C
GN-GSA-MW-3	4/13/2021 13:23	Turbidity	1.61	NTU
GN-GSA-MW-3	4/13/2021 13:28	Conductivity	259.84	uS/cm
GN-GSA-MW-3	4/13/2021 13:28	DO	1.24	mg/L

Alabama Power Company
Plant Gaston Gypsum Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-GSA-MW-3	4/13/2021 13:28	Depth to Water Detail	22.5	ft
GN-GSA-MW-3	4/13/2021 13:28	Oxidation Reduction Potention	102.41	mv
GN-GSA-MW-3	4/13/2021 13:28	pH	6.3	SU
GN-GSA-MW-3	4/13/2021 13:28	Temperature	20.87	C
GN-GSA-MW-3	4/13/2021 13:28	Turbidity	1.44	NTU
GN-GSA-MW-3	4/13/2021 13:33	Conductivity	269.05	uS/cm
GN-GSA-MW-3	4/13/2021 13:33	DO	1.26	mg/L
GN-GSA-MW-3	4/13/2021 13:33	Depth to Water Detail	22.82	ft
GN-GSA-MW-3	4/13/2021 13:33	Oxidation Reduction Potention	101.12	mv
GN-GSA-MW-3	4/13/2021 13:33	pH	6.36	SU
GN-GSA-MW-3	4/13/2021 13:33	Temperature	20.84	C
GN-GSA-MW-3	4/13/2021 13:33	Turbidity	1.45	NTU
GN-GSA-MW-3	4/13/2021 13:38	Conductivity	275.99	uS/cm
GN-GSA-MW-3	4/13/2021 13:38	DO	1.3	mg/L
GN-GSA-MW-3	4/13/2021 13:38	Depth to Water Detail	23.18	ft
GN-GSA-MW-3	4/13/2021 13:38	Oxidation Reduction Potention	100.77	mv
GN-GSA-MW-3	4/13/2021 13:38	pH	6.42	SU
GN-GSA-MW-3	4/13/2021 13:38	Temperature	20.6	C
GN-GSA-MW-3	4/13/2021 13:38	Turbidity	1.38	NTU
GN-GSA-MW-3	4/13/2021 13:43	Conductivity	283.82	uS/cm
GN-GSA-MW-3	4/13/2021 13:43	DO	1.37	mg/L
GN-GSA-MW-3	4/13/2021 13:43	Depth to Water Detail	23.44	ft
GN-GSA-MW-3	4/13/2021 13:43	Oxidation Reduction Potention	100.02	mv
GN-GSA-MW-3	4/13/2021 13:43	pH	6.45	SU
GN-GSA-MW-3	4/13/2021 13:43	Temperature	20.52	C
GN-GSA-MW-3	4/13/2021 13:43	Turbidity	1.37	NTU
GN-GSA-MW-3	4/13/2021 13:48	Conductivity	289.04	uS/cm
GN-GSA-MW-3	4/13/2021 13:48	DO	1.47	mg/L
GN-GSA-MW-3	4/13/2021 13:48	Depth to Water Detail	23.82	ft
GN-GSA-MW-3	4/13/2021 13:48	Oxidation Reduction Potention	99.79	mv
GN-GSA-MW-3	4/13/2021 13:48	pH	6.48	SU
GN-GSA-MW-3	4/13/2021 13:48	Temperature	20.7	C
GN-GSA-MW-3	4/13/2021 13:48	Turbidity	1.43	NTU
GN-GSA-MW-3	4/13/2021 13:53	Conductivity	296.99	uS/cm
GN-GSA-MW-3	4/13/2021 13:53	DO	1.58	mg/L
GN-GSA-MW-3	4/13/2021 13:53	Depth to Water Detail	24.06	ft
GN-GSA-MW-3	4/13/2021 13:53	Oxidation Reduction Potention	99.4	mv
GN-GSA-MW-3	4/13/2021 13:53	pH	6.53	SU
GN-GSA-MW-3	4/13/2021 13:53	Temperature	20.75	C
GN-GSA-MW-3	4/13/2021 13:53	Turbidity	1.35	NTU
GN-GSA-MW-3	4/13/2021 13:58	Conductivity	320.2	uS/cm
GN-GSA-MW-3	4/13/2021 13:58	DO	1.62	mg/L
GN-GSA-MW-3	4/13/2021 13:58	Depth to Water Detail	24.21	ft
GN-GSA-MW-3	4/13/2021 13:58	Oxidation Reduction Potention	99	mv

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Plant Gaston Gypsum Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-GSA-MW-3	4/13/2021 13:58	pH	6.58	SU
GN-GSA-MW-3	4/13/2021 13:58	Temperature	20.59	C
GN-GSA-MW-3	4/13/2021 13:58	Turbidity	1.32	NTU
GN-GSA-MW-3	4/13/2021 14:03	Conductivity	345.83	uS/cm
GN-GSA-MW-3	4/13/2021 14:03	DO	1.71	mg/L
GN-GSA-MW-3	4/13/2021 14:03	Depth to Water Detail	24.36	ft
GN-GSA-MW-3	4/13/2021 14:03	Oxidation Reduction Potention	98.99	mv
GN-GSA-MW-3	4/13/2021 14:03	pH	6.66	SU
GN-GSA-MW-3	4/13/2021 14:03	Temperature	20.67	C
GN-GSA-MW-3	4/13/2021 14:03	Turbidity	1.33	NTU
GN-GSA-MW-3	4/13/2021 14:08	Conductivity	350.51	uS/cm
GN-GSA-MW-3	4/13/2021 14:08	DO	1.77	mg/L
GN-GSA-MW-3	4/13/2021 14:08	Depth to Water Detail	24.56	ft
GN-GSA-MW-3	4/13/2021 14:08	Oxidation Reduction Potention	98.54	mv
GN-GSA-MW-3	4/13/2021 14:08	pH	6.71	SU
GN-GSA-MW-3	4/13/2021 14:08	Temperature	20.62	C
GN-GSA-MW-3	4/13/2021 14:08	Turbidity	1.27	NTU
GN-GSA-MW-3	4/13/2021 14:13	Conductivity	353.47	uS/cm
GN-GSA-MW-3	4/13/2021 14:13	DO	1.79	mg/L
GN-GSA-MW-3	4/13/2021 14:13	Depth to Water Detail	24.62	ft
GN-GSA-MW-3	4/13/2021 14:13	Oxidation Reduction Potention	98.93	mv
GN-GSA-MW-3	4/13/2021 14:13	pH	6.71	SU
GN-GSA-MW-3	4/13/2021 14:13	Temperature	20.76	C
GN-GSA-MW-3	4/13/2021 14:13	Turbidity	1.32	NTU

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Plant Gaston Gypsum Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-GSA-MW-14S	4/13/2021 14:57	Conductivity	334.9	uS/cm
GN-GSA-MW-14S	4/13/2021 14:57	DO	2.18	mg/L
GN-GSA-MW-14S	4/13/2021 14:57	Depth to Water Detail	18.78	ft
GN-GSA-MW-14S	4/13/2021 14:57	Oxidation Reduction Potention	80.61	mv
GN-GSA-MW-14S	4/13/2021 14:57	pH	7.27	SU
GN-GSA-MW-14S	4/13/2021 14:57	Temperature	20.23	C
GN-GSA-MW-14S	4/13/2021 14:57	Turbidity	2.37	NTU
GN-GSA-MW-14S	4/13/2021 15:02	Conductivity	334.12	uS/cm
GN-GSA-MW-14S	4/13/2021 15:02	DO	2.21	mg/L
GN-GSA-MW-14S	4/13/2021 15:02	Depth to Water Detail	18.83	ft
GN-GSA-MW-14S	4/13/2021 15:02	Oxidation Reduction Potention	64.98	mv
GN-GSA-MW-14S	4/13/2021 15:02	pH	7.28	SU
GN-GSA-MW-14S	4/13/2021 15:02	Temperature	20.34	C
GN-GSA-MW-14S	4/13/2021 15:02	Turbidity	2.42	NTU
GN-GSA-MW-14S	4/13/2021 15:07	Conductivity	333.99	uS/cm
GN-GSA-MW-14S	4/13/2021 15:07	DO	2.27	mg/L
GN-GSA-MW-14S	4/13/2021 15:07	Depth to Water Detail	18.83	ft
GN-GSA-MW-14S	4/13/2021 15:07	Oxidation Reduction Potention	35.01	mv
GN-GSA-MW-14S	4/13/2021 15:07	pH	7.3	SU
GN-GSA-MW-14S	4/13/2021 15:07	Temperature	20.08	C
GN-GSA-MW-14S	4/13/2021 15:07	Turbidity	2.2	NTU
GN-GSA-MW-14S	4/13/2021 15:12	Conductivity	333.75	uS/cm
GN-GSA-MW-14S	4/13/2021 15:12	DO	2.36	mg/L
GN-GSA-MW-14S	4/13/2021 15:12	Depth to Water Detail	18.83	ft
GN-GSA-MW-14S	4/13/2021 15:12	Oxidation Reduction Potention	14.24	mv
GN-GSA-MW-14S	4/13/2021 15:12	pH	7.33	SU
GN-GSA-MW-14S	4/13/2021 15:12	Temperature	20.12	C
GN-GSA-MW-14S	4/13/2021 15:12	Turbidity	2.23	NTU

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Plant Gaston Gypsum Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-GSA-MW-15	4/13/2021 11:07	Conductivity	55.97	uS/cm
GN-GSA-MW-15	4/13/2021 11:07	DO	0.95	mg/L
GN-GSA-MW-15	4/13/2021 11:07	Depth to Water Detail	12.31	ft
GN-GSA-MW-15	4/13/2021 11:07	Oxidation Reduction Potention	82.36	mv
GN-GSA-MW-15	4/13/2021 11:07	pH	6.02	SU
GN-GSA-MW-15	4/13/2021 11:07	Temperature	22.26	C
GN-GSA-MW-15	4/13/2021 11:07	Turbidity	20.3	NTU
GN-GSA-MW-15	4/13/2021 11:12	Conductivity	55.71	uS/cm
GN-GSA-MW-15	4/13/2021 11:12	DO	1.07	mg/L
GN-GSA-MW-15	4/13/2021 11:12	Depth to Water Detail	12.54	ft
GN-GSA-MW-15	4/13/2021 11:12	Oxidation Reduction Potention	88.65	mv
GN-GSA-MW-15	4/13/2021 11:12	pH	6	SU
GN-GSA-MW-15	4/13/2021 11:12	Temperature	22.42	C
GN-GSA-MW-15	4/13/2021 11:12	Turbidity	12.2	NTU
GN-GSA-MW-15	4/13/2021 11:17	Conductivity	53.34	uS/cm
GN-GSA-MW-15	4/13/2021 11:17	DO	1.1	mg/L
GN-GSA-MW-15	4/13/2021 11:17	Depth to Water Detail	12.71	ft
GN-GSA-MW-15	4/13/2021 11:17	Oxidation Reduction Potention	94.44	mv
GN-GSA-MW-15	4/13/2021 11:17	pH	5.92	SU
GN-GSA-MW-15	4/13/2021 11:17	Temperature	21.03	C
GN-GSA-MW-15	4/13/2021 11:17	Turbidity	10.26	NTU
GN-GSA-MW-15	4/13/2021 11:22	Conductivity	49.24	uS/cm
GN-GSA-MW-15	4/13/2021 11:22	DO	1.98	mg/L
GN-GSA-MW-15	4/13/2021 11:22	Depth to Water Detail	12.86	ft
GN-GSA-MW-15	4/13/2021 11:22	Oxidation Reduction Potention	95.71	mv
GN-GSA-MW-15	4/13/2021 11:22	pH	5.92	SU
GN-GSA-MW-15	4/13/2021 11:22	Temperature	20.74	C
GN-GSA-MW-15	4/13/2021 11:22	Turbidity	9.16	NTU
GN-GSA-MW-15	4/13/2021 11:27	Conductivity	45.1	uS/cm
GN-GSA-MW-15	4/13/2021 11:27	DO	2.99	mg/L
GN-GSA-MW-15	4/13/2021 11:27	Depth to Water Detail	12.98	ft
GN-GSA-MW-15	4/13/2021 11:27	Oxidation Reduction Potention	100.57	mv
GN-GSA-MW-15	4/13/2021 11:27	pH	5.94	SU
GN-GSA-MW-15	4/13/2021 11:27	Temperature	20.87	C
GN-GSA-MW-15	4/13/2021 11:27	Turbidity	8.95	NTU
GN-GSA-MW-15	4/13/2021 11:32	Conductivity	42.91	uS/cm
GN-GSA-MW-15	4/13/2021 11:32	DO	3.47	mg/L
GN-GSA-MW-15	4/13/2021 11:32	Depth to Water Detail	13.09	ft
GN-GSA-MW-15	4/13/2021 11:32	Oxidation Reduction Potention	102.45	mv
GN-GSA-MW-15	4/13/2021 11:32	pH	5.93	SU
GN-GSA-MW-15	4/13/2021 11:32	Temperature	20.87	C
GN-GSA-MW-15	4/13/2021 11:32	Turbidity	8.55	NTU
GN-GSA-MW-15	4/13/2021 11:37	Conductivity	41.61	uS/cm
GN-GSA-MW-15	4/13/2021 11:37	DO	3.53	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-GSA-MW-15	4/13/2021 11:37	Depth to Water Detail	13.14	ft
GN-GSA-MW-15	4/13/2021 11:37	Oxidation Reduction Potention	107.11	mv
GN-GSA-MW-15	4/13/2021 11:37	pH	5.89	SU
GN-GSA-MW-15	4/13/2021 11:37	Temperature	21.01	C
GN-GSA-MW-15	4/13/2021 11:37	Turbidity	6.53	NTU
GN-GSA-MW-15	4/13/2021 11:42	Conductivity	40.12	uS/cm
GN-GSA-MW-15	4/13/2021 11:42	DO	3.54	mg/L
GN-GSA-MW-15	4/13/2021 11:42	Depth to Water Detail	13.16	ft
GN-GSA-MW-15	4/13/2021 11:42	Oxidation Reduction Potention	112.18	mv
GN-GSA-MW-15	4/13/2021 11:42	pH	5.87	SU
GN-GSA-MW-15	4/13/2021 11:42	Temperature	21.07	C
GN-GSA-MW-15	4/13/2021 11:42	Turbidity	6.11	NTU
GN-GSA-MW-15	4/13/2021 11:47	Conductivity	39.26	uS/cm
GN-GSA-MW-15	4/13/2021 11:47	DO	3.58	mg/L
GN-GSA-MW-15	4/13/2021 11:47	Depth to Water Detail	13.19	ft
GN-GSA-MW-15	4/13/2021 11:47	Oxidation Reduction Potention	113.92	mv
GN-GSA-MW-15	4/13/2021 11:47	pH	5.86	SU
GN-GSA-MW-15	4/13/2021 11:47	Temperature	21.09	C
GN-GSA-MW-15	4/13/2021 11:47	Turbidity	5.67	NTU
GN-GSA-MW-15	4/13/2021 11:52	Conductivity	38.9	uS/cm
GN-GSA-MW-15	4/13/2021 11:52	DO	3.53	mg/L
GN-GSA-MW-15	4/13/2021 11:52	Depth to Water Detail	13.23	ft
GN-GSA-MW-15	4/13/2021 11:52	Oxidation Reduction Potention	113.39	mv
GN-GSA-MW-15	4/13/2021 11:52	pH	5.84	SU
GN-GSA-MW-15	4/13/2021 11:52	Temperature	21.2	C
GN-GSA-MW-15	4/13/2021 11:52	Turbidity	4.84	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-GSA-MW-5	4/13/2021 8:52	Conductivity	498.91	uS/cm
GN-GSA-MW-5	4/13/2021 8:52	DO	0.25	mg/L
GN-GSA-MW-5	4/13/2021 8:52	Depth to Water Detail	27.55	ft
GN-GSA-MW-5	4/13/2021 8:52	Oxidation Reduction Potention	83.53	mv
GN-GSA-MW-5	4/13/2021 8:52	pH	6.37	SU
GN-GSA-MW-5	4/13/2021 8:52	Temperature	18.91	C
GN-GSA-MW-5	4/13/2021 8:52	Turbidity	3.42	NTU
GN-GSA-MW-5	4/13/2021 8:57	Conductivity	503.28	uS/cm
GN-GSA-MW-5	4/13/2021 8:57	DO	0.22	mg/L
GN-GSA-MW-5	4/13/2021 8:57	Depth to Water Detail	27.55	ft
GN-GSA-MW-5	4/13/2021 8:57	Oxidation Reduction Potention	73.82	mv
GN-GSA-MW-5	4/13/2021 8:57	pH	6.38	SU
GN-GSA-MW-5	4/13/2021 8:57	Temperature	18.86	C
GN-GSA-MW-5	4/13/2021 8:57	Turbidity	1.53	NTU
GN-GSA-MW-5	4/13/2021 9:02	Conductivity	505.66	uS/cm
GN-GSA-MW-5	4/13/2021 9:02	DO	0.2	mg/L
GN-GSA-MW-5	4/13/2021 9:02	Depth to Water Detail	27.55	ft
GN-GSA-MW-5	4/13/2021 9:02	Oxidation Reduction Potention	66.38	mv
GN-GSA-MW-5	4/13/2021 9:02	pH	6.39	SU
GN-GSA-MW-5	4/13/2021 9:02	Temperature	18.92	C
GN-GSA-MW-5	4/13/2021 9:02	Turbidity	0.61	NTU
GN-GSA-MW-5	4/13/2021 9:07	Conductivity	507.46	uS/cm
GN-GSA-MW-5	4/13/2021 9:07	DO	0.19	mg/L
GN-GSA-MW-5	4/13/2021 9:07	Depth to Water Detail	27.55	ft
GN-GSA-MW-5	4/13/2021 9:07	Oxidation Reduction Potention	62.16	mv
GN-GSA-MW-5	4/13/2021 9:07	pH	6.36	SU
GN-GSA-MW-5	4/13/2021 9:07	Temperature	19.02	C
GN-GSA-MW-5	4/13/2021 9:07	Turbidity	0.38	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-GSA-MW-6	4/13/2021 9:49	Conductivity	27.12	uS/cm
GN-GSA-MW-6	4/13/2021 9:49	DO	2.19	mg/L
GN-GSA-MW-6	4/13/2021 9:49	Depth to Water Detail	27.32	ft
GN-GSA-MW-6	4/13/2021 9:49	Oxidation Reduction Potention	81.73	mv
GN-GSA-MW-6	4/13/2021 9:49	pH	4.49	SU
GN-GSA-MW-6	4/13/2021 9:49	Temperature	20.25	C
GN-GSA-MW-6	4/13/2021 9:49	Turbidity	3.42	NTU
GN-GSA-MW-6	4/13/2021 9:54	Conductivity	28.66	uS/cm
GN-GSA-MW-6	4/13/2021 9:54	DO	0.75	mg/L
GN-GSA-MW-6	4/13/2021 9:54	Depth to Water Detail	27.32	ft
GN-GSA-MW-6	4/13/2021 9:54	Oxidation Reduction Potention	74.11	mv
GN-GSA-MW-6	4/13/2021 9:54	pH	4.57	SU
GN-GSA-MW-6	4/13/2021 9:54	Temperature	20.22	C
GN-GSA-MW-6	4/13/2021 9:54	Turbidity	2.62	NTU
GN-GSA-MW-6	4/13/2021 9:59	Conductivity	28.54	uS/cm
GN-GSA-MW-6	4/13/2021 9:59	DO	0.42	mg/L
GN-GSA-MW-6	4/13/2021 9:59	Depth to Water Detail	27.32	ft
GN-GSA-MW-6	4/13/2021 9:59	Oxidation Reduction Potention	70.3	mv
GN-GSA-MW-6	4/13/2021 9:59	pH	4.61	SU
GN-GSA-MW-6	4/13/2021 9:59	Temperature	20.26	C
GN-GSA-MW-6	4/13/2021 9:59	Turbidity	1.03	NTU
GN-GSA-MW-6	4/13/2021 10:04	Conductivity	28.6	uS/cm
GN-GSA-MW-6	4/13/2021 10:04	DO	0.32	mg/L
GN-GSA-MW-6	4/13/2021 10:04	Depth to Water Detail	27.32	ft
GN-GSA-MW-6	4/13/2021 10:04	Oxidation Reduction Potention	69.09	mv
GN-GSA-MW-6	4/13/2021 10:04	pH	4.63	SU
GN-GSA-MW-6	4/13/2021 10:04	Temperature	20.28	C
GN-GSA-MW-6	4/13/2021 10:04	Turbidity	0.69	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-GSA-MW-7	4/13/2021 10:43	Conductivity	334.64	uS/cm
GN-GSA-MW-7	4/13/2021 10:43	DO	2.92	mg/L
GN-GSA-MW-7	4/13/2021 10:43	Depth to Water Detail	26.58	ft
GN-GSA-MW-7	4/13/2021 10:43	Oxidation Reduction Potention	88	mv
GN-GSA-MW-7	4/13/2021 10:43	pH	6.9	SU
GN-GSA-MW-7	4/13/2021 10:43	Temperature	22.05	C
GN-GSA-MW-7	4/13/2021 10:43	Turbidity	0.68	NTU
GN-GSA-MW-7	4/13/2021 10:48	Conductivity	333.72	uS/cm
GN-GSA-MW-7	4/13/2021 10:48	DO	4.01	mg/L
GN-GSA-MW-7	4/13/2021 10:48	Depth to Water Detail	26.87	ft
GN-GSA-MW-7	4/13/2021 10:48	Oxidation Reduction Potention	86.2	mv
GN-GSA-MW-7	4/13/2021 10:48	pH	7.01	SU
GN-GSA-MW-7	4/13/2021 10:48	Temperature	21.93	C
GN-GSA-MW-7	4/13/2021 10:48	Turbidity	0.44	NTU
GN-GSA-MW-7	4/13/2021 10:53	Conductivity	332.87	uS/cm
GN-GSA-MW-7	4/13/2021 10:53	DO	4.51	mg/L
GN-GSA-MW-7	4/13/2021 10:53	Depth to Water Detail	27.05	ft
GN-GSA-MW-7	4/13/2021 10:53	Oxidation Reduction Potention	84.75	mv
GN-GSA-MW-7	4/13/2021 10:53	pH	7.07	SU
GN-GSA-MW-7	4/13/2021 10:53	Temperature	21.9	C
GN-GSA-MW-7	4/13/2021 10:53	Turbidity	0.5	NTU
GN-GSA-MW-7	4/13/2021 10:58	Conductivity	370.04	uS/cm
GN-GSA-MW-7	4/13/2021 10:58	DO	4.38	mg/L
GN-GSA-MW-7	4/13/2021 10:58	Depth to Water Detail	27.23	ft
GN-GSA-MW-7	4/13/2021 10:58	Oxidation Reduction Potention	82.08	mv
GN-GSA-MW-7	4/13/2021 10:58	pH	7.05	SU
GN-GSA-MW-7	4/13/2021 10:58	Temperature	21.93	C
GN-GSA-MW-7	4/13/2021 10:58	Turbidity	0.48	NTU
GN-GSA-MW-7	4/13/2021 11:03	Conductivity	370.1	uS/cm
GN-GSA-MW-7	4/13/2021 11:03	DO	4.07	mg/L
GN-GSA-MW-7	4/13/2021 11:03	Depth to Water Detail	27.36	ft
GN-GSA-MW-7	4/13/2021 11:03	Oxidation Reduction Potention	83.74	mv
GN-GSA-MW-7	4/13/2021 11:03	pH	7.03	SU
GN-GSA-MW-7	4/13/2021 11:03	Temperature	22.05	C
GN-GSA-MW-7	4/13/2021 11:03	Turbidity	0.39	NTU
GN-GSA-MW-7	4/13/2021 11:08	Conductivity	369.37	uS/cm
GN-GSA-MW-7	4/13/2021 11:08	DO	3.76	mg/L
GN-GSA-MW-7	4/13/2021 11:08	Depth to Water Detail	27.48	ft
GN-GSA-MW-7	4/13/2021 11:08	Oxidation Reduction Potention	83.29	mv
GN-GSA-MW-7	4/13/2021 11:08	pH	7.01	SU
GN-GSA-MW-7	4/13/2021 11:08	Temperature	22.03	C
GN-GSA-MW-7	4/13/2021 11:08	Turbidity	0.48	NTU
GN-GSA-MW-7	4/13/2021 11:13	Conductivity	368.41	uS/cm
GN-GSA-MW-7	4/13/2021 11:13	DO	3.43	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-GSA-MW-7	4/13/2021 11:13	Depth to Water Detail	27.6	ft
GN-GSA-MW-7	4/13/2021 11:13	Oxidation Reduction Potention	81.95	mv
GN-GSA-MW-7	4/13/2021 11:13	pH	6.97	SU
GN-GSA-MW-7	4/13/2021 11:13	Temperature	22.23	C
GN-GSA-MW-7	4/13/2021 11:13	Turbidity	0.55	NTU
GN-GSA-MW-7	4/13/2021 11:18	Conductivity	366.6	uS/cm
GN-GSA-MW-7	4/13/2021 11:18	DO	3.27	mg/L
GN-GSA-MW-7	4/13/2021 11:18	Depth to Water Detail	27.67	ft
GN-GSA-MW-7	4/13/2021 11:18	Oxidation Reduction Potention	81.72	mv
GN-GSA-MW-7	4/13/2021 11:18	pH	6.96	SU
GN-GSA-MW-7	4/13/2021 11:18	Temperature	22.4	C
GN-GSA-MW-7	4/13/2021 11:18	Turbidity	0.54	NTU
GN-GSA-MW-7	4/13/2021 11:23	Conductivity	363.87	uS/cm
GN-GSA-MW-7	4/13/2021 11:23	DO	3.08	mg/L
GN-GSA-MW-7	4/13/2021 11:23	Depth to Water Detail	27.74	ft
GN-GSA-MW-7	4/13/2021 11:23	Oxidation Reduction Potention	82.24	mv
GN-GSA-MW-7	4/13/2021 11:23	pH	6.94	SU
GN-GSA-MW-7	4/13/2021 11:23	Temperature	22.5	C
GN-GSA-MW-7	4/13/2021 11:23	Turbidity	0.67	NTU
GN-GSA-MW-7	4/13/2021 11:28	Conductivity	380.72	uS/cm
GN-GSA-MW-7	4/13/2021 11:28	DO	2.87	mg/L
GN-GSA-MW-7	4/13/2021 11:28	Depth to Water Detail	27.81	ft
GN-GSA-MW-7	4/13/2021 11:28	Oxidation Reduction Potention	83.36	mv
GN-GSA-MW-7	4/13/2021 11:28	pH	6.93	SU
GN-GSA-MW-7	4/13/2021 11:28	Temperature	22.39	C
GN-GSA-MW-7	4/13/2021 11:28	Turbidity	0.81	NTU
GN-GSA-MW-7	4/13/2021 11:33	Conductivity	379.33	uS/cm
GN-GSA-MW-7	4/13/2021 11:33	DO	2.71	mg/L
GN-GSA-MW-7	4/13/2021 11:33	Depth to Water Detail	27.86	ft
GN-GSA-MW-7	4/13/2021 11:33	Oxidation Reduction Potention	81.78	mv
GN-GSA-MW-7	4/13/2021 11:33	pH	6.91	SU
GN-GSA-MW-7	4/13/2021 11:33	Temperature	22.5	C
GN-GSA-MW-7	4/13/2021 11:33	Turbidity	0.65	NTU
GN-GSA-MW-7	4/13/2021 11:38	Conductivity	378.38	uS/cm
GN-GSA-MW-7	4/13/2021 11:38	DO	2.53	mg/L
GN-GSA-MW-7	4/13/2021 11:38	Depth to Water Detail	27.9	ft
GN-GSA-MW-7	4/13/2021 11:38	Oxidation Reduction Potention	82.64	mv
GN-GSA-MW-7	4/13/2021 11:38	pH	6.89	SU
GN-GSA-MW-7	4/13/2021 11:38	Temperature	22.53	C
GN-GSA-MW-7	4/13/2021 11:38	Turbidity	0.67	NTU
GN-GSA-MW-7	4/13/2021 11:43	Conductivity	376.86	uS/cm
GN-GSA-MW-7	4/13/2021 11:43	DO	2.37	mg/L
GN-GSA-MW-7	4/13/2021 11:43	Depth to Water Detail	27.94	ft
GN-GSA-MW-7	4/13/2021 11:43	Oxidation Reduction Potention	82.75	mv

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-GSA-MW-7	4/13/2021 11:43	pH	6.88	SU
GN-GSA-MW-7	4/13/2021 11:43	Temperature	22.62	C
GN-GSA-MW-7	4/13/2021 11:43	Turbidity	0.67	NTU
GN-GSA-MW-7	4/13/2021 11:48	Conductivity	373.15	uS/cm
GN-GSA-MW-7	4/13/2021 11:48	DO	2.22	mg/L
GN-GSA-MW-7	4/13/2021 11:48	Depth to Water Detail	27.94	ft
GN-GSA-MW-7	4/13/2021 11:48	Oxidation Reduction Potention	81.1	mv
GN-GSA-MW-7	4/13/2021 11:48	pH	6.87	SU
GN-GSA-MW-7	4/13/2021 11:48	Temperature	22.74	C
GN-GSA-MW-7	4/13/2021 11:48	Turbidity	0.67	NTU
GN-GSA-MW-7	4/13/2021 11:53	Conductivity	373.28	uS/cm
GN-GSA-MW-7	4/13/2021 11:53	DO	2.15	mg/L
GN-GSA-MW-7	4/13/2021 11:53	Depth to Water Detail	27.94	ft
GN-GSA-MW-7	4/13/2021 11:53	Oxidation Reduction Potention	79.52	mv
GN-GSA-MW-7	4/13/2021 11:53	pH	6.86	SU
GN-GSA-MW-7	4/13/2021 11:53	Temperature	23.01	C
GN-GSA-MW-7	4/13/2021 11:53	Turbidity	0.7	NTU
GN-GSA-MW-7	4/13/2021 11:58	Conductivity	370.89	uS/cm
GN-GSA-MW-7	4/13/2021 11:58	DO	2.06	mg/L
GN-GSA-MW-7	4/13/2021 11:58	Depth to Water Detail	27.94	ft
GN-GSA-MW-7	4/13/2021 11:58	Oxidation Reduction Potention	78.74	mv
GN-GSA-MW-7	4/13/2021 11:58	pH	6.85	SU
GN-GSA-MW-7	4/13/2021 11:58	Temperature	23.07	C
GN-GSA-MW-7	4/13/2021 11:58	Turbidity	0.68	NTU
GN-GSA-MW-7	4/13/2021 12:03	Conductivity	370.52	uS/cm
GN-GSA-MW-7	4/13/2021 12:03	DO	2.03	mg/L
GN-GSA-MW-7	4/13/2021 12:03	Depth to Water Detail	27.94	ft
GN-GSA-MW-7	4/13/2021 12:03	Oxidation Reduction Potention	78.88	mv
GN-GSA-MW-7	4/13/2021 12:03	pH	6.84	SU
GN-GSA-MW-7	4/13/2021 12:03	Temperature	23.25	C
GN-GSA-MW-7	4/13/2021 12:03	Turbidity	0.68	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-GSA-MW-8	4/13/2021 13:18	Conductivity	316.06	uS/cm
GN-GSA-MW-8	4/13/2021 13:18	DO	1.18	mg/L
GN-GSA-MW-8	4/13/2021 13:18	Depth to Water Detail	20.95	ft
GN-GSA-MW-8	4/13/2021 13:18	Oxidation Reduction Potention	98.67	mv
GN-GSA-MW-8	4/13/2021 13:18	pH	7.56	SU
GN-GSA-MW-8	4/13/2021 13:18	Temperature	22.07	C
GN-GSA-MW-8	4/13/2021 13:18	Turbidity	4.64	NTU
GN-GSA-MW-8	4/13/2021 13:23	Conductivity	315.14	uS/cm
GN-GSA-MW-8	4/13/2021 13:23	DO	1.2	mg/L
GN-GSA-MW-8	4/13/2021 13:23	Depth to Water Detail	21.05	ft
GN-GSA-MW-8	4/13/2021 13:23	Oxidation Reduction Potention	78.66	mv
GN-GSA-MW-8	4/13/2021 13:23	pH	7.61	SU
GN-GSA-MW-8	4/13/2021 13:23	Temperature	21.93	C
GN-GSA-MW-8	4/13/2021 13:23	Turbidity	2.02	NTU
GN-GSA-MW-8	4/13/2021 13:28	Conductivity	315.27	uS/cm
GN-GSA-MW-8	4/13/2021 13:28	DO	1.21	mg/L
GN-GSA-MW-8	4/13/2021 13:28	Depth to Water Detail	21.11	ft
GN-GSA-MW-8	4/13/2021 13:28	Oxidation Reduction Potention	63.51	mv
GN-GSA-MW-8	4/13/2021 13:28	pH	7.66	SU
GN-GSA-MW-8	4/13/2021 13:28	Temperature	21.74	C
GN-GSA-MW-8	4/13/2021 13:28	Turbidity	1.31	NTU
GN-GSA-MW-8	4/13/2021 13:33	Conductivity	314.68	uS/cm
GN-GSA-MW-8	4/13/2021 13:33	DO	1.22	mg/L
GN-GSA-MW-8	4/13/2021 13:33	Depth to Water Detail	21.19	ft
GN-GSA-MW-8	4/13/2021 13:33	Oxidation Reduction Potention	53.5	mv
GN-GSA-MW-8	4/13/2021 13:33	pH	7.7	SU
GN-GSA-MW-8	4/13/2021 13:33	Temperature	21.72	C
GN-GSA-MW-8	4/13/2021 13:33	Turbidity	0.98	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-GSA-MW-9	4/13/2021 14:10	Conductivity	127.68	uS/cm
GN-GSA-MW-9	4/13/2021 14:10	DO	0.35	mg/L
GN-GSA-MW-9	4/13/2021 14:10	Depth to Water Detail	21.05	ft
GN-GSA-MW-9	4/13/2021 14:10	Oxidation Reduction Potention	73.08	mv
GN-GSA-MW-9	4/13/2021 14:10	pH	6.2	SU
GN-GSA-MW-9	4/13/2021 14:10	Temperature	20.51	C
GN-GSA-MW-9	4/13/2021 14:10	Turbidity	17.6	NTU
GN-GSA-MW-9	4/13/2021 14:15	Conductivity	153.73	uS/cm
GN-GSA-MW-9	4/13/2021 14:15	DO	0.29	mg/L
GN-GSA-MW-9	4/13/2021 14:15	Depth to Water Detail	21.5	ft
GN-GSA-MW-9	4/13/2021 14:15	Oxidation Reduction Potention	68.53	mv
GN-GSA-MW-9	4/13/2021 14:15	pH	6.27	SU
GN-GSA-MW-9	4/13/2021 14:15	Temperature	20.55	C
GN-GSA-MW-9	4/13/2021 14:15	Turbidity	5.96	NTU
GN-GSA-MW-9	4/13/2021 14:20	Conductivity	191.81	uS/cm
GN-GSA-MW-9	4/13/2021 14:20	DO	0.26	mg/L
GN-GSA-MW-9	4/13/2021 14:20	Depth to Water Detail	21.9	ft
GN-GSA-MW-9	4/13/2021 14:20	Oxidation Reduction Potention	61.96	mv
GN-GSA-MW-9	4/13/2021 14:20	pH	6.47	SU
GN-GSA-MW-9	4/13/2021 14:20	Temperature	20.78	C
GN-GSA-MW-9	4/13/2021 14:20	Turbidity	2.54	NTU
GN-GSA-MW-9	4/13/2021 14:25	Conductivity	221.56	uS/cm
GN-GSA-MW-9	4/13/2021 14:25	DO	0.22	mg/L
GN-GSA-MW-9	4/13/2021 14:25	Depth to Water Detail	22.1	ft
GN-GSA-MW-9	4/13/2021 14:25	Oxidation Reduction Potention	56.17	mv
GN-GSA-MW-9	4/13/2021 14:25	pH	6.65	SU
GN-GSA-MW-9	4/13/2021 14:25	Temperature	20.92	C
GN-GSA-MW-9	4/13/2021 14:25	Turbidity	1.76	NTU
GN-GSA-MW-9	4/13/2021 14:30	Conductivity	237.23	uS/cm
GN-GSA-MW-9	4/13/2021 14:30	DO	0.21	mg/L
GN-GSA-MW-9	4/13/2021 14:30	Depth to Water Detail	22.25	ft
GN-GSA-MW-9	4/13/2021 14:30	Oxidation Reduction Potention	49.37	mv
GN-GSA-MW-9	4/13/2021 14:30	pH	6.78	SU
GN-GSA-MW-9	4/13/2021 14:30	Temperature	20.57	C
GN-GSA-MW-9	4/13/2021 14:30	Turbidity	1.77	NTU
GN-GSA-MW-9	4/13/2021 14:35	Conductivity	244.31	uS/cm
GN-GSA-MW-9	4/13/2021 14:35	DO	0.2	mg/L
GN-GSA-MW-9	4/13/2021 14:35	Depth to Water Detail	22.4	ft
GN-GSA-MW-9	4/13/2021 14:35	Oxidation Reduction Potention	46.06	mv
GN-GSA-MW-9	4/13/2021 14:35	pH	6.85	SU
GN-GSA-MW-9	4/13/2021 14:35	Temperature	20.51	C
GN-GSA-MW-9	4/13/2021 14:35	Turbidity	1.26	NTU
GN-GSA-MW-9	4/13/2021 14:40	Conductivity	247.83	uS/cm
GN-GSA-MW-9	4/13/2021 14:40	DO	0.2	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-GSA-MW-9	4/13/2021 14:40	Depth to Water Detail	22.5	ft
GN-GSA-MW-9	4/13/2021 14:40	Oxidation Reduction Potention	44.08	mv
GN-GSA-MW-9	4/13/2021 14:40	pH	6.9	SU
GN-GSA-MW-9	4/13/2021 14:40	Temperature	20.77	C
GN-GSA-MW-9	4/13/2021 14:40	Turbidity	1.26	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-GSA-MW-10	4/13/2021 15:19	Conductivity	443	uS/cm
GN-GSA-MW-10	4/13/2021 15:19	DO	1.31	mg/L
GN-GSA-MW-10	4/13/2021 15:19	Depth to Water Detail	21.3	ft
GN-GSA-MW-10	4/13/2021 15:19	Oxidation Reduction Potention	63.25	mv
GN-GSA-MW-10	4/13/2021 15:19	pH	7.2	SU
GN-GSA-MW-10	4/13/2021 15:19	Temperature	21.72	C
GN-GSA-MW-10	4/13/2021 15:19	Turbidity	0.25	NTU
GN-GSA-MW-10	4/13/2021 15:24	Conductivity	444.03	uS/cm
GN-GSA-MW-10	4/13/2021 15:24	DO	0.77	mg/L
GN-GSA-MW-10	4/13/2021 15:24	Depth to Water Detail	21.4	ft
GN-GSA-MW-10	4/13/2021 15:24	Oxidation Reduction Potention	59.13	mv
GN-GSA-MW-10	4/13/2021 15:24	pH	7.13	SU
GN-GSA-MW-10	4/13/2021 15:24	Temperature	21.86	C
GN-GSA-MW-10	4/13/2021 15:24	Turbidity	0.2	NTU
GN-GSA-MW-10	4/13/2021 15:29	Conductivity	444.62	uS/cm
GN-GSA-MW-10	4/13/2021 15:29	DO	0.57	mg/L
GN-GSA-MW-10	4/13/2021 15:29	Depth to Water Detail	21.4	ft
GN-GSA-MW-10	4/13/2021 15:29	Oxidation Reduction Potention	49.69	mv
GN-GSA-MW-10	4/13/2021 15:29	pH	7.16	SU
GN-GSA-MW-10	4/13/2021 15:29	Temperature	21.75	C
GN-GSA-MW-10	4/13/2021 15:29	Turbidity	0.42	NTU
GN-GSA-MW-10	4/13/2021 15:34	Conductivity	445.36	uS/cm
GN-GSA-MW-10	4/13/2021 15:34	DO	0.46	mg/L
GN-GSA-MW-10	4/13/2021 15:34	Depth to Water Detail	21.4	ft
GN-GSA-MW-10	4/13/2021 15:34	Oxidation Reduction Potention	45.2	mv
GN-GSA-MW-10	4/13/2021 15:34	pH	7.2	SU
GN-GSA-MW-10	4/13/2021 15:34	Temperature	21.59	C
GN-GSA-MW-10	4/13/2021 15:34	Turbidity	0.18	NTU
GN-GSA-MW-10	4/13/2021 15:39	Conductivity	444.68	uS/cm
GN-GSA-MW-10	4/13/2021 15:39	DO	0.39	mg/L
GN-GSA-MW-10	4/13/2021 15:39	Depth to Water Detail	21.4	ft
GN-GSA-MW-10	4/13/2021 15:39	Oxidation Reduction Potention	40.8	mv
GN-GSA-MW-10	4/13/2021 15:39	pH	7.22	SU
GN-GSA-MW-10	4/13/2021 15:39	Temperature	21.77	C
GN-GSA-MW-10	4/13/2021 15:39	Turbidity	0.16	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-GSA-MW-13	4/13/2021 16:24	Conductivity	477.27	uS/cm
GN-GSA-MW-13	4/13/2021 16:24	DO	0.66	mg/L
GN-GSA-MW-13	4/13/2021 16:24	Depth to Water Detail	22.28	ft
GN-GSA-MW-13	4/13/2021 16:24	Oxidation Reduction Potention	65.15	mv
GN-GSA-MW-13	4/13/2021 16:24	pH	7.16	SU
GN-GSA-MW-13	4/13/2021 16:24	Temperature	20.74	C
GN-GSA-MW-13	4/13/2021 16:24	Turbidity	0.39	NTU
GN-GSA-MW-13	4/13/2021 16:29	Conductivity	476.14	uS/cm
GN-GSA-MW-13	4/13/2021 16:29	DO	0.62	mg/L
GN-GSA-MW-13	4/13/2021 16:29	Depth to Water Detail	22.28	ft
GN-GSA-MW-13	4/13/2021 16:29	Oxidation Reduction Potention	61.32	mv
GN-GSA-MW-13	4/13/2021 16:29	pH	7.14	SU
GN-GSA-MW-13	4/13/2021 16:29	Temperature	20.78	C
GN-GSA-MW-13	4/13/2021 16:29	Turbidity	0.67	NTU
GN-GSA-MW-13	4/13/2021 16:34	Conductivity	473.49	uS/cm
GN-GSA-MW-13	4/13/2021 16:34	DO	0.61	mg/L
GN-GSA-MW-13	4/13/2021 16:34	Depth to Water Detail	22.28	ft
GN-GSA-MW-13	4/13/2021 16:34	Oxidation Reduction Potention	57.8	mv
GN-GSA-MW-13	4/13/2021 16:34	pH	7.16	SU
GN-GSA-MW-13	4/13/2021 16:34	Temperature	20.88	C
GN-GSA-MW-13	4/13/2021 16:34	Turbidity	0.58	NTU
GN-GSA-MW-13	4/13/2021 16:39	Conductivity	471.04	uS/cm
GN-GSA-MW-13	4/13/2021 16:39	DO	0.66	mg/L
GN-GSA-MW-13	4/13/2021 16:39	Depth to Water Detail	22.28	ft
GN-GSA-MW-13	4/13/2021 16:39	Oxidation Reduction Potention	55.07	mv
GN-GSA-MW-13	4/13/2021 16:39	pH	7.17	SU
GN-GSA-MW-13	4/13/2021 16:39	Temperature	20.81	C
GN-GSA-MW-13	4/13/2021 16:39	Turbidity	0.48	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-GSA-MW-1	4/13/2021 17:05	Conductivity	386.33	uS/cm
GN-GSA-MW-1	4/13/2021 17:05	DO	0.31	mg/L
GN-GSA-MW-1	4/13/2021 17:05	Depth to Water Detail	28.08	ft
GN-GSA-MW-1	4/13/2021 17:05	Oxidation Reduction Potention	-1.63	mv
GN-GSA-MW-1	4/13/2021 17:05	pH	7.77	SU
GN-GSA-MW-1	4/13/2021 17:05	Temperature	20.61	C
GN-GSA-MW-1	4/13/2021 17:05	Turbidity	0.33	NTU
GN-GSA-MW-1	4/13/2021 17:10	Conductivity	382.74	uS/cm
GN-GSA-MW-1	4/13/2021 17:10	DO	0.22	mg/L
GN-GSA-MW-1	4/13/2021 17:10	Depth to Water Detail	28.71	ft
GN-GSA-MW-1	4/13/2021 17:10	Oxidation Reduction Potention	-28.4	mv
GN-GSA-MW-1	4/13/2021 17:10	pH	7.76	SU
GN-GSA-MW-1	4/13/2021 17:10	Temperature	20.61	C
GN-GSA-MW-1	4/13/2021 17:10	Turbidity	0.18	NTU
GN-GSA-MW-1	4/13/2021 17:15	Conductivity	382.38	uS/cm
GN-GSA-MW-1	4/13/2021 17:15	DO	0.19	mg/L
GN-GSA-MW-1	4/13/2021 17:15	Depth to Water Detail	28.95	ft
GN-GSA-MW-1	4/13/2021 17:15	Oxidation Reduction Potention	-45.65	mv
GN-GSA-MW-1	4/13/2021 17:15	pH	7.74	SU
GN-GSA-MW-1	4/13/2021 17:15	Temperature	20.67	C
GN-GSA-MW-1	4/13/2021 17:15	Turbidity	0.15	NTU
GN-GSA-MW-1	4/13/2021 17:20	Conductivity	384.07	uS/cm
GN-GSA-MW-1	4/13/2021 17:20	DO	0.17	mg/L
GN-GSA-MW-1	4/13/2021 17:20	Depth to Water Detail	29.15	ft
GN-GSA-MW-1	4/13/2021 17:20	Oxidation Reduction Potention	-57.1	mv
GN-GSA-MW-1	4/13/2021 17:20	pH	7.71	SU
GN-GSA-MW-1	4/13/2021 17:20	Temperature	20.53	C
GN-GSA-MW-1	4/13/2021 17:20	Turbidity	0.22	NTU
GN-GSA-MW-1	4/13/2021 17:25	Conductivity	381.87	uS/cm
GN-GSA-MW-1	4/13/2021 17:25	DO	0.16	mg/L
GN-GSA-MW-1	4/13/2021 17:25	Depth to Water Detail	29.25	ft
GN-GSA-MW-1	4/13/2021 17:25	Oxidation Reduction Potention	-64.83	mv
GN-GSA-MW-1	4/13/2021 17:25	pH	7.7	SU
GN-GSA-MW-1	4/13/2021 17:25	Temperature	20.34	C
GN-GSA-MW-1	4/13/2021 17:25	Turbidity	0.17	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-GSA-MW-11	4/13/2021 12:53	Conductivity	128.67	uS/cm
GN-GSA-MW-11	4/13/2021 12:53	DO	1.66	mg/L
GN-GSA-MW-11	4/13/2021 12:53	Depth to Water Detail	21.23	ft
GN-GSA-MW-11	4/13/2021 12:53	Oxidation Reduction Potention	207.36	mv
GN-GSA-MW-11	4/13/2021 12:53	pH	5.23	SU
GN-GSA-MW-11	4/13/2021 12:53	Temperature	20.94	C
GN-GSA-MW-11	4/13/2021 12:53	Turbidity	1.84	NTU
GN-GSA-MW-11	4/13/2021 12:58	Conductivity	125.21	uS/cm
GN-GSA-MW-11	4/13/2021 12:58	DO	1.37	mg/L
GN-GSA-MW-11	4/13/2021 12:58	Depth to Water Detail	21.29	ft
GN-GSA-MW-11	4/13/2021 12:58	Oxidation Reduction Potention	206.06	mv
GN-GSA-MW-11	4/13/2021 12:58	pH	5.24	SU
GN-GSA-MW-11	4/13/2021 12:58	Temperature	21.01	C
GN-GSA-MW-11	4/13/2021 12:58	Turbidity	2.46	NTU
GN-GSA-MW-11	4/13/2021 13:03	Conductivity	114.93	uS/cm
GN-GSA-MW-11	4/13/2021 13:03	DO	1.16	mg/L
GN-GSA-MW-11	4/13/2021 13:03	Depth to Water Detail	21.29	ft
GN-GSA-MW-11	4/13/2021 13:03	Oxidation Reduction Potention	205.63	mv
GN-GSA-MW-11	4/13/2021 13:03	pH	5.22	SU
GN-GSA-MW-11	4/13/2021 13:03	Temperature	20.96	C
GN-GSA-MW-11	4/13/2021 13:03	Turbidity	0.89	NTU
GN-GSA-MW-11	4/13/2021 13:08	Conductivity	111.08	uS/cm
GN-GSA-MW-11	4/13/2021 13:08	DO	1.16	mg/L
GN-GSA-MW-11	4/13/2021 13:08	Depth to Water Detail	21.29	ft
GN-GSA-MW-11	4/13/2021 13:08	Oxidation Reduction Potention	203.25	mv
GN-GSA-MW-11	4/13/2021 13:08	pH	5.26	SU
GN-GSA-MW-11	4/13/2021 13:08	Temperature	21.07	C
GN-GSA-MW-11	4/13/2021 13:08	Turbidity	0.64	NTU
GN-GSA-MW-11	4/13/2021 13:13	Conductivity	107.25	uS/cm
GN-GSA-MW-11	4/13/2021 13:13	DO	1.02	mg/L
GN-GSA-MW-11	4/13/2021 13:13	Depth to Water Detail	21.29	ft
GN-GSA-MW-11	4/13/2021 13:13	Oxidation Reduction Potention	202.52	mv
GN-GSA-MW-11	4/13/2021 13:13	pH	5.31	SU
GN-GSA-MW-11	4/13/2021 13:13	Temperature	21.01	C
GN-GSA-MW-11	4/13/2021 13:13	Turbidity	1.11	NTU
GN-GSA-MW-11	4/13/2021 13:18	Conductivity	102.18	uS/cm
GN-GSA-MW-11	4/13/2021 13:18	DO	0.92	mg/L
GN-GSA-MW-11	4/13/2021 13:18	Depth to Water Detail	21.29	ft
GN-GSA-MW-11	4/13/2021 13:18	Oxidation Reduction Potention	200.42	mv
GN-GSA-MW-11	4/13/2021 13:18	pH	5.34	SU
GN-GSA-MW-11	4/13/2021 13:18	Temperature	20.92	C
GN-GSA-MW-11	4/13/2021 13:18	Turbidity	0.79	NTU
GN-GSA-MW-11	4/13/2021 13:23	Conductivity	105.72	uS/cm
GN-GSA-MW-11	4/13/2021 13:23	DO	0.86	mg/L

Alabama Power Company
Plant Gaston Gypsum Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-GSA-MW-11	4/13/2021 13:23	Depth to Water Detail	21.29	ft
GN-GSA-MW-11	4/13/2021 13:23	Oxidation Reduction Potention	197.97	mv
GN-GSA-MW-11	4/13/2021 13:23	pH	5.46	SU
GN-GSA-MW-11	4/13/2021 13:23	Temperature	20.96	C
GN-GSA-MW-11	4/13/2021 13:23	Turbidity	0.53	NTU

Alabama Power Company
Plant Gaston Gypsum Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-GSA-MW-12	4/13/2021 14:11	Conductivity	446.11	uS/cm
GN-GSA-MW-12	4/13/2021 14:11	DO	1.24	mg/L
GN-GSA-MW-12	4/13/2021 14:11	Depth to Water Detail	18.79	ft
GN-GSA-MW-12	4/13/2021 14:11	Oxidation Reduction Potention	163.8	mv
GN-GSA-MW-12	4/13/2021 14:11	pH	6.66	SU
GN-GSA-MW-12	4/13/2021 14:11	Temperature	20.15	C
GN-GSA-MW-12	4/13/2021 14:11	Turbidity	0.77	NTU
GN-GSA-MW-12	4/13/2021 14:16	Conductivity	446.91	uS/cm
GN-GSA-MW-12	4/13/2021 14:16	DO	0.67	mg/L
GN-GSA-MW-12	4/13/2021 14:16	Depth to Water Detail	18.84	ft
GN-GSA-MW-12	4/13/2021 14:16	Oxidation Reduction Potention	162.63	mv
GN-GSA-MW-12	4/13/2021 14:16	pH	6.58	SU
GN-GSA-MW-12	4/13/2021 14:16	Temperature	19.98	C
GN-GSA-MW-12	4/13/2021 14:16	Turbidity	0.71	NTU
GN-GSA-MW-12	4/13/2021 14:21	Conductivity	445.19	uS/cm
GN-GSA-MW-12	4/13/2021 14:21	DO	0.41	mg/L
GN-GSA-MW-12	4/13/2021 14:21	Depth to Water Detail	18.88	ft
GN-GSA-MW-12	4/13/2021 14:21	Oxidation Reduction Potention	156.57	mv
GN-GSA-MW-12	4/13/2021 14:21	pH	6.56	SU
GN-GSA-MW-12	4/13/2021 14:21	Temperature	20.12	C
GN-GSA-MW-12	4/13/2021 14:21	Turbidity	0.7	NTU
GN-GSA-MW-12	4/13/2021 14:26	Conductivity	443.27	uS/cm
GN-GSA-MW-12	4/13/2021 14:26	DO	0.32	mg/L
GN-GSA-MW-12	4/13/2021 14:26	Depth to Water Detail	18.88	ft
GN-GSA-MW-12	4/13/2021 14:26	Oxidation Reduction Potention	150.26	mv
GN-GSA-MW-12	4/13/2021 14:26	pH	6.61	SU
GN-GSA-MW-12	4/13/2021 14:26	Temperature	20.01	C
GN-GSA-MW-12	4/13/2021 14:26	Turbidity	0.7	NTU

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

2021 Compliance Event 2

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

Ants were present in the well casings of wells MW-9. MW-10 and MW-11. The well casing of well MW-2 was also full of ants and were present in the pump tubing during initial purging.

Rain was present during pumping and sampling of wells MW-3, MW-7 and MW-14S.

Field quality control procedures were performed as follows:

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

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

Analytical Report

Alabama Power

Sample Group : WMWGASG_1340

Project/Site : Gaston Gypsum
Wilsonville, AL 35186

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

Attention : Dustin Brooks & Greg Dyer

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

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

November 02, 2021

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory between October 05, 2021 and October 06, 2021. 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: Laura Midkiff

Digitally signed by Laura Midkiff
DN: cn=Laura Midkiff, o=Alabama Power Company, ou=Environmental Affairs, email=lbmidkif@southernco.com, c=US
Date: 2021.11.16 14:09:10 -06'00'

Supervision: T. Durant Maske

Digitally signed by T. Durant Maske
DN: cn=T. Durant Maske, o=Alabama Power Company, ou=Environmental Affairs, email=tdmaske@southernco.com, c=US
Date: 2021.11.16 15:54:07 -06'00'

REPORT OF LABORATORY ANALYSIS

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

Case Narrative

Alabama Power

Total Metals ICP

Gaston Gypsum

WMWGASG_1340

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
BB18470	710232	WMWGASG_1340
BB18471	710232	WMWGASG_1340
BB18472	710232	WMWGASG_1340
BB18473	710232	WMWGASG_1340
BB18474	710232	WMWGASG_1340
BB18475	710232	WMWGASG_1340
BB18476	710232	WMWGASG_1340
BB18500	710232	WMWGASG_1340
BB18501	710232	WMWGASG_1340
BB18502	710232	WMWGASG_1340
BB18503	710233	WMWGASG_1340
BB18504	710233	WMWGASG_1340
BB18505	710233	WMWGASG_1340
BB18506	710233	WMWGASG_1340
BB18507	710233	WMWGASG_1340
BB18508	710233	WMWGASG_1340
BB18509	710233	WMWGASG_1340
BB18510	710233	WMWGASG_1340
BB18652	710233	WMWGASG_1340

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

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- 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
BB18470	Calcium	10.15
BB18471	Calcium	10.15
BB18472	Calcium	10.15
BB18473	Calcium	10.15
BB18474	Calcium	10.15
BB18475	Calcium	10.15
BB18500	Calcium	10.15
BB18501	Calcium	10.15
BB18503	Calcium	10.15
BB18505	Calcium	10.15
BB18506	Calcium	10.15
BB18507	Calcium	10.15
BB18509	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_1340

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
BB18470	710206	WMWGASG_1340
BB18471	710206	WMWGASG_1340
BB18472	710206	WMWGASG_1340
BB18473	710206	WMWGASG_1340
BB18474	710206	WMWGASG_1340
BB18475	710206	WMWGASG_1340
BB18500	710206	WMWGASG_1340
BB18501	710206	WMWGASG_1340
BB18502	710206	WMWGASG_1340
BB18503	710206	WMWGASG_1340
BB18505	710207	WMWGASG_1340
BB18506	710207	WMWGASG_1340
BB18507	710207	WMWGASG_1340
BB18508	710207	WMWGASG_1340
BB18509	710207	WMWGASG_1340
BB18652	710207	WMWGASG_1340

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

General Quality Control Procedures:

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

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

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

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

Case Narrative

Alabama Power

Total Metals ICPMS

Gaston Gypsum

WMWGASG_1340

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
BB18470	710750	WMWGASG_1340
BB18471	710750	WMWGASG_1340
BB18472	710750	WMWGASG_1340
BB18473	710750	WMWGASG_1340
BB18474	710750	WMWGASG_1340
BB18475	710750	WMWGASG_1340
BB18476	710750	WMWGASG_1340
BB18500	710750	WMWGASG_1340
BB18501	710750	WMWGASG_1340
BB18502	710764	WMWGASG_1340
BB18503	710764	WMWGASG_1340
BB18504	710764	WMWGASG_1340
BB18505	710764	WMWGASG_1340
BB18506	710764	WMWGASG_1340
BB18507	710764	WMWGASG_1340
BB18508	710764	WMWGASG_1340
BB18509	710764	WMWGASG_1340
BB18510	710764	WMWGASG_1340
BB18652	710764	WMWGASG_1340

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 sample was diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

Sample ID	Analyte	Dilution Factor
BB18473	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_1340

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
BB18470	710710	WMWGASG_1340
BB18471	710710	WMWGASG_1340
BB18472	710710	WMWGASG_1340
BB18473	710710	WMWGASG_1340
BB18474	710710	WMWGASG_1340
BB18475	710710	WMWGASG_1340
BB18500	710710	WMWGASG_1340
BB18501	710710	WMWGASG_1340
BB18502	710710	WMWGASG_1340
BB18503	710712	WMWGASG_1340
BB18505	710712	WMWGASG_1340
BB18506	710712	WMWGASG_1340
BB18507	710712	WMWGASG_1340
BB18508	710712	WMWGASG_1340
BB18509	710712	WMWGASG_1340
BB18652	710712	WMWGASG_1340

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. 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

Mercury

Gaston Gypsum

WMWGASG_1340

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
BB18470	710153	WMWGASG_1340
BB18471	710153	WMWGASG_1340
BB18472	710153	WMWGASG_1340
BB18473	710153	WMWGASG_1340
BB18474	710153	WMWGASG_1340
BB18475	710153	WMWGASG_1340
BB18476	710153	WMWGASG_1340
BB18500	710153	WMWGASG_1340
BB18501	710153	WMWGASG_1340
BB18502	710153	WMWGASG_1340
BB18503	710154	WMWGASG_1340
BB18504	710154	WMWGASG_1340
BB18505	710154	WMWGASG_1340
BB18506	710154	WMWGASG_1340
BB18507	710154	WMWGASG_1340
BB18508	710154	WMWGASG_1340
BB18509	710154	WMWGASG_1340
BB18510	710154	WMWGASG_1340
BB18652	710154	WMWGASG_1340

4. All of the above samples were analyzed and prepared by EPA 245.1.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

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

Matrix Specific Quality Control Procedures:

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

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

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

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

Case Narrative

Alabama Power

TDS

Gaston Gypsum

WMWGASG_1340

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
BB18470	709652	WMWGASG_1340
BB18471	709652	WMWGASG_1340
BB18472	709652	WMWGASG_1340
BB18473	709652	WMWGASG_1340
BB18474	709652	WMWGASG_1340
BB18475	709652	WMWGASG_1340
BB18476	709652	WMWGASG_1340
BB18500	709653	WMWGASG_1340
BB18501	709653	WMWGASG_1340
BB18502	709653	WMWGASG_1340
BB18503	709653	WMWGASG_1340
BB18504	710066	WMWGASG_1340
BB18505	709653	WMWGASG_1340
BB18506	709653	WMWGASG_1340
BB18507	709653	WMWGASG_1340
BB18508	709653	WMWGASG_1340
BB18509	710066	WMWGASG_1340
BB18510	709653	WMWGASG_1340
BB18652	710144	WMWGASG_1340

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. RPD/2 was less than 5%.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue <2.5mg had the maximum volume of 150mL filtered. Affected samples are as follows:
    - BB18476
    - BB18510
    - BB18504

- Samples BB18674 & BB18744 were used as QC points for batches 710066 & 710144, respectively, but neither sample was included in project WMWGASG_1340.

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

Case Narrative

Alabama Power

Anions

Gaston Gypsum

WMWGASG_1340

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
BB18470	710074, 710332, & 710086	WMWGASG_1340
BB18471	710074, 710332, & 710086	WMWGASG_1340
BB18472	710074, 710332, & 710086	WMWGASG_1340
BB18473	710074, 710332, & 710086	WMWGASG_1340
BB18474	710074, 710332, & 710086	WMWGASG_1340
BB18475	710074, 710332, & 710086	WMWGASG_1340
BB18476	710074, 710332, & 710086	WMWGASG_1340
BB18500	710074, 710332, & 710086	WMWGASG_1340
BB18501	710074, 710332, & 710086	WMWGASG_1340
BB18502	710075, 710333, & 710087	WMWGASG_1340
BB18503	710075, 710333, & 710087	WMWGASG_1340
BB18504	710075, 710333, & 710087	WMWGASG_1340
BB18505	710075, 710333, & 710087	WMWGASG_1340
BB18506	710075, 710333, & 710087	WMWGASG_1340
BB18507	710075, 710333, & 710087	WMWGASG_1340
BB18508	710075, 710333, & 710087	WMWGASG_1340
BB18509	710075, 710333, & 710087	WMWGASG_1340
BB18510	710075, 710333, & 710087	WMWGASG_1340
BB18652	710075, 710333, & 710087	WMWGASG_1340

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

General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV), and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below the 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 was analyzed with each batch. Acceptance criteria for accuracy were met.
- A sample duplicate was analyzed with each batch. Acceptance criteria for precision were met.

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

Sample ID	Analyte	Dilution Factor
BB18500	Sulfate	8
BB18501	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_1340

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
BB18470	710447 & 710448	WMWGASG_1340
BB18471	710447 & 710448	WMWGASG_1340
BB18472	710447 & 710448	WMWGASG_1340
BB18473	710447 & 710448	WMWGASG_1340
BB18474	710447 & 710448	WMWGASG_1340
BB18475	710447 & 710448	WMWGASG_1340
BB18500	710447 & 710448	WMWGASG_1340
BB18501	710447 & 710448	WMWGASG_1340
BB18502	710447 & 710448	WMWGASG_1340
BB18503	710447 & 710448	WMWGASG_1340
BB18505	710447 & 710448	WMWGASG_1340
BB18506	710447 & 710448	WMWGASG_1340
BB18507	710447 & 710448	WMWGASG_1340
BB18508	710447 & 710448	WMWGASG_1340
BB18509	710447 & 710448	WMWGASG_1340
BB18652	710447 & 710448	WMWGASG_1340

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-14S

Location Code: WMWGASG
Collected: 10/4/21 10:29
Customer ID:
Submittal Date: 10/5/21 09:10

Laboratory ID Number: BB18470

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	10/13/21 10:10	10/15/21 09:29		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/13/21 10:10	10/15/21 12:40		10.15	48.0	mg/L	0.70035	4.06	
* Iron, Total	10/13/21 10:10	10/15/21 09:29		1.015	0.0334	mg/L	0.008120	0.0406	J
* Lithium, Total	10/13/21 10:10	10/15/21 09:29		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/13/21 10:10	10/15/21 09:29		1.015	9.18	mg/L	0.021315	0.406	
* Sodium, Total	10/13/21 10:10	10/15/21 09:29		1.015	14.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	10/13/21 09:10	10/14/21 10:47		1.015	0.0317	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	10/7/21 13:57	10/8/21 12:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/7/21 13:57	10/8/21 12:35		1.015	0.000158	mg/L	0.000068	0.000203	J
* Barium, Total	10/7/21 13:57	10/8/21 12:35		1.015	0.0240	mg/L	0.000102	0.000203	
* Beryllium, Total	10/7/21 13:57	10/8/21 12:35		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/7/21 13:57	10/8/21 12:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/7/21 13:57	10/8/21 12:35		1.015	0.000653	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/7/21 13:57	10/8/21 12:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/7/21 13:57	10/8/21 12:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/7/21 13:57	10/8/21 12:35		1.015	0.000456	mg/L	0.000068	0.000203	
* Potassium, Total	10/7/21 13:57	10/8/21 12:35		1.015	0.774	mg/L	0.169505	0.5075	
* Manganese, Total	10/7/21 13:57	10/8/21 12:35		1.015	0.0192	mg/L	0.000068	0.000203	
* Selenium, Total	10/7/21 13:57	10/8/21 12:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/7/21 13:57	10/8/21 12:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	10/7/21 14:45	10/8/21 12:28		1.015	0.0181	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	10/13/21 10:28	10/13/21 14:26		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	10/14/21 11:21	10/14/21 12:10		1	199	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	10/6/21 11:18	10/7/21 13:00		1	183	mg/L		25	

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.

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: 10/4/21 10:29
Customer ID:
Submittal Date: 10/5/21 09:10

Laboratory ID Number: BB18470

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	10/14/21 11:21	10/14/21 12:10		1	198	mg/L			
Carbonate Alkalinity, (calc.)	10/14/21 11:21	10/14/21 12:10		1	0.60	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	10/7/21 11:35	10/7/21 11:35		1	2.50	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	10/13/21 09:41	10/13/21 09:41		1	0.0838	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	10/7/21 09:18	10/7/21 09:18		1	3.78	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	10/4/21 10:26	10/4/21 10:26			323.87	uS/cm			FA
pH	10/4/21 10:26	10/4/21 10:26			7.21	SU			FA
Temperature	10/4/21 10:26	10/4/21 10:26			20.64	C			FA
Turbidity	10/4/21 10:26	10/4/21 10:26			1.58	NTU			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: 11/2/2021
Version: 3.4
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: 10/4/21 10:29
Customer ID:
Delivery Date: 10/5/21 09:10

Description: Gaston Gypsum - MW-14S

Laboratory ID Number: BB18470

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18501	Antimony, Total	mg/L	0.0000609	0.00100	0.100	0.0970	0.0968	0.0984	0.0850 to 0.115	97.0	70.0 to 130	0.206	20.0
BB18502	Boron, Total	mg/L	0.000625	0.0650	1.00	0.991	1.01	0.985	0.850 to 1.15	99.1	70.0 to 130	1.90	20.0
BB18502	Manganese, Dissolved	mg/L	-0.0000171	0.000147	0.100	0.114	0.110	0.108	0.0850 to 0.115	107	70.0 to 130	3.57	20.0
BB18501	Beryllium, Total	mg/L	0.0000563	0.000880	0.100	0.0966	0.0951	0.100	0.0850 to 0.115	96.6	70.0 to 130	1.56	20.0
BB18502	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00408	0.00404	0.004	0.00340 to 0.00460	102	70.0 to 130	0.985	20.0
BB18501	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.106	0.101	0.105	0.0850 to 0.115	106	70.0 to 130	4.83	20.0
BB18501	Chromium, Total	mg/L	0.0000015	0.000440	0.100	0.103	0.101	0.107	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BB18502	Magnesium, Total	mg/L	-0.00708	0.0462	5.00	5.42	5.52	5.09	4.25 to 5.75	101	70.0 to 130	1.83	20.0
BB18501	Manganese, Total	mg/L	0.0000068	0.000147	0.100	0.544	0.542	0.107	0.0850 to 0.115	98.0	70.0 to 130	0.368	20.0
BB18503	Iron, Dissolved	mg/L	0.000146	0.0176	0.2	0.220	0.218	0.203	0.170 to 0.230	99.4	70.0 to 130	0.913	20.0
BB18501	Lead, Total	mg/L	0.0000016	0.000147	0.100	0.108	0.104	0.105	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BB18501	Arsenic, Total	mg/L	-0.0000045	0.000147	0.100	0.103	0.105	0.106	0.0850 to 0.115	102	70.0 to 130	1.92	20.0
BB18502	Lithium, Total	mg/L	-2.030E-05	0.0154	0.200	0.197	0.199	0.197	0.170 to 0.230	98.5	70.0 to 130	1.01	20.0
BB18501	Potassium, Total	mg/L	0.0112	0.367	10.0	10.2	9.73	10.0	8.50 to 11.5	99.0	70.0 to 130	4.72	20.0
BB18501	Thallium, Total	mg/L	-0.0000091	0.000147	0.100	0.110	0.107	0.109	0.0850 to 0.115	110	70.0 to 130	2.76	20.0
BB18502	Sodium, Total	mg/L	0.00157	0.0660	5.00	7.41	7.49	4.98	4.25 to 5.75	99.8	70.0 to 130	1.07	20.0
BB18501	Cobalt, Total	mg/L	-0.0000180	0.000147	0.100	0.102	0.101	0.107	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BB18501	Molybdenum, Total	mg/L	0.0000336	0.000147	0.100	0.102	0.100	0.104	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BB18502	Calcium, Total	mg/L	-0.000307	0.152	5.00	5.57	5.64	5.05	4.25 to 5.75	101	70.0 to 130	1.25	20.0
BB18501	Selenium, Total	mg/L	0.000106	0.00100	0.100	0.107	0.103	0.104	0.0850 to 0.115	107	70.0 to 130	3.81	20.0
BB18502	Iron, Total	mg/L	0.000383	0.0176	0.2	0.211	0.212	0.202	0.170 to 0.230	100	70.0 to 130	0.473	20.0
BB18501	Barium, Total	mg/L	-0.0000652	0.000200	0.100	0.150	0.147	0.0988	0.0850 to 0.115	98.3	70.0 to 130	2.02	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: 10/4/21 10:29
Customer ID:
Delivery Date: 10/5/21 09:10

Description: Gaston Gypsum - MW-14S

Laboratory ID Number: BB18470

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18475	Solids, Dissolved	mg/L	-1.00	25.0			301	51.0	40.0 to 60.0			1.69	5.00
BB18501	Chloride	mg/L	0.00758	1.00	10.0	19.5	9.50	10.2	9.00 to 11.0	99.8	80.0 to 120	0.210	20.0
BB18652	Alkalinity, Total as CaCO3	mg/L					4.36	50.7	45.0 to 55.0			7.93	10.0
BB18501	Fluoride	mg/L	0.00708	0.100	2.50	2.64	0.0382	2.55	2.25 to 2.75	106	80.0 to 120	0.00	20.0
BB18501	Sulfate	mg/L	0.101	1.00	200	321	113	19.9	18.0 to 22.0	104	80.0 to 120	0.889	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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-3

Location Code: WMWGASG
Collected: 10/4/21 11:48
Customer ID:
Submittal Date: 10/5/21 09:10

Laboratory ID Number: BB18471

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	10/13/21 10:10	10/15/21 09:32		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/13/21 10:10	10/15/21 12:43		10.15	43.7	mg/L	0.70035	4.06	
* Iron, Total	10/13/21 10:10	10/15/21 09:32		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	10/13/21 10:10	10/15/21 09:32		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/13/21 10:10	10/15/21 09:32		1.015	2.46	mg/L	0.021315	0.406	
* Sodium, Total	10/13/21 10:10	10/15/21 09:32		1.015	4.94	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	10/13/21 09:10	10/14/21 10:50		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	10/7/21 13:57	10/8/21 12:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/7/21 13:57	10/8/21 12:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	10/7/21 13:57	10/8/21 12:39		1.015	0.0232	mg/L	0.000102	0.000203	
* Beryllium, Total	10/7/21 13:57	10/8/21 12:39		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/7/21 13:57	10/8/21 12:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/7/21 13:57	10/8/21 12:39		1.015	0.000455	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/7/21 13:57	10/8/21 12:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/7/21 13:57	10/8/21 12:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/7/21 13:57	10/8/21 12:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	10/7/21 13:57	10/8/21 12:39		1.015	8.29	mg/L	0.169505	0.5075	
* Manganese, Total	10/7/21 13:57	10/8/21 12:39		1.015	0.0104	mg/L	0.000068	0.000203	
* Selenium, Total	10/7/21 13:57	10/8/21 12:39		1.015	0.000598	mg/L	0.000508	0.001015	J
* Thallium, Total	10/7/21 13:57	10/8/21 12:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	10/7/21 14:45	10/8/21 12:32		1.015	0.00295	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	10/13/21 10:28	10/13/21 14:30		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	10/14/21 11:21	10/14/21 12:10		1	152	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	10/6/21 11:18	10/7/21 13:00		1	168	mg/L		25	

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: 11/2/2021
Version: 3.4
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: 10/4/21 11:48
Customer ID:
Submittal Date: 10/5/21 09:10

Laboratory ID Number: BB18471

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	10/14/21 11:21	10/14/21 12:10		1	152	mg/L			
Carbonate Alkalinity, (calc.)	10/14/21 11:21	10/14/21 12:10		1	0.06	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	10/7/21 11:36	10/7/21 11:36		1	2.88	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	10/13/21 09:42	10/13/21 09:42		1	0.0637	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	10/7/21 09:19	10/7/21 09:19		1	8.09	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	10/4/21 11:45	10/4/21 11:45			250.08	uS/cm			FA
pH	10/4/21 11:45	10/4/21 11:45			6.43	SU			FA
Temperature	10/4/21 11:45	10/4/21 11:45			21.03	C			FA
Turbidity	10/4/21 11:45	10/4/21 11:45			0.48	NTU			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: 11/2/2021
Version: 3.4
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: 10/4/21 11:48
Customer ID:
Delivery Date: 10/5/21 09:10

Description: Gaston Gypsum - MW-3

Laboratory ID Number: BB18471

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18502	Manganese, Dissolved	mg/L	-0.0000171	0.000147	0.100	0.114	0.110	0.108	0.0850 to 0.115	107	70.0 to 130	3.57	20.0
BB18502	Magnesium, Total	mg/L	-0.00708	0.0462	5.00	5.42	5.52	5.09	4.25 to 5.75	101	70.0 to 130	1.83	20.0
BB18501	Antimony, Total	mg/L	0.0000609	0.00100	0.100	0.0970	0.0968	0.0984	0.0850 to 0.115	97.0	70.0 to 130	0.206	20.0
BB18502	Boron, Total	mg/L	0.000625	0.0650	1.00	0.991	1.01	0.985	0.850 to 1.15	99.1	70.0 to 130	1.90	20.0
BB18501	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.106	0.101	0.105	0.0850 to 0.115	106	70.0 to 130	4.83	20.0
BB18501	Chromium, Total	mg/L	0.0000015	0.000440	0.100	0.103	0.101	0.107	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BB18501	Manganese, Total	mg/L	0.0000068	0.000147	0.100	0.544	0.542	0.107	0.0850 to 0.115	98.0	70.0 to 130	0.368	20.0
BB18501	Beryllium, Total	mg/L	0.0000563	0.000880	0.100	0.0966	0.0951	0.100	0.0850 to 0.115	96.6	70.0 to 130	1.56	20.0
BB18502	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00408	0.00404	0.004	0.00340 to 0.00460	102	70.0 to 130	0.985	20.0
BB18503	Iron, Dissolved	mg/L	0.000146	0.0176	0.2	0.220	0.218	0.203	0.170 to 0.230	99.4	70.0 to 130	0.913	20.0
BB18501	Lead, Total	mg/L	0.0000016	0.000147	0.100	0.108	0.104	0.105	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BB18501	Arsenic, Total	mg/L	-0.0000045	0.000147	0.100	0.103	0.105	0.106	0.0850 to 0.115	102	70.0 to 130	1.92	20.0
BB18502	Lithium, Total	mg/L	-2.030E-05	0.0154	0.200	0.197	0.199	0.197	0.170 to 0.230	98.5	70.0 to 130	1.01	20.0
BB18501	Potassium, Total	mg/L	0.0112	0.367	10.0	10.2	9.73	10.0	8.50 to 11.5	99.0	70.0 to 130	4.72	20.0
BB18501	Thallium, Total	mg/L	-0.0000091	0.000147	0.100	0.110	0.107	0.109	0.0850 to 0.115	110	70.0 to 130	2.76	20.0
BB18502	Sodium, Total	mg/L	0.00157	0.0660	5.00	7.41	7.49	4.98	4.25 to 5.75	99.8	70.0 to 130	1.07	20.0
BB18501	Cobalt, Total	mg/L	-0.0000180	0.000147	0.100	0.102	0.101	0.107	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BB18501	Molybdenum, Total	mg/L	0.0000336	0.000147	0.100	0.102	0.100	0.104	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BB18502	Calcium, Total	mg/L	-0.000307	0.152	5.00	5.57	5.64	5.05	4.25 to 5.75	101	70.0 to 130	1.25	20.0
BB18501	Selenium, Total	mg/L	0.000106	0.00100	0.100	0.107	0.103	0.104	0.0850 to 0.115	107	70.0 to 130	3.81	20.0
BB18502	Iron, Total	mg/L	0.000383	0.0176	0.2	0.211	0.212	0.202	0.170 to 0.230	100	70.0 to 130	0.473	20.0
BB18501	Barium, Total	mg/L	-0.0000652	0.000200	0.100	0.150	0.147	0.0988	0.0850 to 0.115	98.3	70.0 to 130	2.02	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: 10/4/21 11:48
Customer ID:
Delivery Date: 10/5/21 09:10

Description: Gaston Gypsum - MW-3

Laboratory ID Number: BB18471

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18475	Solids, Dissolved	mg/L	-1.00	25.0			301	51.0	40.0 to 60.0			1.69	5.00
BB18501	Chloride	mg/L	0.00758	1.00	10.0	19.5	9.50	10.2	9.00 to 11.0	99.8	80.0 to 120	0.210	20.0
BB18652	Alkalinity, Total as CaCO3	mg/L					4.36	50.7	45.0 to 55.0			7.93	10.0
BB18501	Fluoride	mg/L	0.00708	0.100	2.50	2.64	0.0382	2.55	2.25 to 2.75	106	80.0 to 120	0.00	20.0
BB18501	Sulfate	mg/L	0.101	1.00	200	321	113	19.9	18.0 to 22.0	104	80.0 to 120	0.889	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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-2

Location Code: WMWGASG
Collected: 10/4/21 13:01
Customer ID:
Submittal Date: 10/5/21 09:10

Laboratory ID Number: BB18472

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	10/13/21 10:10	10/15/21 09:35		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/13/21 10:10	10/15/21 12:46		10.15	85.0	mg/L	0.70035	4.06	
* Iron, Total	10/13/21 10:10	10/15/21 09:35		1.015	0.0734	mg/L	0.008120	0.0406	
* Lithium, Total	10/13/21 10:10	10/15/21 09:35		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/13/21 10:10	10/15/21 09:35		1.015	20.4	mg/L	0.021315	0.406	
* Sodium, Total	10/13/21 10:10	10/15/21 09:35		1.015	2.07	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	10/13/21 09:10	10/14/21 10:53		1.015	0.0590	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	10/7/21 13:57	10/8/21 12:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/7/21 13:57	10/8/21 12:42		1.015	0.000168	mg/L	0.000068	0.000203	J
* Barium, Total	10/7/21 13:57	10/8/21 12:42		1.015	0.0353	mg/L	0.000102	0.000203	
* Beryllium, Total	10/7/21 13:57	10/8/21 12:42		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/7/21 13:57	10/8/21 12:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/7/21 13:57	10/8/21 12:42		1.015	0.000605	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/7/21 13:57	10/8/21 12:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/7/21 13:57	10/8/21 12:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/7/21 13:57	10/8/21 12:42		1.015	0.000338	mg/L	0.000068	0.000203	
* Potassium, Total	10/7/21 13:57	10/8/21 12:42		1.015	0.514	mg/L	0.169505	0.5075	
* Manganese, Total	10/7/21 13:57	10/8/21 12:42		1.015	0.00335	mg/L	0.000068	0.000203	
* Selenium, Total	10/7/21 13:57	10/8/21 12:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/7/21 13:57	10/8/21 12:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	10/7/21 14:45	10/8/21 12:35		1.015	0.00327	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	10/13/21 10:28	10/13/21 14:34		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	10/14/21 11:21	10/14/21 12:10		1	251	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	10/6/21 11:18	10/7/21 13:00		1	287	mg/L		25	

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: 11/2/2021
Version: 3.4
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: 10/4/21 13:01
Customer ID:
Submittal Date: 10/5/21 09:10

Laboratory ID Number: BB18472

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	10/14/21 11:21	10/14/21 12:10		1	250	mg/L			
Carbonate Alkalinity, (calc.)	10/14/21 11:21	10/14/21 12:10		1	0.54	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	10/7/21 11:37	10/7/21 11:37		1	3.59	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	10/13/21 09:43	10/13/21 09:43		1	0.0664	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	10/7/21 09:21	10/7/21 09:21		1	6.86	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	10/4/21 12:58	10/4/21 12:58			498.83	uS/cm			FA
pH	10/4/21 12:58	10/4/21 12:58			7.13	SU			FA
Temperature	10/4/21 12:58	10/4/21 12:58			22.96	C			FA
Turbidity	10/4/21 12:58	10/4/21 12:58			1.62	NTU			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: 11/2/2021
Version: 3.4
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: 10/4/21 13:01
Customer ID:
Delivery Date: 10/5/21 09:10

Description: Gaston Gypsum - MW-2

Laboratory ID Number: BB18472

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18502	Manganese, Dissolved	mg/L	-0.0000171	0.000147	0.100	0.114	0.110	0.108	0.0850 to 0.115	107	70.0 to 130	3.57	20.0
BB18502	Sodium, Total	mg/L	0.00157	0.0660	5.00	7.41	7.49	4.98	4.25 to 5.75	99.8	70.0 to 130	1.07	20.0
BB18501	Cobalt, Total	mg/L	-0.0000180	0.000147	0.100	0.102	0.101	0.107	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BB18501	Molybdenum, Total	mg/L	0.0000336	0.000147	0.100	0.102	0.100	0.104	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BB18502	Calcium, Total	mg/L	-0.000307	0.152	5.00	5.57	5.64	5.05	4.25 to 5.75	101	70.0 to 130	1.25	20.0
BB18501	Selenium, Total	mg/L	0.000106	0.00100	0.100	0.107	0.103	0.104	0.0850 to 0.115	107	70.0 to 130	3.81	20.0
BB18502	Iron, Total	mg/L	0.000383	0.0176	0.2	0.211	0.212	0.202	0.170 to 0.230	100	70.0 to 130	0.473	20.0
BB18501	Barium, Total	mg/L	-0.0000652	0.000200	0.100	0.150	0.147	0.0988	0.0850 to 0.115	98.3	70.0 to 130	2.02	20.0
BB18501	Antimony, Total	mg/L	0.0000609	0.00100	0.100	0.0970	0.0968	0.0984	0.0850 to 0.115	97.0	70.0 to 130	0.206	20.0
BB18502	Boron, Total	mg/L	0.000625	0.0650	1.00	0.991	1.01	0.985	0.850 to 1.15	99.1	70.0 to 130	1.90	20.0
BB18501	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.106	0.101	0.105	0.0850 to 0.115	106	70.0 to 130	4.83	20.0
BB18501	Chromium, Total	mg/L	0.0000015	0.000440	0.100	0.103	0.101	0.107	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BB18501	Manganese, Total	mg/L	0.0000068	0.000147	0.100	0.544	0.542	0.107	0.0850 to 0.115	98.0	70.0 to 130	0.368	20.0
BB18502	Magnesium, Total	mg/L	-0.00708	0.0462	5.00	5.42	5.52	5.09	4.25 to 5.75	101	70.0 to 130	1.83	20.0
BB18501	Beryllium, Total	mg/L	0.0000563	0.000880	0.100	0.0966	0.0951	0.100	0.0850 to 0.115	96.6	70.0 to 130	1.56	20.0
BB18502	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00408	0.00404	0.004	0.00340 to 0.00460	102	70.0 to 130	0.985	20.0
BB18503	Iron, Dissolved	mg/L	0.000146	0.0176	0.2	0.220	0.218	0.203	0.170 to 0.230	99.4	70.0 to 130	0.913	20.0
BB18501	Lead, Total	mg/L	0.0000016	0.000147	0.100	0.108	0.104	0.105	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BB18501	Arsenic, Total	mg/L	-0.0000045	0.000147	0.100	0.103	0.105	0.106	0.0850 to 0.115	102	70.0 to 130	1.92	20.0
BB18502	Lithium, Total	mg/L	-2.030E-05	0.0154	0.200	0.197	0.199	0.197	0.170 to 0.230	98.5	70.0 to 130	1.01	20.0
BB18501	Potassium, Total	mg/L	0.0112	0.367	10.0	10.2	9.73	10.0	8.50 to 11.5	99.0	70.0 to 130	4.72	20.0
BB18501	Thallium, Total	mg/L	-0.0000091	0.000147	0.100	0.110	0.107	0.109	0.0850 to 0.115	110	70.0 to 130	2.76	20.0

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

Reported: 11/2/2021
Version: 3.4
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASG
Sample Date: 10/4/21 13:01
Customer ID:
Delivery Date: 10/5/21 09:10

Description: Gaston Gypsum - MW-2

Laboratory ID Number: BB18472

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18501	Chloride	mg/L	0.00758	1.00	10.0	19.5	9.50	10.2	9.00 to 11.0	99.8	80.0 to 120	0.210	20.0
BB18652	Alkalinity, Total as CaCO3	mg/L					4.36	50.7	45.0 to 55.0			7.93	10.0
BB18501	Fluoride	mg/L	0.00708	0.100	2.50	2.64	0.0382	2.55	2.25 to 2.75	106	80.0 to 120	0.00	20.0
BB18501	Sulfate	mg/L	0.101	1.00	200	321	113	19.9	18.0 to 22.0	104	80.0 to 120	0.889	20.0
BB18475	Solids, Dissolved	mg/L	-1.00	25.0			301	51.0	40.0 to 60.0			1.69	5.00

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-1

Location Code: WMWGASG
Collected: 10/4/21 14:11
Customer ID:
Submittal Date: 10/5/21 09:10

Laboratory ID Number: BB18473

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	10/13/21 10:10	10/15/21 09:39		1.015	0.0343	mg/L	0.030000	0.1015	J
* Calcium, Total	10/13/21 10:10	10/15/21 12:50		10.15	45.4	mg/L	0.70035	4.06	
* Iron, Total	10/13/21 10:10	10/15/21 09:39		1.015	0.239	mg/L	0.008120	0.0406	
* Lithium, Total	10/13/21 10:10	10/15/21 09:39		1.015	0.00963	mg/L	0.007105	0.01999956	J
* Magnesium, Total	10/13/21 10:10	10/15/21 09:39		1.015	22.6	mg/L	0.021315	0.406	
* Sodium, Total	10/13/21 10:10	10/15/21 09:39		1.015	9.84	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	10/13/21 09:10	10/14/21 10:57		1.015	0.233	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	10/7/21 13:57	10/8/21 12:46		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/7/21 13:57	10/8/21 12:46		1.015	0.00335	mg/L	0.000068	0.000203	
* Barium, Total	10/7/21 13:57	10/8/21 14:22		5.075	1.92	mg/L	0.000508	0.001015	
* Beryllium, Total	10/7/21 13:57	10/8/21 12:46		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/7/21 13:57	10/8/21 12:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/7/21 13:57	10/8/21 12:46		1.015	0.000207	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/7/21 13:57	10/8/21 12:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/7/21 13:57	10/8/21 12:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/7/21 13:57	10/8/21 12:46		1.015	0.00372	mg/L	0.000068	0.000203	
* Potassium, Total	10/7/21 13:57	10/8/21 12:46		1.015	1.16	mg/L	0.169505	0.5075	
* Manganese, Total	10/7/21 13:57	10/8/21 12:46		1.015	0.00681	mg/L	0.000068	0.000203	
* Selenium, Total	10/7/21 13:57	10/8/21 12:46		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/7/21 13:57	10/8/21 12:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	10/7/21 14:45	10/8/21 12:39		1.015	0.00691	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	10/13/21 10:28	10/13/21 14:38		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	10/14/21 11:21	10/14/21 12:10		1	207	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	10/6/21 11:18	10/7/21 13:00		1	221	mg/L		25	

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: 11/2/2021
Version: 3.4
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: 10/4/21 14:11
Customer ID:
Submittal Date: 10/5/21 09:10

Laboratory ID Number: BB18473

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	10/14/21 11:21	10/14/21 12:10		1	206	mg/L			
Carbonate Alkalinity, (calc.)	10/14/21 11:21	10/14/21 12:10		1	1.14	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	10/7/21 11:39	10/7/21 11:39		1	2.58	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	10/13/21 09:44	10/13/21 09:44		1	0.376	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	10/7/21 09:22	10/7/21 09:22		1	4.08	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	10/4/21 14:08	10/4/21 14:08			375.34	uS/cm			FA
pH	10/4/21 14:08	10/4/21 14:08			7.33	SU			FA
Temperature	10/4/21 14:08	10/4/21 14:08			20.73	C			FA
Turbidity	10/4/21 14:08	10/4/21 14:08			0.6	NTU			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: 11/2/2021
Version: 3.4
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: 10/4/21 14:11
Customer ID:
Delivery Date: 10/5/21 09:10

Description: Gaston Gypsum - MW-1

Laboratory ID Number: BB18473

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18502	Manganese, Dissolved	mg/L	-0.0000171	0.000147	0.100	0.114	0.110	0.108	0.0850 to 0.115	107	70.0 to 130	3.57	20.0
BB18501	Antimony, Total	mg/L	0.0000609	0.00100	0.100	0.0970	0.0968	0.0984	0.0850 to 0.115	97.0	70.0 to 130	0.206	20.0
BB18502	Boron, Total	mg/L	0.000625	0.0650	1.00	0.991	1.01	0.985	0.850 to 1.15	99.1	70.0 to 130	1.90	20.0
BB18502	Magnesium, Total	mg/L	-0.00708	0.0462	5.00	5.42	5.52	5.09	4.25 to 5.75	101	70.0 to 130	1.83	20.0
BB18501	Beryllium, Total	mg/L	0.0000563	0.000880	0.100	0.0966	0.0951	0.100	0.0850 to 0.115	96.6	70.0 to 130	1.56	20.0
BB18502	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00408	0.00404	0.004	0.00340 to 0.00460	102	70.0 to 130	0.985	20.0
BB18503	Iron, Dissolved	mg/L	0.000146	0.0176	0.2	0.220	0.218	0.203	0.170 to 0.230	99.4	70.0 to 130	0.913	20.0
BB18501	Lead, Total	mg/L	0.0000016	0.000147	0.100	0.108	0.104	0.105	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BB18501	Arsenic, Total	mg/L	-0.0000045	0.000147	0.100	0.103	0.105	0.106	0.0850 to 0.115	102	70.0 to 130	1.92	20.0
BB18502	Lithium, Total	mg/L	-2.030E-05	0.0154	0.200	0.197	0.199	0.197	0.170 to 0.230	98.5	70.0 to 130	1.01	20.0
BB18501	Potassium, Total	mg/L	0.0112	0.367	10.0	10.2	9.73	10.0	8.50 to 11.5	99.0	70.0 to 130	4.72	20.0
BB18501	Thallium, Total	mg/L	-0.0000091	0.000147	0.100	0.110	0.107	0.109	0.0850 to 0.115	110	70.0 to 130	2.76	20.0
BB18501	Manganese, Total	mg/L	0.0000068	0.000147	0.100	0.544	0.542	0.107	0.0850 to 0.115	98.0	70.0 to 130	0.368	20.0
BB18501	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.106	0.101	0.105	0.0850 to 0.115	106	70.0 to 130	4.83	20.0
BB18501	Chromium, Total	mg/L	0.0000015	0.000440	0.100	0.103	0.101	0.107	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BB18502	Sodium, Total	mg/L	0.00157	0.0660	5.00	7.41	7.49	4.98	4.25 to 5.75	99.8	70.0 to 130	1.07	20.0
BB18501	Cobalt, Total	mg/L	-0.0000180	0.000147	0.100	0.102	0.101	0.107	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BB18501	Molybdenum, Total	mg/L	0.0000336	0.000147	0.100	0.102	0.100	0.104	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BB18502	Calcium, Total	mg/L	-0.000307	0.152	5.00	5.57	5.64	5.05	4.25 to 5.75	101	70.0 to 130	1.25	20.0
BB18501	Selenium, Total	mg/L	0.000106	0.00100	0.100	0.107	0.103	0.104	0.0850 to 0.115	107	70.0 to 130	3.81	20.0
BB18502	Iron, Total	mg/L	0.000383	0.0176	0.2	0.211	0.212	0.202	0.170 to 0.230	100	70.0 to 130	0.473	20.0
BB18501	Barium, Total	mg/L	-0.0000652	0.000200	0.100	0.150	0.147	0.0988	0.0850 to 0.115	98.3	70.0 to 130	2.02	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: 10/4/21 14:11
Customer ID:
Delivery Date: 10/5/21 09:10

Description: Gaston Gypsum - MW-1

Laboratory ID Number: BB18473

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18501	Chloride	mg/L	0.00758	1.00	10.0	19.5	9.50	10.2	9.00 to 11.0	99.8	80.0 to 120	0.210	20.0
BB18652	Alkalinity, Total as CaCO3	mg/L					4.36	50.7	45.0 to 55.0			7.93	10.0
BB18501	Fluoride	mg/L	0.00708	0.100	2.50	2.64	0.0382	2.55	2.25 to 2.75	106	80.0 to 120	0.00	20.0
BB18501	Sulfate	mg/L	0.101	1.00	200	321	113	19.9	18.0 to 22.0	104	80.0 to 120	0.889	20.0
BB18475	Solids, Dissolved	mg/L	-1.00	25.0			301	51.0	40.0 to 60.0			1.69	5.00

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-13

Location Code: WMWGASG
Collected: 10/4/21 14:58
Customer ID:
Submittal Date: 10/5/21 09:10

Laboratory ID Number: BB18474

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	10/13/21 10:10	10/15/21 09:42		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/13/21 10:10	10/15/21 12:53		10.15	92.2	mg/L	0.70035	4.06	
* Iron, Total	10/13/21 10:10	10/15/21 09:42		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	10/13/21 10:10	10/15/21 09:42		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/13/21 10:10	10/15/21 09:42		1.015	10.8	mg/L	0.021315	0.406	
* Sodium, Total	10/13/21 10:10	10/15/21 09:42		1.015	3.45	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	10/13/21 09:10	10/14/21 11:00		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	10/7/21 13:57	10/8/21 12:50		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/7/21 13:57	10/8/21 12:50		1.015	0.000117	mg/L	0.000068	0.000203	J
* Barium, Total	10/7/21 13:57	10/8/21 12:50		1.015	0.0369	mg/L	0.000102	0.000203	
* Beryllium, Total	10/7/21 13:57	10/8/21 12:50		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/7/21 13:57	10/8/21 12:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/7/21 13:57	10/8/21 12:50		1.015	0.000547	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/7/21 13:57	10/8/21 12:50		1.015	0.000102	mg/L	0.000068	0.000203	J
* Lead, Total	10/7/21 13:57	10/8/21 12:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/7/21 13:57	10/8/21 12:50		1.015	0.000162	mg/L	0.000068	0.000203	J
* Potassium, Total	10/7/21 13:57	10/8/21 12:50		1.015	0.903	mg/L	0.169505	0.5075	
* Manganese, Total	10/7/21 13:57	10/8/21 12:50		1.015	0.00291	mg/L	0.000068	0.000203	
* Selenium, Total	10/7/21 13:57	10/8/21 12:50		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/7/21 13:57	10/8/21 12:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	10/7/21 14:45	10/8/21 12:42		1.015	0.000211	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	10/13/21 10:28	10/13/21 14:42		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	10/14/21 11:21	10/14/21 12:10		1	290	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	10/6/21 11:18	10/7/21 13:00		1	277	mg/L		25	

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: 11/2/2021
Version: 3.4
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: 10/4/21 14:58
Customer ID:
Submittal Date: 10/5/21 09:10

Laboratory ID Number: BB18474

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	10/14/21 11:21	10/14/21 12:10		1	289	mg/L			
Carbonate Alkalinity, (calc.)	10/14/21 11:21	10/14/21 12:10		1	0.57	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	10/7/21 11:40	10/7/21 11:40		1	3.37	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	10/13/21 09:46	10/13/21 09:46		1	0.0748	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	10/7/21 09:23	10/7/21 09:23		1	7.18	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	10/4/21 14:55	10/4/21 14:55			474.43	uS/cm			FA
pH	10/4/21 14:55	10/4/21 14:55			6.95	SU			FA
Temperature	10/4/21 14:55	10/4/21 14:55			20.26	C			FA
Turbidity	10/4/21 14:55	10/4/21 14:55			0.35	NTU			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: 11/2/2021
Version: 3.4
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: 10/4/21 14:58
Customer ID:
Delivery Date: 10/5/21 09:10

Description: Gaston Gypsum - MW-13

Laboratory ID Number: BB18474

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18502	Manganese, Dissolved	mg/L	-0.0000171	0.000147	0.100	0.114	0.110	0.108	0.0850 to 0.115	107	70.0 to 130	3.57	20.0
BB18502	Magnesium, Total	mg/L	-0.00708	0.0462	5.00	5.42	5.52	5.09	4.25 to 5.75	101	70.0 to 130	1.83	20.0
BB18501	Antimony, Total	mg/L	0.0000609	0.00100	0.100	0.0970	0.0968	0.0984	0.0850 to 0.115	97.0	70.0 to 130	0.206	20.0
BB18502	Boron, Total	mg/L	0.000625	0.0650	1.00	0.991	1.01	0.985	0.850 to 1.15	99.1	70.0 to 130	1.90	20.0
BB18501	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.106	0.101	0.105	0.0850 to 0.115	106	70.0 to 130	4.83	20.0
BB18501	Chromium, Total	mg/L	0.0000015	0.000440	0.100	0.103	0.101	0.107	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BB18501	Beryllium, Total	mg/L	0.0000563	0.000880	0.100	0.0966	0.0951	0.100	0.0850 to 0.115	96.6	70.0 to 130	1.56	20.0
BB18502	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00408	0.00404	0.004	0.00340 to 0.00460	102	70.0 to 130	0.985	20.0
BB18502	Sodium, Total	mg/L	0.00157	0.0660	5.00	7.41	7.49	4.98	4.25 to 5.75	99.8	70.0 to 130	1.07	20.0
BB18501	Cobalt, Total	mg/L	-0.0000180	0.000147	0.100	0.102	0.101	0.107	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BB18501	Molybdenum, Total	mg/L	0.0000336	0.000147	0.100	0.102	0.100	0.104	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BB18502	Calcium, Total	mg/L	-0.000307	0.152	5.00	5.57	5.64	5.05	4.25 to 5.75	101	70.0 to 130	1.25	20.0
BB18501	Selenium, Total	mg/L	0.000106	0.00100	0.100	0.107	0.103	0.104	0.0850 to 0.115	107	70.0 to 130	3.81	20.0
BB18502	Iron, Total	mg/L	0.000383	0.0176	0.2	0.211	0.212	0.202	0.170 to 0.230	100	70.0 to 130	0.473	20.0
BB18501	Barium, Total	mg/L	-0.0000652	0.000200	0.100	0.150	0.147	0.0988	0.0850 to 0.115	98.3	70.0 to 130	2.02	20.0
BB18501	Manganese, Total	mg/L	0.0000068	0.000147	0.100	0.544	0.542	0.107	0.0850 to 0.115	98.0	70.0 to 130	0.368	20.0
BB18503	Iron, Dissolved	mg/L	0.000146	0.0176	0.2	0.220	0.218	0.203	0.170 to 0.230	99.4	70.0 to 130	0.913	20.0
BB18501	Lead, Total	mg/L	0.0000016	0.000147	0.100	0.108	0.104	0.105	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BB18501	Arsenic, Total	mg/L	-0.0000045	0.000147	0.100	0.103	0.105	0.106	0.0850 to 0.115	102	70.0 to 130	1.92	20.0
BB18502	Lithium, Total	mg/L	-2.030E-05	0.0154	0.200	0.197	0.199	0.197	0.170 to 0.230	98.5	70.0 to 130	1.01	20.0
BB18501	Potassium, Total	mg/L	0.0112	0.367	10.0	10.2	9.73	10.0	8.50 to 11.5	99.0	70.0 to 130	4.72	20.0
BB18501	Thallium, Total	mg/L	-0.0000091	0.000147	0.100	0.110	0.107	0.109	0.0850 to 0.115	110	70.0 to 130	2.76	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: 10/4/21 14:58
Customer ID:
Delivery Date: 10/5/21 09:10

Description: Gaston Gypsum - MW-13

Laboratory ID Number: BB18474

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18501	Chloride	mg/L	0.00758	1.00	10.0	19.5	9.50	10.2	9.00 to 11.0	99.8	80.0 to 120	0.210	20.0
BB18652	Alkalinity, Total as CaCO3	mg/L					4.36	50.7	45.0 to 55.0			7.93	10.0
BB18501	Fluoride	mg/L	0.00708	0.100	2.50	2.64	0.0382	2.55	2.25 to 2.75	106	80.0 to 120	0.00	20.0
BB18501	Sulfate	mg/L	0.101	1.00	200	321	113	19.9	18.0 to 22.0	104	80.0 to 120	0.889	20.0
BB18475	Solids, Dissolved	mg/L	-1.00	25.0			301	51.0	40.0 to 60.0			1.69	5.00

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-13 DUP

Location Code: WMWGASG
Collected: 10/4/21 14:58
Customer ID:
Submittal Date: 10/5/21 09:10

Laboratory ID Number: BB18475

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	10/13/21 10:10	10/15/21 09:46		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/13/21 10:10	10/15/21 12:57		10.15	92.9	mg/L	0.70035	4.06	
* Iron, Total	10/13/21 10:10	10/15/21 09:46		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	10/13/21 10:10	10/15/21 09:46		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/13/21 10:10	10/15/21 09:46		1.015	10.7	mg/L	0.021315	0.406	
* Sodium, Total	10/13/21 10:10	10/15/21 09:46		1.015	3.47	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	10/13/21 09:10	10/14/21 11:04		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	10/7/21 13:57	10/8/21 12:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/7/21 13:57	10/8/21 12:53		1.015	0.000126	mg/L	0.000068	0.000203	J
* Barium, Total	10/7/21 13:57	10/8/21 12:53		1.015	0.0374	mg/L	0.000102	0.000203	
* Beryllium, Total	10/7/21 13:57	10/8/21 12:53		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/7/21 13:57	10/8/21 12:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/7/21 13:57	10/8/21 12:53		1.015	0.000597	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/7/21 13:57	10/8/21 12:53		1.015	0.0000870	mg/L	0.000068	0.000203	J
* Lead, Total	10/7/21 13:57	10/8/21 12:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/7/21 13:57	10/8/21 12:53		1.015	0.000154	mg/L	0.000068	0.000203	J
* Potassium, Total	10/7/21 13:57	10/8/21 12:53		1.015	0.883	mg/L	0.169505	0.5075	
* Manganese, Total	10/7/21 13:57	10/8/21 12:53		1.015	0.00204	mg/L	0.000068	0.000203	
* Selenium, Total	10/7/21 13:57	10/8/21 12:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/7/21 13:57	10/8/21 12:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	10/7/21 14:45	10/8/21 12:46		1.015	0.000221	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	10/13/21 10:28	10/13/21 14:46		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	10/14/21 11:21	10/14/21 12:10		1	265	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	10/6/21 11:18	10/7/21 13:00		1	291	mg/L		25	

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: 11/2/2021
Version: 3.4
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 DUP

Location Code: WMWGASG
Collected: 10/4/21 14:58
Customer ID:
Submittal Date: 10/5/21 09:10

Laboratory ID Number: BB18475

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	10/14/21 11:21	10/14/21 12:10		1	264	mg/L			
Carbonate Alkalinity, (calc.)	10/14/21 11:21	10/14/21 12:10		1	0.50	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	10/7/21 11:41	10/7/21 11:41		1	3.39	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	10/13/21 09:47	10/13/21 09:47		1	0.0789	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	10/7/21 09:24	10/7/21 09:24		1	7.23	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	10/4/21 14:55	10/4/21 14:55			474.43	uS/cm			FA
pH	10/4/21 14:55	10/4/21 14:55			6.95	SU			FA
Temperature	10/4/21 14:55	10/4/21 14:55			20.26	C			FA
Turbidity	10/4/21 14:55	10/4/21 14:55			0.35	NTU			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: 11/2/2021
Version: 3.4
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: 10/4/21 14:58
Customer ID:
Delivery Date: 10/5/21 09:10

Description: Gaston Gypsum - MW-13 DUP

Laboratory ID Number: BB18475

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18501	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.106	0.101	0.105	0.0850 to 0.115	106	70.0 to 130	4.83	20.0
BB18501	Chromium, Total	mg/L	0.0000015	0.000440	0.100	0.103	0.101	0.107	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BB18502	Manganese, Dissolved	mg/L	-0.0000171	0.000147	0.100	0.114	0.110	0.108	0.0850 to 0.115	107	70.0 to 130	3.57	20.0
BB18501	Antimony, Total	mg/L	0.0000609	0.00100	0.100	0.0970	0.0968	0.0984	0.0850 to 0.115	97.0	70.0 to 130	0.206	20.0
BB18502	Boron, Total	mg/L	0.000625	0.0650	1.00	0.991	1.01	0.985	0.850 to 1.15	99.1	70.0 to 130	1.90	20.0
BB18501	Manganese, Total	mg/L	0.0000068	0.000147	0.100	0.544	0.542	0.107	0.0850 to 0.115	98.0	70.0 to 130	0.368	20.0
BB18502	Sodium, Total	mg/L	0.00157	0.0660	5.00	7.41	7.49	4.98	4.25 to 5.75	99.8	70.0 to 130	1.07	20.0
BB18501	Cobalt, Total	mg/L	-0.0000180	0.000147	0.100	0.102	0.101	0.107	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BB18501	Molybdenum, Total	mg/L	0.0000336	0.000147	0.100	0.102	0.100	0.104	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BB18502	Calcium, Total	mg/L	-0.000307	0.152	5.00	5.57	5.64	5.05	4.25 to 5.75	101	70.0 to 130	1.25	20.0
BB18501	Selenium, Total	mg/L	0.000106	0.00100	0.100	0.107	0.103	0.104	0.0850 to 0.115	107	70.0 to 130	3.81	20.0
BB18502	Iron, Total	mg/L	0.000383	0.0176	0.2	0.211	0.212	0.202	0.170 to 0.230	100	70.0 to 130	0.473	20.0
BB18501	Barium, Total	mg/L	-0.0000652	0.000200	0.100	0.150	0.147	0.0988	0.0850 to 0.115	98.3	70.0 to 130	2.02	20.0
BB18501	Beryllium, Total	mg/L	0.0000563	0.000880	0.100	0.0966	0.0951	0.100	0.0850 to 0.115	96.6	70.0 to 130	1.56	20.0
BB18502	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00408	0.00404	0.004	0.00340 to 0.00460	102	70.0 to 130	0.985	20.0
BB18503	Iron, Dissolved	mg/L	0.000146	0.0176	0.2	0.220	0.218	0.203	0.170 to 0.230	99.4	70.0 to 130	0.913	20.0
BB18501	Lead, Total	mg/L	0.0000016	0.000147	0.100	0.108	0.104	0.105	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BB18501	Arsenic, Total	mg/L	-0.0000045	0.000147	0.100	0.103	0.105	0.106	0.0850 to 0.115	102	70.0 to 130	1.92	20.0
BB18502	Lithium, Total	mg/L	-2.030E-05	0.0154	0.200	0.197	0.199	0.197	0.170 to 0.230	98.5	70.0 to 130	1.01	20.0
BB18501	Potassium, Total	mg/L	0.0112	0.367	10.0	10.2	9.73	10.0	8.50 to 11.5	99.0	70.0 to 130	4.72	20.0
BB18501	Thallium, Total	mg/L	-0.0000091	0.000147	0.100	0.110	0.107	0.109	0.0850 to 0.115	110	70.0 to 130	2.76	20.0
BB18502	Magnesium, Total	mg/L	-0.00708	0.0462	5.00	5.42	5.52	5.09	4.25 to 5.75	101	70.0 to 130	1.83	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: 10/4/21 14:58
Customer ID:
Delivery Date: 10/5/21 09:10

Description: Gaston Gypsum - MW-13 DUP

Laboratory ID Number: BB18475

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18501	Chloride	mg/L	0.00758	1.00	10.0	19.5	9.50	10.2	9.00 to 11.0	99.8	80.0 to 120	0.210	20.0
BB18652	Alkalinity, Total as CaCO3	mg/L					4.36	50.7	45.0 to 55.0			7.93	10.0
BB18475	Solids, Dissolved	mg/L	-1.00	25.0			301	51.0	40.0 to 60.0			1.69	5.00
BB18501	Fluoride	mg/L	0.00708	0.100	2.50	2.64	0.0382	2.55	2.25 to 2.75	106	80.0 to 120	0.00	20.0
BB18501	Sulfate	mg/L	0.101	1.00	200	321	113	19.9	18.0 to 22.0	104	80.0 to 120	0.889	20.0

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

Reported: 11/2/2021
Version: 3.4
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: 10/4/21 15:30
Customer ID:
Submittal Date: 10/5/21 09:10

Laboratory ID Number: BB18476

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	10/13/21 10:10	10/15/21 09:49		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/13/21 10:10	10/15/21 09:49		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	10/13/21 10:10	10/15/21 09:49		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	10/13/21 10:10	10/15/21 09:49		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/13/21 10:10	10/15/21 09:49		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	10/13/21 10:10	10/15/21 09:49		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	10/7/21 13:57	10/8/21 12:57		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/7/21 13:57	10/8/21 12:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	10/7/21 13:57	10/8/21 12:57		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Beryllium, Total	10/7/21 13:57	10/8/21 12:57		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/7/21 13:57	10/8/21 12:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/7/21 13:57	10/8/21 12:57		1.015	0.000248	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/7/21 13:57	10/8/21 12:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/7/21 13:57	10/8/21 12:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/7/21 13:57	10/8/21 12:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/7/21 13:57	10/8/21 12:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	10/7/21 13:57	10/8/21 12:57		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	10/7/21 13:57	10/8/21 12:57		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/7/21 13:57	10/8/21 12:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	10/13/21 10:28	10/13/21 14:50		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	10/6/21 11:18	10/7/21 13:00		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	10/7/21 11:42	10/7/21 11:42		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	10/13/21 09:48	10/13/21 09:48		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	10/7/21 09:25	10/7/21 09:25		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Reported: 11/2/2021
Version: 3.4
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: 10/4/21 15:30
Customer ID:
Delivery Date: 10/5/21 09:10

Description: Gaston Gypsum Field Blank-1

Laboratory ID Number: BB18476

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18502	Magnesium, Total	mg/L	-0.00708	0.0462	5.00	5.42	5.52	5.09	4.25 to 5.75	101	70.0 to 130	1.83	20.0
BB18502	Sodium, Total	mg/L	0.00157	0.0660	5.00	7.41	7.49	4.98	4.25 to 5.75	99.8	70.0 to 130	1.07	20.0
BB18501	Cobalt, Total	mg/L	-0.0000180	0.000147	0.100	0.102	0.101	0.107	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BB18501	Molybdenum, Total	mg/L	0.0000336	0.000147	0.100	0.102	0.100	0.104	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BB18502	Calcium, Total	mg/L	-0.000307	0.152	5.00	5.57	5.64	5.05	4.25 to 5.75	101	70.0 to 130	1.25	20.0
BB18501	Selenium, Total	mg/L	0.000106	0.00100	0.100	0.107	0.103	0.104	0.0850 to 0.115	107	70.0 to 130	3.81	20.0
BB18502	Iron, Total	mg/L	0.000383	0.0176	0.2	0.211	0.212	0.202	0.170 to 0.230	100	70.0 to 130	0.473	20.0
BB18501	Barium, Total	mg/L	-0.0000652	0.000200	0.100	0.150	0.147	0.0988	0.0850 to 0.115	98.3	70.0 to 130	2.02	20.0
BB18501	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.106	0.101	0.105	0.0850 to 0.115	106	70.0 to 130	4.83	20.0
BB18501	Chromium, Total	mg/L	0.0000015	0.000440	0.100	0.103	0.101	0.107	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BB18501	Manganese, Total	mg/L	0.0000068	0.000147	0.100	0.544	0.542	0.107	0.0850 to 0.115	98.0	70.0 to 130	0.368	20.0
BB18501	Beryllium, Total	mg/L	0.0000563	0.000880	0.100	0.0966	0.0951	0.100	0.0850 to 0.115	96.6	70.0 to 130	1.56	20.0
BB18502	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00408	0.00404	0.004	0.00340 to 0.00460	102	70.0 to 130	0.985	20.0
BB18501	Lead, Total	mg/L	0.0000016	0.000147	0.100	0.108	0.104	0.105	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BB18501	Arsenic, Total	mg/L	-0.0000045	0.000147	0.100	0.103	0.105	0.106	0.0850 to 0.115	102	70.0 to 130	1.92	20.0
BB18502	Lithium, Total	mg/L	-2.030E-05	0.0154	0.200	0.197	0.199	0.197	0.170 to 0.230	98.5	70.0 to 130	1.01	20.0
BB18501	Potassium, Total	mg/L	0.0112	0.367	10.0	10.2	9.73	10.0	8.50 to 11.5	99.0	70.0 to 130	4.72	20.0
BB18501	Thallium, Total	mg/L	-0.0000091	0.000147	0.100	0.110	0.107	0.109	0.0850 to 0.115	110	70.0 to 130	2.76	20.0
BB18501	Antimony, Total	mg/L	0.0000609	0.00100	0.100	0.0970	0.0968	0.0984	0.0850 to 0.115	97.0	70.0 to 130	0.206	20.0
BB18502	Boron, Total	mg/L	0.000625	0.0650	1.00	0.991	1.01	0.985	0.850 to 1.15	99.1	70.0 to 130	1.90	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: 10/4/21 15:30
Customer ID:
Delivery Date: 10/5/21 09:10

Description: Gaston Gypsum Field Blank-1

Laboratory ID Number: BB18476

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18501	Chloride	mg/L	0.00758	1.00	10.0	19.5	9.50	10.2	9.00 to 11.0	99.8	80.0 to 120	0.210	20.0
BB18475	Solids, Dissolved	mg/L	-1.00	25.0			301	51.0	40.0 to 60.0			1.69	5.00
BB18501	Fluoride	mg/L	0.00708	0.100	2.50	2.64	0.0382	2.55	2.25 to 2.75	106	80.0 to 120	0.00	20.0
BB18501	Sulfate	mg/L	0.101	1.00	200	321	113	19.9	18.0 to 22.0	104	80.0 to 120	0.889	20.0

Comments:

Reported: 11/2/2021
Version: 3.4
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: 10/4/21 13:05
Customer ID:
Submittal Date: 10/5/21 13:14

Laboratory ID Number: BB18500

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	10/13/21 10:10	10/15/21 09:52		1.015	0.0392	mg/L	0.030000	0.1015	J
* Calcium, Total	10/13/21 10:10	10/15/21 13:00		10.15	81.6	mg/L	0.70035	4.06	
* Iron, Total	10/13/21 10:10	10/15/21 09:52		1.015	1.10	mg/L	0.008120	0.0406	
* Lithium, Total	10/13/21 10:10	10/15/21 09:52		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/13/21 10:10	10/15/21 09:52		1.015	18.6	mg/L	0.021315	0.406	
* Sodium, Total	10/13/21 10:10	10/15/21 09:52		1.015	17.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	10/13/21 09:10	10/14/21 11:07		1.015	0.951	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	10/7/21 13:57	10/8/21 13:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/7/21 13:57	10/8/21 13:00		1.015	0.000571	mg/L	0.000068	0.000203	
* Barium, Total	10/7/21 13:57	10/8/21 13:00		1.015	0.0494	mg/L	0.000102	0.000203	
* Beryllium, Total	10/7/21 13:57	10/8/21 13:00		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/7/21 13:57	10/8/21 13:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/7/21 13:57	10/8/21 13:00		1.015	0.000277	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/7/21 13:57	10/8/21 13:00		1.015	0.00142	mg/L	0.000068	0.000203	
* Lead, Total	10/7/21 13:57	10/8/21 13:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/7/21 13:57	10/8/21 13:00		1.015	0.0000883	mg/L	0.000068	0.000203	J
* Potassium, Total	10/7/21 13:57	10/8/21 13:00		1.015	0.309	mg/L	0.169505	0.5075	J
* Manganese, Total	10/7/21 13:57	10/8/21 13:00		1.015	0.450	mg/L	0.000068	0.000203	
* Selenium, Total	10/7/21 13:57	10/8/21 13:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/7/21 13:57	10/8/21 13:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	10/7/21 14:45	10/8/21 12:50		1.015	0.430	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	10/13/21 10:28	10/13/21 14:53		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	10/14/21 11:21	10/14/21 12:10		1	157	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	10/6/21 11:18	10/7/21 13:00		1	379	mg/L		25	

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: 11/2/2021
Version: 3.4
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: 10/4/21 13:05
Customer ID:
Submittal Date: 10/5/21 13:14

Laboratory ID Number: BB18500

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	10/14/21 11:21	10/14/21 12:10		1	157	mg/L			
Carbonate Alkalinity, (calc.)	10/14/21 11:21	10/14/21 12:10		1	0.07	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	10/7/21 11:43	10/7/21 11:43		1	9.45	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	10/13/21 09:49	10/13/21 09:49		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	10/7/21 09:27	10/7/21 09:27		8	115	mg/L	4.00	8	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	10/4/21 13:02	10/4/21 13:02			545.65	uS/cm			FA
pH	10/4/21 13:02	10/4/21 13:02			6.66	SU			FA
Temperature	10/4/21 13:02	10/4/21 13:02			19.58	C			FA
Turbidity	10/4/21 13:02	10/4/21 13:02			0.9	NTU			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: 11/2/2021
Version: 3.4
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: 10/4/21 13:05
Customer ID:
Delivery Date: 10/5/21 13:14

Description: Gaston Gypsum - MW-5

Laboratory ID Number: BB18500

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18502	Manganese, Dissolved	mg/L	-0.0000171	0.000147	0.100	0.114	0.110	0.108	0.0850 to 0.115	107	70.0 to 130	3.57	20.0
BB18501	Antimony, Total	mg/L	0.0000609	0.00100	0.100	0.0970	0.0968	0.0984	0.0850 to 0.115	97.0	70.0 to 130	0.206	20.0
BB18502	Boron, Total	mg/L	0.000625	0.0650	1.00	0.991	1.01	0.985	0.850 to 1.15	99.1	70.0 to 130	1.90	20.0
BB18502	Magnesium, Total	mg/L	-0.00708	0.0462	5.00	5.42	5.52	5.09	4.25 to 5.75	101	70.0 to 130	1.83	20.0
BB18501	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.106	0.101	0.105	0.0850 to 0.115	106	70.0 to 130	4.83	20.0
BB18501	Chromium, Total	mg/L	0.0000015	0.000440	0.100	0.103	0.101	0.107	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BB18502	Sodium, Total	mg/L	0.00157	0.0660	5.00	7.41	7.49	4.98	4.25 to 5.75	99.8	70.0 to 130	1.07	20.0
BB18501	Cobalt, Total	mg/L	-0.0000180	0.000147	0.100	0.102	0.101	0.107	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BB18501	Molybdenum, Total	mg/L	0.0000336	0.000147	0.100	0.102	0.100	0.104	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BB18502	Calcium, Total	mg/L	-0.000307	0.152	5.00	5.57	5.64	5.05	4.25 to 5.75	101	70.0 to 130	1.25	20.0
BB18501	Selenium, Total	mg/L	0.000106	0.00100	0.100	0.107	0.103	0.104	0.0850 to 0.115	107	70.0 to 130	3.81	20.0
BB18502	Iron, Total	mg/L	0.000383	0.0176	0.2	0.211	0.212	0.202	0.170 to 0.230	100	70.0 to 130	0.473	20.0
BB18501	Barium, Total	mg/L	-0.0000652	0.000200	0.100	0.150	0.147	0.0988	0.0850 to 0.115	98.3	70.0 to 130	2.02	20.0
BB18501	Manganese, Total	mg/L	0.0000068	0.000147	0.100	0.544	0.542	0.107	0.0850 to 0.115	98.0	70.0 to 130	0.368	20.0
BB18501	Beryllium, Total	mg/L	0.0000563	0.000880	0.100	0.0966	0.0951	0.100	0.0850 to 0.115	96.6	70.0 to 130	1.56	20.0
BB18502	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00408	0.00404	0.004	0.00340 to 0.00460	102	70.0 to 130	0.985	20.0
BB18503	Iron, Dissolved	mg/L	0.000146	0.0176	0.2	0.220	0.218	0.203	0.170 to 0.230	99.4	70.0 to 130	0.913	20.0
BB18501	Lead, Total	mg/L	0.0000016	0.000147	0.100	0.108	0.104	0.105	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BB18501	Arsenic, Total	mg/L	-0.0000045	0.000147	0.100	0.103	0.105	0.106	0.0850 to 0.115	102	70.0 to 130	1.92	20.0
BB18502	Lithium, Total	mg/L	-2.030E-05	0.0154	0.200	0.197	0.199	0.197	0.170 to 0.230	98.5	70.0 to 130	1.01	20.0
BB18501	Potassium, Total	mg/L	0.0112	0.367	10.0	10.2	9.73	10.0	8.50 to 11.5	99.0	70.0 to 130	4.72	20.0
BB18501	Thallium, Total	mg/L	-0.0000091	0.000147	0.100	0.110	0.107	0.109	0.0850 to 0.115	110	70.0 to 130	2.76	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: 10/4/21 13:05
Customer ID:
Delivery Date: 10/5/21 13:14

Description: Gaston Gypsum - MW-5

Laboratory ID Number: BB18500

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18501	Chloride	mg/L	0.00758	1.00	10.0	19.5	9.50	10.2	9.00 to 11.0	99.8	80.0 to 120	0.210	20.0
BB18652	Alkalinity, Total as CaCO3	mg/L					4.36	50.7	45.0 to 55.0			7.93	10.0
BB18501	Fluoride	mg/L	0.00708	0.100	2.50	2.64	0.0382	2.55	2.25 to 2.75	106	80.0 to 120	0.00	20.0
BB18501	Sulfate	mg/L	0.101	1.00	200	321	113	19.9	18.0 to 22.0	104	80.0 to 120	0.889	20.0
BB18507	Solids, Dissolved	mg/L	-1.00	25.0			292	51.0	40.0 to 60.0			0.171	5.00

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

Reported: 11/2/2021
Version: 3.4
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 DUP

Location Code: WMWGASG
Collected: 10/4/21 13:05
Customer ID:
Submittal Date: 10/5/21 13:14

Laboratory ID Number: BB18501

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	10/13/21 10:10	10/15/21 09:56		1.015	0.0395	mg/L	0.030000	0.1015	J
* Calcium, Total	10/13/21 10:10	10/15/21 13:03		10.15	81.2	mg/L	0.70035	4.06	
* Iron, Total	10/13/21 10:10	10/15/21 09:56		1.015	1.08	mg/L	0.008120	0.0406	
* Lithium, Total	10/13/21 10:10	10/15/21 09:56		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/13/21 10:10	10/15/21 09:56		1.015	18.8	mg/L	0.021315	0.406	
* Sodium, Total	10/13/21 10:10	10/15/21 09:56		1.015	16.9	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	10/13/21 09:10	10/14/21 11:10		1.015	0.950	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	10/7/21 13:57	10/8/21 13:04		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/7/21 13:57	10/8/21 13:04		1.015	0.000539	mg/L	0.000068	0.000203	
* Barium, Total	10/7/21 13:57	10/8/21 13:04		1.015	0.0517	mg/L	0.000102	0.000203	
* Beryllium, Total	10/7/21 13:57	10/8/21 13:04		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/7/21 13:57	10/8/21 13:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/7/21 13:57	10/8/21 13:04		1.015	0.000250	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/7/21 13:57	10/8/21 13:04		1.015	0.00144	mg/L	0.000068	0.000203	
* Lead, Total	10/7/21 13:57	10/8/21 13:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/7/21 13:57	10/8/21 13:04		1.015	0.0000880	mg/L	0.000068	0.000203	J
* Potassium, Total	10/7/21 13:57	10/8/21 13:04		1.015	0.300	mg/L	0.169505	0.5075	J
* Manganese, Total	10/7/21 13:57	10/8/21 13:04		1.015	0.446	mg/L	0.000068	0.000203	
* Selenium, Total	10/7/21 13:57	10/8/21 13:04		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/7/21 13:57	10/8/21 13:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	10/7/21 14:45	10/8/21 12:53		1.015	0.442	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	10/13/21 10:28	10/13/21 14:57		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	10/14/21 11:21	10/14/21 12:10		1	151	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	10/6/21 11:18	10/7/21 13:00		1	395	mg/L		25	

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: 11/2/2021
Version: 3.4
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 DUP

Location Code: WMWGASG
Collected: 10/4/21 13:05
Customer ID:
Submittal Date: 10/5/21 13:14

Laboratory ID Number: BB18501

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	10/14/21 11:21	10/14/21 12:10		1	151	mg/L			
Carbonate Alkalinity, (calc.)	10/14/21 11:21	10/14/21 12:10		1	0.07	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	10/7/21 11:45	10/7/21 11:45		1	9.52	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	10/13/21 09:50	10/13/21 09:50		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	10/7/21 09:28	10/7/21 09:28		10	112	mg/L	5.00	10	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	10/4/21 13:02	10/4/21 13:02			545.65	uS/cm			FA
pH	10/4/21 13:02	10/4/21 13:02			6.66	SU			FA
Temperature	10/4/21 13:02	10/4/21 13:02			19.58	C			FA
Turbidity	10/4/21 13:02	10/4/21 13:02			0.9	NTU			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: 11/2/2021
Version: 3.4
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: 10/4/21 13:05
Customer ID:
Delivery Date: 10/5/21 13:14

Description: Gaston Gypsum - MW-5 DUP

Laboratory ID Number: BB18501

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18501	Antimony, Total	mg/L	0.0000609	0.00100	0.100	0.0970	0.0968	0.0984	0.0850 to 0.115	97.0	70.0 to 130	0.206	20.0
BB18502	Boron, Total	mg/L	0.000625	0.0650	1.00	0.991	1.01	0.985	0.850 to 1.15	99.1	70.0 to 130	1.90	20.0
BB18502	Magnesium, Total	mg/L	-0.00708	0.0462	5.00	5.42	5.52	5.09	4.25 to 5.75	101	70.0 to 130	1.83	20.0
BB18501	Manganese, Total	mg/L	0.0000068	0.000147	0.100	0.544	0.542	0.107	0.0850 to 0.115	98.0	70.0 to 130	0.368	20.0
BB18502	Sodium, Total	mg/L	0.00157	0.0660	5.00	7.41	7.49	4.98	4.25 to 5.75	99.8	70.0 to 130	1.07	20.0
BB18501	Cobalt, Total	mg/L	-0.0000180	0.000147	0.100	0.102	0.101	0.107	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BB18501	Molybdenum, Total	mg/L	0.0000336	0.000147	0.100	0.102	0.100	0.104	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BB18502	Calcium, Total	mg/L	-0.000307	0.152	5.00	5.57	5.64	5.05	4.25 to 5.75	101	70.0 to 130	1.25	20.0
BB18501	Selenium, Total	mg/L	0.000106	0.00100	0.100	0.107	0.103	0.104	0.0850 to 0.115	107	70.0 to 130	3.81	20.0
BB18502	Iron, Total	mg/L	0.000383	0.0176	0.2	0.211	0.212	0.202	0.170 to 0.230	100	70.0 to 130	0.473	20.0
BB18501	Barium, Total	mg/L	-0.0000652	0.000200	0.100	0.150	0.147	0.0988	0.0850 to 0.115	98.3	70.0 to 130	2.02	20.0
BB18502	Manganese, Dissolved	mg/L	-0.0000171	0.000147	0.100	0.114	0.110	0.108	0.0850 to 0.115	107	70.0 to 130	3.57	20.0
BB18501	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.106	0.101	0.105	0.0850 to 0.115	106	70.0 to 130	4.83	20.0
BB18501	Chromium, Total	mg/L	0.0000015	0.000440	0.100	0.103	0.101	0.107	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BB18501	Beryllium, Total	mg/L	0.0000563	0.000880	0.100	0.0966	0.0951	0.100	0.0850 to 0.115	96.6	70.0 to 130	1.56	20.0
BB18502	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00408	0.00404	0.004	0.00340 to 0.00460	102	70.0 to 130	0.985	20.0
BB18503	Iron, Dissolved	mg/L	0.000146	0.0176	0.2	0.220	0.218	0.203	0.170 to 0.230	99.4	70.0 to 130	0.913	20.0
BB18501	Lead, Total	mg/L	0.0000016	0.000147	0.100	0.108	0.104	0.105	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BB18501	Arsenic, Total	mg/L	-0.0000045	0.000147	0.100	0.103	0.105	0.106	0.0850 to 0.115	102	70.0 to 130	1.92	20.0
BB18502	Lithium, Total	mg/L	-2.030E-05	0.0154	0.200	0.197	0.199	0.197	0.170 to 0.230	98.5	70.0 to 130	1.01	20.0
BB18501	Potassium, Total	mg/L	0.0112	0.367	10.0	10.2	9.73	10.0	8.50 to 11.5	99.0	70.0 to 130	4.72	20.0
BB18501	Thallium, Total	mg/L	-0.0000091	0.000147	0.100	0.110	0.107	0.109	0.0850 to 0.115	110	70.0 to 130	2.76	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: 10/4/21 13:05
Customer ID:
Delivery Date: 10/5/21 13:14

Description: Gaston Gypsum - MW-5 DUP

Laboratory ID Number: BB18501

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18501	Chloride	mg/L	0.00758	1.00	10.0	19.5	9.50	10.2	9.00 to 11.0	99.8	80.0 to 120	0.210	20.0
BB18652	Alkalinity, Total as CaCO3	mg/L					4.36	50.7	45.0 to 55.0			7.93	10.0
BB18507	Solids, Dissolved	mg/L	-1.00	25.0			292	51.0	40.0 to 60.0			0.171	5.00
BB18501	Fluoride	mg/L	0.00708	0.100	2.50	2.64	0.0382	2.55	2.25 to 2.75	106	80.0 to 120	0.00	20.0
BB18501	Sulfate	mg/L	0.101	1.00	200	321	113	19.9	18.0 to 22.0	104	80.0 to 120	0.889	20.0

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

Reported: 11/2/2021
Version: 3.4
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: 10/4/21 13:55
Customer ID:
Submittal Date: 10/5/21 13:14

Laboratory ID Number: BB18502

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	10/13/21 10:10	10/15/21 09:59		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/13/21 10:10	10/15/21 09:59		1.015	0.530	mg/L	0.070035	0.406	
* Iron, Total	10/13/21 10:10	10/15/21 09:59		1.015	0.0110	mg/L	0.008120	0.0406	J
* Lithium, Total	10/13/21 10:10	10/15/21 09:59		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/13/21 10:10	10/15/21 09:59		1.015	0.368	mg/L	0.021315	0.406	J
* Sodium, Total	10/13/21 10:10	10/15/21 09:59		1.015	2.42	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	10/13/21 09:10	10/14/21 11:14		1.015	0.0110	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	10/7/21 13:57	10/8/21 13:25		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/7/21 13:57	10/8/21 13:25		1.015	0.0000781	mg/L	0.000068	0.000203	J
* Barium, Total	10/7/21 13:57	10/8/21 13:25		1.015	0.0161	mg/L	0.000102	0.000203	
* Beryllium, Total	10/7/21 13:57	10/8/21 13:25		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/7/21 13:57	10/8/21 13:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/7/21 13:57	10/8/21 13:25		1.015	0.000245	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/7/21 13:57	10/8/21 13:25		1.015	0.000651	mg/L	0.000068	0.000203	
* Lead, Total	10/7/21 13:57	10/8/21 13:25		1.015	0.000314	mg/L	0.000068	0.000203	
* Molybdenum, Total	10/7/21 13:57	10/8/21 13:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	10/7/21 13:57	10/8/21 13:25		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Manganese, Total	10/7/21 13:57	10/8/21 13:25		1.015	0.00752	mg/L	0.000068	0.000203	
* Selenium, Total	10/7/21 13:57	10/8/21 13:25		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/7/21 13:57	10/8/21 13:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	10/7/21 14:45	10/8/21 13:56		1.015	0.00748	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	10/13/21 10:28	10/13/21 15:01		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	10/14/21 11:21	10/14/21 12:10		1	1.20	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	10/6/21 11:18	10/7/21 13:00		1	32.0	mg/L		25	

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: 11/2/2021
Version: 3.4
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: 10/4/21 13:55
Customer ID:
Submittal Date: 10/5/21 13:14

Laboratory ID Number: BB18502

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	10/14/21 11:21	10/14/21 12:10		1	1.20	mg/L			
Carbonate Alkalinity, (calc.)	10/14/21 11:21	10/14/21 12:10		1	0.00	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	10/7/21 11:56	10/7/21 11:56		1	3.61	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	10/13/21 10:01	10/13/21 10:01		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	10/7/21 09:42	10/7/21 09:42		1	Not Detected	mg/L	0.50	1	U
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	10/4/21 13:53	10/4/21 13:53			27.36	uS/cm			FA
pH	10/4/21 13:53	10/4/21 13:53			4.86	SU			FA
Temperature	10/4/21 13:53	10/4/21 13:53			20.89	C			FA
Turbidity	10/4/21 13:53	10/4/21 13:53			0.91	NTU			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: 11/2/2021
Version: 3.4
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: 10/4/21 13:55
Customer ID:
Delivery Date: 10/5/21 13:14

Description: Gaston Gypsum - MW-6

Laboratory ID Number: BB18502

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18510	Lead, Total	mg/L	0.0000016	0.000147	0.100	0.107	0.104	0.105	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BB18502	Boron, Total	mg/L	0.000625	0.0650	1.00	0.991	1.01	0.985	0.850 to 1.15	99.1	70.0 to 130	1.90	20.0
BB18502	Manganese, Dissolved	mg/L	-0.0000171	0.000147	0.100	0.114	0.110	0.108	0.0850 to 0.115	107	70.0 to 130	3.57	20.0
BB18510	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.104	0.102	0.105	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BB18510	Potassium, Total	mg/L	0.0112	0.367	10.0	9.99	9.72	10.0	8.50 to 11.5	99.9	70.0 to 130	2.74	20.0
BB18510	Manganese, Total	mg/L	0.0000068	0.000147	0.100	0.104	0.0993	0.107	0.0850 to 0.115	104	70.0 to 130	4.62	20.0
BB18510	Beryllium, Total	mg/L	0.0000563	0.000880	0.100	0.0973	0.0958	0.100	0.0850 to 0.115	97.3	70.0 to 130	1.55	20.0
BB18510	Cobalt, Total	mg/L	-0.0000180	0.000147	0.100	0.104	0.0983	0.107	0.0850 to 0.115	104	70.0 to 130	5.64	20.0
BB18510	Thallium, Total	mg/L	-0.0000091	0.000147	0.100	0.106	0.104	0.109	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BB18502	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00408	0.00404	0.004	0.00340 to 0.00460	102	70.0 to 130	0.985	20.0
BB18502	Magnesium, Total	mg/L	-0.00708	0.0462	5.00	5.42	5.52	5.09	4.25 to 5.75	101	70.0 to 130	1.83	20.0
BB18510	Arsenic, Total	mg/L	-0.0000045	0.000147	0.100	0.102	0.103	0.106	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BB18503	Iron, Dissolved	mg/L	0.000146	0.0176	0.2	0.220	0.218	0.203	0.170 to 0.230	99.4	70.0 to 130	0.913	20.0
BB18510	Chromium, Total	mg/L	0.0000015	0.000440	0.100	0.105	0.0989	0.107	0.0850 to 0.115	105	70.0 to 130	5.98	20.0
BB18510	Antimony, Total	mg/L	0.0000609	0.00100	0.100	0.0943	0.0910	0.0984	0.0850 to 0.115	94.3	70.0 to 130	3.56	20.0
BB18502	Lithium, Total	mg/L	-2.030E-05	0.0154	0.200	0.197	0.199	0.197	0.170 to 0.230	98.5	70.0 to 130	1.01	20.0
BB18510	Selenium, Total	mg/L	0.000106	0.00100	0.100	0.104	0.0997	0.104	0.0850 to 0.115	104	70.0 to 130	4.22	20.0
BB18510	Molybdenum, Total	mg/L	0.0000336	0.000147	0.100	0.101	0.0953	0.104	0.0850 to 0.115	101	70.0 to 130	5.81	20.0
BB18510	Barium, Total	mg/L	-0.0000652	0.000200	0.100	0.0975	0.0917	0.0988	0.0850 to 0.115	97.5	70.0 to 130	6.13	20.0
BB18502	Sodium, Total	mg/L	0.00157	0.0660	5.00	7.41	7.49	4.98	4.25 to 5.75	99.8	70.0 to 130	1.07	20.0
BB18502	Calcium, Total	mg/L	-0.000307	0.152	5.00	5.57	5.64	5.05	4.25 to 5.75	101	70.0 to 130	1.25	20.0
BB18502	Iron, Total	mg/L	0.000383	0.0176	0.2	0.211	0.212	0.202	0.170 to 0.230	100	70.0 to 130	0.473	20.0

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

Reported: 11/2/2021
Version: 3.4
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASG
Sample Date: 10/4/21 13:55
Customer ID:
Delivery Date: 10/5/21 13:14

Description: Gaston Gypsum - MW-6

Laboratory ID Number: BB18502

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18652	Sulfate	mg/L	0.224	1.00	20.0	22.3	2.17	19.9	18.0 to 22.0	101	80.0 to 120	0.926	20.0
BB18652	Alkalinity, Total as CaCO3	mg/L					4.36	50.7	45.0 to 55.0			7.93	10.0
BB18652	Chloride	mg/L	0.0519	1.00	10.0	12.4	2.12	10.1	9.00 to 11.0	103	80.0 to 120	2.39	20.0
BB18652	Fluoride	mg/L	0.0157	0.100	2.50	2.57	0.00702	2.55	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB18507	Solids, Dissolved	mg/L	-1.00	25.0			292	51.0	40.0 to 60.0			0.171	5.00

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

Reported: 11/2/2021
Version: 3.4
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: 10/4/21 15:02
Customer ID:
Submittal Date: 10/5/21 13:14

Laboratory ID Number: BB18503

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	10/13/21 22:10	10/15/21 10:16		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/13/21 10:10	10/15/21 13:07		10.15	70.4	mg/L	0.70035	4.06	
* Iron, Total	10/13/21 22:10	10/15/21 10:16		1.015	0.0196	mg/L	0.008120	0.0406	J
* Lithium, Total	10/13/21 22:10	10/15/21 10:16		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/13/21 22:10	10/15/21 10:16		1.015	10.2	mg/L	0.021315	0.406	
* Sodium, Total	10/13/21 22:10	10/15/21 10:16		1.015	4.14	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	10/13/21 09:10	10/14/21 11:17		1.015	0.0213	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	10/7/21 13:57	10/8/21 13:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/7/21 13:57	10/8/21 13:29		1.015	0.000286	mg/L	0.000068	0.000203	
* Barium, Total	10/7/21 13:57	10/8/21 13:29		1.015	0.0181	mg/L	0.000102	0.000203	
* Beryllium, Total	10/7/21 13:57	10/8/21 13:29		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/7/21 13:57	10/8/21 13:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/7/21 13:57	10/8/21 13:29		1.015	0.000563	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/7/21 13:57	10/8/21 13:29		1.015	0.000326	mg/L	0.000068	0.000203	
* Lead, Total	10/7/21 13:57	10/8/21 13:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/7/21 13:57	10/8/21 13:29		1.015	0.000248	mg/L	0.000068	0.000203	
* Potassium, Total	10/7/21 13:57	10/8/21 13:29		1.015	0.667	mg/L	0.169505	0.5075	
* Manganese, Total	10/7/21 13:57	10/8/21 13:29		1.015	0.168	mg/L	0.000068	0.000203	
* Selenium, Total	10/7/21 13:57	10/8/21 13:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/7/21 13:57	10/8/21 13:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	10/7/21 14:45	10/8/21 13:17		1.015	0.248	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	10/14/21 16:58	10/14/21 20:55		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	10/14/21 11:21	10/14/21 12:10		1	190	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	10/6/21 11:18	10/7/21 13:00		1	232	mg/L		25	

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: 11/2/2021
Version: 3.4
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: 10/4/21 15:02
Customer ID:
Submittal Date: 10/5/21 13:14

Laboratory ID Number: BB18503

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	10/14/21 11:21	10/14/21 12:10		1	190	mg/L			
Carbonate Alkalinity, (calc.)	10/14/21 11:21	10/14/21 12:10		1	0.167	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	10/7/21 11:58	10/7/21 11:58		1	3.48	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	10/13/21 10:03	10/13/21 10:03		1	0.120	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	10/7/21 09:43	10/7/21 09:43		1	6.02	mg/L	0.50	1	
Analytical Method: Field Measurements		***Analyst: AWG***							
Conductivity	10/4/21 14:59	10/4/21 14:59			400.34	uS/cm			FA
pH	10/4/21 14:59	10/4/21 14:59			6.96	SU			FA
Temperature	10/4/21 14:59	10/4/21 14:59			22.68	C			FA
Turbidity	10/4/21 14:59	10/4/21 14:59			0.8	NTU			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: 11/2/2021
Version: 3.4
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: 10/4/21 15:02
Customer ID:
Delivery Date: 10/5/21 13:14

Description: Gaston Gypsum - MW-7

Laboratory ID Number: BB18503

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18510	Lead, Total	mg/L	0.0000016	0.000147	0.100	0.107	0.104	0.105	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BB18652	Iron, Total	mg/L	0.000383	0.0176	0.2	0.406	0.404	0.202	0.170 to 0.230	96.5	70.0 to 130	0.494	20.0
BB18652	Mercury, Total by CVAA	mg/L	6.000E-05	0.000500	0.004	0.00404	0.00409	0.00367	0.00340 to 0.00460	101	70.0 to 130	1.23	20.0
BB18652	Boron, Total	mg/L	0.000625	0.0650	1.00	0.980	0.983	0.985	0.850 to 1.15	98.0	70.0 to 130	0.306	20.0
BB18510	Arsenic, Total	mg/L	-0.0000045	0.000147	0.100	0.102	0.103	0.106	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BB18652	Calcium, Total	mg/L	-0.000307	0.152	5.00	9.64	9.62	5.05	4.25 to 5.75	100	70.0 to 130	0.208	20.0
BB18510	Molybdenum, Total	mg/L	0.0000336	0.000147	0.100	0.101	0.0953	0.104	0.0850 to 0.115	101	70.0 to 130	5.81	20.0
BB18510	Barium, Total	mg/L	-0.0000652	0.000200	0.100	0.0975	0.0917	0.0988	0.0850 to 0.115	97.5	70.0 to 130	6.13	20.0
BB18509	Manganese, Dissolved	mg/L	-0.0000171	0.000147	0.100	0.242	0.261	0.108	0.0850 to 0.115	95.0	70.0 to 130	7.55	20.0
BB18510	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.104	0.102	0.105	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BB18652	Sodium, Total	mg/L	0.00157	0.0660	5.00	5.97	5.95	4.98	4.25 to 5.75	99.6	70.0 to 130	0.336	20.0
BB18510	Potassium, Total	mg/L	0.0112	0.367	10.0	9.99	9.72	10.0	8.50 to 11.5	99.9	70.0 to 130	2.74	20.0
BB18510	Manganese, Total	mg/L	0.0000068	0.000147	0.100	0.104	0.0993	0.107	0.0850 to 0.115	104	70.0 to 130	4.62	20.0
BB18510	Beryllium, Total	mg/L	0.0000563	0.000880	0.100	0.0973	0.0958	0.100	0.0850 to 0.115	97.3	70.0 to 130	1.55	20.0
BB18510	Cobalt, Total	mg/L	-0.0000180	0.000147	0.100	0.104	0.0983	0.107	0.0850 to 0.115	104	70.0 to 130	5.64	20.0
BB18510	Thallium, Total	mg/L	-0.0000091	0.000147	0.100	0.106	0.104	0.109	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BB18503	Iron, Dissolved	mg/L	0.000146	0.0176	0.2	0.220	0.218	0.203	0.170 to 0.230	99.4	70.0 to 130	0.913	20.0
BB18510	Chromium, Total	mg/L	0.0000015	0.000440	0.100	0.105	0.0989	0.107	0.0850 to 0.115	105	70.0 to 130	5.98	20.0
BB18510	Antimony, Total	mg/L	0.0000609	0.00100	0.100	0.0943	0.0910	0.0984	0.0850 to 0.115	94.3	70.0 to 130	3.56	20.0
BB18652	Magnesium, Total	mg/L	-0.00708	0.0462	5.00	5.40	5.40	5.09	4.25 to 5.75	102	70.0 to 130	0.00	20.0
BB18510	Selenium, Total	mg/L	0.000106	0.00100	0.100	0.104	0.0997	0.104	0.0850 to 0.115	104	70.0 to 130	4.22	20.0
BB18652	Lithium, Total	mg/L	-2.030E-05	0.0154	0.200	0.196	0.197	0.197	0.170 to 0.230	98.0	70.0 to 130	0.509	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: 10/4/21 15:02
Customer ID:
Delivery Date: 10/5/21 13:14

Description: Gaston Gypsum - MW-7

Laboratory ID Number: BB18503

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18652	Chloride	mg/L	0.0519	1.00	10.0	12.4	2.12	10.1	9.00 to 11.0	103	80.0 to 120	2.39	20.0
BB18652	Fluoride	mg/L	0.0157	0.100	2.50	2.57	0.00702	2.55	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB18652	Sulfate	mg/L	0.224	1.00	20.0	22.3	2.17	19.9	18.0 to 22.0	101	80.0 to 120	0.926	20.0
BB18652	Alkalinity, Total as CaCO3	mg/L					4.36	50.7	45.0 to 55.0			7.93	10.0
BB18507	Solids, Dissolved	mg/L	-1.00	25.0			292	51.0	40.0 to 60.0			0.171	5.00

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

Reported: 11/2/2021
Version: 3.4
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: 10/4/21 15:30
Customer ID:
Submittal Date: 10/5/21 13:14

Laboratory ID Number: BB18504

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	10/13/21 22:10	10/15/21 10:19		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/13/21 22:10	10/15/21 10:19		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	10/13/21 22:10	10/15/21 10:19		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	10/13/21 22:10	10/15/21 10:19		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/13/21 22:10	10/15/21 10:19		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	10/13/21 22:10	10/15/21 10:19		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	10/7/21 13:57	10/8/21 13:32		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/7/21 13:57	10/8/21 13:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	10/7/21 13:57	10/8/21 13:32		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Beryllium, Total	10/7/21 13:57	10/8/21 13:32		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/7/21 13:57	10/8/21 13:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/7/21 13:57	10/8/21 13:32		1.015	0.000285	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/7/21 13:57	10/8/21 13:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/7/21 13:57	10/8/21 13:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/7/21 13:57	10/8/21 13:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/7/21 13:57	10/8/21 13:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	10/7/21 13:57	10/8/21 13:32		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	10/7/21 13:57	10/8/21 13:32		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/7/21 13:57	10/8/21 13:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	10/14/21 16:58	10/14/21 20:59		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	10/11/21 12:09	10/12/21 13:44		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	10/7/21 11:59	10/7/21 11:59		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	10/13/21 10:04	10/13/21 10:04		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	10/7/21 09:45	10/7/21 09:45		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Reported: 11/2/2021
Version: 3.4
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: 10/4/21 15:30
Customer ID:
Delivery Date: 10/5/21 13:14

Description: Gaston Gypsum Field Blank-2

Laboratory ID Number: BB18504

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18510	Molybdenum, Total	mg/L	0.0000336	0.000147	0.100	0.101	0.0953	0.104	0.0850 to 0.115	101	70.0 to 130	5.81	20.0
BB18510	Barium, Total	mg/L	-0.0000652	0.000200	0.100	0.0975	0.0917	0.0988	0.0850 to 0.115	97.5	70.0 to 130	6.13	20.0
BB18510	Arsenic, Total	mg/L	-0.0000045	0.000147	0.100	0.102	0.103	0.106	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BB18652	Calcium, Total	mg/L	-0.000307	0.152	5.00	9.64	9.62	5.05	4.25 to 5.75	100	70.0 to 130	0.208	20.0
BB18510	Beryllium, Total	mg/L	0.0000563	0.000880	0.100	0.0973	0.0958	0.100	0.0850 to 0.115	97.3	70.0 to 130	1.55	20.0
BB18510	Cobalt, Total	mg/L	-0.0000180	0.000147	0.100	0.104	0.0983	0.107	0.0850 to 0.115	104	70.0 to 130	5.64	20.0
BB18510	Thallium, Total	mg/L	-0.0000091	0.000147	0.100	0.106	0.104	0.109	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BB18510	Lead, Total	mg/L	0.0000016	0.000147	0.100	0.107	0.104	0.105	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BB18652	Iron, Total	mg/L	0.000383	0.0176	0.2	0.406	0.404	0.202	0.170 to 0.230	96.5	70.0 to 130	0.494	20.0
BB18652	Mercury, Total by CVAA	mg/L	6.000E-05	0.000500	0.004	0.00404	0.00409	0.00367	0.00340 to 0.00460	101	70.0 to 130	1.23	20.0
BB18652	Boron, Total	mg/L	0.000625	0.0650	1.00	0.980	0.983	0.985	0.850 to 1.15	98.0	70.0 to 130	0.306	20.0
BB18510	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.104	0.102	0.105	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BB18652	Sodium, Total	mg/L	0.00157	0.0660	5.00	5.97	5.95	4.98	4.25 to 5.75	99.6	70.0 to 130	0.336	20.0
BB18510	Potassium, Total	mg/L	0.0112	0.367	10.0	9.99	9.72	10.0	8.50 to 11.5	99.9	70.0 to 130	2.74	20.0
BB18510	Manganese, Total	mg/L	0.0000068	0.000147	0.100	0.104	0.0993	0.107	0.0850 to 0.115	104	70.0 to 130	4.62	20.0
BB18510	Chromium, Total	mg/L	0.0000015	0.000440	0.100	0.105	0.0989	0.107	0.0850 to 0.115	105	70.0 to 130	5.98	20.0
BB18510	Antimony, Total	mg/L	0.0000609	0.00100	0.100	0.0943	0.0910	0.0984	0.0850 to 0.115	94.3	70.0 to 130	3.56	20.0
BB18652	Magnesium, Total	mg/L	-0.00708	0.0462	5.00	5.40	5.40	5.09	4.25 to 5.75	102	70.0 to 130	0.00	20.0
BB18510	Selenium, Total	mg/L	0.000106	0.00100	0.100	0.104	0.0997	0.104	0.0850 to 0.115	104	70.0 to 130	4.22	20.0
BB18652	Lithium, Total	mg/L	-2.030E-05	0.0154	0.200	0.196	0.197	0.197	0.170 to 0.230	98.0	70.0 to 130	0.509	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: 10/4/21 15:30
Customer ID:
Delivery Date: 10/5/21 13:14

Description: Gaston Gypsum Field Blank-2

Laboratory ID Number: BB18504

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18652	Sulfate	mg/L	0.224	1.00	20.0	22.3	2.17	19.9	18.0 to 22.0	101	80.0 to 120	0.926	20.0
BB18674	Solids, Dissolved	mg/L	0.0000	25.0			173	49.0	40.0 to 60.0			2.54	5.00
BB18652	Chloride	mg/L	0.0519	1.00	10.0	12.4	2.12	10.1	9.00 to 11.0	103	80.0 to 120	2.39	20.0
BB18652	Fluoride	mg/L	0.0157	0.100	2.50	2.57	0.00702	2.55	2.25 to 2.75	103	80.0 to 120	0.00	20.0

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-8

Location Code: WMWGASG
Collected: 10/4/21 16:10
Customer ID:
Submittal Date: 10/5/21 13:14

Laboratory ID Number: BB18505

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	10/13/21 22:10	10/15/21 10:23		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/13/21 10:10	10/15/21 13:10		10.15	55.1	mg/L	0.70035	4.06	
* Iron, Total	10/13/21 22:10	10/15/21 10:23		1.015	0.431	mg/L	0.008120	0.0406	
* Lithium, Total	10/13/21 22:10	10/15/21 10:23		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/13/21 22:10	10/15/21 10:23		1.015	11.1	mg/L	0.021315	0.406	
* Sodium, Total	10/13/21 22:10	10/15/21 10:23		1.015	1.39	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	10/13/21 09:10	10/14/21 11:34		1.015	0.393	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	10/7/21 13:57	10/8/21 13:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/7/21 13:57	10/8/21 13:36		1.015	0.00135	mg/L	0.000068	0.000203	
* Barium, Total	10/7/21 13:57	10/8/21 13:36		1.015	0.0265	mg/L	0.000102	0.000203	
* Beryllium, Total	10/7/21 13:57	10/8/21 13:36		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/7/21 13:57	10/8/21 13:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/7/21 13:57	10/8/21 13:36		1.015	0.000365	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/7/21 13:57	10/8/21 13:36		1.015	0.000137	mg/L	0.000068	0.000203	J
* Lead, Total	10/7/21 13:57	10/8/21 13:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/7/21 13:57	10/8/21 13:36		1.015	0.00345	mg/L	0.000068	0.000203	
* Potassium, Total	10/7/21 13:57	10/8/21 13:36		1.015	1.31	mg/L	0.169505	0.5075	
* Manganese, Total	10/7/21 13:57	10/8/21 13:36		1.015	0.129	mg/L	0.000068	0.000203	
* Selenium, Total	10/7/21 13:57	10/8/21 13:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/7/21 13:57	10/8/21 13:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	10/7/21 14:45	10/8/21 13:20		1.015	0.119	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	10/14/21 16:58	10/14/21 21:03		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	10/14/21 11:21	10/14/21 12:10		1	160	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	10/6/21 11:18	10/7/21 13:00		1	203	mg/L		25	

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: 11/2/2021
Version: 3.4
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: 10/4/21 16:10
Customer ID:
Submittal Date: 10/5/21 13:14

Laboratory ID Number: BB18505

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	10/14/21 11:21	10/14/21 12:10		1	159	mg/L			
Carbonate Alkalinity, (calc.)	10/14/21 11:21	10/14/21 12:10		1	0.684	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	10/7/21 12:00	10/7/21 12:00		1	1.76	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	10/13/21 10:05	10/13/21 10:05		1	0.134	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	10/7/21 09:46	10/7/21 09:46		1	5.05	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	10/4/21 16:05	10/4/21 16:05			317.77	uS/cm			FA
pH	10/4/21 16:05	10/4/21 16:05			7.82	SU			FA
Temperature	10/4/21 16:05	10/4/21 16:05			21.11	C			FA
Turbidity	10/4/21 16:05	10/4/21 16:05			0.96	NTU			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: 11/2/2021
Version: 3.4
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: 10/4/21 16:10
Customer ID:
Delivery Date: 10/5/21 13:14

Description: Gaston Gypsum - MW-8

Laboratory ID Number: BB18505

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18510	Arsenic, Total	mg/L	-0.0000045	0.000147	0.100	0.102	0.103	0.106	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BB18652	Calcium, Total	mg/L	-0.000307	0.152	5.00	9.64	9.62	5.05	4.25 to 5.75	100	70.0 to 130	0.208	20.0
BB18510	Chromium, Total	mg/L	0.0000015	0.000440	0.100	0.105	0.0989	0.107	0.0850 to 0.115	105	70.0 to 130	5.98	20.0
BB18510	Antimony, Total	mg/L	0.0000609	0.00100	0.100	0.0943	0.0910	0.0984	0.0850 to 0.115	94.3	70.0 to 130	3.56	20.0
BB18652	Magnesium, Total	mg/L	-0.00708	0.0462	5.00	5.40	5.40	5.09	4.25 to 5.75	102	70.0 to 130	0.00	20.0
BB18510	Selenium, Total	mg/L	0.000106	0.00100	0.100	0.104	0.0997	0.104	0.0850 to 0.115	104	70.0 to 130	4.22	20.0
BB18652	Lithium, Total	mg/L	-2.030E-05	0.0154	0.200	0.196	0.197	0.197	0.170 to 0.230	98.0	70.0 to 130	0.509	20.0
BB18510	Beryllium, Total	mg/L	0.0000563	0.000880	0.100	0.0973	0.0958	0.100	0.0850 to 0.115	97.3	70.0 to 130	1.55	20.0
BB18510	Cobalt, Total	mg/L	-0.0000180	0.000147	0.100	0.104	0.0983	0.107	0.0850 to 0.115	104	70.0 to 130	5.64	20.0
BB18510	Thallium, Total	mg/L	-0.0000091	0.000147	0.100	0.106	0.104	0.109	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BB18510	Lead, Total	mg/L	0.0000016	0.000147	0.100	0.107	0.104	0.105	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BB18652	Iron, Total	mg/L	0.000383	0.0176	0.2	0.406	0.404	0.202	0.170 to 0.230	96.5	70.0 to 130	0.494	20.0
BB18652	Mercury, Total by CVAA	mg/L	6.000E-05	0.000500	0.004	0.00404	0.00409	0.00367	0.00340 to 0.00460	101	70.0 to 130	1.23	20.0
BB18652	Boron, Total	mg/L	0.000625	0.0650	1.00	0.980	0.983	0.985	0.850 to 1.15	98.0	70.0 to 130	0.306	20.0
BB18510	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.104	0.102	0.105	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BB18652	Sodium, Total	mg/L	0.00157	0.0660	5.00	5.97	5.95	4.98	4.25 to 5.75	99.6	70.0 to 130	0.336	20.0
BB18510	Potassium, Total	mg/L	0.0112	0.367	10.0	9.99	9.72	10.0	8.50 to 11.5	99.9	70.0 to 130	2.74	20.0
BB18510	Manganese, Total	mg/L	0.0000068	0.000147	0.100	0.104	0.0993	0.107	0.0850 to 0.115	104	70.0 to 130	4.62	20.0
BB18510	Molybdenum, Total	mg/L	0.0000336	0.000147	0.100	0.101	0.0953	0.104	0.0850 to 0.115	101	70.0 to 130	5.81	20.0
BB18510	Barium, Total	mg/L	-0.0000652	0.000200	0.100	0.0975	0.0917	0.0988	0.0850 to 0.115	97.5	70.0 to 130	6.13	20.0
BB18509	Manganese, Dissolved	mg/L	-0.0000171	0.000147	0.100	0.242	0.261	0.108	0.0850 to 0.115	95.0	70.0 to 130	7.55	20.0
BB18652	Iron, Dissolved	mg/L	0.000146	0.0176	0.2	0.385	0.381	0.203	0.170 to 0.230	99.5	70.0 to 130	1.04	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: 10/4/21 16:10
Customer ID:
Delivery Date: 10/5/21 13:14

Description: Gaston Gypsum - MW-8

Laboratory ID Number: BB18505

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18652	Sulfate	mg/L	0.224	1.00	20.0	22.3	2.17	19.9	18.0 to 22.0	101	80.0 to 120	0.926	20.0
BB18652	Alkalinity, Total as CaCO3	mg/L					4.36	50.7	45.0 to 55.0			7.93	10.0
BB18652	Chloride	mg/L	0.0519	1.00	10.0	12.4	2.12	10.1	9.00 to 11.0	103	80.0 to 120	2.39	20.0
BB18652	Fluoride	mg/L	0.0157	0.100	2.50	2.57	0.00702	2.55	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB18507	Solids, Dissolved	mg/L	-1.00	25.0			292	51.0	40.0 to 60.0			0.171	5.00

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: 10/5/21 07:20
Customer ID:
Submittal Date: 10/5/21 13:14

Laboratory ID Number: BB18506

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	10/13/21 22:10	10/15/21 10:26		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/13/21 10:10	10/15/21 13:20		10.15	54.6	mg/L	0.70035	4.06	
* Iron, Total	10/13/21 22:10	10/15/21 10:26		1.015	0.107	mg/L	0.008120	0.0406	
* Lithium, Total	10/13/21 22:10	10/15/21 10:26		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/13/21 22:10	10/15/21 10:26		1.015	7.16	mg/L	0.021315	0.406	
* Sodium, Total	10/13/21 22:10	10/15/21 10:26		1.015	3.25	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	10/13/21 09:10	10/14/21 11:37		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	10/7/21 13:57	10/8/21 13:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/7/21 13:57	10/8/21 13:39		1.015	0.000144	mg/L	0.000068	0.000203	J
* Barium, Total	10/7/21 13:57	10/8/21 13:39		1.015	0.0234	mg/L	0.000102	0.000203	
* Beryllium, Total	10/7/21 13:57	10/8/21 13:39		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/7/21 13:57	10/8/21 13:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/7/21 13:57	10/8/21 13:39		1.015	0.000208	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/7/21 13:57	10/8/21 13:39		1.015	0.000406	mg/L	0.000068	0.000203	
* Lead, Total	10/7/21 13:57	10/8/21 13:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/7/21 13:57	10/8/21 13:39		1.015	0.000319	mg/L	0.000068	0.000203	
* Potassium, Total	10/7/21 13:57	10/8/21 13:39		1.015	0.723	mg/L	0.169505	0.5075	
* Manganese, Total	10/7/21 13:57	10/8/21 13:39		1.015	0.0341	mg/L	0.000068	0.000203	
* Selenium, Total	10/7/21 13:57	10/8/21 13:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/7/21 13:57	10/8/21 13:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	10/7/21 14:45	10/8/21 13:24		1.015	0.0354	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	10/14/21 16:58	10/14/21 21:07		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	10/14/21 11:21	10/14/21 12:10		1	145	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	10/6/21 11:18	10/7/21 13:00		1	170	mg/L		25	

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: 11/2/2021
Version: 3.4
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: 10/5/21 07:20
Customer ID:
Submittal Date: 10/5/21 13:14

Laboratory ID Number: BB18506

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	10/14/21 11:21	10/14/21 12:10		1	145	mg/L			
Carbonate Alkalinity, (calc.)	10/14/21 11:21	10/14/21 12:10		1	0.221	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	10/7/21 12:01	10/7/21 12:01		1	2.16	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	10/13/21 10:06	10/13/21 10:06		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	10/7/21 09:47	10/7/21 09:47		1	4.08	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	10/5/21 07:18	10/5/21 07:18			290.16	uS/cm			FA
pH	10/5/21 07:18	10/5/21 07:18			6.96	SU			FA
Temperature	10/5/21 07:18	10/5/21 07:18			19.83	C			FA
Turbidity	10/5/21 07:18	10/5/21 07:18			2.08	NTU			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: 11/2/2021
Version: 3.4
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: 10/5/21 07:20
Customer ID:
Delivery Date: 10/5/21 13:14

Description: Gaston Gypsum - MW-9

Laboratory ID Number: BB18506

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18510	Lead, Total	mg/L	0.0000016	0.000147	0.100	0.107	0.104	0.105	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BB18652	Iron, Total	mg/L	0.000383	0.0176	0.2	0.406	0.404	0.202	0.170 to 0.230	96.5	70.0 to 130	0.494	20.0
BB18652	Mercury, Total by CVAA	mg/L	6.000E-05	0.000500	0.004	0.00404	0.00409	0.00367	0.00340 to 0.00460	101	70.0 to 130	1.23	20.0
BB18652	Boron, Total	mg/L	0.000625	0.0650	1.00	0.980	0.983	0.985	0.850 to 1.15	98.0	70.0 to 130	0.306	20.0
BB18510	Beryllium, Total	mg/L	0.0000563	0.000880	0.100	0.0973	0.0958	0.100	0.0850 to 0.115	97.3	70.0 to 130	1.55	20.0
BB18510	Cobalt, Total	mg/L	-0.0000180	0.000147	0.100	0.104	0.0983	0.107	0.0850 to 0.115	104	70.0 to 130	5.64	20.0
BB18510	Thallium, Total	mg/L	-0.0000091	0.000147	0.100	0.106	0.104	0.109	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BB18510	Chromium, Total	mg/L	0.0000015	0.000440	0.100	0.105	0.0989	0.107	0.0850 to 0.115	105	70.0 to 130	5.98	20.0
BB18510	Antimony, Total	mg/L	0.0000609	0.00100	0.100	0.0943	0.0910	0.0984	0.0850 to 0.115	94.3	70.0 to 130	3.56	20.0
BB18652	Magnesium, Total	mg/L	-0.00708	0.0462	5.00	5.40	5.40	5.09	4.25 to 5.75	102	70.0 to 130	0.00	20.0
BB18510	Selenium, Total	mg/L	0.000106	0.00100	0.100	0.104	0.0997	0.104	0.0850 to 0.115	104	70.0 to 130	4.22	20.0
BB18652	Lithium, Total	mg/L	-2.030E-05	0.0154	0.200	0.196	0.197	0.197	0.170 to 0.230	98.0	70.0 to 130	0.509	20.0
BB18510	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.104	0.102	0.105	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BB18652	Sodium, Total	mg/L	0.00157	0.0660	5.00	5.97	5.95	4.98	4.25 to 5.75	99.6	70.0 to 130	0.336	20.0
BB18510	Potassium, Total	mg/L	0.0112	0.367	10.0	9.99	9.72	10.0	8.50 to 11.5	99.9	70.0 to 130	2.74	20.0
BB18510	Manganese, Total	mg/L	0.0000068	0.000147	0.100	0.104	0.0993	0.107	0.0850 to 0.115	104	70.0 to 130	4.62	20.0
BB18510	Arsenic, Total	mg/L	-0.0000045	0.000147	0.100	0.102	0.103	0.106	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BB18652	Calcium, Total	mg/L	-0.000307	0.152	5.00	9.64	9.62	5.05	4.25 to 5.75	100	70.0 to 130	0.208	20.0
BB18510	Molybdenum, Total	mg/L	0.0000336	0.000147	0.100	0.101	0.0953	0.104	0.0850 to 0.115	101	70.0 to 130	5.81	20.0
BB18510	Barium, Total	mg/L	-0.0000652	0.000200	0.100	0.0975	0.0917	0.0988	0.0850 to 0.115	97.5	70.0 to 130	6.13	20.0
BB18509	Manganese, Dissolved	mg/L	-0.0000171	0.000147	0.100	0.242	0.261	0.108	0.0850 to 0.115	95.0	70.0 to 130	7.55	20.0
BB18652	Iron, Dissolved	mg/L	0.000146	0.0176	0.2	0.385	0.381	0.203	0.170 to 0.230	99.5	70.0 to 130	1.04	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: 10/5/21 07:20
Customer ID:
Delivery Date: 10/5/21 13:14

Description: Gaston Gypsum - MW-9

Laboratory ID Number: BB18506

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18652	Chloride	mg/L	0.0519	1.00	10.0	12.4	2.12	10.1	9.00 to 11.0	103	80.0 to 120	2.39	20.0
BB18652	Sulfate	mg/L	0.224	1.00	20.0	22.3	2.17	19.9	18.0 to 22.0	101	80.0 to 120	0.926	20.0
BB18652	Alkalinity, Total as CaCO3	mg/L					4.36	50.7	45.0 to 55.0			7.93	10.0
BB18652	Fluoride	mg/L	0.0157	0.100	2.50	2.57	0.00702	2.55	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB18507	Solids, Dissolved	mg/L	-1.00	25.0			292	51.0	40.0 to 60.0			0.171	5.00

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

Location Code: WMWGASG
Collected: 10/5/21 08:00
Customer ID:
Submittal Date: 10/5/21 13:14

Laboratory ID Number: BB18507

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	10/13/21 22:10	10/15/21 10:29		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/13/21 10:10	10/15/21 13:24		10.15	108	mg/L	0.70035	4.06	
* Iron, Total	10/13/21 22:10	10/15/21 10:29		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	10/13/21 22:10	10/15/21 10:29		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/13/21 22:10	10/15/21 10:29		1.015	1.70	mg/L	0.021315	0.406	
* Sodium, Total	10/13/21 22:10	10/15/21 10:29		1.015	2.05	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	10/13/21 09:10	10/14/21 11:41		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	10/7/21 13:57	10/8/21 13:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/7/21 13:57	10/8/21 13:43		1.015	0.0000729	mg/L	0.000068	0.000203	J
* Barium, Total	10/7/21 13:57	10/8/21 13:43		1.015	0.0359	mg/L	0.000102	0.000203	
* Beryllium, Total	10/7/21 13:57	10/8/21 13:43		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/7/21 13:57	10/8/21 13:43		1.015	0.0000816	mg/L	0.000068	0.000203	J
* Chromium, Total	10/7/21 13:57	10/8/21 13:43		1.015	0.000234	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/7/21 13:57	10/8/21 13:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/7/21 13:57	10/8/21 13:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/7/21 13:57	10/8/21 13:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	10/7/21 13:57	10/8/21 13:43		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Manganese, Total	10/7/21 13:57	10/8/21 13:43		1.015	0.0215	mg/L	0.000068	0.000203	
* Selenium, Total	10/7/21 13:57	10/8/21 13:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/7/21 13:57	10/8/21 13:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	10/7/21 14:45	10/8/21 13:28		1.015	0.0216	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	10/14/21 16:58	10/14/21 21:11		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	10/14/21 11:21	10/14/21 12:10		1	256	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	10/6/21 11:18	10/7/21 13:00		1	293	mg/L		25	

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: 11/2/2021
Version: 3.4
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: 10/5/21 08:00
Customer ID:
Submittal Date: 10/5/21 13:14

Laboratory ID Number: BB18507

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	10/14/21 11:21	10/14/21 12:10		1	256	mg/L			
Carbonate Alkalinity, (calc.)	10/14/21 11:21	10/14/21 12:10		1	0.437	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	10/7/21 12:02	10/7/21 12:02		1	3.04	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	10/13/21 10:07	10/13/21 10:07		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	10/7/21 09:48	10/7/21 09:48		1	1.80	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	10/5/21 07:58	10/5/21 07:58			453.67	uS/cm			FA
pH	10/5/21 07:58	10/5/21 07:58			7.12	SU			FA
Temperature	10/5/21 07:58	10/5/21 07:58			20.88	C			FA
Turbidity	10/5/21 07:58	10/5/21 07:58			0.58	NTU			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: 11/2/2021
Version: 3.4
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: 10/5/21 08:00
Customer ID:
Delivery Date: 10/5/21 13:14

Description: Gaston Gypsum - MW-10

Laboratory ID Number: BB18507

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18510	Beryllium, Total	mg/L	0.0000563	0.000880	0.100	0.0973	0.0958	0.100	0.0850 to 0.115	97.3	70.0 to 130	1.55	20.0
BB18510	Cobalt, Total	mg/L	-0.0000180	0.000147	0.100	0.104	0.0983	0.107	0.0850 to 0.115	104	70.0 to 130	5.64	20.0
BB18510	Thallium, Total	mg/L	-0.0000091	0.000147	0.100	0.106	0.104	0.109	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BB18510	Molybdenum, Total	mg/L	0.0000336	0.000147	0.100	0.101	0.0953	0.104	0.0850 to 0.115	101	70.0 to 130	5.81	20.0
BB18510	Barium, Total	mg/L	-0.0000652	0.000200	0.100	0.0975	0.0917	0.0988	0.0850 to 0.115	97.5	70.0 to 130	6.13	20.0
BB18509	Manganese, Dissolved	mg/L	-0.0000171	0.000147	0.100	0.242	0.261	0.108	0.0850 to 0.115	95.0	70.0 to 130	7.55	20.0
BB18652	Iron, Dissolved	mg/L	0.000146	0.0176	0.2	0.385	0.381	0.203	0.170 to 0.230	99.5	70.0 to 130	1.04	20.0
BB18510	Chromium, Total	mg/L	0.0000015	0.000440	0.100	0.105	0.0989	0.107	0.0850 to 0.115	105	70.0 to 130	5.98	20.0
BB18510	Antimony, Total	mg/L	0.0000609	0.00100	0.100	0.0943	0.0910	0.0984	0.0850 to 0.115	94.3	70.0 to 130	3.56	20.0
BB18652	Magnesium, Total	mg/L	-0.00708	0.0462	5.00	5.40	5.40	5.09	4.25 to 5.75	102	70.0 to 130	0.00	20.0
BB18510	Selenium, Total	mg/L	0.000106	0.00100	0.100	0.104	0.0997	0.104	0.0850 to 0.115	104	70.0 to 130	4.22	20.0
BB18652	Lithium, Total	mg/L	-2.030E-05	0.0154	0.200	0.196	0.197	0.197	0.170 to 0.230	98.0	70.0 to 130	0.509	20.0
BB18510	Arsenic, Total	mg/L	-0.0000045	0.000147	0.100	0.102	0.103	0.106	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BB18652	Calcium, Total	mg/L	-0.000307	0.152	5.00	9.64	9.62	5.05	4.25 to 5.75	100	70.0 to 130	0.208	20.0
BB18510	Lead, Total	mg/L	0.0000016	0.000147	0.100	0.107	0.104	0.105	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BB18652	Iron, Total	mg/L	0.000383	0.0176	0.2	0.406	0.404	0.202	0.170 to 0.230	96.5	70.0 to 130	0.494	20.0
BB18652	Mercury, Total by CVAA	mg/L	6.000E-05	0.000500	0.004	0.00404	0.00409	0.00367	0.00340 to 0.00460	101	70.0 to 130	1.23	20.0
BB18652	Boron, Total	mg/L	0.000625	0.0650	1.00	0.980	0.983	0.985	0.850 to 1.15	98.0	70.0 to 130	0.306	20.0
BB18510	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.104	0.102	0.105	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BB18652	Sodium, Total	mg/L	0.00157	0.0660	5.00	5.97	5.95	4.98	4.25 to 5.75	99.6	70.0 to 130	0.336	20.0
BB18510	Potassium, Total	mg/L	0.0112	0.367	10.0	9.99	9.72	10.0	8.50 to 11.5	99.9	70.0 to 130	2.74	20.0
BB18510	Manganese, Total	mg/L	0.0000068	0.000147	0.100	0.104	0.0993	0.107	0.0850 to 0.115	104	70.0 to 130	4.62	20.0

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

Reported: 11/2/2021
Version: 3.4
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASG
Sample Date: 10/5/21 08:00
Customer ID:
Delivery Date: 10/5/21 13:14

Description: Gaston Gypsum - MW-10

Laboratory ID Number: BB18507

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18507	Solids, Dissolved	mg/L	-1.00	25.0			292	51.0	40.0 to 60.0			0.171	5.00
BB18652	Sulfate	mg/L	0.224	1.00	20.0	22.3	2.17	19.9	18.0 to 22.0	101	80.0 to 120	0.926	20.0
BB18652	Alkalinity, Total as CaCO3	mg/L					4.36	50.7	45.0 to 55.0			7.93	10.0
BB18652	Fluoride	mg/L	0.0157	0.100	2.50	2.57	0.00702	2.55	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB18652	Chloride	mg/L	0.0519	1.00	10.0	12.4	2.12	10.1	9.00 to 11.0	103	80.0 to 120	2.39	20.0

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

Reported: 11/2/2021
Version: 3.4
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: 10/5/21 08:40
Customer ID:
Submittal Date: 10/5/21 13:14

Laboratory ID Number: BB18508

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	10/13/21 22:10	10/15/21 10:33		1.015	0.0472	mg/L	0.030000	0.1015	J
* Calcium, Total	10/13/21 22:10	10/15/21 10:33		1.015	13.8	mg/L	0.070035	0.406	
* Iron, Total	10/13/21 22:10	10/15/21 10:33		1.015	0.0260	mg/L	0.008120	0.0406	J
* Lithium, Total	10/13/21 22:10	10/15/21 10:33		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/13/21 22:10	10/15/21 10:33		1.015	2.30	mg/L	0.021315	0.406	
* Sodium, Total	10/13/21 22:10	10/15/21 10:33		1.015	5.62	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	10/13/21 09:10	10/14/21 11:44		1.015	0.0223	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	10/7/21 13:57	10/8/21 13:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/7/21 13:57	10/8/21 13:47		1.015	0.000111	mg/L	0.000068	0.000203	J
* Barium, Total	10/7/21 13:57	10/8/21 13:47		1.015	0.00871	mg/L	0.000102	0.000203	
* Beryllium, Total	10/7/21 13:57	10/8/21 13:47		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/7/21 13:57	10/8/21 13:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/7/21 13:57	10/8/21 13:47		1.015	0.000303	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/7/21 13:57	10/8/21 13:47		1.015	0.00217	mg/L	0.000068	0.000203	
* Lead, Total	10/7/21 13:57	10/8/21 13:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/7/21 13:57	10/8/21 13:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	10/7/21 13:57	10/8/21 13:47		1.015	0.283	mg/L	0.169505	0.5075	J
* Manganese, Total	10/7/21 13:57	10/8/21 13:47		1.015	0.340	mg/L	0.000068	0.000203	
* Selenium, Total	10/7/21 13:57	10/8/21 13:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/7/21 13:57	10/8/21 13:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	10/7/21 14:45	10/8/21 13:31		1.015	0.344	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	10/14/21 16:58	10/14/21 21:15		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	10/14/21 11:21	10/14/21 12:10		1	35.1	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	10/6/21 11:18	10/7/21 13:00		1	92.7	mg/L		25	

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: 11/2/2021
Version: 3.4
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: 10/5/21 08:40
Customer ID:
Submittal Date: 10/5/21 13:14

Laboratory ID Number: BB18508

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	10/14/21 11:21	10/14/21 12:10		1	35.1	mg/L			
Carbonate Alkalinity, (calc.)	10/14/21 11:21	10/14/21 12:10		1	0.00643	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	10/7/21 12:04	10/7/21 12:04		1	13.8	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	10/13/21 10:09	10/13/21 10:09		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	10/7/21 09:49	10/7/21 09:49		1	2.86	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	10/5/21 08:38	10/5/21 08:38			116.44	uS/cm			FA
pH	10/5/21 08:38	10/5/21 08:38			6.01	SU			FA
Temperature	10/5/21 08:38	10/5/21 08:38			21.76	C			FA
Turbidity	10/5/21 08:38	10/5/21 08:38			1.15	NTU			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: 11/2/2021
Version: 3.4
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: 10/5/21 08:40
Customer ID:
Delivery Date: 10/5/21 13:14

Description: Gaston Gypsum - MW-11

Laboratory ID Number: BB18508

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18510	Arsenic, Total	mg/L	-0.0000045	0.000147	0.100	0.102	0.103	0.106	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BB18652	Calcium, Total	mg/L	-0.000307	0.152	5.00	9.64	9.62	5.05	4.25 to 5.75	100	70.0 to 130	0.208	20.0
BB18510	Lead, Total	mg/L	0.0000016	0.000147	0.100	0.107	0.104	0.105	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BB18652	Iron, Total	mg/L	0.000383	0.0176	0.2	0.406	0.404	0.202	0.170 to 0.230	96.5	70.0 to 130	0.494	20.0
BB18652	Mercury, Total by CVAA	mg/L	6.000E-05	0.000500	0.004	0.00404	0.00409	0.00367	0.00340 to 0.00460	101	70.0 to 130	1.23	20.0
BB18652	Boron, Total	mg/L	0.000625	0.0650	1.00	0.980	0.983	0.985	0.850 to 1.15	98.0	70.0 to 130	0.306	20.0
BB18510	Molybdenum, Total	mg/L	0.0000336	0.000147	0.100	0.101	0.0953	0.104	0.0850 to 0.115	101	70.0 to 130	5.81	20.0
BB18510	Barium, Total	mg/L	-0.0000652	0.000200	0.100	0.0975	0.0917	0.0988	0.0850 to 0.115	97.5	70.0 to 130	6.13	20.0
BB18509	Manganese, Dissolved	mg/L	-0.0000171	0.000147	0.100	0.242	0.261	0.108	0.0850 to 0.115	95.0	70.0 to 130	7.55	20.0
BB18652	Iron, Dissolved	mg/L	0.000146	0.0176	0.2	0.385	0.381	0.203	0.170 to 0.230	99.5	70.0 to 130	1.04	20.0
BB18510	Beryllium, Total	mg/L	0.0000563	0.000880	0.100	0.0973	0.0958	0.100	0.0850 to 0.115	97.3	70.0 to 130	1.55	20.0
BB18510	Cobalt, Total	mg/L	-0.0000180	0.000147	0.100	0.104	0.0983	0.107	0.0850 to 0.115	104	70.0 to 130	5.64	20.0
BB18510	Thallium, Total	mg/L	-0.0000091	0.000147	0.100	0.106	0.104	0.109	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BB18510	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.104	0.102	0.105	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BB18652	Sodium, Total	mg/L	0.00157	0.0660	5.00	5.97	5.95	4.98	4.25 to 5.75	99.6	70.0 to 130	0.336	20.0
BB18510	Potassium, Total	mg/L	0.0112	0.367	10.0	9.99	9.72	10.0	8.50 to 11.5	99.9	70.0 to 130	2.74	20.0
BB18510	Manganese, Total	mg/L	0.0000068	0.000147	0.100	0.104	0.0993	0.107	0.0850 to 0.115	104	70.0 to 130	4.62	20.0
BB18510	Chromium, Total	mg/L	0.0000015	0.000440	0.100	0.105	0.0989	0.107	0.0850 to 0.115	105	70.0 to 130	5.98	20.0
BB18510	Antimony, Total	mg/L	0.0000609	0.00100	0.100	0.0943	0.0910	0.0984	0.0850 to 0.115	94.3	70.0 to 130	3.56	20.0
BB18652	Magnesium, Total	mg/L	-0.00708	0.0462	5.00	5.40	5.40	5.09	4.25 to 5.75	102	70.0 to 130	0.00	20.0
BB18510	Selenium, Total	mg/L	0.000106	0.00100	0.100	0.104	0.0997	0.104	0.0850 to 0.115	104	70.0 to 130	4.22	20.0
BB18652	Lithium, Total	mg/L	-2.030E-05	0.0154	0.200	0.196	0.197	0.197	0.170 to 0.230	98.0	70.0 to 130	0.509	20.0

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

Reported: 11/2/2021
Version: 3.4
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASG
Sample Date: 10/5/21 08:40
Customer ID:
Delivery Date: 10/5/21 13:14

Description: Gaston Gypsum - MW-11

Laboratory ID Number: BB18508

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18652	Sulfate	mg/L	0.224	1.00	20.0	22.3	2.17	19.9	18.0 to 22.0	101	80.0 to 120	0.926	20.0
BB18652	Alkalinity, Total as CaCO3	mg/L					4.36	50.7	45.0 to 55.0			7.93	10.0
BB18507	Solids, Dissolved	mg/L	-1.00	25.0			292	51.0	40.0 to 60.0			0.171	5.00
BB18652	Chloride	mg/L	0.0519	1.00	10.0	12.4	2.12	10.1	9.00 to 11.0	103	80.0 to 120	2.39	20.0
BB18652	Fluoride	mg/L	0.0157	0.100	2.50	2.57	0.00702	2.55	2.25 to 2.75	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.

Reported: 11/2/2021
Version: 3.4
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: 10/5/21 09:20
Customer ID:
Submittal Date: 10/5/21 13:14

Laboratory ID Number: BB18509

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	10/13/21 22:10	10/15/21 10:36		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/13/21 10:10	10/15/21 13:27		10.15	87.9	mg/L	0.70035	4.06	
* Iron, Total	10/13/21 22:10	10/15/21 10:36		1.015	0.0179	mg/L	0.008120	0.0406	J
* Lithium, Total	10/13/21 22:10	10/15/21 10:36		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/13/21 22:10	10/15/21 10:36		1.015	9.77	mg/L	0.021315	0.406	
* Sodium, Total	10/13/21 22:10	10/15/21 10:36		1.015	3.04	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	10/13/21 09:10	10/14/21 11:48		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	10/7/21 13:57	10/8/21 13:50		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/7/21 13:57	10/8/21 13:50		1.015	0.000232	mg/L	0.000068	0.000203	
* Barium, Total	10/7/21 13:57	10/8/21 13:50		1.015	0.0212	mg/L	0.000102	0.000203	
* Beryllium, Total	10/7/21 13:57	10/8/21 13:50		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/7/21 13:57	10/8/21 13:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/7/21 13:57	10/8/21 13:50		1.015	0.000290	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/7/21 13:57	10/8/21 13:50		1.015	0.000417	mg/L	0.000068	0.000203	
* Lead, Total	10/7/21 13:57	10/8/21 13:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/7/21 13:57	10/8/21 13:50		1.015	0.000325	mg/L	0.000068	0.000203	
* Potassium, Total	10/7/21 13:57	10/8/21 13:50		1.015	0.274	mg/L	0.169505	0.5075	J
* Manganese, Total	10/7/21 13:57	10/8/21 13:50		1.015	0.166	mg/L	0.000068	0.000203	
* Selenium, Total	10/7/21 13:57	10/8/21 13:50		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/7/21 13:57	10/8/21 13:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	10/7/21 14:45	10/8/21 13:35		1.015	0.147	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	10/14/21 16:58	10/14/21 21:19		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	10/14/21 11:21	10/14/21 12:10		1	206	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	10/11/21 12:09	10/12/21 13:44		1	255	mg/L		25	

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: 11/2/2021
Version: 3.4
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: 10/5/21 09:20
Customer ID:
Submittal Date: 10/5/21 13:14

Laboratory ID Number: BB18509

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	10/14/21 11:21	10/14/21 12:10		1	206	mg/L			
Carbonate Alkalinity, (calc.)	10/14/21 11:21	10/14/21 12:10		1	0.463	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	10/7/21 12:05	10/7/21 12:05		1	3.69	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	10/13/21 10:10	10/13/21 10:10		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	10/7/21 09:51	10/7/21 09:51		1	8.02	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	10/5/21 09:15	10/5/21 09:15			437.70	uS/cm			FA
pH	10/5/21 09:15	10/5/21 09:15			7.25	SU			FA
Temperature	10/5/21 09:15	10/5/21 09:15			20.82	C			FA
Turbidity	10/5/21 09:15	10/5/21 09:15			0.95	NTU			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: 11/2/2021
Version: 3.4
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: 10/5/21 09:20
Customer ID:
Delivery Date: 10/5/21 13:14

Description: Gaston Gypsum - MW-12

Laboratory ID Number: BB18509

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18510	Arsenic, Total	mg/L	-0.0000045	0.000147	0.100	0.102	0.103	0.106	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BB18652	Calcium, Total	mg/L	-0.000307	0.152	5.00	9.64	9.62	5.05	4.25 to 5.75	100	70.0 to 130	0.208	20.0
BB18510	Chromium, Total	mg/L	0.0000015	0.000440	0.100	0.105	0.0989	0.107	0.0850 to 0.115	105	70.0 to 130	5.98	20.0
BB18510	Antimony, Total	mg/L	0.0000609	0.00100	0.100	0.0943	0.0910	0.0984	0.0850 to 0.115	94.3	70.0 to 130	3.56	20.0
BB18652	Magnesium, Total	mg/L	-0.00708	0.0462	5.00	5.40	5.40	5.09	4.25 to 5.75	102	70.0 to 130	0.00	20.0
BB18510	Selenium, Total	mg/L	0.000106	0.00100	0.100	0.104	0.0997	0.104	0.0850 to 0.115	104	70.0 to 130	4.22	20.0
BB18652	Lithium, Total	mg/L	-2.030E-05	0.0154	0.200	0.196	0.197	0.197	0.170 to 0.230	98.0	70.0 to 130	0.509	20.0
BB18510	Beryllium, Total	mg/L	0.0000563	0.000880	0.100	0.0973	0.0958	0.100	0.0850 to 0.115	97.3	70.0 to 130	1.55	20.0
BB18510	Cobalt, Total	mg/L	-0.0000180	0.000147	0.100	0.104	0.0983	0.107	0.0850 to 0.115	104	70.0 to 130	5.64	20.0
BB18510	Thallium, Total	mg/L	-0.0000091	0.000147	0.100	0.106	0.104	0.109	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BB18510	Molybdenum, Total	mg/L	0.0000336	0.000147	0.100	0.101	0.0953	0.104	0.0850 to 0.115	101	70.0 to 130	5.81	20.0
BB18510	Barium, Total	mg/L	-0.0000652	0.000200	0.100	0.0975	0.0917	0.0988	0.0850 to 0.115	97.5	70.0 to 130	6.13	20.0
BB18509	Manganese, Dissolved	mg/L	-0.0000171	0.000147	0.100	0.242	0.261	0.108	0.0850 to 0.115	95.0	70.0 to 130	7.55	20.0
BB18652	Iron, Dissolved	mg/L	0.000146	0.0176	0.2	0.385	0.381	0.203	0.170 to 0.230	99.5	70.0 to 130	1.04	20.0
BB18510	Lead, Total	mg/L	0.0000016	0.000147	0.100	0.107	0.104	0.105	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BB18652	Iron, Total	mg/L	0.000383	0.0176	0.2	0.406	0.404	0.202	0.170 to 0.230	96.5	70.0 to 130	0.494	20.0
BB18652	Mercury, Total by CVAA	mg/L	6.000E-05	0.000500	0.004	0.00404	0.00409	0.00367	0.00340 to 0.00460	101	70.0 to 130	1.23	20.0
BB18652	Boron, Total	mg/L	0.000625	0.0650	1.00	0.980	0.983	0.985	0.850 to 1.15	98.0	70.0 to 130	0.306	20.0
BB18510	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.104	0.102	0.105	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BB18652	Sodium, Total	mg/L	0.00157	0.0660	5.00	5.97	5.95	4.98	4.25 to 5.75	99.6	70.0 to 130	0.336	20.0
BB18510	Potassium, Total	mg/L	0.0112	0.367	10.0	9.99	9.72	10.0	8.50 to 11.5	99.9	70.0 to 130	2.74	20.0
BB18510	Manganese, Total	mg/L	0.0000068	0.000147	0.100	0.104	0.0993	0.107	0.0850 to 0.115	104	70.0 to 130	4.62	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: 10/5/21 09:20
Customer ID:
Delivery Date: 10/5/21 13:14

Description: Gaston Gypsum - MW-12

Laboratory ID Number: BB18509

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18674	Solids, Dissolved	mg/L	0.0000	25.0			173	49.0	40.0 to 60.0			2.54	5.00
BB18652	Chloride	mg/L	0.0519	1.00	10.0	12.4	2.12	10.1	9.00 to 11.0	103	80.0 to 120	2.39	20.0
BB18652	Sulfate	mg/L	0.224	1.00	20.0	22.3	2.17	19.9	18.0 to 22.0	101	80.0 to 120	0.926	20.0
BB18652	Alkalinity, Total as CaCO3	mg/L					4.36	50.7	45.0 to 55.0			7.93	10.0
BB18652	Fluoride	mg/L	0.0157	0.100	2.50	2.57	0.00702	2.55	2.25 to 2.75	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.

Reported: 11/2/2021
Version: 3.4
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: 10/5/21 09:30
Customer ID:
Submittal Date: 10/5/21 13:14

Laboratory ID Number: BB18510

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	10/13/21 22:10	10/15/21 10:40		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/13/21 22:10	10/15/21 10:40		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	10/13/21 22:10	10/15/21 10:40		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	10/13/21 22:10	10/15/21 10:40		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/13/21 22:10	10/15/21 10:40		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	10/13/21 22:10	10/15/21 10:40		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	10/7/21 13:57	10/8/21 13:54		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/7/21 13:57	10/8/21 13:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	10/7/21 13:57	10/8/21 13:54		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Beryllium, Total	10/7/21 13:57	10/8/21 13:54		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/7/21 13:57	10/8/21 13:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/7/21 13:57	10/8/21 13:54		1.015	0.000206	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/7/21 13:57	10/8/21 13:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/7/21 13:57	10/8/21 13:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/7/21 13:57	10/8/21 13:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/7/21 13:57	10/8/21 13:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	10/7/21 13:57	10/8/21 13:54		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	10/7/21 13:57	10/8/21 13:54		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/7/21 13:57	10/8/21 13:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	10/14/21 16:58	10/14/21 21:23		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	10/6/21 11:18	10/7/21 13:00		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	10/7/21 12:06	10/7/21 12:06		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	10/13/21 10:11	10/13/21 10:11		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	10/7/21 09:52	10/7/21 09:52		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Reported: 11/2/2021
Version: 3.4
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: 10/5/21 09:30
Customer ID:
Delivery Date: 10/5/21 13:14

Description: Gaston Gypsum Equipment Blank-1

Laboratory ID Number: BB18510

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18510	Lead, Total	mg/L	0.0000016	0.000147	0.100	0.107	0.104	0.105	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BB18652	Iron, Total	mg/L	0.000383	0.0176	0.2	0.406	0.404	0.202	0.170 to 0.230	96.5	70.0 to 130	0.494	20.0
BB18652	Mercury, Total by CVAA	mg/L	6.000E-05	0.000500	0.004	0.00404	0.00409	0.00367	0.00340 to 0.00460	101	70.0 to 130	1.23	20.0
BB18652	Boron, Total	mg/L	0.000625	0.0650	1.00	0.980	0.983	0.985	0.850 to 1.15	98.0	70.0 to 130	0.306	20.0
BB18510	Molybdenum, Total	mg/L	0.0000336	0.000147	0.100	0.101	0.0953	0.104	0.0850 to 0.115	101	70.0 to 130	5.81	20.0
BB18510	Barium, Total	mg/L	-0.0000652	0.000200	0.100	0.0975	0.0917	0.0988	0.0850 to 0.115	97.5	70.0 to 130	6.13	20.0
BB18510	Arsenic, Total	mg/L	-0.0000045	0.000147	0.100	0.102	0.103	0.106	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BB18652	Calcium, Total	mg/L	-0.000307	0.152	5.00	9.64	9.62	5.05	4.25 to 5.75	100	70.0 to 130	0.208	20.0
BB18510	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.104	0.102	0.105	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BB18652	Sodium, Total	mg/L	0.00157	0.0660	5.00	5.97	5.95	4.98	4.25 to 5.75	99.6	70.0 to 130	0.336	20.0
BB18510	Potassium, Total	mg/L	0.0112	0.367	10.0	9.99	9.72	10.0	8.50 to 11.5	99.9	70.0 to 130	2.74	20.0
BB18510	Manganese, Total	mg/L	0.0000068	0.000147	0.100	0.104	0.0993	0.107	0.0850 to 0.115	104	70.0 to 130	4.62	20.0
BB18510	Beryllium, Total	mg/L	0.0000563	0.000880	0.100	0.0973	0.0958	0.100	0.0850 to 0.115	97.3	70.0 to 130	1.55	20.0
BB18510	Cobalt, Total	mg/L	-0.0000180	0.000147	0.100	0.104	0.0983	0.107	0.0850 to 0.115	104	70.0 to 130	5.64	20.0
BB18510	Thallium, Total	mg/L	-0.0000091	0.000147	0.100	0.106	0.104	0.109	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BB18510	Chromium, Total	mg/L	0.0000015	0.000440	0.100	0.105	0.0989	0.107	0.0850 to 0.115	105	70.0 to 130	5.98	20.0
BB18510	Antimony, Total	mg/L	0.0000609	0.00100	0.100	0.0943	0.0910	0.0984	0.0850 to 0.115	94.3	70.0 to 130	3.56	20.0
BB18652	Magnesium, Total	mg/L	-0.00708	0.0462	5.00	5.40	5.40	5.09	4.25 to 5.75	102	70.0 to 130	0.00	20.0
BB18510	Selenium, Total	mg/L	0.000106	0.00100	0.100	0.104	0.0997	0.104	0.0850 to 0.115	104	70.0 to 130	4.22	20.0
BB18652	Lithium, Total	mg/L	-2.030E-05	0.0154	0.200	0.196	0.197	0.197	0.170 to 0.230	98.0	70.0 to 130	0.509	20.0

Comments:

Reported: 11/2/2021
Version: 3.4
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASGEB
Sample Date: 10/5/21 09:30
Customer ID:
Delivery Date: 10/5/21 13:14

Description: Gaston Gypsum Equipment Blank-1

Laboratory ID Number: BB18510

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18652	Chloride	mg/L	0.0519	1.00	10.0	12.4	2.12	10.1	9.00 to 11.0	103	80.0 to 120	2.39	20.0
BB18507	Solids, Dissolved	mg/L	-1.00	25.0			292	51.0	40.0 to 60.0			0.171	5.00
BB18652	Sulfate	mg/L	0.224	1.00	20.0	22.3	2.17	19.9	18.0 to 22.0	101	80.0 to 120	0.926	20.0
BB18652	Fluoride	mg/L	0.0157	0.100	2.50	2.57	0.00702	2.55	2.25 to 2.75	103	80.0 to 120	0.00	20.0

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Gaston Gypsum - MW-15

Location Code: WMWGASG
Collected: 10/6/21 11:33
Customer ID:
Submittal Date: 10/6/21 15:03

Laboratory ID Number: BB18652

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	10/13/21 22:10	10/15/21 10:43		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/13/21 22:10	10/15/21 10:43		1.015	4.62	mg/L	0.070035	0.406	
* Iron, Total	10/13/21 22:10	10/15/21 10:43		1.015	0.213	mg/L	0.008120	0.0406	
* Lithium, Total	10/13/21 22:10	10/15/21 10:43		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/13/21 22:10	10/15/21 10:43		1.015	0.307	mg/L	0.021315	0.406	J
* Sodium, Total	10/13/21 22:10	10/15/21 10:43		1.015	0.990	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	10/13/21 09:10	10/14/21 11:51		1.015	0.186	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	10/7/21 13:57	10/8/21 14:08		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/7/21 13:57	10/8/21 14:08		1.015	0.000319	mg/L	0.000068	0.000203	
* Barium, Total	10/7/21 13:57	10/8/21 14:08		1.015	0.00769	mg/L	0.000102	0.000203	
* Beryllium, Total	10/7/21 13:57	10/8/21 14:08		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/7/21 13:57	10/8/21 14:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/7/21 13:57	10/8/21 14:08		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/7/21 13:57	10/8/21 14:08		1.015	0.000501	mg/L	0.000068	0.000203	
* Lead, Total	10/7/21 13:57	10/8/21 14:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/7/21 13:57	10/8/21 14:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	10/7/21 13:57	10/8/21 14:08		1.015	0.252	mg/L	0.169505	0.5075	J
* Manganese, Total	10/7/21 13:57	10/8/21 14:08		1.015	0.0523	mg/L	0.000068	0.000203	
* Selenium, Total	10/7/21 13:57	10/8/21 14:08		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/7/21 13:57	10/8/21 14:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	10/7/21 14:45	10/8/21 13:49		1.015	0.0501	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	10/14/21 16:58	10/14/21 21:27		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	10/14/21 11:21	10/14/21 12:10		1	4.72	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	10/12/21 11:15	10/13/21 12:56		1	Not Detected	mg/L		25	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: 11/2/2021
Version: 3.4
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: 10/6/21 11:33
Customer ID:
Submittal Date: 10/6/21 15:03

Laboratory ID Number: BB18652

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	10/14/21 11:21	10/14/21 12:10		1	4.72	mg/L			
Carbonate Alkalinity, (calc.)	10/14/21 11:21	10/14/21 12:10		1	0.00031	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	10/7/21 12:07	10/7/21 12:07		1	2.07	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	10/13/21 10:12	10/13/21 10:12		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	10/7/21 09:53	10/7/21 09:53		1	2.15	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	10/6/21 11:30	10/6/21 11:30			32.74	uS/cm			FA
pH	10/6/21 11:30	10/6/21 11:30			5.64	SU			FA
Temperature	10/6/21 11:30	10/6/21 11:30			21.58	C			FA
Turbidity	10/6/21 11:30	10/6/21 11:30			2.78	NTU			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: 11/2/2021
Version: 3.4
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: 10/6/21 11:33
Customer ID:
Delivery Date: 10/6/21 15:03

Description: Gaston Gypsum - MW-15

Laboratory ID Number: BB18652

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18510	Chromium, Total	mg/L	0.0000015	0.000440	0.100	0.105	0.0989	0.107	0.0850 to 0.115	105	70.0 to 130	5.98	20.0
BB18510	Antimony, Total	mg/L	0.0000609	0.00100	0.100	0.0943	0.0910	0.0984	0.0850 to 0.115	94.3	70.0 to 130	3.56	20.0
BB18652	Magnesium, Total	mg/L	-0.00708	0.0462	5.00	5.40	5.40	5.09	4.25 to 5.75	102	70.0 to 130	0.00	20.0
BB18510	Selenium, Total	mg/L	0.000106	0.00100	0.100	0.104	0.0997	0.104	0.0850 to 0.115	104	70.0 to 130	4.22	20.0
BB18652	Lithium, Total	mg/L	-2.030E-05	0.0154	0.200	0.196	0.197	0.197	0.170 to 0.230	98.0	70.0 to 130	0.509	20.0
BB18510	Arsenic, Total	mg/L	-0.0000045	0.000147	0.100	0.102	0.103	0.106	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BB18652	Calcium, Total	mg/L	-0.000307	0.152	5.00	9.64	9.62	5.05	4.25 to 5.75	100	70.0 to 130	0.208	20.0
BB18510	Beryllium, Total	mg/L	0.0000563	0.000880	0.100	0.0973	0.0958	0.100	0.0850 to 0.115	97.3	70.0 to 130	1.55	20.0
BB18510	Cobalt, Total	mg/L	-0.0000180	0.000147	0.100	0.104	0.0983	0.107	0.0850 to 0.115	104	70.0 to 130	5.64	20.0
BB18510	Thallium, Total	mg/L	-0.0000091	0.000147	0.100	0.106	0.104	0.109	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BB18510	Molybdenum, Total	mg/L	0.0000336	0.000147	0.100	0.101	0.0953	0.104	0.0850 to 0.115	101	70.0 to 130	5.81	20.0
BB18510	Barium, Total	mg/L	-0.0000652	0.000200	0.100	0.0975	0.0917	0.0988	0.0850 to 0.115	97.5	70.0 to 130	6.13	20.0
BB18509	Manganese, Dissolved	mg/L	-0.0000171	0.000147	0.100	0.242	0.261	0.108	0.0850 to 0.115	95.0	70.0 to 130	7.55	20.0
BB18652	Iron, Dissolved	mg/L	0.000146	0.0176	0.2	0.385	0.381	0.203	0.170 to 0.230	99.5	70.0 to 130	1.04	20.0
BB18510	Lead, Total	mg/L	0.0000016	0.000147	0.100	0.107	0.104	0.105	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BB18652	Iron, Total	mg/L	0.000383	0.0176	0.2	0.406	0.404	0.202	0.170 to 0.230	96.5	70.0 to 130	0.494	20.0
BB18652	Mercury, Total by CVAA	mg/L	6.000E-05	0.000500	0.004	0.00404	0.00409	0.00367	0.00340 to 0.00460	101	70.0 to 130	1.23	20.0
BB18652	Boron, Total	mg/L	0.000625	0.0650	1.00	0.980	0.983	0.985	0.850 to 1.15	98.0	70.0 to 130	0.306	20.0
BB18510	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.104	0.102	0.105	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BB18652	Sodium, Total	mg/L	0.00157	0.0660	5.00	5.97	5.95	4.98	4.25 to 5.75	99.6	70.0 to 130	0.336	20.0
BB18510	Potassium, Total	mg/L	0.0112	0.367	10.0	9.99	9.72	10.0	8.50 to 11.5	99.9	70.0 to 130	2.74	20.0
BB18510	Manganese, Total	mg/L	0.0000068	0.000147	0.100	0.104	0.0993	0.107	0.0850 to 0.115	104	70.0 to 130	4.62	20.0

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

Reported: 11/2/2021
Version: 3.4
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGASG
Sample Date: 10/6/21 11:33
Customer ID:
Delivery Date: 10/6/21 15:03

Description: Gaston Gypsum - MW-15

Laboratory ID Number: BB18652

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18652	Sulfate	mg/L	0.224	1.00	20.0	22.3	2.17	19.9	18.0 to 22.0	101	80.0 to 120	0.926	20.0
BB18652	Alkalinity, Total as CaCO3	mg/L					4.36	50.7	45.0 to 55.0			7.93	10.0
BB18652	Chloride	mg/L	0.0519	1.00	10.0	12.4	2.12	10.1	9.00 to 11.0	103	80.0 to 120	2.39	20.0
BB18744	Solids, Dissolved	mg/L	1.00	25.0			326	50.0	40.0 to 60.0			1.40	5.00
BB18652	Fluoride	mg/L	0.0157	0.100	2.50	2.57	0.00702	2.55	2.25 to 2.75	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
(205) 664-6001

Definitions

Alabama Power

Project Number: WMWGASG_1340

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.
U	Compound was analyzed, but not detected.

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☐ Outside Lab
☑ Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	Dallas Gentry	Requested By	Greg Dyer
		Location	Gaston Gypsum

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

Comments: Correcting bottle count for MW-13 DUP to 6 and FB-1 to 4. LBM 10/5/21

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-14S	10/04/2021	10:29	6	Groundwater		BB18470
MW-3	10/04/2021	11:48	6	Groundwater		BB18471
MW-2	10/04/2021	13:01	6	Groundwater		BB18472
MW-1	10/04/2021	14:11	6	Groundwater		BB18473
MW-13	10/04/2021	14:58	6	Groundwater		BB18474
MW-13 dup	10/04/2021	14:58	6	Sample Duplicate		BB18475
FB-1	10/04/2021	15:30	4	Field Blank		BB18476

Relinquished By	Received By	Date/Time
		10/05/2021 08:08

SmarTroll ID	7586-41444-5-3	All metals and radiological bottles have pH < 2	☑
Turbidity ID	3901-20010-2-2	Cooler Temp	0.4 degrees C
Sample Event	1340	Thermometer ID	5408-27568-2-2
		pH Strip ID	8440-53679-10-5

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	Anthony Goggins	Requested By	Greg Dyer
		Location	Gaston Gypsum

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

Comments: Upon field peer review, it was discovered that MW-15 did not meet the DO requirements at collection. MW-15 will be recollected. BB18499 was deleted by LBM from Labworks. LBM 10/6/21

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-15	10/04/2021	11:40	6	Groundwater		-
MW-5	10/04/2021	13:05	6	Groundwater		BB18500
MW-5 Dup	10/04/2021	13:05	6	Sample Duplicate		BB18501
MW-6	10/04/2021	13:55	6	Groundwater		BB18502
MW-7	10/04/2021	15:02	6	Groundwater		BB18503
FB-2	10/04/2021	15:30	4	Field Blank		BB18504
MW-8	10/04/2021	16:10	6	Groundwater		BB18505
MW-9	10/05/2021	07:20	6	Groundwater		BB18506
MW-10	10/05/2021	08:00	6	Groundwater		BB18507
MW-11	10/05/2021	08:40	6	Groundwater		BB18508
MW-12	10/05/2021	09:20	6	Groundwater		BB18509
EB-1	10/05/2021	09:30	4	Equipment Blank		BB18510

Relinquished By	Received By	Date/Time
		10/05/2021 11:50

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2	☑
Turbidity ID	4677-23343-4-2	Cooler Temp	0.0 degrees C
Sample Event	1340	Thermometer ID	5408-27568-2-2
		pH Strip ID	8440-53679-10-5

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	Anthony Goggins	Requested By	Greg Dyer
		Location	Gaston Gypsum

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

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-15	10/06/2021	11:33	6	Groundwater		BB18652

Relinquished By	Received By	Date/Time
		10/06/2021 14:22

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2	☑
Turbidity ID	4677-23343-4-2	Cooler Temp	0.4 degrees C
Sample Event	1340	Thermometer ID	5408-27568-2-2
		pH Strip ID	8440-53679-10-5

Bottles/Pre-Preserved Bottles are provided by the GTL

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

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-14S	10/04/2021	10:29	1	Groundwater		BB18477
MW-3	10/04/2021	11:48	1	Groundwater		BB18478
MW-2	10/04/2021	13:01	1	Groundwater		BB18479
MW-1	10/04/2021	14:11	1	Groundwater		BB18480
MW-13	10/04/2021	14:58	1	Groundwater		BB18481
MW-13 dup	10/04/2021	14:58	1	Sample Duplicate		BB18482
FB-1	10/04/2021	15:30	1	Field Blank		BB18483

Relinquished By	Received By	Date/Time
Dallas Gentry	Laura Mayo	10/05/2021 08:08

SmarTroll ID	7586-41444-5-3	All metals and radiological bottles have pH < 2	☑
Turbidity ID	3901-20010-2-2	Cooler Temp	N/A
Sample Event	1340	Thermometer ID	N/A
		pH Strip ID	8440-53679-10-5

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	Anthony Goggins	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: MS/MSD collected at MW-6. Upon field peer review, it was discovered that MW-15 did not meet the DO requirements at collection. MW-15 will be recollected. BB18511 was deleted by LBM from Labworks. LBM 10/6/21

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-15	10/04/2021	11:40	1	Groundwater		-
MW-5	10/04/2021	13:05	1	Groundwater		BB18512
MW-5 Dup	10/04/2021	13:05	1	Sample Duplicate		BB18513
MW-6	10/04/2021	13:55	3	Groundwater		BB18514
MW-7	10/04/2021	15:02	1	Groundwater		BB18515
FB-2	10/04/2021	15:30	1	Field Blank		BB18516
MW-8	10/04/2021	16:10	1	Groundwater		BB18517
MW-9	10/05/2021	07:20	1	Groundwater		BB18518
MW-10	10/05/2021	08:00	1	Groundwater		BB18519
MW-11	10/05/2021	08:40	1	Groundwater		BB18520
MW-12	10/05/2021	09:20	1	Groundwater		BB18521
EB-1	10/05/2021	09:30	1	Equipment Blank		BB18522

Relinquished By	Received By	Date/Time
		10/05/2021 11:51

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2	☑
Turbidity ID	4677-23343-4-2	Cooler Temp	N/A
Sample Event	1340	Thermometer ID	N/A
		pH Strip ID	8440-53679-10-5

Bottles/Pre-Preserved Bottles are provided by the GTL

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	Anthony Goggins	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-15	10/06/2021	11:33	1	Groundwater		BB18653

Relinquished By	Received By	Date/Time
		10/06/2021 14:21

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2	☑
Turbidity ID	4677-23343-4-2	Cooler Temp	N/A
Sample Event	1340	Thermometer ID	N/A
		pH Strip ID	8440-53679-10-5

Bottles/Pre-Preserved Bottles are provided by the GTL

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

January 03, 2022

Laura Midkiff
Alabama Power
744 Highway 87
GSC #8
Calera, AL 35040

RE: Project: Gaston Gypsum WMWGASG_1340-Revised Report
Pace Project No.: 92567006

Dear Laura Midkiff:

Enclosed are the analytical results for sample(s) received by the laboratory between October 11, 2021 and October 12, 2021. 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

This revision was issued on 1/3/22 to include all associated QC sheets.

This revision was issued on 12/28/21 to include the correct QA sheets.

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

Sincerely,

Nicole D'Oleo

Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Brooke Caton, Alabama Power
Renee Jernigan, Alabama Power

Pace Analytical Services, LLC
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(704)875-9092

CERTIFICATIONS

Project: Gaston Gypsum WMWGASG_1340-Revised Report
Pace Project No.: 92567006

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 #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: Gaston Gypsum WMWGASG_1340-Revised Report
Pace Project No.: 92567006

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92567006001	**BB18477 MW-14S**	Water	10/04/21 10:29	10/11/21 09:00
92567006002	**BB18478 MW-3**	Water	10/04/21 11:48	10/11/21 09:00
92567006003	**BB18479 MW-2**	Water	10/04/21 13:01	10/11/21 09:00
92567006004	**BB18480 MW-1**	Water	10/04/21 14:11	10/11/21 09:00
92567006005	**BB18481 MW-13**	Water	10/04/21 14:58	10/11/21 09:00
92567006006	**BB18482 MW-13 DUP**	Water	10/04/21 14:58	10/11/21 09:00
92567006007	**BB18483 FB-1**	Water	10/04/21 15:30	10/11/21 09:00
92567006009	**BB18512 MW-5**	Water	10/04/21 13:05	10/11/21 09:00
92567006010	**BB18513 MW-5 DUP**	Water	10/04/21 13:05	10/11/21 09:00
92567006011	**BB18514 MW-6**	Water	10/04/21 13:55	10/11/21 09:00
92567006012	**BB18514 MW-6 MS**	Water	10/04/21 13:55	10/11/21 09:00
92567006013	**BB18514 MW-6 MSD**	Water	10/04/21 13:55	10/11/21 09:00
92567006014	**BB18515 MW-7**	Water	10/04/21 15:02	10/11/21 09:00
92567006015	**BB18516 FB-2**	Water	10/04/21 15:30	10/11/21 09:00
92567006016	**BB18517 MW-8**	Water	10/04/21 16:10	10/11/21 09:00
92567006017	**BB18518 MW-9**	Water	10/05/21 07:20	10/11/21 09:00
92567006018	**BB18519 MW-10**	Water	10/05/21 08:00	10/11/21 09:00
92567006019	**BB18520 MW-11**	Water	10/05/21 08:40	10/11/21 09:00
92567006020	**BB18521 MW-12**	Water	10/05/21 09:20	10/11/21 09:00
92567006021	**BB18522 EB-1**	Water	10/05/21 09:30	10/11/21 09:00
92567006022	**BB18653 MW-15**	Water	10/06/21 11:33	10/12/21 09:30

Pace Analytical Services, LLC
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SAMPLE ANALYTE COUNT

Project: Gaston Gypsum WMWGASG_1340-Revised Report
Pace Project No.: 92567006

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92567006001	**BB18477 MW-14S**	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92567006002	**BB18478 MW-3**	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92567006003	**BB18479 MW-2**	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92567006004	**BB18480 MW-1**	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92567006005	**BB18481 MW-13**	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92567006006	**BB18482 MW-13 DUP**	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92567006007	**BB18483 FB-1**	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92567006009	**BB18512 MW-5**	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92567006010	**BB18513 MW-5 DUP**	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92567006011	**BB18514 MW-6**	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92567006012	**BB18514 MW-6 MS**	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92567006013	**BB18514 MW-6 MSD**	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92567006014	**BB18515 MW-7**	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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(704)875-9092

SAMPLE ANALYTE COUNT

Project: Gaston Gypsum WMWGASG_1340-Revised Report
Pace Project No.: 92567006

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92567006015	**BB18516 FB-2**	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92567006016	**BB18517 MW-8**	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92567006017	**BB18518 MW-9**	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92567006018	**BB18519 MW-10**	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92567006019	**BB18520 MW-11**	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92567006020	**BB18521 MW-12**	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92567006021	**BB18522 EB-1**	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92567006022	**BB18653 MW-15**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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PROJECT NARRATIVE

Project: Gaston Gypsum WMWGASG_1340-Revised Report
Pace Project No.: 92567006

Method: **EPA 9315**
Description: 9315 Total Radium
Client: Alabama Power
Date: January 03, 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
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(704)875-9092

PROJECT NARRATIVE

Project: Gaston Gypsum WMWGASG_1340-Revised Report
Pace Project No.: 92567006

Method: **EPA 9320**
Description: 9320 Radium 228
Client: Alabama Power
Date: January 03, 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
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(704)875-9092

PROJECT NARRATIVE

Project: Gaston Gypsum WMWGASG_1340-Revised Report
Pace Project No.: 92567006

Method: **Total Radium Calculation**
Description: Total Radium 228+226
Client: Alabama Power
Date: January 03, 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
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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Gaston Gypsum WMWGASG_1340-Revised Report
Pace Project No.: 92567006

Sample: BB18477 MW-14S **Lab ID: 92567006001** Collected: 10/04/21 10:29 Received: 10/11/21 09:00 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	**0.0801U ± 0.183 (0.434) C:85% T:NA**	pCi/L	11/17/21 14:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.493U ± 0.388 (0.766) C:67% T:87%**	pCi/L	11/02/21 14:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.573U ± 0.571 (1.20)**	pCi/L	11/24/21 15:40	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Gaston Gypsum WMWGASG_1340-Revised Report
Pace Project No.: 92567006

Sample: BB18478 MW-3 **Lab ID: 92567006002** Collected: 10/04/21 11:48 Received: 10/11/21 09:00 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	**0.209U ± 0.222 (0.445) C:90% T:NA**	pCi/L	11/17/21 14:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.01 ± 0.519 (0.910) C:65% T:76%**	pCi/L	11/02/21 14:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.22U ± 0.741 (1.36)**	pCi/L	11/24/21 15:40	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Gaston Gypsum WMWGASG_1340-Revised Report
Pace Project No.: 92567006

Sample: BB18479 MW-2 **Lab ID: 92567006003** Collected: 10/04/21 13:01 Received: 10/11/21 09:00 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	**0.133U ± 0.213 (0.473) C:86% T:NA**	pCi/L	11/17/21 14:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.964 ± 0.502 (0.878) C:64% T:78%**	pCi/L	11/02/21 14:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.10U ± 0.715 (1.35)**	pCi/L	11/24/21 15:40	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Gaston Gypsum WMWGASG_1340-Revised Report
Pace Project No.: 92567006

Sample: BB18480 MW-1 **Lab ID: 92567006004** Collected: 10/04/21 14:11 Received: 10/11/21 09:00 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	**0.616 ± 0.326 (0.435) C:75% T:NA**	pCi/L	11/17/21 14:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.817 ± 0.423 (0.738) C:65% T:89%**	pCi/L	11/02/21 14:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.43 ± 0.749 (1.17)**	pCi/L	11/24/21 15:40	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Gaston Gypsum WMWGASG_1340-Revised Report
Pace Project No.: 92567006

Sample: BB18481 MW-13 **Lab ID: 92567006005** Collected: 10/04/21 14:58 Received: 10/11/21 09:00 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	**-0.0285U ± 0.146 (0.432) C:89% T:NA**	pCi/L	11/17/21 14:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.231U ± 0.321 (0.687) C:64% T:86%**	pCi/L	11/02/21 14:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.231U ± 0.467 (1.12)**	pCi/L	11/24/21 15:40	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Gaston Gypsum WMWGASG_1340-Revised Report
Pace Project No.: 92567006

Sample: BB18482 MW-13 DUP **Lab ID: 92567006006** Collected: 10/04/21 14:58 Received: 10/11/21 09:00 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	**0.204U ± 0.223 (0.445) C:84% T:NA**	pCi/L	11/17/21 16:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.540U ± 0.386 (0.747) C:69% T:88%**	pCi/L	11/02/21 14:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.744U ± 0.609 (1.19)**	pCi/L	11/24/21 15:40	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Gaston Gypsum WMWGASG_1340-Revised Report
Pace Project No.: 92567006

Sample: BB18483 FB-1 **Lab ID: 92567006007** Collected: 10/04/21 15:30 Received: 10/11/21 09:00 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	**0.0207U ± 0.166 (0.439) C:87% T:NA**	pCi/L	11/17/21 16:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.834 ± 0.460 (0.825) C:66% T:77%**	pCi/L	11/02/21 14:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.855U ± 0.626 (1.26)**	pCi/L	11/24/21 15:40	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Gaston Gypsum WMWGASG_1340-Revised Report
Pace Project No.: 92567006

Sample: BB18512 MW-5 **Lab ID: 92567006009** Collected: 10/04/21 13:05 Received: 10/11/21 09:00 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 ± 0.188 (0.431) C:96% T:NA**	pCi/L	11/17/21 16:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.00924U ± 0.336 (0.780) C:69% T:90%**	pCi/L	11/02/21 14:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.110U ± 0.524 (1.21)**	pCi/L	11/24/21 15:40	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Gaston Gypsum WMWGASG_1340-Revised Report
Pace Project No.: 92567006

Sample: BB18513 MW-5 DUP **Lab ID: 92567006010** Collected: 10/04/21 13:05 Received: 10/11/21 09:00 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	**-0.0328U ± 0.154 (0.459) C:83% T:NA**	pCi/L	11/17/21 18:10	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.225U ± 0.342 (0.738) C:68% T:93%**	pCi/L	11/02/21 14:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.225U ± 0.496 (1.20)**	pCi/L	11/24/21 16:03	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Gaston Gypsum WMWGASG_1340-Revised Report
Pace Project No.: 92567006

Sample: BB18514 MW-6 **Lab ID: 92567006011** Collected: 10/04/21 13:55 Received: 10/11/21 09:00 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	**0.0572U ± 0.142 (0.343) C:97% T:NA**	pCi/L	11/17/21 16:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.64 ± 0.601 (0.868) C:63% T:83%**	pCi/L	11/02/21 14:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.70 ± 0.743 (1.21)**	pCi/L	11/24/21 15:40	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Gaston Gypsum WMWGASG_1340-Revised Report
Pace Project No.: 92567006

Sample: BB18514 MW-6 MS **Lab ID: 92567006012** Collected: 10/04/21 13:55 Received: 10/11/21 09:00 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	**105.36 %REC ± NA (NA) C:NA T:NA**	pCi/L	11/17/21 16:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**62.02 %REC ± NA (NA) C:NA T:NA**	pCi/L	11/02/21 14:09	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Gaston Gypsum WMWGASG_1340-Revised Report
Pace Project No.: 92567006

Sample: BB18514 MW-6 MSD **Lab ID: 92567006013** Collected: 10/04/21 13:55 Received: 10/11/21 09:00 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	**103.46 %REC 1.82 RPD ± NA (NA) C:NA T:NA**	pCi/L	11/17/21 16:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**68.85 %REC 10.43 RPD ± NA (NA) C:NA T:NA**	pCi/L	11/02/21 14:09	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Gaston Gypsum WMWGASG_1340-Revised Report
Pace Project No.: 92567006

Sample: BB18515 MW-7 **Lab ID: 92567006014** Collected: 10/04/21 15:02 Received: 10/11/21 09:00 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	**0.0469U ± 0.167 (0.419) C:93% T:NA**	pCi/L	11/17/21 18:10	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0973U ± 0.379 (0.863) C:66% T:77%**	pCi/L	11/02/21 14:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.144U ± 0.546 (1.28)**	pCi/L	11/24/21 16:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Gaston Gypsum WMWGASG_1340-Revised Report
Pace Project No.: 92567006

Sample: BB18516 FB-2 **Lab ID: 92567006015** Collected: 10/04/21 15:30 Received: 10/11/21 09:00 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	**0.0707U ± 0.161 (0.382) C:91% T:NA**	pCi/L	11/17/21 18:10	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.383U ± 0.373 (0.951) C:65% T:76%**	pCi/L	11/02/21 14:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0707U ± 0.534 (1.33)**	pCi/L	11/24/21 16:03	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Gaston Gypsum WMWGASG_1340-Revised Report
Pace Project No.: 92567006

Sample: BB18517 MW-8 **Lab ID: 92567006016** Collected: 10/04/21 16:10 Received: 10/11/21 09:00 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	**0.199U ± 0.218 (0.436) C:88% T:NA**	pCi/L	11/17/21 18:10	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.595U ± 0.427 (0.821) C:64% T:85%**	pCi/L	11/02/21 14:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.794U ± 0.645 (1.26)**	pCi/L	11/24/21 16:03	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Gaston Gypsum WMWGASG_1340-Revised Report
Pace Project No.: 92567006

Sample: BB18518 MW-9 **Lab ID: 92567006017** Collected: 10/05/21 07:20 Received: 10/11/21 09:00 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	**0.00542U ± 0.138 (0.391) C:84% T:NA**	pCi/L	11/17/21 18:10	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.195U ± 0.377 (0.829) C:65% T:83%**	pCi/L	11/02/21 14:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.200U ± 0.515 (1.22)**	pCi/L	11/24/21 16:03	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Gaston Gypsum WMWGASG_1340-Revised Report
Pace Project No.: 92567006

Sample: BB18519 MW-10 **Lab ID: 92567006018** Collected: 10/05/21 08:00 Received: 10/11/21 09:00 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	**0.0509U ± 0.164 (0.407) C:94% T:NA**	pCi/L	11/17/21 18:10	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.218U ± 0.343 (0.743) C:66% T:90%**	pCi/L	11/02/21 14:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.269U ± 0.507 (1.15)**	pCi/L	11/24/21 16:03	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Gaston Gypsum WMWGASG_1340-Revised Report
Pace Project No.: 92567006

Sample: BB18520 MW-11 **Lab ID: 92567006019** Collected: 10/05/21 08:40 Received: 10/11/21 09:00 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	**0.0128U ± 0.174 (0.463) C:90% T:NA**	pCi/L	11/17/21 18:10	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.511U ± 0.475 (0.967) C:65% T:74%**	pCi/L	11/02/21 14:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.524U ± 0.649 (1.43)**	pCi/L	11/24/21 16:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Gaston Gypsum WMWGASG_1340-Revised Report
Pace Project No.: 92567006

Sample: BB18521 MW-12 **Lab ID: 92567006020** Collected: 10/05/21 09:20 Received: 10/11/21 09:00 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	**0.0173U ± 0.158 (0.421) C:92% T:NA**	pCi/L	11/17/21 18:10	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.40 ± 0.472 (0.655) C:82% T:88%**	pCi/L	11/08/21 11:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.42 ± 0.630 (1.08)**	pCi/L	11/24/21 16:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Gaston Gypsum WMWGASG_1340-Revised Report
Pace Project No.: 92567006

Sample: BB18522 EB-1 **Lab ID: 92567006021** Collected: 10/05/21 09:30 Received: 10/11/21 09:00 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	**0.0920U ± 0.225 (0.542) C:89% T:NA**	pCi/L	11/17/21 18:10	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.15 ± 0.509 (0.824) C:79% T:84%**	pCi/L	11/08/21 11:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.24U ± 0.734 (1.37)**	pCi/L	11/24/21 16:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Gaston Gypsum WMWGASG_1340-Revised Report
Pace Project No.: 92567006

Sample: BB18653 MW-15 **Lab ID: 92567006022** Collected: 10/06/21 11:33 Received: 10/12/21 09:30 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	**0.190U ± 0.178 (0.325) C:89% T:NA**	pCi/L	12/03/21 08:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.14 ± 0.438 (0.669) C:81% T:86%**	pCi/L	11/08/21 11:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.33 ± 0.616 (0.994)**	pCi/L	12/03/21 16:58	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Gaston Gypsum WMWGASG_1340-Revised Report
Pace Project No.: 92567006

QC Batch: 468492 | Analysis Method: EPA 9315
QC Batch Method: EPA 9315 | Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92567006010, 92567006014, 92567006015, 92567006016, 92567006017, 92567006018, 92567006019, 92567006020, 92567006021

METHOD BLANK: 2262207 Matrix: Water

Associated Lab Samples: 92567006010, 92567006014, 92567006015, 92567006016, 92567006017, 92567006018, 92567006019, 92567006020, 92567006021

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.201 ± 0.217 (0.431) C:93% T:NA	pCi/L	11/17/21 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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Gaston Gypsum WMWGASG_1340-Revised Report
Pace Project No.: 92567006

QC Batch: 470009
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92567006022

METHOD BLANK: 2269074
Matrix: Water
Associated Lab Samples: 92567006022

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0230 ± 0.117 (0.365) C:97% T:NA	pCi/L	12/03/21 08:48	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Gaston Gypsum WMWGASG_1340-Revised Report
Pace Project No.: 92567006

QC Batch: 468569
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92567006001, 92567006002, 92567006003, 92567006004, 92567006005, 92567006006, 92567006007, 92567006009, 92567006010, 92567006011, 92567006012, 92567006013, 92567006014, 92567006015, 92567006016, 92567006017, 92567006018, 92567006019

METHOD BLANK: 2262521
Matrix: Water
Associated Lab Samples: 92567006001, 92567006002, 92567006003, 92567006004, 92567006005, 92567006006, 92567006007, 92567006009, 92567006010, 92567006011, 92567006012, 92567006013, 92567006014, 92567006015, 92567006016, 92567006017, 92567006018, 92567006019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.304 ± 0.400 (0.850) C:64% T:78%	pCi/L	11/02/21 14:07	

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
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL - RADIOCHEMISTRY

Project: Gaston Gypsum WMWGASG_1340-Revised Report
Pace Project No.: 92567006

QC Batch: 468260 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92567006001, 92567006002, 92567006003, 92567006004, 92567006005, 92567006006, 92567006007, 92567006009, 92567006011, 92567006012, 92567006013

METHOD BLANK: 2260798 Matrix: Water
Associated Lab Samples: 92567006001, 92567006002, 92567006003, 92567006004, 92567006005, 92567006006, 92567006007, 92567006009, 92567006011, 92567006012, 92567006013

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.105 ± 0.204 (0.471) C:86% T:NA	pCi/L	11/17/21 14:27	

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
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL - RADIOCHEMISTRY

Project: Gaston Gypsum WMWGASG_1340-Revised Report
Pace Project No.: 92567006

QC Batch: 470827
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92567006020, 92567006021, 92567006022

METHOD BLANK: 2272895 Matrix: Water
Associated Lab Samples: 92567006020, 92567006021, 92567006022

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.897 ± 0.395 (0.647) C:80% T:87%	pCi/L	11/08/21 11:14	

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
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: Gaston Gypsum WMWGASG_1340-Revised Report
Pace Project No.: 92567006

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(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
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Gaston Gypsum WMWGASG_1340-Revised Report
Pace Project No.: 92567006

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92567006001	BB18477 MW-14S	EPA 9315	468260		
92567006002	BB18478 MW-3	EPA 9315	468260		
92567006003	BB18479 MW-2	EPA 9315	468260		
92567006004	BB18480 MW-1	EPA 9315	468260		
92567006005	BB18481 MW-13	EPA 9315	468260		
92567006006	BB18482 MW-13 DUP	EPA 9315	468260		
92567006007	BB18483 FB-1	EPA 9315	468260		
92567006009	BB18512 MW-5	EPA 9315	468260		
92567006010	BB18513 MW-5 DUP	EPA 9315	468492		
92567006011	BB18514 MW-6	EPA 9315	468260		
92567006012	BB18514 MW-6 MS	EPA 9315	468260		
92567006013	BB18514 MW-6 MSD	EPA 9315	468260		
92567006014	BB18515 MW-7	EPA 9315	468492		
92567006015	BB18516 FB-2	EPA 9315	468492		
92567006016	BB18517 MW-8	EPA 9315	468492		
92567006017	BB18518 MW-9	EPA 9315	468492		
92567006018	BB18519 MW-10	EPA 9315	468492		
92567006019	BB18520 MW-11	EPA 9315	468492		
92567006020	BB18521 MW-12	EPA 9315	468492		
92567006021	BB18522 EB-1	EPA 9315	468492		
92567006022	BB18653 MW-15	EPA 9315	470009		
92567006001	BB18477 MW-14S	EPA 9320	468569		
92567006002	BB18478 MW-3	EPA 9320	468569		
92567006003	BB18479 MW-2	EPA 9320	468569		
92567006004	BB18480 MW-1	EPA 9320	468569		
92567006005	BB18481 MW-13	EPA 9320	468569		
92567006006	BB18482 MW-13 DUP	EPA 9320	468569		
92567006007	BB18483 FB-1	EPA 9320	468569		
92567006009	BB18512 MW-5	EPA 9320	468569		
92567006010	BB18513 MW-5 DUP	EPA 9320	468569		
92567006011	BB18514 MW-6	EPA 9320	468569		
92567006012	BB18514 MW-6 MS	EPA 9320	468569		
92567006013	BB18514 MW-6 MSD	EPA 9320	468569		
92567006014	BB18515 MW-7	EPA 9320	468569		
92567006015	BB18516 FB-2	EPA 9320	468569		
92567006016	BB18517 MW-8	EPA 9320	468569		
92567006017	BB18518 MW-9	EPA 9320	468569		
92567006018	BB18519 MW-10	EPA 9320	468569		
92567006019	BB18520 MW-11	EPA 9320	468569		
92567006020	BB18521 MW-12	EPA 9320	470827		
92567006021	BB18522 EB-1	EPA 9320	470827		
92567006022	BB18653 MW-15	EPA 9320	470827		
92567006001	BB18477 MW-14S	Total Radium Calculation	474015		
92567006002	BB18478 MW-3	Total Radium Calculation	474015		
92567006003	BB18479 MW-2	Total Radium Calculation	474015		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Gaston Gypsum WMWGASG_1340-Revised Report
Pace Project No.: 92567006

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92567006004	**BB18480 MW-1**	Total Radium Calculation	474015		
92567006005	**BB18481 MW-13**	Total Radium Calculation	474015		
92567006006	**BB18482 MW-13 DUP**	Total Radium Calculation	474015		
92567006007	**BB18483 FB-1**	Total Radium Calculation	474015		
92567006009	**BB18512 MW-5**	Total Radium Calculation	474015		
92567006010	**BB18513 MW-5 DUP**	Total Radium Calculation	474017		
92567006011	**BB18514 MW-6**	Total Radium Calculation	474015		
92567006014	**BB18515 MW-7**	Total Radium Calculation	474017		
92567006015	**BB18516 FB-2**	Total Radium Calculation	474017		
92567006016	**BB18517 MW-8**	Total Radium Calculation	474017		
92567006017	**BB18518 MW-9**	Total Radium Calculation	474017		
92567006018	**BB18519 MW-10**	Total Radium Calculation	474017		
92567006019	**BB18520 MW-11**	Total Radium Calculation	474017		
92567006020	**BB18521 MW-12**	Total Radium Calculation	474017		
92567006021	**BB18522 EB-1**	Total Radium Calculation	474017		
92567006022	**BB18653 MW-15**	Total Radium Calculation	474984		

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 2

Section A — Required Client Information:

Company:	Alabama Power Company
Address:	744 Highway 87 GSC Bldg #8 Calera, AL 35040
Email To:	lbmidkif@southernco.com
Phone:	205-664-6197 Fax:
Requested Due Date:	28 days

Section B — Required Project Information:

Report To:	Laura Midkiff
Copy To:	Brooke Caton & Renee Jernigan
Purchase Order #:	APC10700668
Project Name:	Plant Gaston Gypsum
Project Number:	WMWGASG_1340

Section C — Invoice Information:

Attention:	Laura Midkiff
Company Name:	Alabama Power Co.
Address:	744 Highway 87 GSC Bldg #8
Pace Quote:	CCR
Pace Project Manager:	Kevin.Herring@pacelabs.com
Pace Profile #:	13805

Regulatory Agency:

State / Location: AL

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	EPA 9315	EPA 9320	Total Radium Sum	Matrix Spike/Matrix Spike D	Residual Chlorine (Y/N)
1	BB18477	MW-14S	GW	G	10/4/2021	10:29				1			X							X	X	X		
2	BB18478	MW-3	GW	G	10/4/2021	11:48				1			X							X	X	X		
3	BB18479	MW-2	GW	G	10/4/2021	13:01				1			X							X	X	X		
4	BB18480	MW-1	GW	G	10/4/2021	14:11				1			X							X	X	X		
5	BB18481	MW-13	GW	G	10/4/2021	14:58				1			X							X	X	X		
6	BB18482	MW-13 DUP	GW	G	10/4/2021	14:58				1			X							X	X	X		
7	BB18483	FB-1	GW	G	10/4/2021	15:30				1			X							X	X	X		
8																								
9																								
10																								
11																								
12																								

Requested Analysis Filtered (Y/N)

Residual Chlorine (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Laura Midkiff/ APC GTL	10/5/2021	14:10		10/6/21	0900	NA	N	N	Y

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:	DATE Signed:	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

WO# : 92567006

92567006

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 2 Of 2

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Project Number:	WMWGASG 1340

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Company Name:	Alabama Power Co.
Address:	744 Highway 87 GSC Bldg #8
Pace Quote:	CCR
Pace Project Manager:	Kevin.Herring@pacelabs.com
Pace Profile #:	13805

Regulatory Agency

State / Location: AL

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): EPA 9315	EPA 9320	Total Radium Sum	Matrix Spike/Matrix Spike Dup	Residual Chlorine (Y/N)
1	BB18511	MW-15	GW	G	10/4/2021	11:40				1			X							X	X	X		
2	BB18512	MW-5	GW	G	10/4/2021	13:05				1			X							X	X	X		
3	BB18513	MW-5 DUP	GW	G	10/4/2021	13:05				1			X							X	X	X		
4	BB18514	MW-6	GW	G	10/4/2021	13:55				3			X							X	X	X	X	
5	BB18515	MW-7	GW	G	10/4/2021	15:02				1			X							X	X	X		
6	BB18516	FB-2	GW	G	10/4/2021	15:30				1			X							X	X	X		
7	BB18517	MW-8	GW	G	10/4/2021	16:10				1			X							X	X	X		
8	BB18518	MW-9	GW	G	10/5/2021	7:20				1			X							X	X	X		
9	BB18519	MW-10	GW	G	10/5/2021	8:00				1			X							X	X	X		
10	BB18520	MW-11	GW	G	10/5/2021	8:40				1			X							X	X	X		
11	BB18521	MW-12	GW	G	10/5/2021	9:20				1			X							X	X	X		
12	BB18522	EB-1	GW	G	10/5/2021	9:30				1			X							X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Laura Midkiff/ APC GTL	10/5/2021	14:10		10/11/21	0900	NA	N	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

WO# : 92567006

PM: NMG Due Date: 11/09/21

CLIENT: 92-AL Power

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 3 Of 3

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Pace Quote:	CCR
Pace Project Manager:	Kevin.Herring@pacelabs.com
Pace Profile #:	13805

Regulatory Agency:

State / Location: AL

Requested Analysis Filtered (Y/N)

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX codes: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	EPA 9315	EPA 8320	Total Radium Sum	Matrix Spike/Matrix Spike Du	Residual Chlorine (Y/N)
1	BB18653	MW-15	GW	G	10/6/2021	11:33				1			X							X	X	X		
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Laura Midkiff/ APC GTL	10/6/2021	15:47	Amber D Cox	10/12/21	0930	
MW-15 was recollected due to sample BB18511 was discovered to not meet all field sampling criteria. Please discard BB18511. LBM 10/6/21							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed:

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

WO# : 92567006

PM: NMG Due Date: 11/09/21

CLIENT: 92-AL Power

Pace Analytical Services, Inc.
Total Alpha Radium QC Assessment

Quality Control Sample Performance Assessment

Test: Ra-226
Analyst: JJY
Date: 10/27/2021
Worklist: 63164
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2262207
MB concentration:	0.201
M/B Counting Uncertainty:	0.215
MB MDC:	0.431
MB Numerical Performance Indicator:	1.83
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS63164	LCSD63164
Count Date:	11/17/2021	11/17/2021
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.032	24.032
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.204	0.209
Target Conc. (pCi/L, g, F):	11.809	11.493
Uncertainty (Calculated):	0.142	0.138
Result (pCi/L, g, F):	12.392	13.552
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	1.150	1.204
Numerical Performance Indicator:	0.99	3.33
Percent Recovery:	104.94%	117.92%
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.:	LCS63164	92567006021
Duplicate Sample I.D.	LCSD63164	92567006021DUP
Sample Result (pCi/L, g, F):	12.392	0.092
Sample Result Counting Uncertainty (pCi/L, g, F):	1.150	0.225
Sample Duplicate Result (pCi/L, g, F):	13.552	0.105
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.204	0.231
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-1.365	-0.077
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	11.65%	12.81%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	25%	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:

CM 12/28/21 JAM 12/28/21

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test: Ra-226
Analyst: LAL
Date: 11/13/2021
Worklist: 63365
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2269074
MB concentration:	-0.023
M/B Counting Uncertainty:	0.117
MB MDC:	0.365
MB Numerical Performance Indicator:	-0.39
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS63365	LCSD63365
Count Date:	12/3/2021	12/3/2021
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.032	24.032
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.212	0.205
Target Conc. (pCi/L, g, F):	11.315	11.715
Uncertainty (Calculated):	0.136	0.141
Result (pCi/L, g, F):	11.063	14.724
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	1.142	1.298
Numerical Performance Indicator:	-0.43	4.52
Percent Recovery:	97.77%	125.69%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Fail High****
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	10/5/2021	
Sample I.D.	92567366002	
Sample MS I.D.	92567366003	
Sample MSD I.D.	92567366004	
Spike I.D.:	19-033	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.033	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.260	
MS Target Conc.(pCi/L, g, F):	18.506	
MSD Aliquot (L, g, F):	0.287	
MSD Target Conc. (pCi/L, g, F):	16.727	
MS Spike Uncertainty (calculated):	0.222	
MSD Spike Uncertainty (calculated):	0.201	
Sample Result:	0.107	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.155	
Sample Matrix Spike Result:	18.302	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.237	
Sample Matrix Spike Duplicate Result:	17.888	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.181	
MS Numerical Performance Indicator:	-0.482	
MSD Numerical Performance Indicator:	1.709	
MS Percent Recovery:	98.32%	
MSD Percent Recovery:	106.30%	
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.:	LCS63365
Duplicate Sample I.D.	LCSD63365
Sample Result (pCi/L, g, F):	11.063
Sample Result Counting Uncertainty (pCi/L, g, F):	1.142
Sample Duplicate Result (pCi/L, g, F):	14.724
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.298
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-4.151
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	24.99%
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.	92567366002
Sample MS I.D.	92567366003
Sample MSD I.D.	92567366004
Sample Matrix Spike Result:	18.302
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.237
Sample Matrix Spike Duplicate Result:	17.888
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.181
Duplicate Numerical Performance Indicator:	0.474
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	7.80%
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: LCSD fail high ok, all sample results < RL of 1.0 pCi/L
12/3/21

Quality Control Sample Performance Assessment

Test: Ra-226
Analyst: JJY
Date: 10/26/2021
Worklist: 63157
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2260798
MB concentration:	0.105
M/B Counting Uncertainty:	0.204
MB MDC:	0.471
MB Numerical Performance Indicator:	1.01
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS63157	**LCSD63157**
Count Date:	11/17/2021	11/17/2021
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.032	24.032
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.207	0.214
Target Conc. (pCi/L, g, F):	11.623	11.205
Uncertainty (Calculated):	0.139	0.134
Result (pCi/L, g, F):	12.162	12.843
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	1.189	1.212
Numerical Performance Indicator:	0.88	2.63
Percent Recovery:	104.64%	114.62%
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:	10/4/2021	
Sample I.D.	92567006011	
Sample MS I.D.	92567006012	
Sample MSD I.D.	92567006013	
Spike I.D.:	19-033	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.034	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.212	
MS Target Conc.(pCi/L, g, F):	22.681	
MSD Aliquot (L, g, F):	0.214	
MSD Target Conc. (pCi/L, g, F):	22.498	
MS Spike Uncertainty (calculated):	0.272	
MSD Spike Uncertainty (calculated):	0.270	
Sample Result:	0.057	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.142	
Sample Matrix Spike Result:	23.954	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.554	
Sample Matrix Spike Duplicate Result:	23.334	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.533	
MS Numerical Performance Indicator:	1.504	
MSD Numerical Performance Indicator:	0.976	
MS Percent Recovery:	105.36%	
MSD Percent Recovery:	103.46%	
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.:	LCS63157	
Duplicate Sample I.D.	LCSD63157	
Sample Result (pCi/L, g, F):	12.162	
Sample Result Counting Uncertainty (pCi/L, g, F):	1.189	
Sample Duplicate Result (pCi/L, g, F):	12.843	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.212	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.785	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	9.10%	
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.	92567006011	
Sample MS I.D.	92567006012	
Sample MSD I.D.	92567006013	
Sample Matrix Spike Result:	23.954	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.554	
Sample Matrix Spike Duplicate Result:	23.334	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.533	
Duplicate Numerical Performance Indicator:	0.557	
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	1.82%	
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:

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	JC2
Date:	10/19/2021
Worklist:	63168
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2262521
MB concentration:	0.304
M/B 2 Sigma CSU:	0.400
MB MDC:	0.850
MB Numerical Performance Indicator:	1.49
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS63168	LCSD63168
Count Date:	11/2/2021	11/2/2021
Spike I.D.:	21-029	21-029
Decay Corrected Spike Concentration (pCi/mL):	37.610	37.610
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.815	0.812
Target Conc. (pCi/L, g, F):	4.617	4.629
Uncertainty (Calculated):	0.226	0.227
Result (pCi/L, g, F):	4.917	4.475
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.191	1.080
Numerical Performance Indicator:	0.49	-0.27
Percent Recovery:	106.50%	96.67%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	10/4/2021	
Sample I.D.	92567006011	
Sample MS I.D.	92567006012	
Sample MSD I.D.	92567006013	
Spike I.D.:	21-029	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	37.972	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.860	
MS Target Conc.(pCi/L, g, F):	8.830	
MSD Aliquot (L, g, F):	0.863	
MSD Target Conc. (pCi/L, g, F):	8.798	
MS Spike Uncertainty (calculated):	0.433	
MSD Spike Uncertainty (calculated):	0.431	
Sample Result:	1.643	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.601	
Sample Matrix Spike Result:	7.120	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.526	
Sample Matrix Spike Duplicate Result:	7.700	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.630	
MS Numerical Performance Indicator:	-3.874	
MSD Numerical Performance Indicator:	-3.001	
MS Percent Recovery:	62.02%	
MSD Percent Recovery:	68.85%	
MS Status vs Numerical Indicator:	Fail****	
MSD Status vs Numerical Indicator:	Fail****	
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.:	LCS63168	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD63168	
Sample Result (pCi/L, g, F):	4.917	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.191	
Sample Duplicate Result (pCi/L, g, F):	4.475	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.080	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.539	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	9.68%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.	92567006011
Sample MS I.D.	92567006012
Sample MSD I.D.	92567006013
Sample Matrix Spike Result:	7.120
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.526
Sample Matrix Spike Duplicate Result:	7.700
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.630
Duplicate Numerical Performance Indicator:	-0.510
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	10.43%
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:

JC 11/3/21

MS/MSD pass % Recovery criteria

~~****If all other QC criteria pass, this batch is acceptable. The matrix spike duplicate result~~ indicates a possible bias for this sample only and may not be applicable to any other samples in this analytical batch.

SLC 11/07/21

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test: Ra-228
Analyst: JC2
Date: 11/4/2021
Worklist: 63440
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2272895
MB concentration:	0.897
M/B 2 Sigma CSU:	0.395
MB MDC:	0.647
MB Numerical Performance Indicator:	4.45
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS63440	LCSD63440
Count Date:	11/8/2021	
Spike I.D.:	21-029	
Decay Corrected Spike Concentration (pCi/mL):	37.538	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.817	
Target Conc. (pCi/L, g, F):	4.597	
Uncertainty (Calculated):	0.225	
Result (pCi/L, g, F):	4.495	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.001	
Numerical Performance Indicator:	-0.19	
Percent Recovery:	97.78%	
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:	10/5/2021	
Sample I.D.	92567366002	
Sample MS I.D.	92567366003	
Sample MSD I.D.	92567366004	
Spike I.D.:	21-029	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	37.961	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.803	
MS Target Conc.(pCi/L, g, F):	9.460	
MSD Aliquot (L, g, F):	0.812	
MSD Target Conc. (pCi/L, g, F):	9.345	
MS Spike Uncertainty (calculated):	0.464	
MSD Spike Uncertainty (calculated):	0.458	
Sample Result:	1.252	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.527	
Sample Matrix Spike Result:	13.581	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	2.628	
Sample Matrix Spike Duplicate Result:	14.894	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	2.862	
MS Numerical Performance Indicator:	2.068	
MSD Numerical Performance Indicator:	2.859	
MS Percent Recovery:	130.33%	
MSD Percent Recovery:	145.98%	
MS Status vs Numerical Indicator:	Warning	
MSD Status vs Numerical Indicator:	Warning	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	MSD High****	
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.	92567366002
Sample MS I.D.	92567366003
Sample MSD I.D.	92567366004
Sample Matrix Spike Result:	13.581
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	2.628
Sample Matrix Spike Duplicate Result:	14.894
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	2.862
Duplicate Numerical Performance Indicator:	-0.662
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	11.33%
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:
*The method blank result is below the reporting limit for this analysis and is acceptable. ✓

Passes NI criteria < 3 for NON-DW

11/10/21

11/10/21

Water Level Record/Well Inspection

Groundwater

APC General Testing Laboratory
General Service Complex Building 8

Y

User Name: X2dfgent
PIN: 123654
Reason:

Submit

Date: 10/04/2021
Location: Gaston Gypsum
Collector: Dallas Gentry
Weather: Overcast 75

			In Good Condition					
Well	Time	Water Level (ft)	Locks	Bollards	Pad	Protective Casing	Name Plate	Comment
MW-1	1348	28.24	✔	✔	✔	✔	✔	
PZ-1	1335	17.38	✔	✔	✔	✔	✔	Lots of ants in well casing
MW-2	1233	20.58	✔	✔	✔	✔	✔	Lots of ants in well casing
MW-3	1100	20.75	✔	✔	✔	✔	✔	
MW-4	1636	13.04	✔	✔	✔	✔	✔	Collected by AWG
PZ-4	1338	13.67	✔	✔	✔	✔	✔	Lots of ants in well casing
MW-5	1305	30.26	✔	✔	✔	✔	✔	Collected by AWG
MW-6	1355	28.92	✔	✔	✔	✔	✔	Collected by AWG
MW-7	1502	26.57	✔	✔	✔	✔	✔	Collected by AWG
MW-8	1610	21.32	✔	✔	✔	✔	✔	Collected by AWG
MW-9	1549	20.94	✔	✔	✔	✔	✔	Lots of ants in well casing
MW-10	1546	21.43	✔	✔	✔	✔	✔	Lots of ants in well casing
MW-11	1543	20.21	✔	✔	✔	✔	✔	Lots of ants in well casing
MW-12	1539	19.91	✔	✔	✔	✔	✔	
MW-13	1435	24.48	✔	✔	✔	✔	✔	
MW-14S	1006	22.51	✔	✔	✔	✔	✔	
MW-15	1140	20.15	✔	✔	✔	✔	✔	Collected by AWG

Alabama Power Company
Plant Gaston Gypsum Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-5	Conductivity	10/4/2021 12:42	524.79	uS/cm
GN-GSA-MW-5	DO	10/4/2021 12:42	0.29	mg/L
GN-GSA-MW-5	Depth to Water Detail	10/4/2021 12:42	30.32	ft
GN-GSA-MW-5	Oxidation Reduction Potention	10/4/2021 12:42	-23.41	mv
GN-GSA-MW-5	pH	10/4/2021 12:42	6.77	SU
GN-GSA-MW-5	Temperature	10/4/2021 12:42	20	C
GN-GSA-MW-5	Turbidity	10/4/2021 12:42	2.6	NTU
GN-GSA-MW-5	Conductivity	10/4/2021 12:47	535.48	uS/cm
GN-GSA-MW-5	DO	10/4/2021 12:47	0.33	mg/L
GN-GSA-MW-5	Depth to Water Detail	10/4/2021 12:47	30.32	ft
GN-GSA-MW-5	Oxidation Reduction Potention	10/4/2021 12:47	-5.98	mv
GN-GSA-MW-5	pH	10/4/2021 12:47	6.74	SU
GN-GSA-MW-5	Temperature	10/4/2021 12:47	19.82	C
GN-GSA-MW-5	Turbidity	10/4/2021 12:47	1.85	NTU
GN-GSA-MW-5	Conductivity	10/4/2021 12:52	539.81	uS/cm
GN-GSA-MW-5	DO	10/4/2021 12:52	0.31	mg/L
GN-GSA-MW-5	Depth to Water Detail	10/4/2021 12:52	30.32	ft
GN-GSA-MW-5	Oxidation Reduction Potention	10/4/2021 12:52	-2.83	mv
GN-GSA-MW-5	pH	10/4/2021 12:52	6.74	SU
GN-GSA-MW-5	Temperature	10/4/2021 12:52	19.72	C
GN-GSA-MW-5	Turbidity	10/4/2021 12:52	1.15	NTU
GN-GSA-MW-5	Conductivity	10/4/2021 12:57	542.9	uS/cm
GN-GSA-MW-5	DO	10/4/2021 12:57	0.3	mg/L
GN-GSA-MW-5	Depth to Water Detail	10/4/2021 12:57	30.32	ft
GN-GSA-MW-5	Oxidation Reduction Potention	10/4/2021 12:57	-1.52	mv
GN-GSA-MW-5	pH	10/4/2021 12:57	6.7	SU
GN-GSA-MW-5	Temperature	10/4/2021 12:57	19.62	C
GN-GSA-MW-5	Turbidity	10/4/2021 12:57	0.89	NTU
GN-GSA-MW-5	Conductivity	10/4/2021 13:02	545.65	uS/cm
GN-GSA-MW-5	DO	10/4/2021 13:02	0.3	mg/L
GN-GSA-MW-5	Depth to Water Detail	10/4/2021 13:02	30.32	ft
GN-GSA-MW-5	Oxidation Reduction Potention	10/4/2021 13:02	-1.34	mv
GN-GSA-MW-5	pH	10/4/2021 13:02	6.66	SU
GN-GSA-MW-5	Temperature	10/4/2021 13:02	19.58	C
GN-GSA-MW-5	Turbidity	10/4/2021 13:02	0.9	NTU

Alabama Power Company
Plant Gaston Gypsum Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-6	Conductivity	10/4/2021 13:38	27.79	uS/cm
GN-GSA-MW-6	DO	10/4/2021 13:38	0.84	mg/L
GN-GSA-MW-6	Depth to Water Detail	10/4/2021 13:38	29.52	ft
GN-GSA-MW-6	Oxidation Reduction Potention	10/4/2021 13:38	78.06	mv
GN-GSA-MW-6	pH	10/4/2021 13:38	4.81	SU
GN-GSA-MW-6	Temperature	10/4/2021 13:38	20.74	C
GN-GSA-MW-6	Turbidity	10/4/2021 13:38	2.36	NTU
GN-GSA-MW-6	Conductivity	10/4/2021 13:43	27.39	uS/cm
GN-GSA-MW-6	DO	10/4/2021 13:43	0.37	mg/L
GN-GSA-MW-6	Depth to Water Detail	10/4/2021 13:43	29.52	ft
GN-GSA-MW-6	Oxidation Reduction Potention	10/4/2021 13:43	73.27	mv
GN-GSA-MW-6	pH	10/4/2021 13:43	4.87	SU
GN-GSA-MW-6	Temperature	10/4/2021 13:43	20.71	C
GN-GSA-MW-6	Turbidity	10/4/2021 13:43	3.4	NTU
GN-GSA-MW-6	Conductivity	10/4/2021 13:48	27.44	uS/cm
GN-GSA-MW-6	DO	10/4/2021 13:48	0.27	mg/L
GN-GSA-MW-6	Depth to Water Detail	10/4/2021 13:48	29.52	ft
GN-GSA-MW-6	Oxidation Reduction Potention	10/4/2021 13:48	71.51	mv
GN-GSA-MW-6	pH	10/4/2021 13:48	4.87	SU
GN-GSA-MW-6	Temperature	10/4/2021 13:48	20.72	C
GN-GSA-MW-6	Turbidity	10/4/2021 13:48	1.64	NTU
GN-GSA-MW-6	Conductivity	10/4/2021 13:53	27.36	uS/cm
GN-GSA-MW-6	DO	10/4/2021 13:53	0.23	mg/L
GN-GSA-MW-6	Depth to Water Detail	10/4/2021 13:53	29.52	ft
GN-GSA-MW-6	Oxidation Reduction Potention	10/4/2021 13:53	70.52	mv
GN-GSA-MW-6	pH	10/4/2021 13:53	4.86	SU
GN-GSA-MW-6	Temperature	10/4/2021 13:53	20.89	C
GN-GSA-MW-6	Turbidity	10/4/2021 13:53	0.91	NTU

Alabama Power Company
Plant Gaston Gypsum Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-7	Conductivity	10/4/2021 14:29	403.32	uS/cm
GN-GSA-MW-7	DO	10/4/2021 14:29	1.69	mg/L
GN-GSA-MW-7	Depth to Water Detail	10/4/2021 14:29	27.68	ft
GN-GSA-MW-7	Oxidation Reduction Potention	10/4/2021 14:29	68.35	mv
GN-GSA-MW-7	pH	10/4/2021 14:29	6.97	SU
GN-GSA-MW-7	Temperature	10/4/2021 14:29	24.16	C
GN-GSA-MW-7	Turbidity	10/4/2021 14:29	1.8	NTU
GN-GSA-MW-7	Conductivity	10/4/2021 14:34	405.6	uS/cm
GN-GSA-MW-7	DO	10/4/2021 14:34	1.19	mg/L
GN-GSA-MW-7	Depth to Water Detail	10/4/2021 14:34	28.16	ft
GN-GSA-MW-7	Oxidation Reduction Potention	10/4/2021 14:34	86.04	mv
GN-GSA-MW-7	pH	10/4/2021 14:34	6.97	SU
GN-GSA-MW-7	Temperature	10/4/2021 14:34	23.75	C
GN-GSA-MW-7	Turbidity	10/4/2021 14:34	1.06	NTU
GN-GSA-MW-7	Conductivity	10/4/2021 14:39	404.6	uS/cm
GN-GSA-MW-7	DO	10/4/2021 14:39	1.06	mg/L
GN-GSA-MW-7	Depth to Water Detail	10/4/2021 14:39	28.42	ft
GN-GSA-MW-7	Oxidation Reduction Potention	10/4/2021 14:39	100.4	mv
GN-GSA-MW-7	pH	10/4/2021 14:39	6.95	SU
GN-GSA-MW-7	Temperature	10/4/2021 14:39	23.92	C
GN-GSA-MW-7	Turbidity	10/4/2021 14:39	0.95	NTU
GN-GSA-MW-7	Conductivity	10/4/2021 14:44	404.22	uS/cm
GN-GSA-MW-7	DO	10/4/2021 14:44	1.03	mg/L
GN-GSA-MW-7	Depth to Water Detail	10/4/2021 14:44	28.58	ft
GN-GSA-MW-7	Oxidation Reduction Potention	10/4/2021 14:44	108.53	mv
GN-GSA-MW-7	pH	10/4/2021 14:44	6.95	SU
GN-GSA-MW-7	Temperature	10/4/2021 14:44	23.54	C
GN-GSA-MW-7	Turbidity	10/4/2021 14:44	0.86	NTU
GN-GSA-MW-7	Conductivity	10/4/2021 14:49	403.49	uS/cm
GN-GSA-MW-7	DO	10/4/2021 14:49	1.16	mg/L
GN-GSA-MW-7	Depth to Water Detail	10/4/2021 14:49	28.72	ft
GN-GSA-MW-7	Oxidation Reduction Potention	10/4/2021 14:49	111.2	mv
GN-GSA-MW-7	pH	10/4/2021 14:49	6.96	SU
GN-GSA-MW-7	Temperature	10/4/2021 14:49	23.19	C
GN-GSA-MW-7	Turbidity	10/4/2021 14:49	1	NTU
GN-GSA-MW-7	Conductivity	10/4/2021 14:54	402.32	uS/cm
GN-GSA-MW-7	DO	10/4/2021 14:54	1.27	mg/L
GN-GSA-MW-7	Depth to Water Detail	10/4/2021 14:54	28.92	ft
GN-GSA-MW-7	Oxidation Reduction Potention	10/4/2021 14:54	115.83	mv
GN-GSA-MW-7	pH	10/4/2021 14:54	6.96	SU
GN-GSA-MW-7	Temperature	10/4/2021 14:54	22.95	C
GN-GSA-MW-7	Turbidity	10/4/2021 14:54	0.76	NTU
GN-GSA-MW-7	Conductivity	10/4/2021 14:59	400.34	uS/cm
GN-GSA-MW-7	DO	10/4/2021 14:59	1.31	mg/L
GN-GSA-MW-7	Depth to Water Detail	10/4/2021 14:59	29.02	ft
GN-GSA-MW-7	Oxidation Reduction Potention	10/4/2021 14:59	115.5	mv
GN-GSA-MW-7	pH	10/4/2021 14:59	6.96	SU
GN-GSA-MW-7	Temperature	10/4/2021 14:59	22.68	C
GN-GSA-MW-7	Turbidity	10/4/2021 14:59	0.8	NTU

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WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-8	Conductivity	10/4/2021 15:50	320.71	uS/cm
GN-GSA-MW-8	DO	10/4/2021 15:50	0.61	mg/L
GN-GSA-MW-8	Depth to Water Detail	10/4/2021 15:50	22.05	ft
GN-GSA-MW-8	Oxidation Reduction Potention	10/4/2021 15:50	-9.81	mv
GN-GSA-MW-8	pH	10/4/2021 15:50	7.73	SU
GN-GSA-MW-8	Temperature	10/4/2021 15:50	21.56	C
GN-GSA-MW-8	Turbidity	10/4/2021 15:50	1.2	NTU
GN-GSA-MW-8	Conductivity	10/4/2021 15:55	320.02	uS/cm
GN-GSA-MW-8	DO	10/4/2021 15:55	0.62	mg/L
GN-GSA-MW-8	Depth to Water Detail	10/4/2021 15:55	22.15	ft
GN-GSA-MW-8	Oxidation Reduction Potention	10/4/2021 15:55	-65.79	mv
GN-GSA-MW-8	pH	10/4/2021 15:55	7.78	SU
GN-GSA-MW-8	Temperature	10/4/2021 15:55	21.52	C
GN-GSA-MW-8	Turbidity	10/4/2021 15:55	1.1	NTU
GN-GSA-MW-8	Conductivity	10/4/2021 16:00	319.12	uS/cm
GN-GSA-MW-8	DO	10/4/2021 16:00	0.63	mg/L
GN-GSA-MW-8	Depth to Water Detail	10/4/2021 16:00	22.29	ft
GN-GSA-MW-8	Oxidation Reduction Potention	10/4/2021 16:00	-89.85	mv
GN-GSA-MW-8	pH	10/4/2021 16:00	7.8	SU
GN-GSA-MW-8	Temperature	10/4/2021 16:00	21.29	C
GN-GSA-MW-8	Turbidity	10/4/2021 16:00	1.08	NTU
GN-GSA-MW-8	Conductivity	10/4/2021 16:05	317.77	uS/cm
GN-GSA-MW-8	DO	10/4/2021 16:05	0.67	mg/L
GN-GSA-MW-8	Depth to Water Detail	10/4/2021 16:05	22.4	ft
GN-GSA-MW-8	Oxidation Reduction Potention	10/4/2021 16:05	-96.65	mv
GN-GSA-MW-8	pH	10/4/2021 16:05	7.82	SU
GN-GSA-MW-8	Temperature	10/4/2021 16:05	21.11	C
GN-GSA-MW-8	Turbidity	10/4/2021 16:05	0.96	NTU
GN-GSA-MW-9	Conductivity	10/5/2021 6:48	171.76	uS/cm
GN-GSA-MW-9	DO	10/5/2021 6:48	0.29	mg/L
GN-GSA-MW-9	Depth to Water Detail	10/5/2021 6:48	22.12	ft
GN-GSA-MW-9	Oxidation Reduction Potention	10/5/2021 6:48	92.47	mv
GN-GSA-MW-9	pH	10/5/2021 6:48	6.44	SU
GN-GSA-MW-9	Temperature	10/5/2021 6:48	19.96	C
GN-GSA-MW-9	Turbidity	10/5/2021 6:48	24.2	NTU
GN-GSA-MW-9	Conductivity	10/5/2021 6:53	180.92	uS/cm
GN-GSA-MW-9	DO	10/5/2021 6:53	0.25	mg/L
GN-GSA-MW-9	Depth to Water Detail	10/5/2021 6:53	23.58	ft
GN-GSA-MW-9	Oxidation Reduction Potention	10/5/2021 6:53	77.65	mv
GN-GSA-MW-9	pH	10/5/2021 6:53	6.47	SU
GN-GSA-MW-9	Temperature	10/5/2021 6:53	19.98	C
GN-GSA-MW-9	Turbidity	10/5/2021 6:53	2.58	NTU
GN-GSA-MW-9	Conductivity	10/5/2021 6:58	214.67	uS/cm
GN-GSA-MW-9	DO	10/5/2021 6:58	0.24	mg/L
GN-GSA-MW-9	Depth to Water Detail	10/5/2021 6:58	23.92	ft
GN-GSA-MW-9	Oxidation Reduction Potention	10/5/2021 6:58	68.71	mv
GN-GSA-MW-9	pH	10/5/2021 6:58	6.62	SU
GN-GSA-MW-9	Temperature	10/5/2021 6:58	19.95	C
GN-GSA-MW-9	Turbidity	10/5/2021 6:58	2	NTU

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WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-9	Conductivity	10/5/2021 7:03	251.92	uS/cm
GN-GSA-MW-9	DO	10/5/2021 7:03	0.24	mg/L
GN-GSA-MW-9	Depth to Water Detail	10/5/2021 7:03	24.09	ft
GN-GSA-MW-9	Oxidation Reduction Potention	10/5/2021 7:03	62.86	mv
GN-GSA-MW-9	pH	10/5/2021 7:03	6.77	SU
GN-GSA-MW-9	Temperature	10/5/2021 7:03	19.92	C
GN-GSA-MW-9	Turbidity	10/5/2021 7:03	2.23	NTU
GN-GSA-MW-9	Conductivity	10/5/2021 7:08	277.01	uS/cm
GN-GSA-MW-9	DO	10/5/2021 7:08	0.23	mg/L
GN-GSA-MW-9	Depth to Water Detail	10/5/2021 7:08	24.28	ft
GN-GSA-MW-9	Oxidation Reduction Potention	10/5/2021 7:08	55.76	mv
GN-GSA-MW-9	pH	10/5/2021 7:08	6.88	SU
GN-GSA-MW-9	Temperature	10/5/2021 7:08	19.89	C
GN-GSA-MW-9	Turbidity	10/5/2021 7:08	2.81	NTU
GN-GSA-MW-9	Conductivity	10/5/2021 7:13	286.24	uS/cm
GN-GSA-MW-9	DO	10/5/2021 7:13	0.23	mg/L
GN-GSA-MW-9	Depth to Water Detail	10/5/2021 7:13	24.38	ft
GN-GSA-MW-9	Oxidation Reduction Potention	10/5/2021 7:13	50.48	mv
GN-GSA-MW-9	pH	10/5/2021 7:13	6.93	SU
GN-GSA-MW-9	Temperature	10/5/2021 7:13	19.88	C
GN-GSA-MW-9	Turbidity	10/5/2021 7:13	1.29	NTU
GN-GSA-MW-9	Conductivity	10/5/2021 7:18	290.16	uS/cm
GN-GSA-MW-9	DO	10/5/2021 7:18	0.23	mg/L
GN-GSA-MW-9	Depth to Water Detail	10/5/2021 7:18	24.38	ft
GN-GSA-MW-9	Oxidation Reduction Potention	10/5/2021 7:18	47.57	mv
GN-GSA-MW-9	pH	10/5/2021 7:18	6.96	SU
GN-GSA-MW-9	Temperature	10/5/2021 7:18	19.83	C
GN-GSA-MW-9	Turbidity	10/5/2021 7:18	2.08	NTU

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WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-10	Conductivity	10/5/2021 7:43	454.69	uS/cm
GN-GSA-MW-10	DO	10/5/2021 7:43	0.23	mg/L
GN-GSA-MW-10	Depth to Water Detail	10/5/2021 7:43	21.94	ft
GN-GSA-MW-10	Oxidation Reduction Potention	10/5/2021 7:43	54.15	mv
GN-GSA-MW-10	pH	10/5/2021 7:43	7.12	SU
GN-GSA-MW-10	Temperature	10/5/2021 7:43	20.83	C
GN-GSA-MW-10	Turbidity	10/5/2021 7:43	0.79	NTU
GN-GSA-MW-10	Conductivity	10/5/2021 7:48	454.4	uS/cm
GN-GSA-MW-10	DO	10/5/2021 7:48	0.18	mg/L
GN-GSA-MW-10	Depth to Water Detail	10/5/2021 7:48	21.94	ft
GN-GSA-MW-10	Oxidation Reduction Potention	10/5/2021 7:48	46.52	mv
GN-GSA-MW-10	pH	10/5/2021 7:48	7.12	SU
GN-GSA-MW-10	Temperature	10/5/2021 7:48	20.82	C
GN-GSA-MW-10	Turbidity	10/5/2021 7:48	0.73	NTU
GN-GSA-MW-10	Conductivity	10/5/2021 7:53	454.44	uS/cm
GN-GSA-MW-10	DO	10/5/2021 7:53	0.16	mg/L
GN-GSA-MW-10	Depth to Water Detail	10/5/2021 7:53	21.94	ft
GN-GSA-MW-10	Oxidation Reduction Potention	10/5/2021 7:53	39.67	mv
GN-GSA-MW-10	pH	10/5/2021 7:53	7.12	SU
GN-GSA-MW-10	Temperature	10/5/2021 7:53	20.84	C
GN-GSA-MW-10	Turbidity	10/5/2021 7:53	0.65	NTU
GN-GSA-MW-10	Conductivity	10/5/2021 7:58	453.67	uS/cm
GN-GSA-MW-10	DO	10/5/2021 7:58	0.16	mg/L
GN-GSA-MW-10	Depth to Water Detail	10/5/2021 7:58	21.94	ft
GN-GSA-MW-10	Oxidation Reduction Potention	10/5/2021 7:58	35.73	mv
GN-GSA-MW-10	pH	10/5/2021 7:58	7.12	SU
GN-GSA-MW-10	Temperature	10/5/2021 7:58	20.88	C
GN-GSA-MW-10	Turbidity	10/5/2021 7:58	0.58	NTU

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WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-11	Conductivity	10/5/2021 8:23	138.27	uS/cm
GN-GSA-MW-11	DO	10/5/2021 8:23	0.6	mg/L
GN-GSA-MW-11	Depth to Water Detail	10/5/2021 8:23	22.6	ft
GN-GSA-MW-11	Oxidation Reduction Potention	10/5/2021 8:23	63.34	mv
GN-GSA-MW-11	pH	10/5/2021 8:23	6.18	SU
GN-GSA-MW-11	Temperature	10/5/2021 8:23	21.82	C
GN-GSA-MW-11	Turbidity	10/5/2021 8:23	1.11	NTU
GN-GSA-MW-11	Conductivity	10/5/2021 8:28	118.91	uS/cm
GN-GSA-MW-11	DO	10/5/2021 8:28	0.34	mg/L
GN-GSA-MW-11	Depth to Water Detail	10/5/2021 8:28	22.6	ft
GN-GSA-MW-11	Oxidation Reduction Potention	10/5/2021 8:28	67.2	mv
GN-GSA-MW-11	pH	10/5/2021 8:28	6.04	SU
GN-GSA-MW-11	Temperature	10/5/2021 8:28	21.8	C
GN-GSA-MW-11	Turbidity	10/5/2021 8:28	1.21	NTU
GN-GSA-MW-11	Conductivity	10/5/2021 8:33	116.44	uS/cm
GN-GSA-MW-11	DO	10/5/2021 8:33	0.29	mg/L
GN-GSA-MW-11	Depth to Water Detail	10/5/2021 8:33	22.6	ft
GN-GSA-MW-11	Oxidation Reduction Potention	10/5/2021 8:33	68.41	mv
GN-GSA-MW-11	pH	10/5/2021 8:33	6.01	SU
GN-GSA-MW-11	Temperature	10/5/2021 8:33	21.78	C
GN-GSA-MW-11	Turbidity	10/5/2021 8:33	1.63	NTU
GN-GSA-MW-11	Conductivity	10/5/2021 8:38	116.44	uS/cm
GN-GSA-MW-11	DO	10/5/2021 8:38	0.28	mg/L
GN-GSA-MW-11	Depth to Water Detail	10/5/2021 8:38	22.6	ft
GN-GSA-MW-11	Oxidation Reduction Potention	10/5/2021 8:38	69.02	mv
GN-GSA-MW-11	pH	10/5/2021 8:38	6.01	SU
GN-GSA-MW-11	Temperature	10/5/2021 8:38	21.76	C
GN-GSA-MW-11	Turbidity	10/5/2021 8:38	1.15	NTU

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WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-12	Conductivity	10/5/2021 9:00	434.14	uS/cm
GN-GSA-MW-12	DO	10/5/2021 9:00	0.27	mg/L
GN-GSA-MW-12	Depth to Water Detail	10/5/2021 9:00	19.83	ft
GN-GSA-MW-12	Oxidation Reduction Potention	10/5/2021 9:00	41.5	mv
GN-GSA-MW-12	pH	10/5/2021 9:00	7.29	SU
GN-GSA-MW-12	Temperature	10/5/2021 9:00	20.8	C
GN-GSA-MW-12	Turbidity	10/5/2021 9:00	1.27	NTU
GN-GSA-MW-12	Conductivity	10/5/2021 9:05	436.02	uS/cm
GN-GSA-MW-12	DO	10/5/2021 9:05	0.24	mg/L
GN-GSA-MW-12	Depth to Water Detail	10/5/2021 9:05	19.83	ft
GN-GSA-MW-12	Oxidation Reduction Potention	10/5/2021 9:05	34.1	mv
GN-GSA-MW-12	pH	10/5/2021 9:05	7.27	SU
GN-GSA-MW-12	Temperature	10/5/2021 9:05	20.82	C
GN-GSA-MW-12	Turbidity	10/5/2021 9:05	1.04	NTU
GN-GSA-MW-12	Conductivity	10/5/2021 9:10	437.31	uS/cm
GN-GSA-MW-12	DO	10/5/2021 9:10	0.24	mg/L
GN-GSA-MW-12	Depth to Water Detail	10/5/2021 9:10	19.83	ft
GN-GSA-MW-12	Oxidation Reduction Potention	10/5/2021 9:10	29.78	mv
GN-GSA-MW-12	pH	10/5/2021 9:10	7.26	SU
GN-GSA-MW-12	Temperature	10/5/2021 9:10	20.79	C
GN-GSA-MW-12	Turbidity	10/5/2021 9:10	0.89	NTU
GN-GSA-MW-12	Conductivity	10/5/2021 9:15	437.7	uS/cm
GN-GSA-MW-12	DO	10/5/2021 9:15	0.23	mg/L
GN-GSA-MW-12	Depth to Water Detail	10/5/2021 9:15	19.83	ft
GN-GSA-MW-12	Oxidation Reduction Potention	10/5/2021 9:15	26.8	mv
GN-GSA-MW-12	pH	10/5/2021 9:15	7.25	SU
GN-GSA-MW-12	Temperature	10/5/2021 9:15	20.82	C
GN-GSA-MW-12	Turbidity	10/5/2021 9:15	0.95	NTU

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WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-15	Conductivity	10/6/2021 11:15	32.64	uS/cm
GN-GSA-MW-15	DO	10/6/2021 11:15	2.14	mg/L
GN-GSA-MW-15	Depth to Water Detail	10/6/2021 11:15	21.4	ft
GN-GSA-MW-15	Oxidation Reduction Potention	10/6/2021 11:15	101.26	mv
GN-GSA-MW-15	pH	10/6/2021 11:15	5.66	SU
GN-GSA-MW-15	Temperature	10/6/2021 11:15	21.46	C
GN-GSA-MW-15	Turbidity	10/6/2021 11:15	8.46	NTU
GN-GSA-MW-15	Conductivity	10/6/2021 11:20	32.52	uS/cm
GN-GSA-MW-15	DO	10/6/2021 11:20	2.11	mg/L
GN-GSA-MW-15	Depth to Water Detail	10/6/2021 11:20	21.66	ft
GN-GSA-MW-15	Oxidation Reduction Potention	10/6/2021 11:20	97.88	mv
GN-GSA-MW-15	pH	10/6/2021 11:20	5.62	SU
GN-GSA-MW-15	Temperature	10/6/2021 11:20	21.41	C
GN-GSA-MW-15	Turbidity	10/6/2021 11:20	3.1	NTU
GN-GSA-MW-15	Conductivity	10/6/2021 11:25	32.44	uS/cm
GN-GSA-MW-15	DO	10/6/2021 11:25	2.14	mg/L
GN-GSA-MW-15	Depth to Water Detail	10/6/2021 11:25	21.82	ft
GN-GSA-MW-15	Oxidation Reduction Potention	10/6/2021 11:25	94.67	mv
GN-GSA-MW-15	pH	10/6/2021 11:25	5.6	SU
GN-GSA-MW-15	Temperature	10/6/2021 11:25	21.69	C
GN-GSA-MW-15	Turbidity	10/6/2021 11:25	2.92	NTU
GN-GSA-MW-15	Conductivity	10/6/2021 11:30	32.74	uS/cm
GN-GSA-MW-15	DO	10/6/2021 11:30	2.13	mg/L
GN-GSA-MW-15	Depth to Water Detail	10/6/2021 11:30	21.95	ft
GN-GSA-MW-15	Oxidation Reduction Potention	10/6/2021 11:30	84.86	mv
GN-GSA-MW-15	pH	10/6/2021 11:30	5.64	SU
GN-GSA-MW-15	Temperature	10/6/2021 11:30	21.58	C
GN-GSA-MW-15	Turbidity	10/6/2021 11:30	2.78	NTU

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WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-1	Conductivity	10/4/2021 13:53	381.32	uS/cm
GN-GSA-MW-1	DO	10/4/2021 13:53	0.38	mg/L
GN-GSA-MW-1	Depth to Water Detail	10/4/2021 13:53	30.52	ft
GN-GSA-MW-1	Oxidation Reduction Potention	10/4/2021 13:53	-105.3	mv
GN-GSA-MW-1	pH	10/4/2021 13:53	7.32	SU
GN-GSA-MW-1	Temperature	10/4/2021 13:53	20.9	C
GN-GSA-MW-1	Turbidity	10/4/2021 13:53	0.41	NTU
GN-GSA-MW-1	Conductivity	10/4/2021 13:58	377.28	uS/cm
GN-GSA-MW-1	DO	10/4/2021 13:58	0.31	mg/L
GN-GSA-MW-1	Depth to Water Detail	10/4/2021 13:58	30.97	ft
GN-GSA-MW-1	Oxidation Reduction Potention	10/4/2021 13:58	-107.75	mv
GN-GSA-MW-1	pH	10/4/2021 13:58	7.24	SU
GN-GSA-MW-1	Temperature	10/4/2021 13:58	20.46	C
GN-GSA-MW-1	Turbidity	10/4/2021 13:58	0.51	NTU
GN-GSA-MW-1	Conductivity	10/4/2021 14:03	376.38	uS/cm
GN-GSA-MW-1	DO	10/4/2021 14:03	0.3	mg/L
GN-GSA-MW-1	Depth to Water Detail	10/4/2021 14:03	31.06	ft
GN-GSA-MW-1	Oxidation Reduction Potention	10/4/2021 14:03	-111.16	mv
GN-GSA-MW-1	pH	10/4/2021 14:03	7.27	SU
GN-GSA-MW-1	Temperature	10/4/2021 14:03	20.61	C
GN-GSA-MW-1	Turbidity	10/4/2021 14:03	0.55	NTU
GN-GSA-MW-1	Conductivity	10/4/2021 14:08	375.34	uS/cm
GN-GSA-MW-1	DO	10/4/2021 14:08	0.27	mg/L
GN-GSA-MW-1	Depth to Water Detail	10/4/2021 14:08	31.12	ft
GN-GSA-MW-1	Oxidation Reduction Potention	10/4/2021 14:08	-113.22	mv
GN-GSA-MW-1	pH	10/4/2021 14:08	7.33	SU
GN-GSA-MW-1	Temperature	10/4/2021 14:08	20.73	C
GN-GSA-MW-1	Turbidity	10/4/2021 14:08	0.6	NTU

Alabama Power Company
Plant Gaston Gypsum Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-2	Conductivity	10/4/2021 12:38	503.99	uS/cm
GN-GSA-MW-2	DO	10/4/2021 12:38	2.69	mg/L
GN-GSA-MW-2	Depth to Water Detail	10/4/2021 12:38	21.87	ft
GN-GSA-MW-2	Oxidation Reduction Potention	10/4/2021 12:38	-76.99	mv
GN-GSA-MW-2	pH	10/4/2021 12:38	7.16	SU
GN-GSA-MW-2	Temperature	10/4/2021 12:38	24.71	C
GN-GSA-MW-2	Turbidity	10/4/2021 12:38	1.18	NTU
GN-GSA-MW-2	Conductivity	10/4/2021 12:43	492.09	uS/cm
GN-GSA-MW-2	DO	10/4/2021 12:43	3.29	mg/L
GN-GSA-MW-2	Depth to Water Detail	10/4/2021 12:43	21.9	ft
GN-GSA-MW-2	Oxidation Reduction Potention	10/4/2021 12:43	-51.59	mv
GN-GSA-MW-2	pH	10/4/2021 12:43	7.16	SU
GN-GSA-MW-2	Temperature	10/4/2021 12:43	25.11	C
GN-GSA-MW-2	Turbidity	10/4/2021 12:43	1.91	NTU
GN-GSA-MW-2	Conductivity	10/4/2021 12:48	505.11	uS/cm
GN-GSA-MW-2	DO	10/4/2021 12:48	3.58	mg/L
GN-GSA-MW-2	Depth to Water Detail	10/4/2021 12:48	21.94	ft
GN-GSA-MW-2	Oxidation Reduction Potention	10/4/2021 12:48	-40.02	mv
GN-GSA-MW-2	pH	10/4/2021 12:48	7.2	SU
GN-GSA-MW-2	Temperature	10/4/2021 12:48	24.93	C
GN-GSA-MW-2	Turbidity	10/4/2021 12:48	1.76	NTU
GN-GSA-MW-2	Conductivity	10/4/2021 12:53	498.27	uS/cm
GN-GSA-MW-2	DO	10/4/2021 12:53	3.59	mg/L
GN-GSA-MW-2	Depth to Water Detail	10/4/2021 12:53	21.98	ft
GN-GSA-MW-2	Oxidation Reduction Potention	10/4/2021 12:53	-29.79	mv
GN-GSA-MW-2	pH	10/4/2021 12:53	7.23	SU
GN-GSA-MW-2	Temperature	10/4/2021 12:53	23.65	C
GN-GSA-MW-2	Turbidity	10/4/2021 12:53	1.59	NTU
GN-GSA-MW-2	Conductivity	10/4/2021 12:58	498.83	uS/cm
GN-GSA-MW-2	DO	10/4/2021 12:58	3.32	mg/L
GN-GSA-MW-2	Depth to Water Detail	10/4/2021 12:58	22.01	ft
GN-GSA-MW-2	Oxidation Reduction Potention	10/4/2021 12:58	-23.42	mv
GN-GSA-MW-2	pH	10/4/2021 12:58	7.13	SU
GN-GSA-MW-2	Temperature	10/4/2021 12:58	22.96	C
GN-GSA-MW-2	Turbidity	10/4/2021 12:58	1.62	NTU

Alabama Power Company
Plant Gaston Gypsum Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-3	Conductivity	10/4/2021 11:05	210.3	uS/cm
GN-GSA-MW-3	DO	10/4/2021 11:05	1.45	mg/L
GN-GSA-MW-3	Depth to Water Detail	10/4/2021 11:05	24.12	ft
GN-GSA-MW-3	Oxidation Reduction Potention	10/4/2021 11:05	92.8	mv
GN-GSA-MW-3	pH	10/4/2021 11:05	6.1	SU
GN-GSA-MW-3	Temperature	10/4/2021 11:05	20.51	C
GN-GSA-MW-3	Turbidity	10/4/2021 11:05	0.53	NTU
GN-GSA-MW-3	Conductivity	10/4/2021 11:10	201.9	uS/cm
GN-GSA-MW-3	DO	10/4/2021 11:10	2.31	mg/L
GN-GSA-MW-3	Depth to Water Detail	10/4/2021 11:10	24.45	ft
GN-GSA-MW-3	Oxidation Reduction Potention	10/4/2021 11:10	105.37	mv
GN-GSA-MW-3	pH	10/4/2021 11:10	6.13	SU
GN-GSA-MW-3	Temperature	10/4/2021 11:10	20.98	C
GN-GSA-MW-3	Turbidity	10/4/2021 11:10	0.49	NTU
GN-GSA-MW-3	Conductivity	10/4/2021 11:15	210.99	uS/cm
GN-GSA-MW-3	DO	10/4/2021 11:15	2.17	mg/L
GN-GSA-MW-3	Depth to Water Detail	10/4/2021 11:15	24.91	ft
GN-GSA-MW-3	Oxidation Reduction Potention	10/4/2021 11:15	111.79	mv
GN-GSA-MW-3	pH	10/4/2021 11:15	6.18	SU
GN-GSA-MW-3	Temperature	10/4/2021 11:15	20.83	C
GN-GSA-MW-3	Turbidity	10/4/2021 11:15	0.51	NTU
GN-GSA-MW-3	Conductivity	10/4/2021 11:20	217.32	uS/cm
GN-GSA-MW-3	DO	10/4/2021 11:20	2.12	mg/L
GN-GSA-MW-3	Depth to Water Detail	10/4/2021 11:20	25.26	ft
GN-GSA-MW-3	Oxidation Reduction Potention	10/4/2021 11:20	116.37	mv
GN-GSA-MW-3	pH	10/4/2021 11:20	6.22	SU
GN-GSA-MW-3	Temperature	10/4/2021 11:20	20.83	C
GN-GSA-MW-3	Turbidity	10/4/2021 11:20	0.39	NTU
GN-GSA-MW-3	Conductivity	10/4/2021 11:25	224.34	uS/cm
GN-GSA-MW-3	DO	10/4/2021 11:25	2.04	mg/L
GN-GSA-MW-3	Depth to Water Detail	10/4/2021 11:25	25.42	ft
GN-GSA-MW-3	Oxidation Reduction Potention	10/4/2021 11:25	119.18	mv
GN-GSA-MW-3	pH	10/4/2021 11:25	6.26	SU
GN-GSA-MW-3	Temperature	10/4/2021 11:25	20.85	C
GN-GSA-MW-3	Turbidity	10/4/2021 11:25	0.48	NTU
GN-GSA-MW-3	Conductivity	10/4/2021 11:30	232.81	uS/cm
GN-GSA-MW-3	DO	10/4/2021 11:30	1.93	mg/L
GN-GSA-MW-3	Depth to Water Detail	10/4/2021 11:30	25.59	ft
GN-GSA-MW-3	Oxidation Reduction Potention	10/4/2021 11:30	120.49	mv
GN-GSA-MW-3	pH	10/4/2021 11:30	6.31	SU
GN-GSA-MW-3	Temperature	10/4/2021 11:30	20.83	C
GN-GSA-MW-3	Turbidity	10/4/2021 11:30	0.62	NTU
GN-GSA-MW-3	Conductivity	10/4/2021 11:35	238.73	uS/cm
GN-GSA-MW-3	DO	10/4/2021 11:35	1.91	mg/L
GN-GSA-MW-3	Depth to Water Detail	10/4/2021 11:35	25.77	ft
GN-GSA-MW-3	Oxidation Reduction Potention	10/4/2021 11:35	121.42	mv
GN-GSA-MW-3	pH	10/4/2021 11:35	6.36	SU
GN-GSA-MW-3	Temperature	10/4/2021 11:35	20.87	C
GN-GSA-MW-3	Turbidity	10/4/2021 11:35	0.58	NTU

Alabama Power Company
Plant Gaston Gypsum Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-3	Conductivity	10/4/2021 11:40	244.22	uS/cm
GN-GSA-MW-3	DO	10/4/2021 11:40	1.87	mg/L
GN-GSA-MW-3	Depth to Water Detail	10/4/2021 11:40	25.9	ft
GN-GSA-MW-3	Oxidation Reduction Potention	10/4/2021 11:40	122.51	mv
GN-GSA-MW-3	pH	10/4/2021 11:40	6.4	SU
GN-GSA-MW-3	Temperature	10/4/2021 11:40	21.05	C
GN-GSA-MW-3	Turbidity	10/4/2021 11:40	0.49	NTU
GN-GSA-MW-3	Conductivity	10/4/2021 11:45	250.08	uS/cm
GN-GSA-MW-3	DO	10/4/2021 11:45	1.83	mg/L
GN-GSA-MW-3	Depth to Water Detail	10/4/2021 11:45	26.04	ft
GN-GSA-MW-3	Oxidation Reduction Potention	10/4/2021 11:45	121.75	mv
GN-GSA-MW-3	pH	10/4/2021 11:45	6.43	SU
GN-GSA-MW-3	Temperature	10/4/2021 11:45	21.03	C
GN-GSA-MW-3	Turbidity	10/4/2021 11:45	0.48	NTU

Alabama Power Company
Plant Gaston Gypsum Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-13	Conductivity	10/4/2021 14:40	482.18	uS/cm
GN-GSA-MW-13	DO	10/4/2021 14:40	0.85	mg/L
GN-GSA-MW-13	Depth to Water Detail	10/4/2021 14:40	24.48	ft
GN-GSA-MW-13	Oxidation Reduction Potention	10/4/2021 14:40	18.69	mv
GN-GSA-MW-13	pH	10/4/2021 14:40	6.92	SU
GN-GSA-MW-13	Temperature	10/4/2021 14:40	20.41	C
GN-GSA-MW-13	Turbidity	10/4/2021 14:40	0.43	NTU
GN-GSA-MW-13	Conductivity	10/4/2021 14:45	479.28	uS/cm
GN-GSA-MW-13	DO	10/4/2021 14:45	0.84	mg/L
GN-GSA-MW-13	Depth to Water Detail	10/4/2021 14:45	24.48	ft
GN-GSA-MW-13	Oxidation Reduction Potention	10/4/2021 14:45	26.35	mv
GN-GSA-MW-13	pH	10/4/2021 14:45	6.92	SU
GN-GSA-MW-13	Temperature	10/4/2021 14:45	20.27	C
GN-GSA-MW-13	Turbidity	10/4/2021 14:45	0.22	NTU
GN-GSA-MW-13	Conductivity	10/4/2021 14:50	477.3	uS/cm
GN-GSA-MW-13	DO	10/4/2021 14:50	0.86	mg/L
GN-GSA-MW-13	Depth to Water Detail	10/4/2021 14:50	24.48	ft
GN-GSA-MW-13	Oxidation Reduction Potention	10/4/2021 14:50	30.53	mv
GN-GSA-MW-13	pH	10/4/2021 14:50	6.94	SU
GN-GSA-MW-13	Temperature	10/4/2021 14:50	20.26	C
GN-GSA-MW-13	Turbidity	10/4/2021 14:50	0.36	NTU
GN-GSA-MW-13	Conductivity	10/4/2021 14:55	474.43	uS/cm
GN-GSA-MW-13	DO	10/4/2021 14:55	0.91	mg/L
GN-GSA-MW-13	Depth to Water Detail	10/4/2021 14:55	24.48	ft
GN-GSA-MW-13	Oxidation Reduction Potention	10/4/2021 14:55	33.93	mv
GN-GSA-MW-13	pH	10/4/2021 14:55	6.95	SU
GN-GSA-MW-13	Temperature	10/4/2021 14:55	20.26	C
GN-GSA-MW-13	Turbidity	10/4/2021 14:55	0.35	NTU

Alabama Power Company
Plant Gaston Gypsum Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-14S	Conductivity	10/4/2021 10:11	288.32	uS/cm
GN-GSA-MW-14S	DO	10/4/2021 10:11	0.42	mg/L
GN-GSA-MW-14S	Depth to Water Detail	10/4/2021 10:11	22.93	ft
GN-GSA-MW-14S	Oxidation Reduction Potention	10/4/2021 10:11	63.48	mv
GN-GSA-MW-14S	pH	10/4/2021 10:11	7.05	SU
GN-GSA-MW-14S	Temperature	10/4/2021 10:11	20.7	C
GN-GSA-MW-14S	Turbidity	10/4/2021 10:11	1.9	NTU
GN-GSA-MW-14S	Conductivity	10/4/2021 10:16	316.35	uS/cm
GN-GSA-MW-14S	DO	10/4/2021 10:16	0.39	mg/L
GN-GSA-MW-14S	Depth to Water Detail	10/4/2021 10:16	22.93	ft
GN-GSA-MW-14S	Oxidation Reduction Potention	10/4/2021 10:16	61.21	mv
GN-GSA-MW-14S	pH	10/4/2021 10:16	7.06	SU
GN-GSA-MW-14S	Temperature	10/4/2021 10:16	20.53	C
GN-GSA-MW-14S	Turbidity	10/4/2021 10:16	1.64	NTU
GN-GSA-MW-14S	Conductivity	10/4/2021 10:21	319.02	uS/cm
GN-GSA-MW-14S	DO	10/4/2021 10:21	0.45	mg/L
GN-GSA-MW-14S	Depth to Water Detail	10/4/2021 10:21	22.93	ft
GN-GSA-MW-14S	Oxidation Reduction Potention	10/4/2021 10:21	54.02	mv
GN-GSA-MW-14S	pH	10/4/2021 10:21	7.17	SU
GN-GSA-MW-14S	Temperature	10/4/2021 10:21	20.55	C
GN-GSA-MW-14S	Turbidity	10/4/2021 10:21	1.66	NTU
GN-GSA-MW-14S	Conductivity	10/4/2021 10:26	323.87	uS/cm
GN-GSA-MW-14S	DO	10/4/2021 10:26	0.51	mg/L
GN-GSA-MW-14S	Depth to Water Detail	10/4/2021 10:26	22.93	ft
GN-GSA-MW-14S	Oxidation Reduction Potention	10/4/2021 10:26	39.45	mv
GN-GSA-MW-14S	pH	10/4/2021 10:26	7.21	SU
GN-GSA-MW-14S	Temperature	10/4/2021 10:26	20.64	C
GN-GSA-MW-14S	Turbidity	10/4/2021 10:26	1.58	NTU

Appendix D

Southern Company

Appendix D
Horizontal Groundwater Flow Velocity Calculation
Plant Gaston Gypsum Pond

2021 - First Semi-Annual Monitoring Event									
Date	**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)**	**Approximate Groundwater Flow Direction**
4/13/2021	402.00	400.92	413.00	0.00262	0.42000	0.15	0.007322	2.67	North to South
Date	**GN-GSA-MW-9** h_1 **(ft)**	**GN-GSA-MW-8** 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)**	**Approximate Groundwater Flow Direction**
4/13/2021	399.68	397.12	335.40	0.00763	0.42000	0.15	0.021371	7.80	East to West
2021 - Second Semi-Annual Monitoring Event									
Date	**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)**	**Approximate Groundwater Flow Direction**
10/4/2021	399.23	398.72	413.00	0.00123	0.42000	0.15	0.003458	1.26	North to South
Date	**GN-GSA-MW-6** h_1 **(ft)**	**GN-GSA-MW-7** 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)**	**Approximate Groundwater Flow Direction**
10/4/2021	398.72	397.22	845.70	0.00177	0.42000	0.15	0.004966	1.81	North to South
Groundwater Flow Rate Analyses									
(A) Groundwater Elevations were lower in October 2021. Hydraulic gradients decreased in October event as a result.									
(B) Distances used represent a straightline flow path between wells and likely over-estimate flow velocities.									
(C) Downgradient well pairs were used as they are more representative overall of Site hydraulic gradients.									
(D) October event - the groundwater flow pattern shifted slightly near the southern edge of Site and the MW-9 to MW-8 well pair became unrepresentative flow direction.									

Reference Units:

ft = feet

ft/d = feet/day

ft/ft - feet per foot

ft/yr = feet per year

Appendix E

Appendix E - Lab Data Validation
(First Semi-Annual Monitoring Event)

Southern Company

Table 4a. Relative Percent Difference (RPD) Calculations

Plant Gaston Gypsum Storage Area
4/13/2021 - 4/13/2021

GN-GSA-MW-5				
Sample Date = 4/13/2021				
Analyte	**Units**	**Original Result**	**Duplicate Result**	**RPD (%)**
Calcium	mg/L	79.2	79.1	0.13
Chloride	mg/L	9.78	9.78	0.00
Sulfate	mg/L	108	111	2.7
TDS	mg/L	350	349	0.3
Arsenic	mg/L	0.000587	0.000480	20.1
Barium	mg/L	0.0478	0.0488	2.07
Cobalt	mg/L	0.00104	0.00110	5.61
GN-GSA-MW-9				
Sample Date = 4/13/2021				
Analyte	**Units**	**Original Result**	**Duplicate Result**	**RPD (%)**
Calcium	mg/L	43.5	42.9	1.39
Chloride	mg/L	2.14	2.13	0.47
Sulfate	mg/L	4.65	4.66	0.21
TDS	mg/L	163	159	2.5
Barium	mg/L	0.0226	0.0212	6.39
Molybdenum	mg/L	0.000207	0.000295	**35.1**

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).

Appendix F

GROUNDWATER STATS CONSULTING

June 11, 2021

Southern Company Services
Attn: Mr. Greg Dyer
3535 Colonnade Parkway
Birmingham, AL 35243

Re: Plant Gaston Gypsum Pond
1st Semi-Annual Analysis – April 2021

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 2021 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 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

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 Groundwater Statistician for 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 with 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). A substitution of the most recent reporting limit is used for non-detect data. 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.

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): 64
- # 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 September 2019

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. This process is described below and requires a minimum of four new data points. Historical data were evaluated for updating with newer data through May 2019 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 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. Data from upgradient wells are periodically re-screened for newly developing trends, which may require adjustment of the background period to eliminate the trend, as well as for outliers over the entire record. Interwell prediction limits are used to evaluate boron, fluoride, and pH.

Prior to performing prediction limits, proposed background data through May 2019 were reviewed to identify any newly suspected outliers at all wells for calcium, chloride sulfate, and TDS, and at upgradient wells for boron, fluoride, and pH. Both Tukey's Test and visual screening are used to identify potential outliers. 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. Potential outliers that are identified by Tukey's test but are not greatly different from the rest of the data are not flagged. Also, outliers that are not identified as important by Tukey's test may be identified visually. 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 Tukey's test results for Appendix III parameters was included with the September 2019 screening.

For constituents requiring intrawell prediction limits, the Mann Whitney (Wilcoxon Rank Sum) test was used to compare the medians of historical data through February 2018 to compliance data through May 2019 to evaluate whether the groups are statistically similar at the 99% confidence level, in which case background data may be updated with compliance data. Statistically significant differences were found between the two groups for calcium in wells GN-GSA-GW-1, GN-GSA-GW-10, GN-GSA-GW-13; chloride in well GN-GSA-GW-11; sulfate in wells GN-GSA-GW-5 and GN-GSA-GW-8; and TDS in wells GN-GSA-GW-10 and GN-GSA-GW-5.

Typically, when the test concludes that the medians of the two groups are significantly different, particularly in the downgradient wells, the background data are not updated to include the newer data but will be reconsidered in the future. A summary of these results was included with the Mann Whitney test section in the September 2019 screening. A list of well/constituent pairs using a truncated portion of their record follows this report.

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 noted in upgradient wells, and a summary of the results was included with the September 2019 screening.

Evaluation of Appendix III Parameters – April 2021

Intrawell Prediction Limits

Intrawell prediction limits were constructed for calcium, chloride, sulfate, and TDS using screened background data through May 2019 at each well. 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).

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. Intrawell prediction limits combined with a 1-of-2 verification strategy were constructed for calcium, chloride, sulfate, and TDS (Figure D). Background data will be re-evaluated when a minimum of 4 compliance samples are available. I think it's okay to leave this out since we said that in the previous section.

Interwell Prediction Limits

Interwell prediction limits combined with a 1-of-2 verification strategy were constructed for boron, fluoride, and pH using upgradient well data through April 2021 (Figure E). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The most recent sample from each downgradient well is compared to the background limit to determine whether there are statistically significant increases (SSIs). Note that during this analysis, the reporting limit for boron increased from 0.1 mg/L to 0.1015 mg/L. This resulted in a slight increase in statistical limits, but the prediction limit findings were consistent with those from the Fall 2020 report.

Significant Results

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-1, 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

Interwell:

- Fluoride: GN-GSA-MW-1, GN-GSA-MW-7, and GN-GSA-MW-8
- pH: GN-GSA-MW-1, GN-GSA-MW-6, GN-GSA-MW-8, and GN-GSA-MW-11

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. 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-1, 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-15 (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 2021

Data from all wells for Appendix IV parameters were reassessed for outliers during previous analyses. A summary of previously flagged outliers follows this report (Figure C).

In accordance with Alabama Department of Environmental Management, the Groundwater Protections Standards (GWPS) utilized during the 2019 2nd semi-annual report were used in the confidence interval analysis for this 2021 1st semi-annual report. The GWPS will be updated during the 2021 2nd semi-annual statistical analysis. The methodology used to create these GWPS is described below.

First, background limits were determined using tolerance limits constructed from pooled upgradient well data (Figure G). The tolerance limits contain a known fraction (coverage) of the background population with a known level of confidence. When data followed a normal or transformed-normal distribution, parametric tolerance limits were used to

calculate background limits for Appendix IV parameters using pooled upgradient well data through September 2019 with a target of 95% confidence and 95% coverage.

Nonparametric tolerance limits, which use the highest value in background as the statistical limit, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. These background limits were then compared to the Maximum Contaminant Levels (MCLs) for each parameter, and the higher of the two limits was used as the GWPS (Figure H) in the confidence interval comparisons described below. In future UTL calculations, nonparametric tolerance limits will be used exclusively, as requested by ADEM, to eliminate variation among upgradient well data.

Confidence intervals were then constructed on downgradient wells using a maximum of the most recent 8 samples through April 2021 for each of the Appendix IV parameters. These intervals were constructed as either parametric or nonparametric confidence intervals depending on the data distribution and percentage of non-detects. As mentioned above, well/constituent pairs with 100% non-detects did not require statistics and were, therefore, deselected prior to construction of confidence intervals. A list of deselected well/constituent pairs also follows this report. The decision logic, with respect to the use of a parametric or nonparametric confidence intervals, is similar to that used to construct tolerance limits as discussed above. 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. Note the following reporting limits changed from the previous analysis to this analysis:

- Antimony: <0.003 mg/L to <0.001015 mg/L
- Beryllium: <0.003 mg/L to <0.001015 mg/L
- Cadmium: <0.001 mg/L to <0.000203 mg/L
- Chromium: <0.01 mg/L to <0.001015 mg/L
- Cobalt: <0.005 mg/L to <0.000203 mg/L
- Lead: <0.005 mg/L to <0.000203 mg/L
- Lithium: <0.02 mg/L to <0.01999956 mg/L
- Molybdenum: <0.01 mg/L to <0.000203 mg/L
- Selenium: <0.01 mg/L to <0.001015 mg/L
- Thallium: <0.001 mg/L to <0.000203 mg/L

This resulted in slight changes to the upper and lower confidence limits in some cases, but the findings were consistent with those from the Fall 2020 report. Both a tabular

summary and graphical presentation of the confidence interval results follow this letter and no exceedances were identified (Figure I).

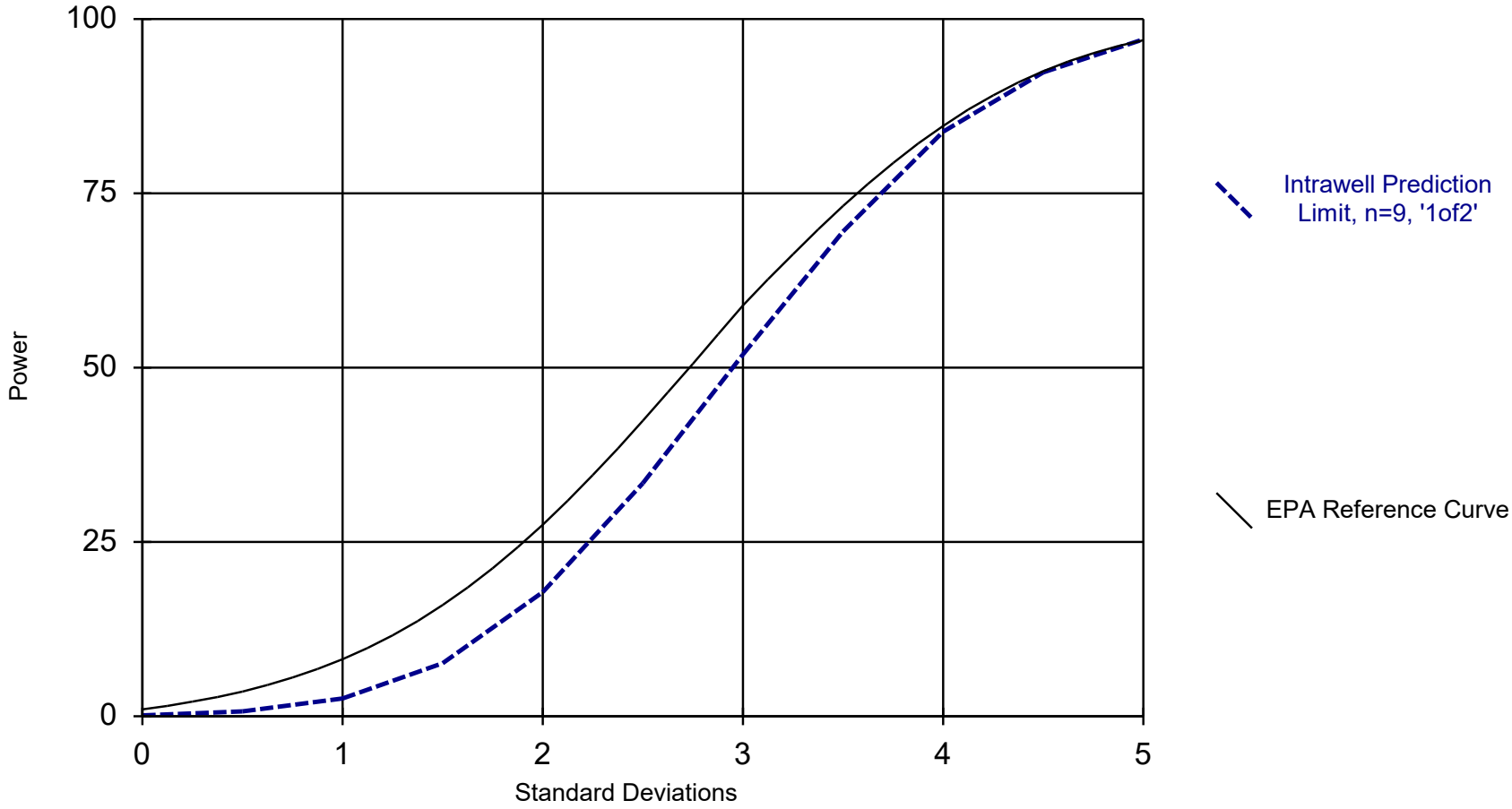
Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Gaston Gypsum Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Andrew Collins
Project Manager

Kristina Rayner
Groundwater Statistician

Intrawell Power Curve

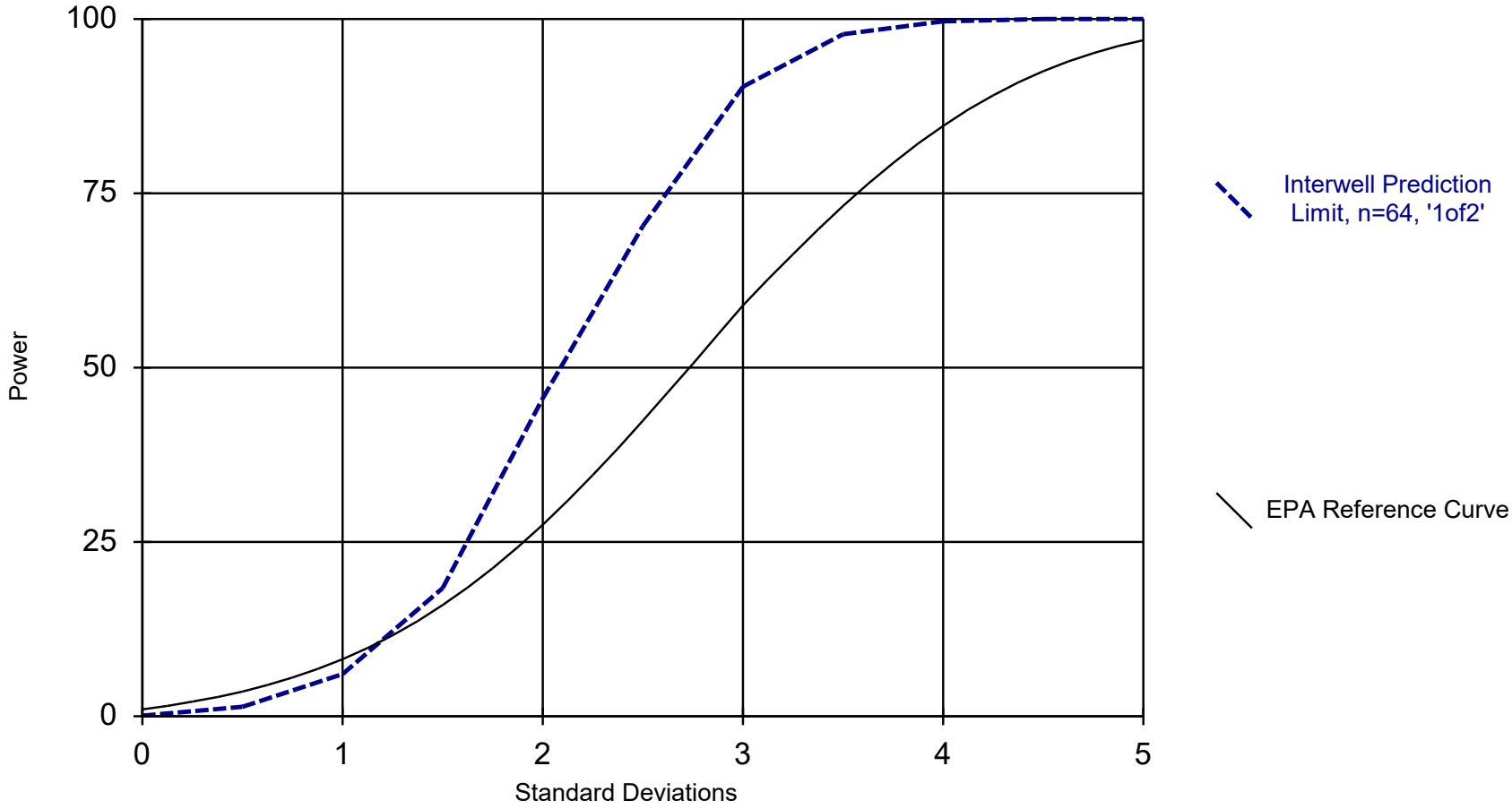


Kappa = 2.961, based on 10 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 6/9/2021 4:26 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Interwell Power Curve



Kappa = 2.003, based on 10 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 6/9/2021 4:27 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

100% Non-Detects: Appendix IV Downgradient

Analysis Run 6/9/2021 3:02 PM 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-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

Chromium (mg/L)
GN-GSA-MW-1, GN-GSA-MW-10, GN-GSA-MW-11, GN-GSA-MW-12, GN-GSA-MW-5

Cobalt (mg/L)
GN-GSA-MW-1, GN-GSA-MW-10

Fluoride (mg/L)
GN-GSA-MW-6, GN-GSA-MW-11

Lead (mg/L)
GN-GSA-MW-1, GN-GSA-MW-10, GN-GSA-MW-11, GN-GSA-MW-12, GN-GSA-MW-5, GN-GSA-MW-7, GN-GSA-MW-8, GN-GSA-MW-9

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

Date Ranges

Date: 6/9/2021 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Calcium (mg/L)
- GN-GSA-MW-1 background:3/23/2016-9/7/2017
- GN-GSA-MW-10 background:3/23/2016-9/7/2017
- GN-GSA-MW-13 background:3/23/2016-9/7/2017

Chloride (mg/L)
- GN-GSA-MW-11 background:3/23/2016-9/7/2017

Sulfate (mg/L)
- GN-GSA-MW-5 background:3/23/2016-9/7/2017
- GN-GSA-MW-8 background:3/23/2016-9/7/2017

TDS (mg/L)
- GN-GSA-MW-10 background:3/23/2016-9/7/2017
- GN-GSA-MW-5 background:3/23/2016-9/7/2017

Intrawell Prediction Limits - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 6/9/2021, 2:51 PM

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**	**39.4**	**n/a**	**4/13/2021**	**44**	**Yes**	**9**	**35.73**	**1.237**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Calcium (mg/L)	**GN-GSA-MW-12**	**81.01**	**n/a**	**4/13/2021**	**81.6**	**Yes**	**12**	**67.28**	**5.286**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Calcium (mg/L)	**GN-GSA-MW-5**	**71.16**	**n/a**	**4/13/2021**	**79.2**	**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**	**4/13/2021**	**9.8**	**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**	**4/13/2021**	**108**	**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**	**4/13/2021**	**4.49**	**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**	**4/13/2021**	**350**	**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 6/9/2021, 2:51 PM

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**	**39.4**	**n/a**	**4/13/2021**	**44**	**Yes**	**9**	**35.73**	**1.237**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Calcium (mg/L)	GN-GSA-MW-10	102.2	n/a	4/13/2021	97.1	No	9	92.19	3.387	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-11	16.25	n/a	4/13/2021	12.3	No	12	10.69	2.14	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	**GN-GSA-MW-12**	**81.01**	**n/a**	**4/13/2021**	**81.6**	**Yes**	**12**	**67.28**	**5.286**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Calcium (mg/L)	GN-GSA-MW-13	101.9	n/a	4/13/2021	89.8	No	9	83.12	6.337	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-14S	56.86	n/a	4/13/2021	48.4	No	12	48.44	3.238	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-15	11.31	n/a	4/13/2021	5.17	No	12	7.898	1.312	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-2	98.23	n/a	4/13/2021	77.5	No	12	81.19	6.554	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-3	131.1	n/a	4/13/2021	57.8	No	12	88.88	16.26	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	**GN-GSA-MW-5**	**71.16**	**n/a**	**4/13/2021**	**79.2**	**Yes**	**12**	**54.73**	**6.323**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Calcium (mg/L)	GN-GSA-MW-6	1.591	n/a	4/13/2021	0.505	No	12	0.9401	0.2504	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-7	77.07	n/a	4/13/2021	64.1	No	12	64.91	4.678	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-8	61.91	n/a	4/13/2021	52.2	No	12	56.16	2.214	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-9	68.06	n/a	4/13/2021	43.5	No	12	50.19	6.875	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-1	4.063	n/a	4/13/2021	2.54	No	12	2.508	0.5987	8.333	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-10	4.351	n/a	4/13/2021	3.07	No	12	2.708	0.6322	8.333	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	**GN-GSA-MW-11**	**7.709**	**n/a**	**4/13/2021**	**9.8**	**Yes**	**9**	**4.269**	**1.162**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Chloride (mg/L)	GN-GSA-MW-12	5.735	n/a	4/13/2021	3.97	No	12	3.071	1.025	8.333	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-13	5.051	n/a	4/13/2021	3.56	No	12	3.593	0.561	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-14S	5.904	n/a	4/13/2021	2.56	No	12	4.114	0.6886	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-15	4.846	n/a	4/13/2021	1.86	No	12	2.525	0.8929	8.333	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-2	4.914	n/a	4/13/2021	3.55	No	12	3.681	0.4747	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-3	3.937	n/a	4/13/2021	2.76	No	12	3.066	0.3353	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-5	20.08	n/a	4/13/2021	9.78	No	12	120	108.9	0	None	x^2	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-6	4.061	n/a	4/13/2021	3.54	No	12	8.587	3.042	8.333	None	x^2	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-7	4.625	n/a	4/13/2021	3.64	No	12	3.48	0.4404	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-8	2.446	n/a	4/13/2021	1.64	No	12	1.795	0.2504	16.67	Kaplan-Meier	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-9	3.608	n/a	4/13/2021	2.14	No	12	2.3	0.5034	8.333	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-1	6.639	n/a	4/13/2021	4.43	No	12	4.056	0.9938	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-10	2.35	n/a	4/13/2021	1.68	No	12	1.791	0.2151	16.67	Kaplan-Meier	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-11	15.8	n/a	4/13/2021	2.77	No	12	6.412	3.611	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-12	17.05	n/a	4/13/2021	8.86	No	12	8.788	3.178	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-13	10.73	n/a	4/13/2021	8.38	No	12	8.187	0.9783	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-14S	18.81	n/a	4/13/2021	3.45	No	12	8.789	3.857	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-15	5.672	n/a	4/13/2021	2.51	No	12	3.058	1.006	8.333	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-2	11.01	n/a	4/13/2021	7.44	No	12	7.246	1.449	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-3	36.48	n/a	4/13/2021	7.88	No	12	18.37	6.971	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	**GN-GSA-MW-5**	**37.06**	**n/a**	**4/13/2021**	**108**	**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	4/13/2021	0.5ND	No	10	n/a	n/a	50	n/a	n/a	0.01476	NP Intra (normality) 1 of 2
Sulfate (mg/L)	GN-GSA-MW-7	15.43	n/a	4/13/2021	6.37	No	12	10.02	2.08	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	**GN-GSA-MW-8**	**2.935**	**n/a**	**4/13/2021**	**4.49**	**Yes**	**9**	**1.843**	**0.3686**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Sulfate (mg/L)	GN-GSA-MW-9	6.71	n/a	4/13/2021	4.65	No	12	5.352	0.5227	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-1	263.1	n/a	4/13/2021	237	No	12	203.8	22.81	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-10	274	n/a	4/13/2021	273	No	9	251.8	7.496	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-11	113.2	n/a	4/13/2021	66	No	12	73.64	15.22	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-12	280.7	n/a	4/13/2021	260	No	12	222.3	22.46	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-13	349.6	n/a	4/13/2021	286	No	12	262.4	33.54	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-14S	229.7	n/a	4/13/2021	191	No	12	203.3	10.19	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-15	63.78	n/a	4/13/2021	35.3	No	12	42.04	8.363	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-2	311.9	n/a	4/13/2021	283	No	12	286.3	9.847	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-3	407.7	n/a	4/13/2021	196	No	12	284	47.61	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	**GN-GSA-MW-5**	**295.1**	**n/a**	**4/13/2021**	**350**	**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	4/13/2021	26	No	12	n/a	n/a	66.67	n/a	n/a	0.01077	NP Intra (NDs) 1 of 2
TDS (mg/L)	GN-GSA-MW-7	256.2	n/a	4/13/2021	220	No	12	216.9	15.11	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-8	205.2	n/a	4/13/2021	186	No	12	189.8	5.921	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-9	216.4	n/a	4/13/2021	163	No	12	169.3	18.13	0	None	No	0.0007523	Param Intra 1 of 2

Interwell Prediction Limits - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 6/9/2021, 2:53 PM

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**	**0.111**	**n/a**	**4/13/2021**	**0.29**	**Yes**	**68**	**n/a**	**n/a**	**38.24**	**n/a**	**n/a**	**0.0004111**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	**GN-GSA-MW-7**	**0.111**	**n/a**	**4/13/2021**	**0.129**	**Yes**	**68**	**n/a**	**n/a**	**38.24**	**n/a**	**n/a**	**0.0004111**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	**GN-GSA-MW-8**	**0.111**	**n/a**	**4/13/2021**	**0.119**	**Yes**	**68**	**n/a**	**n/a**	**38.24**	**n/a**	**n/a**	**0.0004111**	**NP Inter (normality) 1 of 2**
pH (pH)	**GN-GSA-MW-1**	**7.53**	**5.67**	**4/13/2021**	**7.7**	**Yes**	**68**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0008222**	**NP Inter (normality) 1 of 2**
pH (pH)	**GN-GSA-MW-11**	**7.53**	**5.67**	**4/13/2021**	**5.46**	**Yes**	**68**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0008222**	**NP Inter (normality) 1 of 2**
pH (pH)	**GN-GSA-MW-6**	**7.53**	**5.67**	**4/13/2021**	**4.63**	**Yes**	**68**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0008222**	**NP Inter (normality) 1 of 2**
pH (pH)	**GN-GSA-MW-8**	**7.53**	**5.67**	**4/13/2021**	**7.7**	**Yes**	**68**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0008222**	**NP Inter (normality) 1 of 2**

Interwell Prediction Limits - All Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 6/9/2021, 2:53 PM

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	4/13/2021	0.0306J	No	64	n/a	n/a	98.44	n/a	n/a	0.000464	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-10	0.1015	n/a	4/13/2021	0.1015ND	No	64	n/a	n/a	98.44	n/a	n/a	0.000464	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-11	0.1015	n/a	4/13/2021	0.0422J	No	64	n/a	n/a	98.44	n/a	n/a	0.000464	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-12	0.1015	n/a	4/13/2021	0.1015ND	No	64	n/a	n/a	98.44	n/a	n/a	0.000464	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-13	0.1015	n/a	4/13/2021	0.1015ND	No	64	n/a	n/a	98.44	n/a	n/a	0.000464	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-5	0.1015	n/a	4/13/2021	0.0333J	No	64	n/a	n/a	98.44	n/a	n/a	0.000464	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-6	0.1015	n/a	4/13/2021	0.1015ND	No	64	n/a	n/a	98.44	n/a	n/a	0.000464	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-7	0.1015	n/a	4/13/2021	0.1015ND	No	64	n/a	n/a	98.44	n/a	n/a	0.000464	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-8	0.1015	n/a	4/13/2021	0.1015ND	No	64	n/a	n/a	98.44	n/a	n/a	0.000464	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-9	0.1015	n/a	4/13/2021	0.1015ND	No	64	n/a	n/a	98.44	n/a	n/a	0.000464	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	**GN-GSA-MW-1**	**0.111**	**n/a**	**4/13/2021**	**0.29**	**Yes**	**68**	**n/a**	**n/a**	**38.24**	**n/a**	**n/a**	**0.0004111**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	GN-GSA-MW-10	0.111	n/a	4/13/2021	0.1ND	No	68	n/a	n/a	38.24	n/a	n/a	0.0004111	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-11	0.111	n/a	4/13/2021	0.1ND	No	68	n/a	n/a	38.24	n/a	n/a	0.0004111	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-12	0.111	n/a	4/13/2021	0.1ND	No	68	n/a	n/a	38.24	n/a	n/a	0.0004111	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-13	0.111	n/a	4/13/2021	0.0633J	No	68	n/a	n/a	38.24	n/a	n/a	0.0004111	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-5	0.111	n/a	4/13/2021	0.1ND	No	68	n/a	n/a	38.24	n/a	n/a	0.0004111	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-6	0.111	n/a	4/13/2021	0.1ND	No	68	n/a	n/a	38.24	n/a	n/a	0.0004111	NP Inter (normality) 1 of 2
Fluoride (mg/L)	**GN-GSA-MW-7**	**0.111**	**n/a**	**4/13/2021**	**0.129**	**Yes**	**68**	**n/a**	**n/a**	**38.24**	**n/a**	**n/a**	**0.0004111**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	**GN-GSA-MW-8**	**0.111**	**n/a**	**4/13/2021**	**0.119**	**Yes**	**68**	**n/a**	**n/a**	**38.24**	**n/a**	**n/a**	**0.0004111**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	GN-GSA-MW-9	0.111	n/a	4/13/2021	0.0602J	No	68	n/a	n/a	38.24	n/a	n/a	0.0004111	NP Inter (normality) 1 of 2
pH (pH)	**GN-GSA-MW-1**	**7.53**	**5.67**	**4/13/2021**	**7.7**	**Yes**	**68**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0008222**	**NP Inter (normality) 1 of 2**
pH (pH)	GN-GSA-MW-10	7.53	5.67	4/13/2021	7.22	No	68	n/a	n/a	0	n/a	n/a	0.0008222	NP Inter (normality) 1 of 2
pH (pH)	**GN-GSA-MW-11**	**7.53**	**5.67**	**4/13/2021**	**5.46**	**Yes**	**68**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0008222**	**NP Inter (normality) 1 of 2**
pH (pH)	GN-GSA-MW-12	7.53	5.67	4/13/2021	6.61	No	68	n/a	n/a	0	n/a	n/a	0.0008222	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-13	7.53	5.67	4/13/2021	7.17	No	68	n/a	n/a	0	n/a	n/a	0.0008222	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-5	7.53	5.67	4/13/2021	6.36	No	68	n/a	n/a	0	n/a	n/a	0.0008222	NP Inter (normality) 1 of 2
pH (pH)	**GN-GSA-MW-6**	**7.53**	**5.67**	**4/13/2021**	**4.63**	**Yes**	**68**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0008222**	**NP Inter (normality) 1 of 2**
pH (pH)	GN-GSA-MW-7	7.53	5.67	4/13/2021	6.84	No	68	n/a	n/a	0	n/a	n/a	0.0008222	NP Inter (normality) 1 of 2
pH (pH)	**GN-GSA-MW-8**	**7.53**	**5.67**	**4/13/2021**	**7.7**	**Yes**	**68**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0008222**	**NP Inter (normality) 1 of 2**
pH (pH)	GN-GSA-MW-9	7.53	5.67	4/13/2021	6.9	No	68	n/a	n/a	0	n/a	n/a	0.0008222	NP Inter (normality) 1 of 2

Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 6/9/2021, 2:57 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	**GN-GSA-MW-1**	**2.013**	**61**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GN-GSA-MW-12**	**3.33**	**69**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GN-GSA-MW-15 (bg)**	**-0.9409**	**-84**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GN-GSA-MW-3 (bg)**	**-10.19**	**-90**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GN-GSA-MW-5**	**6.053**	**84**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-11**	**1.36**	**84**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-14S (bg)**	**-0.5546**	**-83**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-15 (bg)**	**-0.4778**	**-82**	**-58**	**Yes**	**16**	**6.25**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-3 (bg)**	**-0.1362**	**-62**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	**GN-GSA-MW-15 (bg)**	**-0.05112**	**-69**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-14S (bg)**	**-1.968**	**-68**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-15 (bg)**	**-0.447**	**-64**	**-58**	**Yes**	**16**	**6.25**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-3 (bg)**	**-3.859**	**-106**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-5**	**19.12**	**82**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-8**	**0.564**	**72**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GN-GSA-MW-15 (bg)**	**-4.057**	**-62**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GN-GSA-MW-3 (bg)**	**-30.24**	**-98**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GN-GSA-MW-5**	**42.28**	**87**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Trend Tests - Prediction Limit Exceedances - All Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 6/9/2021, 2:57 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	**GN-GSA-MW-1**	**2.013**	**61**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GN-GSA-MW-12**	**3.33**	**69**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GN-GSA-MW-14S (bg)	-0.574	-29	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GN-GSA-MW-15 (bg)**	**-0.9409**	**-84**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GN-GSA-MW-2 (bg)	1.277	35	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GN-GSA-MW-3 (bg)**	**-10.19**	**-90**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GN-GSA-MW-5**	**6.053**	**84**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-11**	**1.36**	**84**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-14S (bg)**	**-0.5546**	**-83**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-15 (bg)**	**-0.4778**	**-82**	**-58**	**Yes**	**16**	**6.25**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	GN-GSA-MW-2 (bg)	0.01661	8	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**GN-GSA-MW-3 (bg)**	**-0.1362**	**-62**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	GN-GSA-MW-1	-0.002668	-14	-63	No	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-14S (bg)	4.3e-10	11	63	No	17	23.53	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-15 (bg)	0	39	63	No	17	70.59	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-2 (bg)	8.3e-10	39	63	No	17	52.94	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-3 (bg)	-0.001326	-26	-63	No	17	5.882	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-7	0.003131	27	63	No	17	5.882	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-8	-0.007396	-57	-63	No	17	0	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-1	-0.02086	-43	-63	No	17	0	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-11	-0.0679	-45	-63	No	17	0	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-14S (bg)	-0.009191	-17	-63	No	17	0	n/a	n/a	0.01	NP
pH (pH)	**GN-GSA-MW-15 (bg)**	**-0.05112**	**-69**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	GN-GSA-MW-2 (bg)	-0.01157	-33	-63	No	17	0	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-3 (bg)	-0.04538	-42	-63	No	17	0	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-6	-0.02115	-33	-63	No	17	0	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-8	0.01154	11	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GN-GSA-MW-14S (bg)**	**-1.968**	**-68**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-15 (bg)**	**-0.447**	**-64**	**-58**	**Yes**	**16**	**6.25**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GN-GSA-MW-2 (bg)	0.287	34	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GN-GSA-MW-3 (bg)**	**-3.859**	**-106**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-5**	**19.12**	**82**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-8**	**0.564**	**72**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GN-GSA-MW-14S (bg)	-2.468	-32	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GN-GSA-MW-15 (bg)**	**-4.057**	**-62**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GN-GSA-MW-2 (bg)	-1.609	-22	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GN-GSA-MW-3 (bg)**	**-30.24**	**-98**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GN-GSA-MW-5**	**42.28**	**87**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Upper Tolerance Limits - Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 7/23/2020, 10:39 AM

Constituent	Upper Lim.	Lower Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.003	n/a	52	n/a	n/a	94.23	n/a	n/a	0.06944	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Barium (mg/L)	0.0622	n/a	52	n/a	n/a	0	n/a	n/a	0.06944	NP Inter(normal...
Beryllium (mg/L)	0.003	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Cadmium (mg/L)	0.001	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Chromium (mg/L)	0.01	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Cobalt (mg/L)	0.005	n/a	52	n/a	n/a	96.15	n/a	n/a	0.06944	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	2.36	n/a	52	n/a	n/a	3.846	n/a	n/a	0.06944	NP Inter(normal...
Fluoride (mg/L)	0.111	n/a	56	n/a	n/a	33.93	n/a	n/a	0.05656	NP Inter(normal...
Lead (mg/L)	0.005	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Lithium (mg/L)	0.02	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Mercury (mg/L)	0.0005	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Molybdenum (mg/L)	0.01	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Selenium (mg/L)	0.01	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	52	n/a	n/a	98.08	n/a	n/a	0.06944	NP Inter(NDs)

GASTON GYPSUM POND GWPS			
Analyte	**Units**	**Background**	**GWPS**
Antimony	mg/L	0.003	0.006
Arsenic	mg/L	0.005	0.01
Barium	mg/L	0.0622	2
Beryllium	mg/L	0.003	0.004
Cadmium	mg/L	0.001	0.005
Chromium	mg/L	0.01	0.1
Cobalt	mg/L	0.005	0.006
Combined Radium-226/228	pCi/L	2.36	5
Fluoride	mg/L	0.111	4
Lead	mg/L	0.005	0.015
Lithium	mg/L	0.02	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.01	0.1
Selenium	mg/L	0.01	0.05
Thallium	mg/L	0.001	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 2019.

Confidence Intervals - All Results (No Significant)

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 6/9/2021, 3:16 PM

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	0.001015	0.000909	0.006	No	8	0.001002	0.00003748	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-GSA-MW-10	0.001015	0.000916	0.006	No	8	0.001003	0.000035	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-GSA-MW-12	0.001015	0.000813	0.006	No	8	0.0009898	0.00007142	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-GSA-MW-13	0.00127	0.001015	0.006	No	8	0.001047	0.00009016	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-GSA-MW-5	0.00241	0.001015	0.006	No	8	0.001189	0.0004932	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-GSA-MW-6	0.00171	0.001015	0.006	No	8	0.001102	0.0002457	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-GSA-MW-7	0.00123	0.001015	0.006	No	8	0.001042	0.00007601	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-GSA-MW-8	0.00106	0.001015	0.006	No	8	0.001021	0.00001591	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-GSA-MW-9	0.00112	0.001015	0.006	No	8	0.001028	0.00003712	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-1	0.0112	0.004025	0.01	No	8	0.007615	0.003387	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-GSA-MW-10	0.005	0.0000871	0.01	No	8	0.004386	0.001737	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-11	0.005	0.0000935	0.01	No	8	0.004387	0.001735	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-12	0.005	0.00033	0.01	No	8	0.00395	0.00196	75	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-13	0.005	0.000189	0.01	No	8	0.004209	0.001709	75	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-5	0.00281	0.0009091	0.01	No	8	0.003037	0.001793	37.5	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	GN-GSA-MW-6	0.005	0.0000988	0.01	No	8	0.004387	0.001733	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-7	0.005	0.000469	0.01	No	8	0.003934	0.00198	75	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-8	0.001408	0.00118	0.01	No	8	0.001294	0.0001077	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-GSA-MW-9	0.005	0.000237	0.01	No	8	0.004405	0.001684	87.5	None	No	0.004	NP (NDs)
Barium (mg/L)	GN-GSA-MW-1	2.504	1.963	2	No	8	2.234	0.2552	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-10	0.03791	0.03259	2	No	8	0.03525	0.002512	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-11	0.006535	0.005	2	No	8	0.005768	0.0007242	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-12	0.02464	0.01874	2	No	8	0.02169	0.002781	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-13	0.0697	0.039	2	No	8	0.04699	0.009667	0	None	No	0.004	NP (normality)
Barium (mg/L)	GN-GSA-MW-5	0.07298	0.043	2	No	8	0.05799	0.01414	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-6	0.0185	0.0155	2	No	8	0.01671	0.001185	0	None	No	0.004	NP (normality)
Barium (mg/L)	GN-GSA-MW-7	0.02292	0.01561	2	No	8	0.01926	0.003447	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-8	0.0314	0.0248	2	No	8	0.02773	0.002711	0	None	No	0.004	NP (normality)
Barium (mg/L)	GN-GSA-MW-9	0.02653	0.02222	2	No	8	0.02438	0.002031	0	None	No	0.01	Param.
Chromium (mg/L)	GN-GSA-MW-13	0.01	0.000518	0.1	No	8	0.007815	0.004066	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-6	0.01	0.000257	0.1	No	8	0.008782	0.003445	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-7	0.01	0.000361	0.1	No	8	0.008795	0.003408	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-8	0.01	0.000291	0.1	No	8	0.008786	0.003433	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-9	0.01	0.000276	0.1	No	8	0.008784	0.003438	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-11	0.00378	0.00218	0.006	No	8	0.002965	0.0008927	12.5	None	ln(x)	0.01	Param.
Cobalt (mg/L)	GN-GSA-MW-12	0.005	0.000218	0.006	No	8	0.004402	0.001691	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-13	0.005	0.000158	0.006	No	8	0.004395	0.001712	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-5	0.005013	-0.002672	0.006	No	8	0.004195	0.001501	25	Kaplan-Meier	x^6	0.01	Param.
Cobalt (mg/L)	GN-GSA-MW-6	0.005	0.000682	0.006	No	8	0.00446	0.001527	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-7	0.005	0.00077	0.006	No	8	0.004117	0.001676	75	Kaplan-Meier	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-8	0.005	0.000123	0.006	No	8	0.00439	0.001724	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-9	0.005	0.0000816	0.006	No	8	0.004385	0.001739	87.5	None	No	0.004	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-1	1.713	0.6862	5	No	8	1.187	0.5385	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-10	2.244	0.1186	5	No	8	1.14	1.659	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-11	2.25	0.000007558	5	No	8	0.7855	1.15	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-12	1.14	0.2868	5	No	8	0.6979	0.5131	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-13	2.45	-0.0001831	5	No	8	0.8906	1.283	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-5	1.082	0.05296	5	No	8	0.5676	0.4855	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-6	0.9003	0.02898	5	No	8	0.4646	0.411	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-7	0.9806	0.1516	5	No	8	0.5661	0.3911	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-8	0.7353	-0.01702	5	No	8	0.3592	0.3549	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-9	0.8759	0.1244	5	No	8	0.5001	0.3545	0	None	No	0.01	Param.

Confidence Intervals - All Results (No Significant)

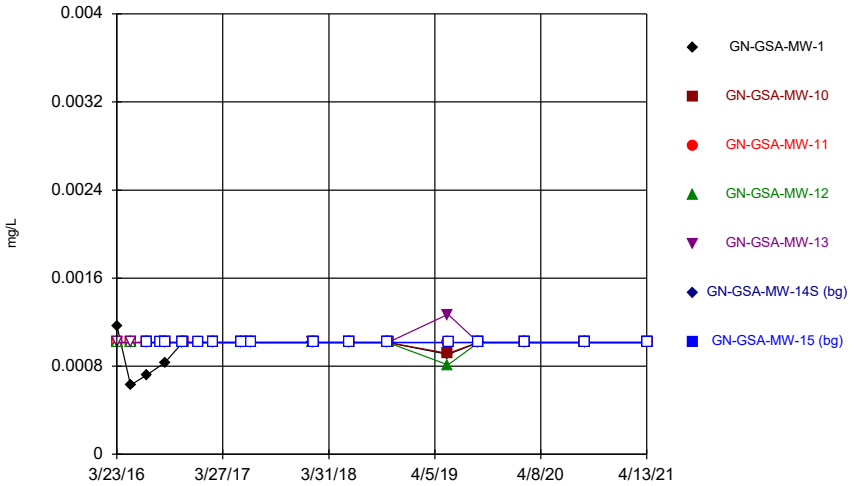
Plant Gaston Client: Southern Company Data: Gaston GSA Printed 6/9/2021, 3:16 PM

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	0.366	0.2785	4	No	8	0.3223	0.04124	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-GSA-MW-10	0.1	0.0617	4	No	8	0.09521	0.01354	87.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-GSA-MW-12	0.0832	0.05378	4	No	8	0.06828	0.01498	12.5	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	GN-GSA-MW-13	0.07948	0.03897	4	No	8	0.05923	0.01911	12.5	None	No	0.01	Param.
Fluoride (mg/L)	GN-GSA-MW-5	0.1	0.04	4	No	8	0.08505	0.02292	50	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-GSA-MW-7	0.1167	0.07585	4	No	8	0.09626	0.01926	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-GSA-MW-8	0.1465	0.1108	4	No	8	0.1286	0.01682	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-GSA-MW-9	0.08496	0.04021	4	No	8	0.0619	0.02365	12.5	None	ln(x)	0.01	Param.
Lead (mg/L)	GN-GSA-MW-13	0.00228	0.000203	0.015	No	8	0.0004626	0.0007343	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-GSA-MW-6	0.000305	0.000203	0.015	No	8	0.0002158	0.00003606	87.5	None	No	0.004	NP (NDs)
Lithium (mg/L)	GN-GSA-MW-1	0.02	0.00953	0.04	No	8	0.01745	0.004717	75	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-GSA-MW-1	0.007334	0.003609	0.1	No	8	0.005471	0.001757	0	None	No	0.01	Param.
Molybdenum (mg/L)	GN-GSA-MW-12	0.01	0.000298	0.1	No	8	0.008787	0.00343	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-GSA-MW-13	0.01	0.000175	0.1	No	8	0.008772	0.003474	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-GSA-MW-5	0.01	0.000094	0.1	No	8	0.008762	0.003502	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-GSA-MW-7	0.01	0.000276	0.1	No	8	0.008784	0.003438	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-GSA-MW-8	0.004101	0.003122	0.1	No	8	0.003611	0.0004617	0	None	No	0.01	Param.
Molybdenum (mg/L)	GN-GSA-MW-9	0.01	0.000207	0.1	No	8	0.008776	0.003462	87.5	None	No	0.004	NP (NDs)

FIGURE A.

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

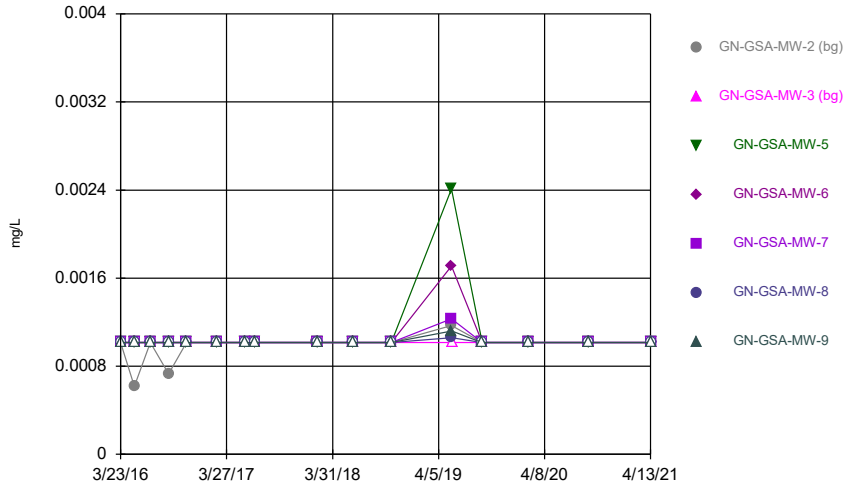
Time Series



Constituent: Antimony Analysis Run 6/9/2021 2:39 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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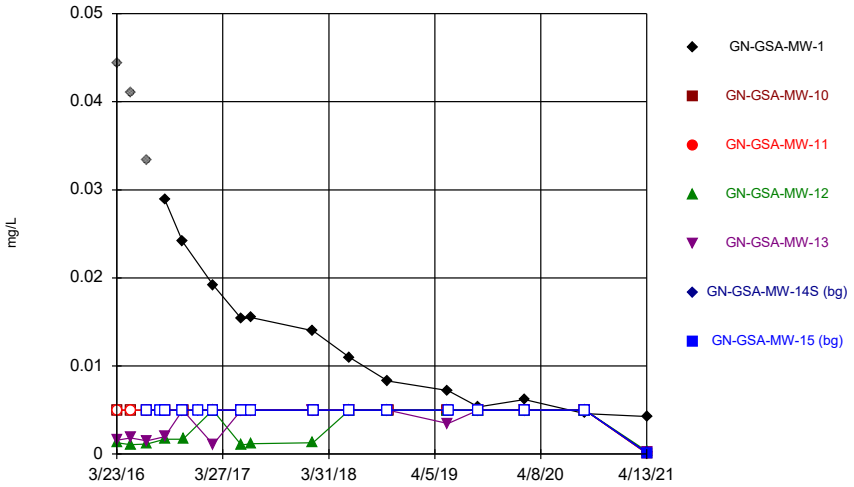
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

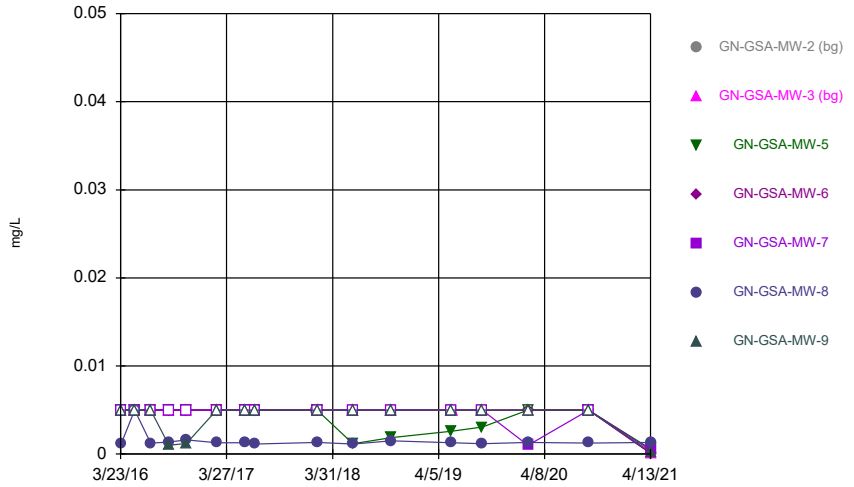
Time Series



Constituent: Arsenic Analysis Run 6/9/2021 2:39 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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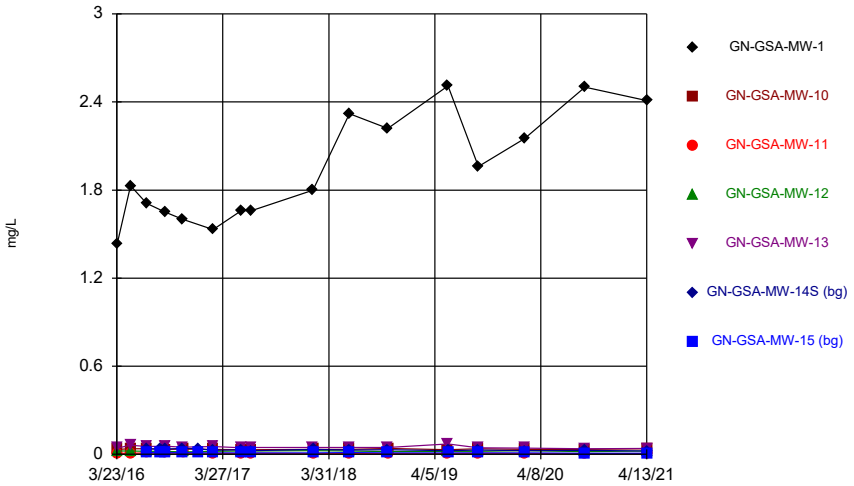
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Time Series

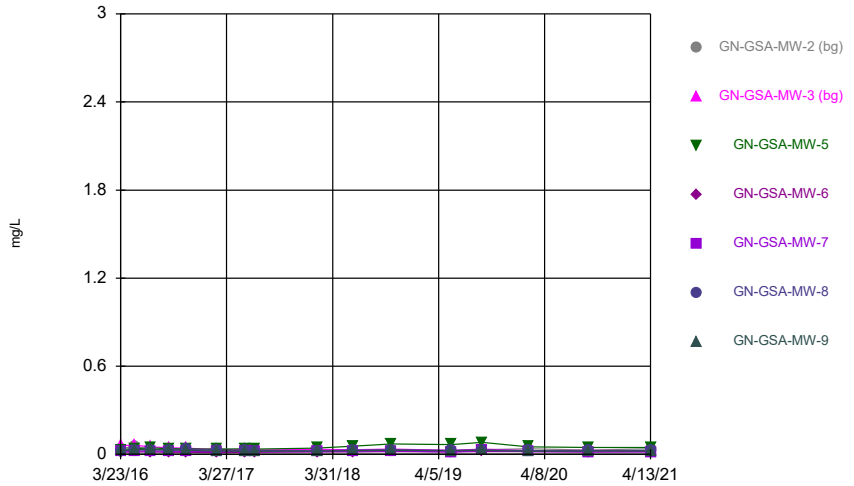


Constituent: Barium Analysis Run 6/9/2021 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Time Series



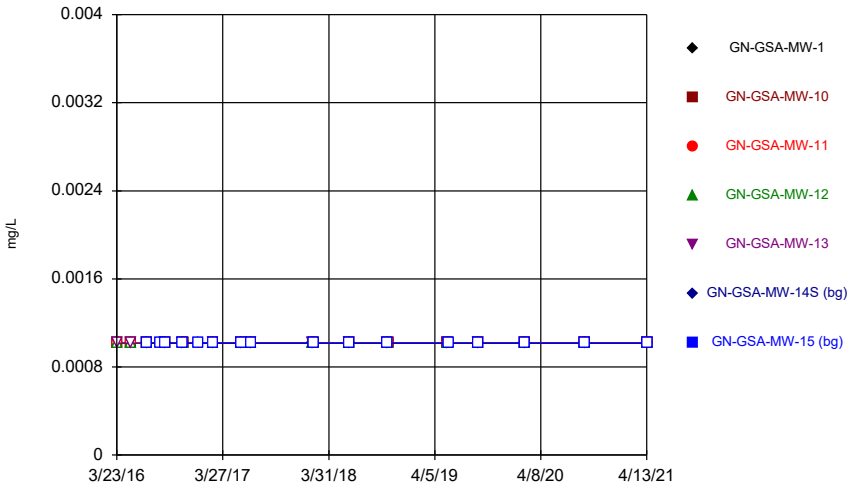
Constituent: Barium Analysis Run 6/9/2021 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



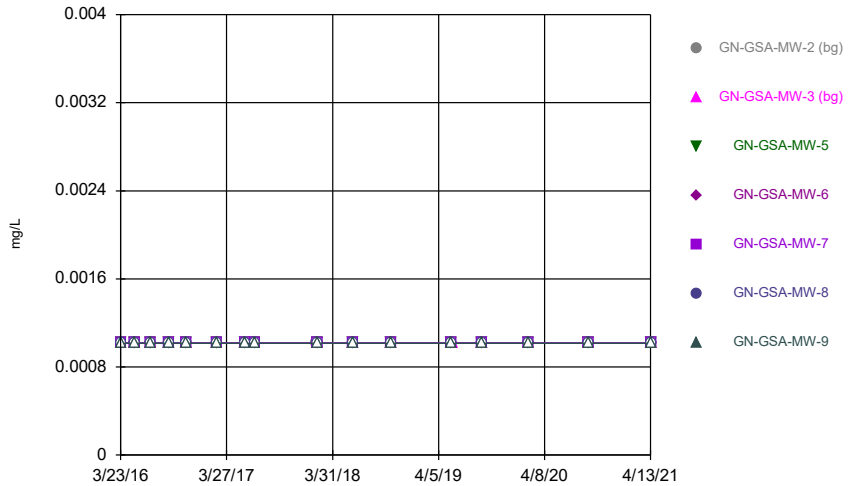
Constituent: Beryllium Analysis Run 6/9/2021 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

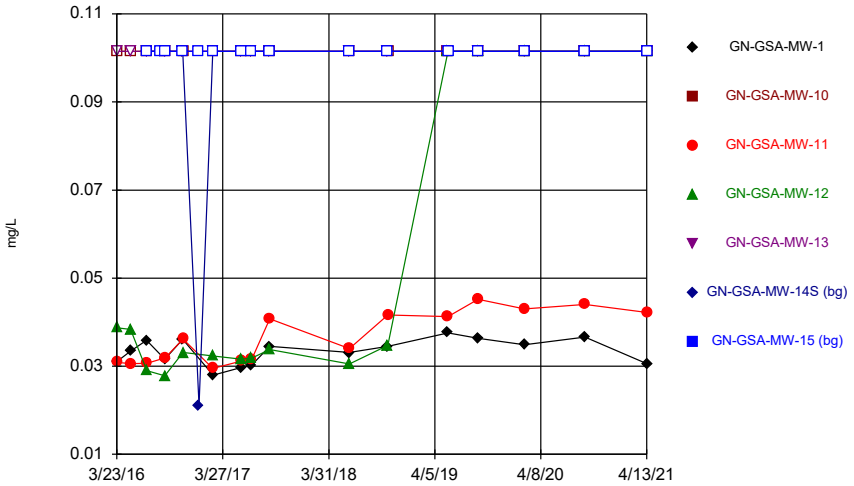


Constituent: Beryllium Analysis Run 6/9/2021 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

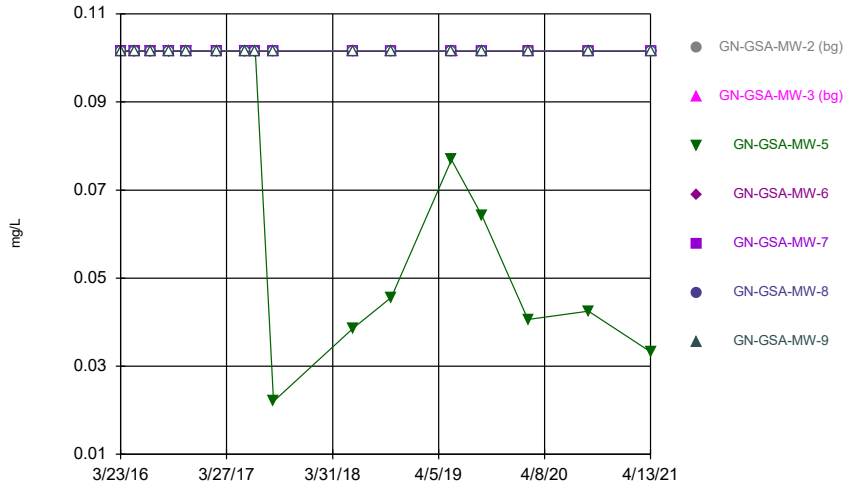
Time Series



Constituent: Boron Analysis Run 6/9/2021 2:39 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

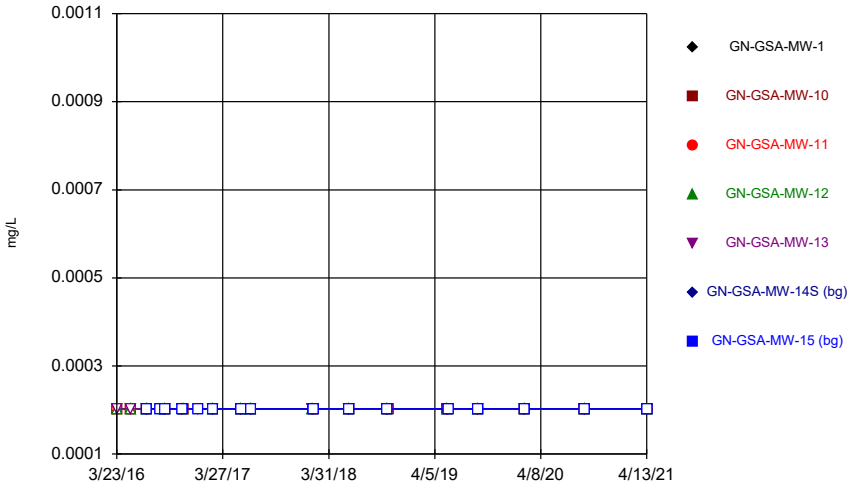
Time Series



Constituent: Boron Analysis Run 6/9/2021 2:39 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

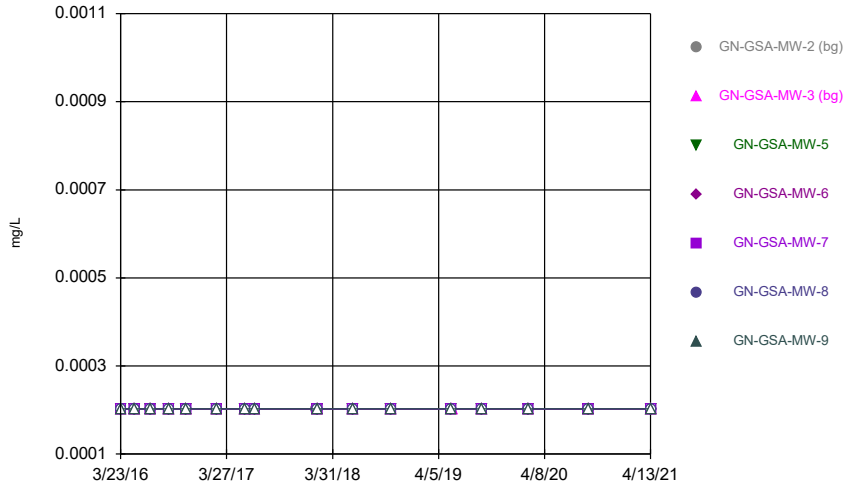
Time Series



Constituent: Cadmium Analysis Run 6/9/2021 2:39 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

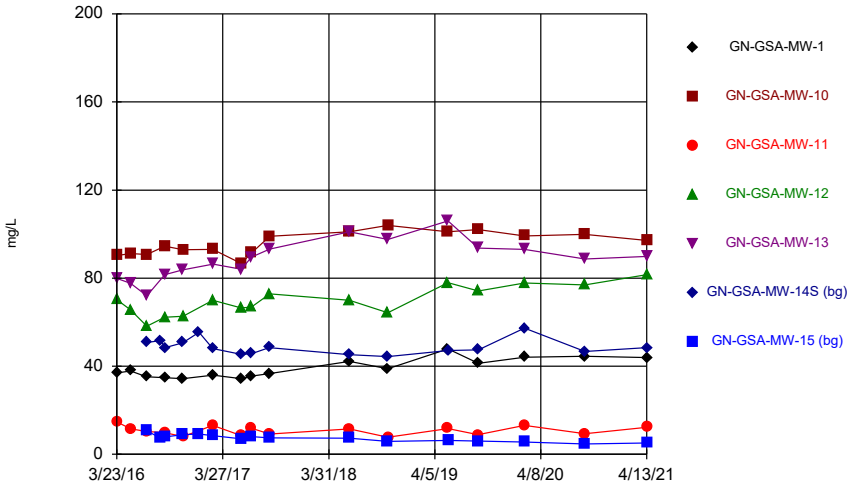
Time Series



Constituent: Cadmium Analysis Run 6/9/2021 2:39 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Time Series

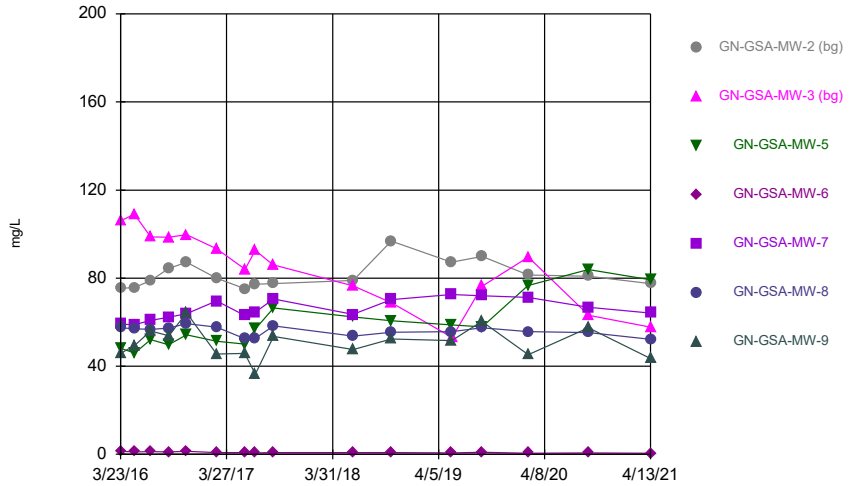


Constituent: Calcium Analysis Run 6/9/2021 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Time Series

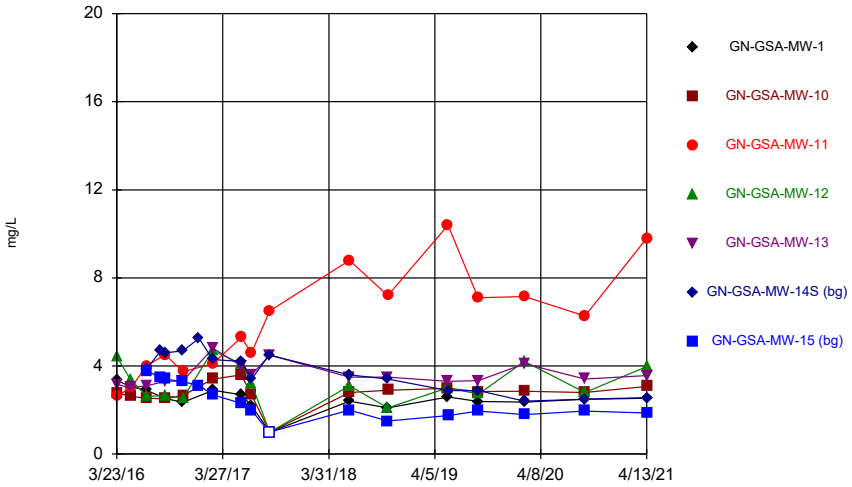


Constituent: Calcium Analysis Run 6/9/2021 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

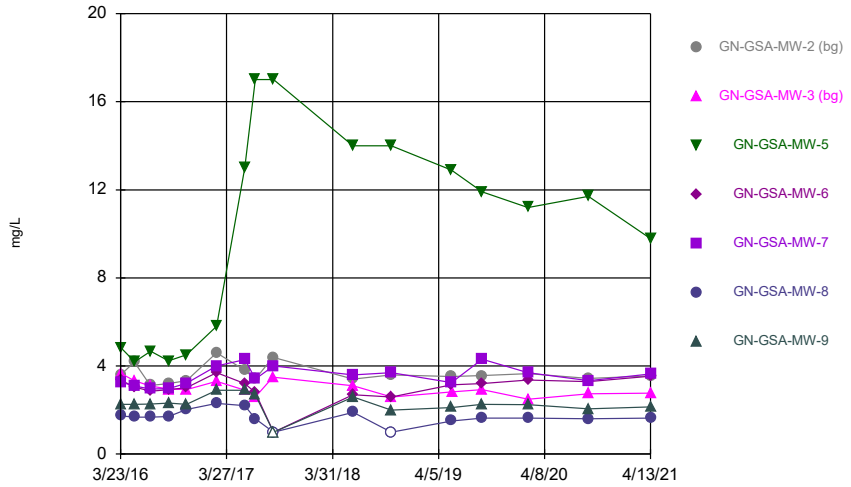


Constituent: Chloride Analysis Run 6/9/2021 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

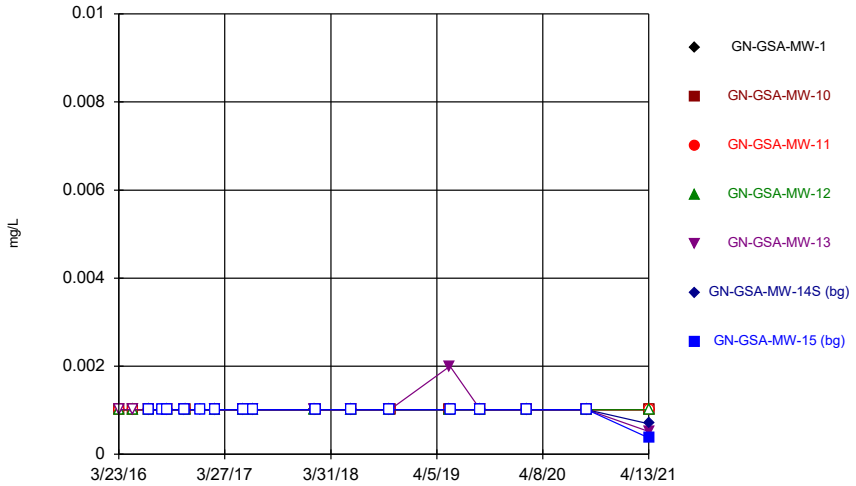


Constituent: Chloride Analysis Run 6/9/2021 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

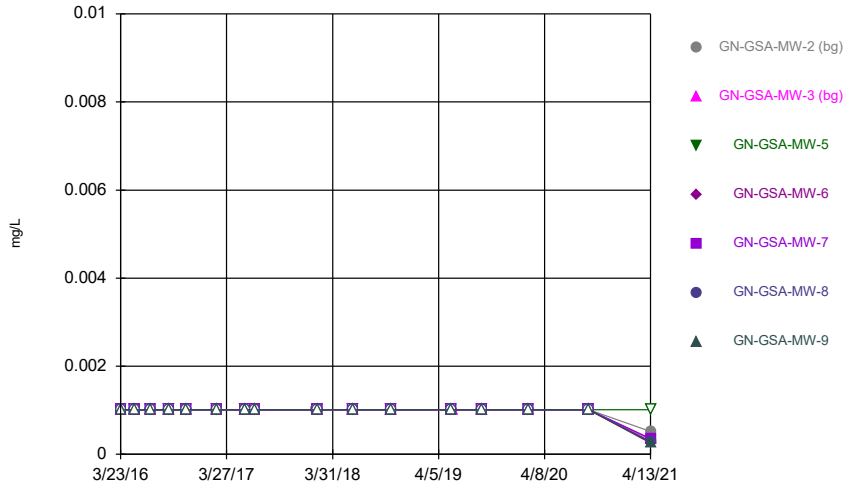
Time Series



Constituent: Chromium Analysis Run 6/9/2021 2:39 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

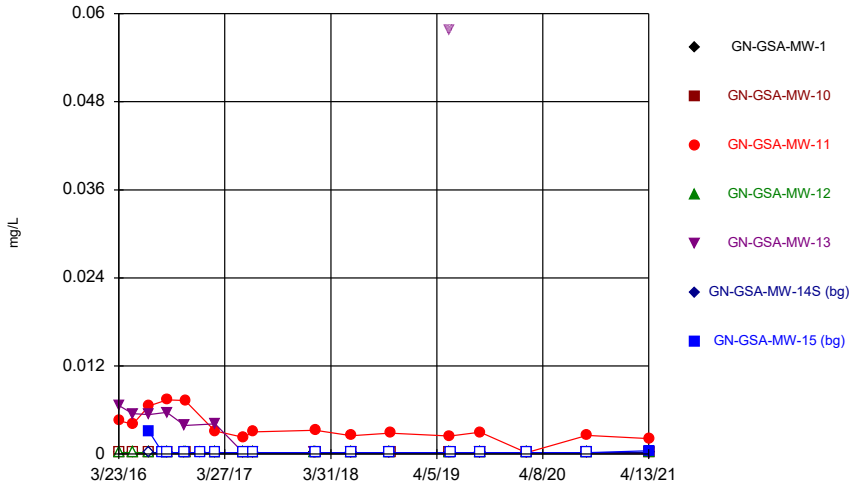
Time Series



Constituent: Chromium Analysis Run 6/9/2021 2:39 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

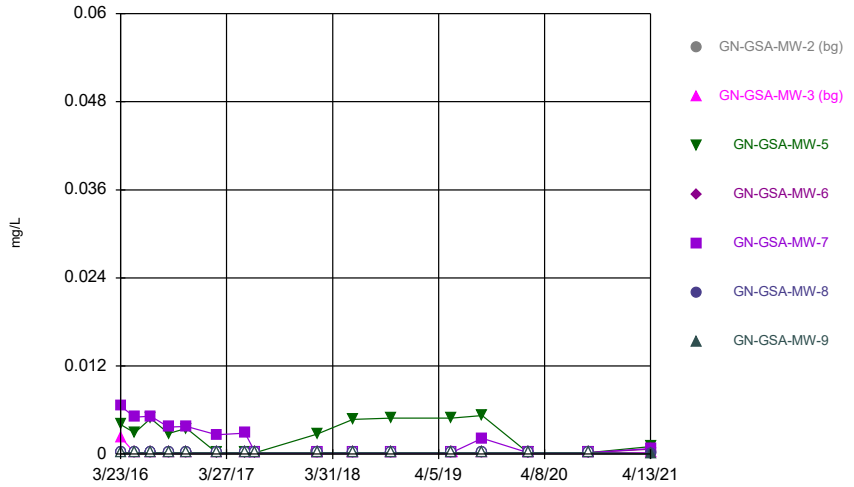
Time Series



Constituent: Cobalt Analysis Run 6/9/2021 2:39 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

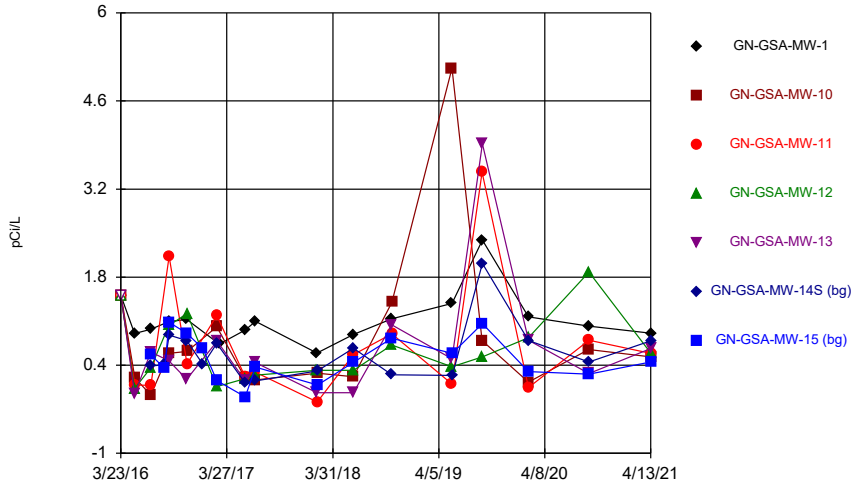
Time Series



Constituent: Cobalt Analysis Run 6/9/2021 2:39 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

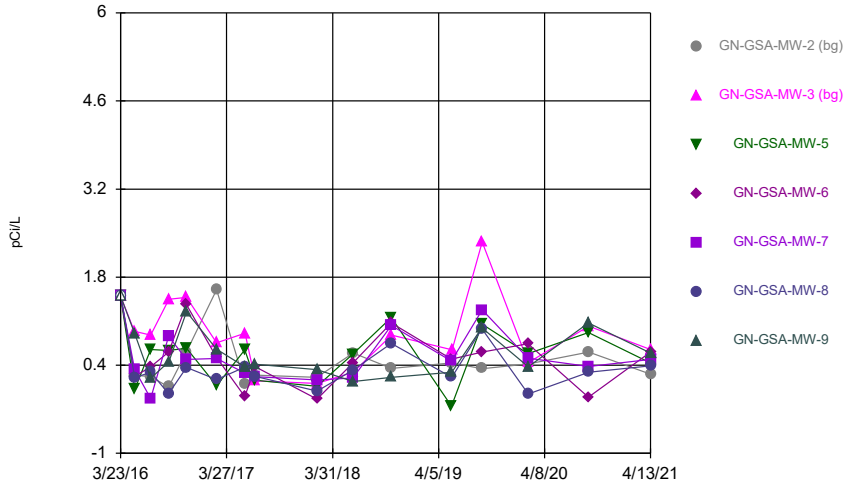
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 6/9/2021 2:39 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

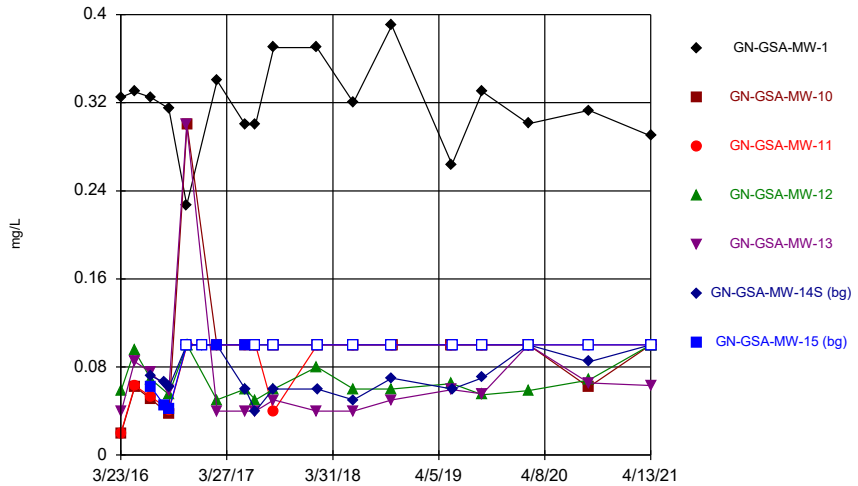
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 6/9/2021 2:39 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

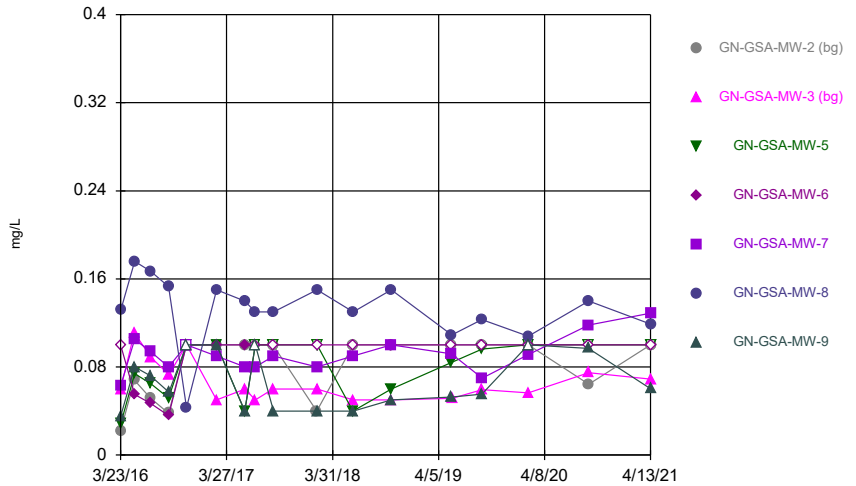
Time Series



Constituent: Fluoride Analysis Run 6/9/2021 2:39 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

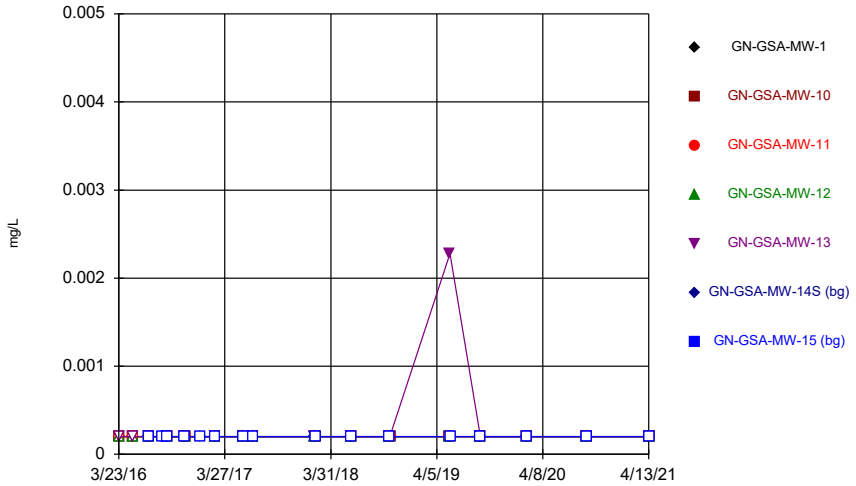
Time Series



Constituent: Fluoride Analysis Run 6/9/2021 2:39 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

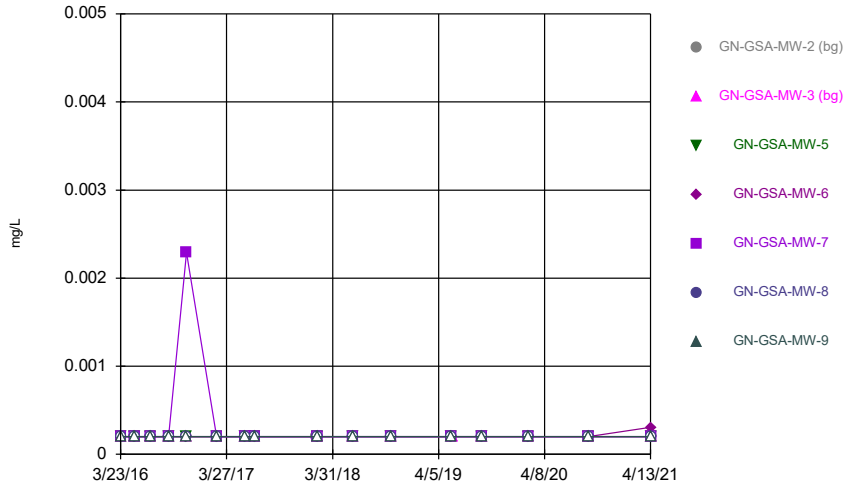
Time Series



Constituent: Lead Analysis Run 6/9/2021 2:39 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

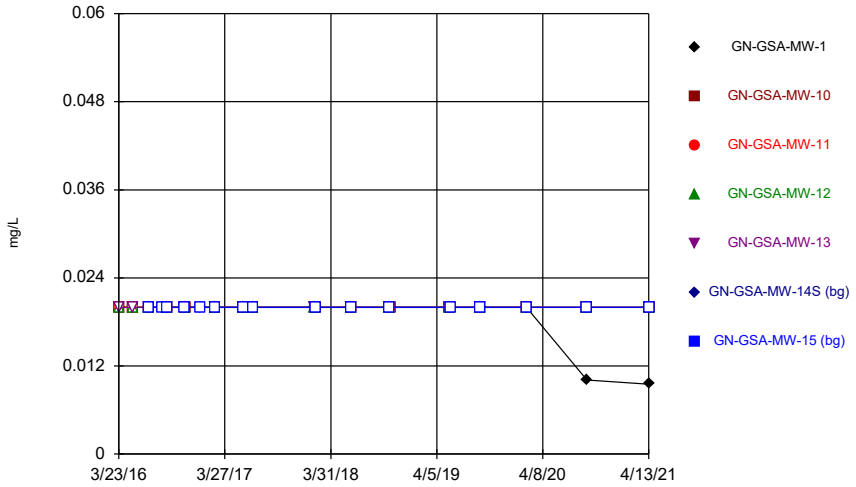
Time Series



Constituent: Lead Analysis Run 6/9/2021 2:39 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

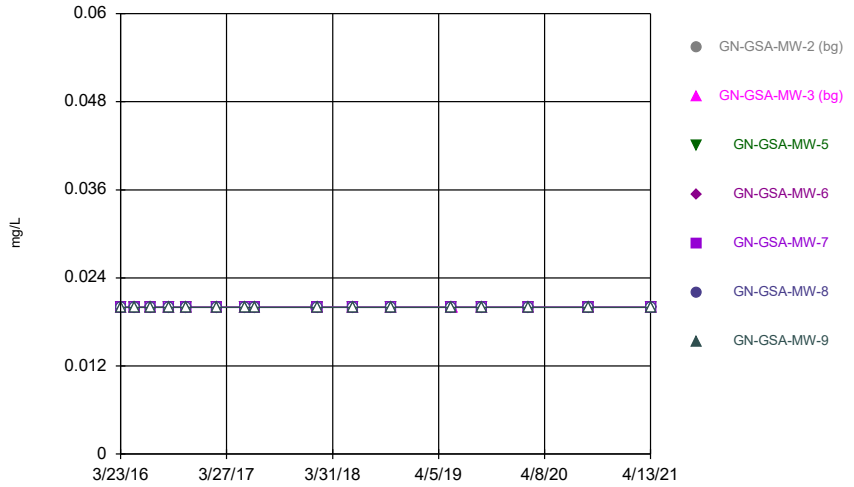
Time Series



Constituent: Lithium Analysis Run 6/9/2021 2:39 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

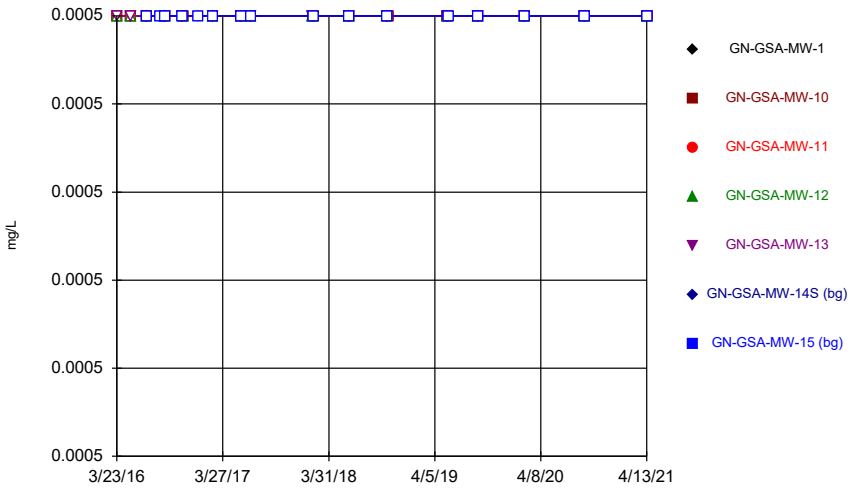
Time Series



Constituent: Lithium Analysis Run 6/9/2021 2:39 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

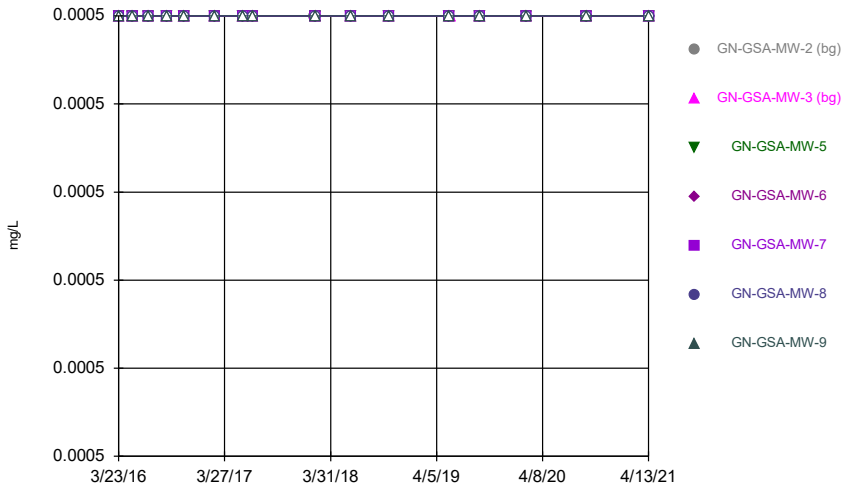
Time Series



Constituent: Mercury Analysis Run 6/9/2021 2:39 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

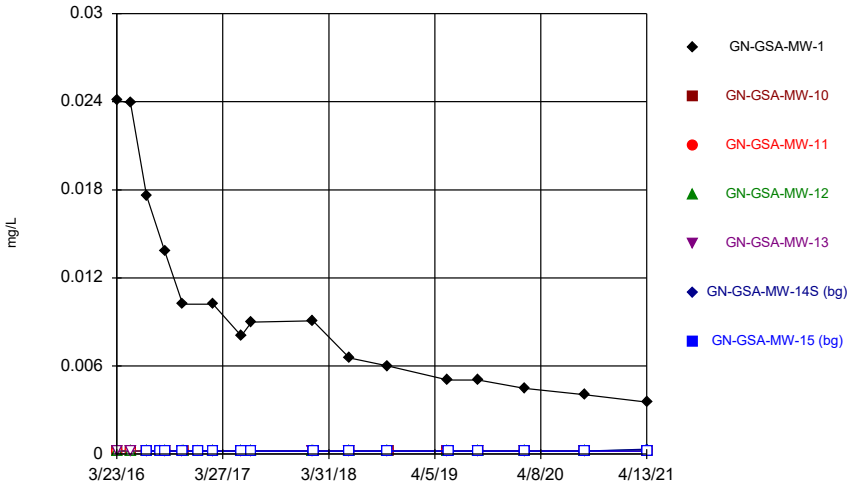
Time Series



Constituent: Mercury Analysis Run 6/9/2021 2:39 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

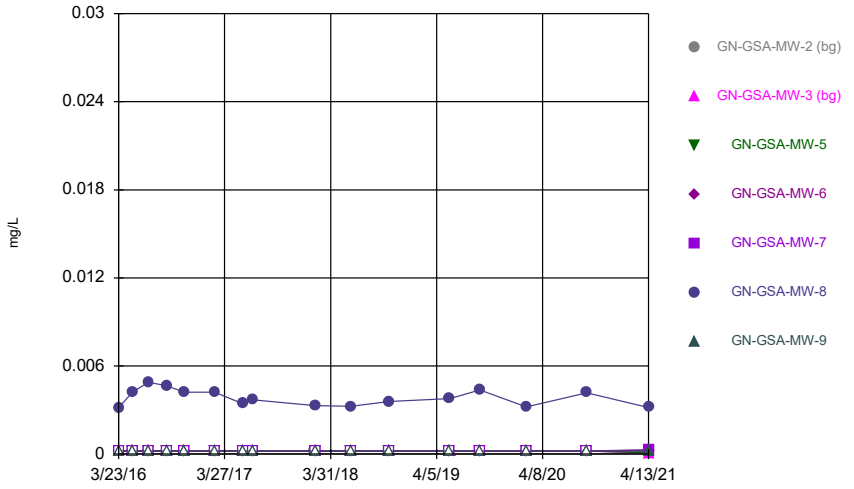
Time Series



Constituent: Molybdenum Analysis Run 6/9/2021 2:39 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

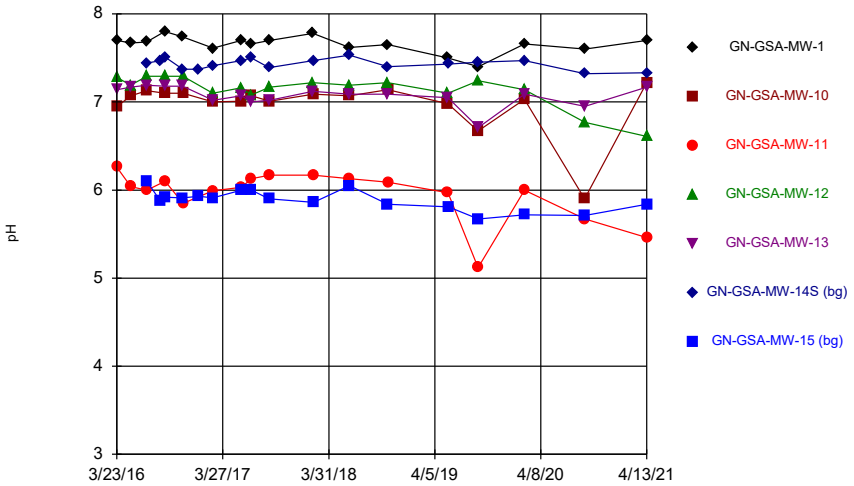
Time Series



Constituent: Molybdenum Analysis Run 6/9/2021 2:39 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Time Series

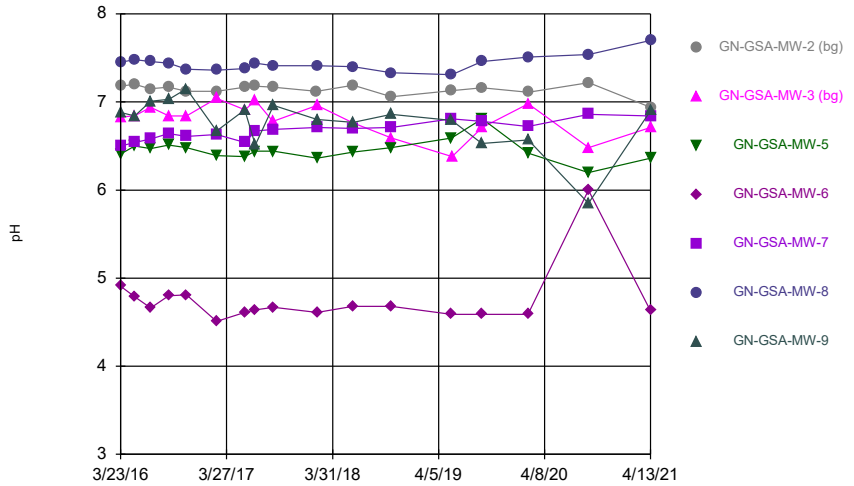


Constituent: pH Analysis Run 6/9/2021 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Time Series



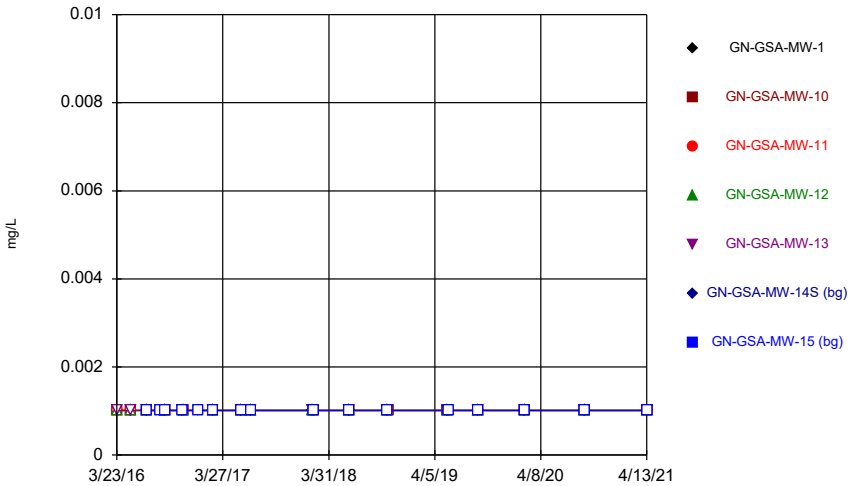
Constituent: pH Analysis Run 6/9/2021 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



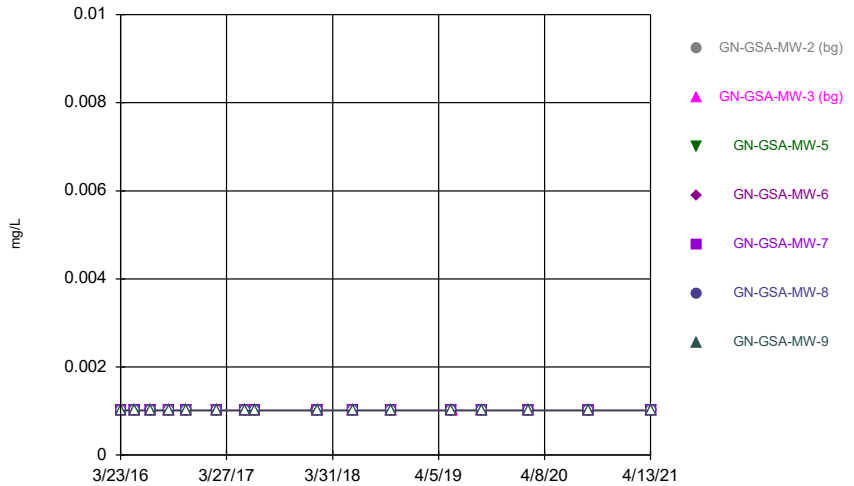
Constituent: Selenium Analysis Run 6/9/2021 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

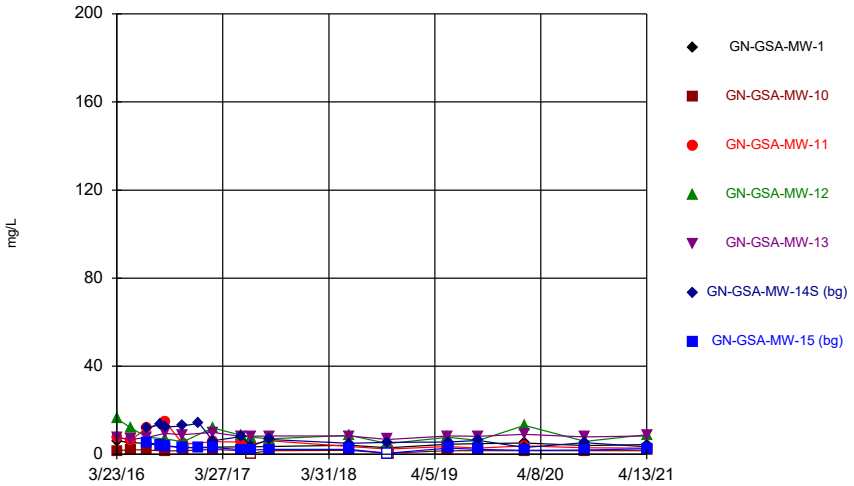


Constituent: Selenium Analysis Run 6/9/2021 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

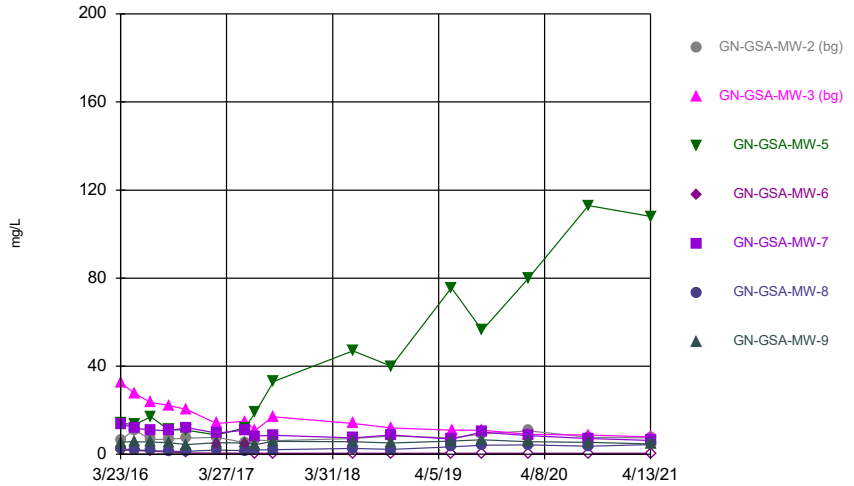
Time Series



Constituent: Sulfate Analysis Run 6/9/2021 2:39 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

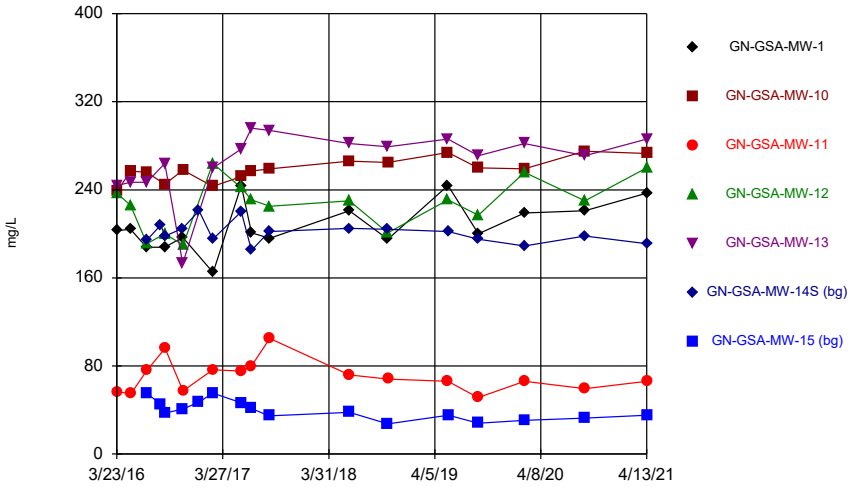
Time Series



Constituent: Sulfate Analysis Run 6/9/2021 2:39 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

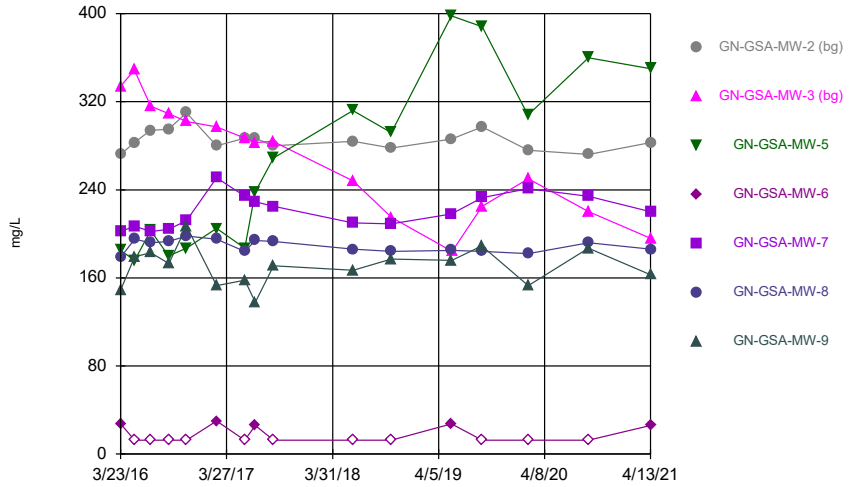
Time Series



Constituent: TDS Analysis Run 6/9/2021 2:39 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

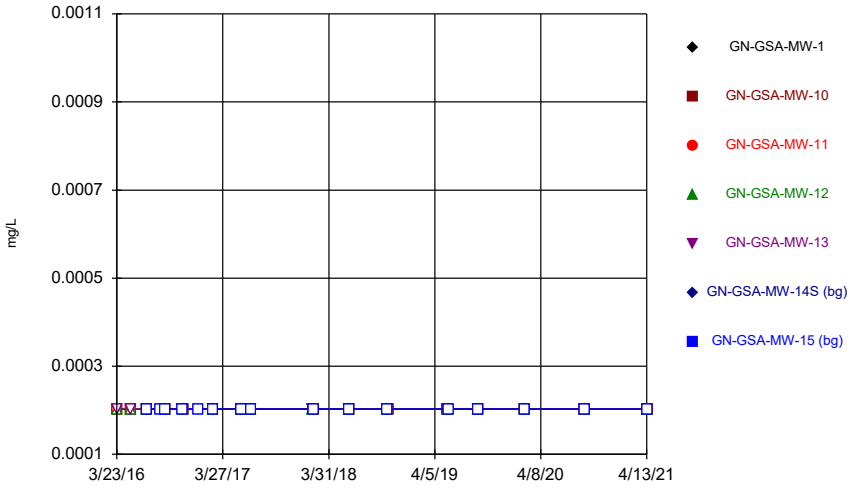
Time Series



Constituent: TDS Analysis Run 6/9/2021 2:39 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

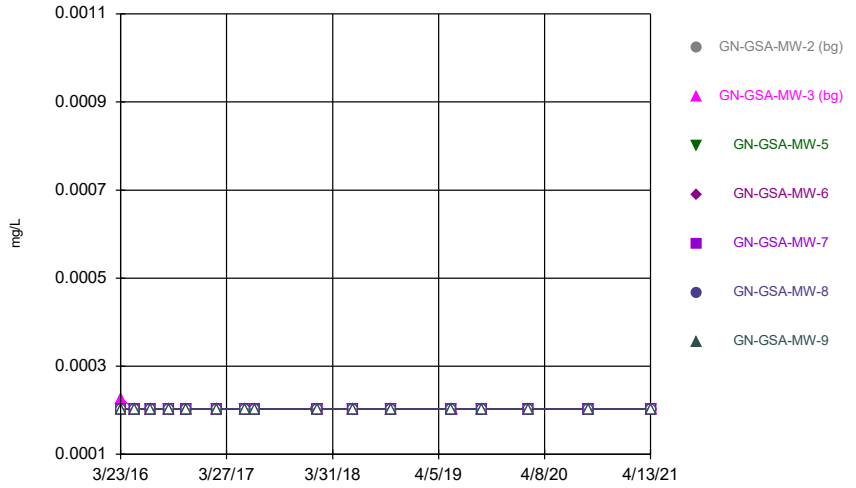
Time Series



Constituent: Thallium Analysis Run 6/9/2021 2:39 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 6/9/2021 2:39 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Time Series

Constituent: Antimony (mg/L) Analysis Run 6/9/2021 2:41 PM

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			<0.001015	<0.001015			
3/24/2016	0.00116 (J)	<0.001015			<0.001015		
5/10/2016	0.000629 (J)			<0.001015	<0.001015		
5/11/2016		<0.001015	<0.001015				
7/5/2016	0.000718 (J)					<0.001015	
7/6/2016		<0.001015	<0.001015	<0.001015	<0.001015		<0.001015
8/23/2016						<0.001015	<0.001015
9/6/2016	0.000833 (J)	<0.001015		<0.001015	<0.001015		
9/7/2016			<0.001015			<0.001015	<0.001015
11/8/2016	<0.001015				<0.001015	<0.001015	<0.001015
11/9/2016		<0.001015	<0.001015	<0.001015			
1/3/2017						<0.001015	<0.001015
2/20/2017							<0.001015
2/21/2017		<0.001015	<0.001015	<0.001015		<0.001015	
2/22/2017	<0.001015				<0.001015		
5/31/2017	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
7/5/2017	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
2/5/2018	<0.001015			<0.001015	<0.001015		
2/6/2018		<0.001015	<0.001015			<0.001015	
2/7/2018							<0.001015
6/12/2018	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
10/23/2018	<0.001015			<0.001015	<0.001015	<0.001015	<0.001015
10/24/2018		<0.001015	<0.001015				
5/21/2019	0.000909 (J)	0.000916 (J)	<0.001015	0.000813 (J)	0.00127 (J)		
5/22/2019						<0.001015	<0.001015
9/3/2019		<0.001015	<0.001015				
9/4/2019	<0.001015			<0.001015	<0.001015	<0.001015	<0.001015
2/12/2020	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
9/8/2020		<0.001015					
9/9/2020	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
4/13/2021	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015

Time Series

Constituent: Antimony (mg/L) Analysis Run 6/9/2021 2:41 PM

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	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		<0.001015
3/24/2016						<0.001015	
5/10/2016	0.000616 (J)	<0.001015					
5/11/2016			<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
7/5/2016	<0.001015						
7/6/2016		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
9/6/2016	0.00073 (J)		<0.001015	<0.001015	<0.001015	<0.001015	
9/7/2016		<0.001015					<0.001015
11/8/2016	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
2/20/2017		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
2/21/2017	<0.001015						<0.001015
5/30/2017			<0.001015	<0.001015		<0.001015	<0.001015
5/31/2017	<0.001015	<0.001015			<0.001015		
7/5/2017	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
2/5/2018	<0.001015						
2/6/2018		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
6/11/2018			<0.001015	<0.001015	<0.001015		
6/12/2018	<0.001015	<0.001015				<0.001015	<0.001015
10/22/2018	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
10/23/2018		<0.001015					
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		<0.001015					
9/3/2019						<0.001015	<0.001015
9/4/2019	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
2/11/2020			<0.001015	<0.001015	<0.001015		
2/12/2020	<0.001015	<0.001015				<0.001015	<0.001015
9/8/2020			<0.001015	<0.001015			<0.001015
9/9/2020	<0.001015	<0.001015			<0.001015	<0.001015	
4/13/2021	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015

Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/9/2021 2:41 PM

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			<0.005	0.0013 (J)			
3/24/2016	0.0444 (o)	<0.005			0.00157 (J)		
5/10/2016	0.041 (o)			0.00107 (J)	0.00182 (J)		
5/11/2016		<0.005	<0.005				
7/5/2016	0.0333 (o)					<0.005	
7/6/2016		<0.005	<0.005	0.00113 (J)	0.00152 (J)		<0.005
8/23/2016						<0.005	<0.005
9/6/2016	0.0289	<0.005		0.00169 (J)	0.00197 (J)		
9/7/2016			<0.005			<0.005	<0.005
11/8/2016	0.0241				<0.005	<0.005	<0.005
11/9/2016		<0.005	<0.005	0.00168 (J)			
1/3/2017						<0.005	<0.005
2/20/2017							<0.005
2/21/2017		<0.005	<0.005	<0.005		<0.005	
2/22/2017	0.0192				0.0011 (J)		
5/31/2017	0.0154	<0.005	<0.005	0.00102 (J)	<0.005	<0.005	<0.005
7/5/2017	0.0155	<0.005	<0.005	0.00117 (J)	<0.005	<0.005	<0.005
2/5/2018	0.014			0.00127 (J)	<0.005		
2/6/2018		<0.005	<0.005			<0.005	
2/7/2018							<0.005
6/12/2018	0.011	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
10/23/2018	0.00829			<0.005	<0.005	<0.005	<0.005
10/24/2018		<0.005	<0.005				
5/21/2019	0.00722	<0.005	<0.005	<0.005	0.00348 (J)		
5/22/2019						<0.005	<0.005
9/3/2019		<0.005	<0.005				
9/4/2019	0.00534			<0.005	<0.005	<0.005	<0.005
2/12/2020	0.0062	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9/8/2020		<0.005					
9/9/2020	0.0046 (J)		<0.005	<0.005	<0.005	<0.005	<0.005
4/13/2021	0.00427	8.71E-05 (J)	9.35E-05 (J)	0.00033	0.000189 (J)	0.000187 (J)	0.000134 (J)

Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/9/2021 2:41 PM

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	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005
3/24/2016						0.00112 (J)	
5/10/2016	<0.005	<0.005					
5/11/2016			<0.005	<0.005	<0.005	<0.005	<0.005
7/5/2016	<0.005						
7/6/2016		<0.005	<0.005	<0.005	<0.005	0.00124 (J)	<0.005
9/6/2016	<0.005		<0.005	<0.005	<0.005	0.00137 (J)	
9/7/2016		<0.005					0.00101 (J)
11/8/2016	<0.005	<0.005	<0.005	<0.005	<0.005	0.00162 (J)	0.00121 (J)
2/20/2017		<0.005	<0.005	<0.005	<0.005	0.00127 (J)	
2/21/2017	<0.005						<0.005
5/30/2017			<0.005	<0.005		0.00129 (J)	<0.005
5/31/2017	<0.005	<0.005			<0.005		
7/5/2017	<0.005	<0.005	<0.005	<0.005	<0.005	0.00116 (J)	<0.005
2/5/2018	<0.005						
2/6/2018		<0.005	<0.005	<0.005	<0.005	0.00131 (J)	<0.005
6/11/2018			0.00119 (J)	<0.005	<0.005		
6/12/2018	<0.005	<0.005				0.00115 (J)	<0.005
10/22/2018	<0.005		0.00188 (J)	<0.005	<0.005	0.0015 (J)	<0.005
10/23/2018		<0.005					
5/20/2019	<0.005		0.00259 (J)	<0.005	<0.005		
5/21/2019						0.00128 (J)	<0.005
5/22/2019		<0.005					
9/3/2019						0.00118 (J)	<0.005
9/4/2019	<0.005	<0.005	0.00305 (J)	<0.005	<0.005		
2/11/2020			<0.005	<0.005	0.001 (J)		
2/12/2020	<0.005	<0.005				0.00133 (J)	<0.005
9/8/2020			<0.005	<0.005			<0.005
9/9/2020	<0.005	<0.005			<0.005	0.00126 (J)	
4/13/2021	0.000123 (J)	0.00011 (J)	0.000587	9.88E-05 (J)	0.000469	0.00134	0.000237

Time Series

Constituent: Barium (mg/L) Analysis Run 6/9/2021 2:41 PM

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

Time Series

Constituent: Barium (mg/L) Analysis Run 6/9/2021 2:41 PM

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

Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/9/2021 2:41 PM

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			<0.001015	<0.001015			
3/24/2016	<0.001015	<0.001015			<0.001015		
5/10/2016	<0.001015			<0.001015	<0.001015		
5/11/2016		<0.001015	<0.001015				
7/5/2016	<0.001015					<0.001015	
7/6/2016		<0.001015	<0.001015	<0.001015	<0.001015		<0.001015
8/23/2016						<0.001015	<0.001015
9/6/2016	<0.001015	<0.001015		<0.001015	<0.001015		
9/7/2016			<0.001015			<0.001015	<0.001015
11/8/2016	<0.001015				<0.001015	<0.001015	<0.001015
11/9/2016		<0.001015	<0.001015	<0.001015			
1/3/2017						<0.001015	<0.001015
2/20/2017							<0.001015
2/21/2017		<0.001015	<0.001015	<0.001015		<0.001015	
2/22/2017	<0.001015				<0.001015		
5/31/2017	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
7/5/2017	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
2/5/2018	<0.001015			<0.001015	<0.001015		
2/6/2018		<0.001015	<0.001015			<0.001015	
2/7/2018							<0.001015
6/12/2018	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
10/23/2018	<0.001015			<0.001015	<0.001015	<0.001015	<0.001015
10/24/2018		<0.001015	<0.001015				
5/21/2019	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
5/22/2019						<0.001015	<0.001015
9/3/2019		<0.001015	<0.001015				
9/4/2019	<0.001015			<0.001015	<0.001015	<0.001015	<0.001015
2/12/2020	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
9/8/2020		<0.001015					
9/9/2020	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
4/13/2021	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015

Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/9/2021 2:41 PM

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	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		<0.001015
3/24/2016						<0.001015	
5/10/2016	<0.001015	<0.001015					
5/11/2016			<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
7/5/2016	<0.001015						
7/6/2016		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
9/6/2016	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015	
9/7/2016		<0.001015					<0.001015
11/8/2016	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
2/20/2017		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
2/21/2017	<0.001015						<0.001015
5/30/2017			<0.001015	<0.001015		<0.001015	<0.001015
5/31/2017	<0.001015	<0.001015			<0.001015		
7/5/2017	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
2/5/2018	<0.001015						
2/6/2018		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
6/11/2018			<0.001015	<0.001015	<0.001015		
6/12/2018	<0.001015	<0.001015				<0.001015	<0.001015
10/22/2018	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
10/23/2018		<0.001015					
5/20/2019	<0.001015		<0.001015	<0.001015	<0.001015		
5/21/2019						<0.001015	<0.001015
5/22/2019		<0.001015					
9/3/2019						<0.001015	<0.001015
9/4/2019	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
2/11/2020			<0.001015	<0.001015	<0.001015		
2/12/2020	<0.001015	<0.001015				<0.001015	<0.001015
9/8/2020			<0.001015	<0.001015			<0.001015
9/9/2020	<0.001015	<0.001015			<0.001015	<0.001015	
4/13/2021	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015

Time Series

Constituent: Boron (mg/L) Analysis Run 6/9/2021 2:41 PM

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

Time Series

Constituent: Boron (mg/L) Analysis Run 6/9/2021 2:41 PM

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

Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/9/2021 2:41 PM

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			<0.000203	<0.000203			
3/24/2016	<0.000203	<0.000203			<0.000203		
5/10/2016	<0.000203			<0.000203	<0.000203		
5/11/2016		<0.000203	<0.000203				
7/5/2016	<0.000203					<0.000203	
7/6/2016		<0.000203	<0.000203	<0.000203	<0.000203		<0.000203
8/23/2016						<0.000203	<0.000203
9/6/2016	<0.000203	<0.000203		<0.000203	<0.000203		
9/7/2016			<0.000203			<0.000203	<0.000203
11/8/2016	<0.000203				<0.000203	<0.000203	<0.000203
11/9/2016		<0.000203	<0.000203	<0.000203			
1/3/2017						<0.000203	<0.000203
2/20/2017							<0.000203
2/21/2017		<0.000203	<0.000203	<0.000203		<0.000203	
2/22/2017	<0.000203				<0.000203		
5/31/2017	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
7/5/2017	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
2/5/2018	<0.000203			<0.000203	<0.000203		
2/6/2018		<0.000203	<0.000203			<0.000203	
2/7/2018							<0.000203
6/12/2018	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
10/23/2018	<0.000203			<0.000203	<0.000203	<0.000203	<0.000203
10/24/2018		<0.000203	<0.000203				
5/21/2019	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		
5/22/2019						<0.000203	<0.000203
9/3/2019		<0.000203	<0.000203				
9/4/2019	<0.000203			<0.000203	<0.000203	<0.000203	<0.000203
2/12/2020	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
9/8/2020		<0.000203					
9/9/2020	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
4/13/2021	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203

Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/9/2021 2:41 PM

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	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		<0.000203
3/24/2016						<0.000203	
5/10/2016	<0.000203	<0.000203					
5/11/2016			<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
7/5/2016	<0.000203						
7/6/2016		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
9/6/2016	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203	
9/7/2016		<0.000203					<0.000203
11/8/2016	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
2/20/2017		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
2/21/2017	<0.000203						<0.000203
5/30/2017			<0.000203	<0.000203		<0.000203	<0.000203
5/31/2017	<0.000203	<0.000203			<0.000203		
7/5/2017	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
2/5/2018	<0.000203						
2/6/2018		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
6/11/2018			<0.000203	<0.000203	<0.000203		
6/12/2018	<0.000203	<0.000203				<0.000203	<0.000203
10/22/2018	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
10/23/2018		<0.000203					
5/20/2019	<0.000203		<0.000203	<0.000203	<0.000203		
5/21/2019						<0.000203	<0.000203
5/22/2019		<0.000203					
9/3/2019						<0.000203	<0.000203
9/4/2019	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		
2/11/2020			<0.000203	<0.000203	<0.000203		
2/12/2020	<0.000203	<0.000203				<0.000203	<0.000203
9/8/2020			<0.000203	<0.000203			<0.000203
9/9/2020	<0.000203	<0.000203			<0.000203	<0.000203	
4/13/2021	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203

Time Series

Constituent: Calcium (mg/L) Analysis Run 6/9/2021 2:41 PM

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

Time Series

Constituent: Calcium (mg/L) Analysis Run 6/9/2021 2:41 PM

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

Time Series

Constituent: Chloride (mg/L) Analysis Run 6/9/2021 2:41 PM

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

Time Series

Constituent: Chloride (mg/L) Analysis Run 6/9/2021 2:41 PM

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

Time Series

Constituent: Chromium (mg/L) Analysis Run 6/9/2021 2:41 PM

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			<0.001015	<0.001015			
3/24/2016	<0.001015	<0.001015			<0.001015		
5/10/2016	<0.001015			<0.001015	<0.001015		
5/11/2016		<0.001015	<0.001015				
7/5/2016	<0.001015					<0.001015	
7/6/2016		<0.001015	<0.001015	<0.001015	<0.001015		<0.001015
8/23/2016						<0.001015	<0.001015
9/6/2016	<0.001015	<0.001015		<0.001015	<0.001015		
9/7/2016			<0.001015			<0.001015	<0.001015
11/8/2016	<0.001015				<0.001015	<0.001015	<0.001015
11/9/2016		<0.001015	<0.001015	<0.001015			
1/3/2017						<0.001015	<0.001015
2/20/2017							<0.001015
2/21/2017		<0.001015	<0.001015	<0.001015		<0.001015	
2/22/2017	<0.001015				<0.001015		
5/31/2017	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
7/5/2017	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
2/5/2018	<0.001015			<0.001015	<0.001015		
2/6/2018		<0.001015	<0.001015			<0.001015	
2/7/2018							<0.001015
6/12/2018	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
10/23/2018	<0.001015			<0.001015	<0.001015	<0.001015	<0.001015
10/24/2018		<0.001015	<0.001015				
5/21/2019	<0.001015	<0.001015	<0.001015	<0.001015	0.002 (J)		
5/22/2019						<0.001015	<0.001015
9/3/2019		<0.001015	<0.001015				
9/4/2019	<0.001015			<0.001015	<0.001015	<0.001015	<0.001015
2/12/2020	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
9/8/2020		<0.001015					
9/9/2020	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
4/13/2021	<0.001015	<0.001015	<0.001015	<0.001015	0.000518 (J)	0.000697 (J)	0.000375 (J)

Time Series

Constituent: Chromium (mg/L) Analysis Run 6/9/2021 2:41 PM

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	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		<0.001015
3/24/2016						<0.001015	
5/10/2016	<0.001015	<0.001015					
5/11/2016			<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
7/5/2016	<0.001015						
7/6/2016		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
9/6/2016	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015	
9/7/2016		<0.001015					<0.001015
11/8/2016	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
2/20/2017		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
2/21/2017	<0.001015						<0.001015
5/30/2017			<0.001015	<0.001015		<0.001015	<0.001015
5/31/2017	<0.001015	<0.001015			<0.001015		
7/5/2017	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
2/5/2018	<0.001015						
2/6/2018		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
6/11/2018			<0.001015	<0.001015	<0.001015		
6/12/2018	<0.001015	<0.001015				<0.001015	<0.001015
10/22/2018	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
10/23/2018		<0.001015					
5/20/2019	<0.001015		<0.001015	<0.001015	<0.001015		
5/21/2019						<0.001015	<0.001015
5/22/2019		<0.001015					
9/3/2019						<0.001015	<0.001015
9/4/2019	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
2/11/2020			<0.001015	<0.001015	<0.001015		
2/12/2020	<0.001015	<0.001015				<0.001015	<0.001015
9/8/2020			<0.001015	<0.001015			<0.001015
9/9/2020	<0.001015	<0.001015			<0.001015	<0.001015	
4/13/2021	0.000517 (J)	0.000337 (J)	<0.001015	0.000257 (J)	0.000361 (J)	0.000291 (J)	0.000276 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/9/2021 2:41 PM

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)	<0.000203			
3/24/2016	<0.000203	<0.000203			0.00662 (J)		
5/10/2016	<0.000203			<0.000203	0.00549 (J)		
5/11/2016		<0.000203	0.00407 (J)				
7/5/2016	<0.000203					<0.000203	
7/6/2016		<0.000203	0.00654 (J)	<0.000203	0.00537 (J)		0.00313 (J)
8/23/2016						<0.000203	<0.000203
9/6/2016	<0.000203	<0.000203		<0.000203	0.00568 (J)		
9/7/2016			0.00737 (J)			<0.000203	<0.000203
11/8/2016	<0.000203				0.00388 (J)	<0.000203	<0.000203
11/9/2016		<0.000203	0.00732 (J)	<0.000203			
1/3/2017						<0.000203	<0.000203
2/20/2017							<0.000203
2/21/2017		<0.000203	0.00315 (J)	<0.000203		<0.000203	
2/22/2017	<0.000203				0.00412 (J)		
5/31/2017	<0.000203	<0.000203	0.0023 (J)	<0.000203	<0.000203	<0.000203	<0.000203
7/5/2017	<0.000203	<0.000203	0.00303 (J)	<0.000203	<0.000203	<0.000203	<0.000203
2/5/2018	<0.000203			<0.000203	<0.000203		
2/6/2018		<0.000203	0.00324 (J)			<0.000203	
2/7/2018							<0.000203
6/12/2018	<0.000203	<0.000203	0.00251 (J)	<0.000203	<0.000203	<0.000203	<0.000203
10/23/2018	<0.000203			<0.000203	<0.000203	<0.000203	<0.000203
10/24/2018		<0.000203	0.00286 (J)				
5/21/2019	<0.000203	<0.000203	0.00245 (J)	<0.000203	0.0578 (o)		
5/22/2019						<0.000203	<0.000203
9/3/2019		<0.000203	0.00298 (J)				
9/4/2019	<0.000203			<0.000203	<0.000203	<0.000203	<0.000203
2/12/2020	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
9/8/2020		<0.000203					
9/9/2020	<0.000203		0.00256 (J)	<0.000203	<0.000203	<0.000203	<0.000203
4/13/2021	<0.000203	<0.000203	0.00212	0.000218	0.000158 (J)	<0.000203	0.00046

Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/9/2021 2:41 PM

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	<0.000203	0.00232 (J)	0.00403 (J)	<0.000203	0.00656 (J)		<0.000203
3/24/2016						<0.000203	
5/10/2016	<0.000203	<0.000203					
5/11/2016			0.00289 (J)	<0.000203	0.00505 (J)	<0.000203	<0.000203
7/5/2016	<0.000203						
7/6/2016		<0.000203	0.00485 (J)	<0.000203	0.00515 (J)	<0.000203	<0.000203
9/6/2016	<0.000203		0.00281 (J)	<0.000203	0.0037 (J)	<0.000203	
9/7/2016		<0.000203					<0.000203
11/8/2016	<0.000203	<0.000203	0.0035 (J)	<0.000203	0.00375 (J)	<0.000203	<0.000203
2/20/2017		<0.000203	<0.000203	<0.000203	0.00263 (J)	<0.000203	
2/21/2017	<0.000203						<0.000203
5/30/2017			<0.000203	<0.000203		<0.000203	<0.000203
5/31/2017	<0.000203	<0.000203			0.00287 (J)		
7/5/2017	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
2/5/2018	<0.000203						
2/6/2018		<0.000203	0.00274 (J)	<0.000203	<0.000203	<0.000203	<0.000203
6/11/2018			0.00472 (J)	<0.000203	<0.000203		
6/12/2018	<0.000203	<0.000203				<0.000203	<0.000203
10/22/2018	<0.000203		0.0049 (J)	<0.000203	<0.000203	<0.000203	<0.000203
10/23/2018		<0.000203					
5/20/2019	<0.000203		0.00489 (J)	<0.000203	<0.000203		
5/21/2019						<0.000203	<0.000203
5/22/2019		<0.000203					
9/3/2019						<0.000203	<0.000203
9/4/2019	<0.000203	<0.000203	0.00527	<0.000203	0.00217 (J)		
2/11/2020			<0.000203	<0.000203	<0.000203		
2/12/2020	<0.000203	<0.000203				<0.000203	<0.000203
9/8/2020			<0.000203	<0.000203			<0.000203
9/9/2020	<0.000203	<0.000203			<0.000203	<0.000203	
4/13/2021	<0.000203	<0.000203	0.00104	0.000682	0.00077	0.000123 (J)	8.16E-05 (J)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/9/2021 2:41 PM

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)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/9/2021 2:41 PM

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)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 6/9/2021 2:41 PM

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)	<0.1	<0.1
11/9/2016		0.3 (U)	<0.1	<0.1			
1/3/2017						<0.1	<0.1
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	<0.1	<0.1	0.05 (J)	0.04 (J)	0.04 (J)	<0.1
9/5/2017						0.06 (J)	<0.1
9/7/2017	0.37	<0.1	0.04 (J)	0.06 (J)	0.05 (J)		
2/5/2018	0.37			0.08 (J)	0.04 (J)		
2/6/2018		<0.1	<0.1			0.06 (J)	
2/7/2018							<0.1
6/12/2018	0.32	<0.1	<0.1	0.06 (J)	0.04 (J)	0.05 (J)	<0.1
10/23/2018	0.39			0.06 (J)	0.05 (J)	0.07 (J)	<0.1
10/24/2018		<0.1	<0.1				
5/21/2019	0.264	<0.1	<0.1	0.0649 (J)	0.0595 (J)		
5/22/2019						0.0601 (J)	<0.1
9/3/2019		<0.1	<0.1				
9/4/2019	0.33			0.0547 (J)	0.0555 (J)	0.0703 (J)	<0.1
2/12/2020	0.301	<0.1	<0.1	0.0586 (J)	<0.1	<0.1	<0.1
9/8/2020		0.0617 (J)					
9/9/2020	0.313		<0.1	0.068 (J)	0.0655 (J)	0.0847 (J)	<0.1
4/13/2021	0.29	<0.1	<0.1	<0.1	0.0633 (J)	<0.1	<0.1

Time Series

Constituent: Fluoride (mg/L) Analysis Run 6/9/2021 2:41 PM

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)	<0.1	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	<0.1	<0.1	<0.1	<0.1	<0.1	0.043 (J)	<0.1
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	<0.1	0.05 (J)	<0.1	<0.1	0.08 (J)	0.13	<0.1
9/5/2017	<0.1	0.06 (J)					
9/7/2017			<0.1	<0.1	0.09 (J)	0.13	0.04 (J)
2/5/2018	0.04 (J)						
2/6/2018		0.06 (J)	<0.1	<0.1	0.08 (J)	0.15	0.04 (J)
6/11/2018			0.04 (J)	<0.1	0.09 (J)		
6/12/2018	<0.1	0.05 (J)				0.13	0.04 (J)
10/22/2018	<0.1		0.06 (J)	<0.1	0.1	0.15	0.05 (J)
10/23/2018		0.05 (J)					
5/20/2019	<0.1		0.0842 (J)	<0.1	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	<0.1	0.0594 (J)	0.0962 (J)	<0.1	0.07 (J)		
2/11/2020			<0.1	<0.1	0.0912 (J)		
2/12/2020	<0.1	0.0566 (J)				0.108	<0.1
9/8/2020			<0.1	<0.1			0.097 (J)
9/9/2020	0.0644 (J)	0.0748 (J)			0.118	0.14	
4/13/2021	<0.1	0.069 (J)	<0.1	<0.1	0.129	0.119	0.0602 (J)

Time Series

Constituent: Lead (mg/L) Analysis Run 6/9/2021 2:41 PM

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			<0.000203	<0.000203			
3/24/2016	<0.000203	<0.000203			<0.000203		
5/10/2016	<0.000203			<0.000203	<0.000203		
5/11/2016		<0.000203	<0.000203				
7/5/2016	<0.000203					<0.000203	
7/6/2016		<0.000203	<0.000203	<0.000203	<0.000203		<0.000203
8/23/2016						<0.000203	<0.000203
9/6/2016	<0.000203	<0.000203		<0.000203	<0.000203		
9/7/2016			<0.000203			<0.000203	<0.000203
11/8/2016	<0.000203				<0.000203	<0.000203	<0.000203
11/9/2016		<0.000203	<0.000203	<0.000203			
1/3/2017						<0.000203	<0.000203
2/20/2017							<0.000203
2/21/2017		<0.000203	<0.000203	<0.000203		<0.000203	
2/22/2017	<0.000203				<0.000203		
5/31/2017	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
7/5/2017	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
2/5/2018	<0.000203			<0.000203	<0.000203		
2/6/2018		<0.000203	<0.000203			<0.000203	
2/7/2018							<0.000203
6/12/2018	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
10/23/2018	<0.000203			<0.000203	<0.000203	<0.000203	<0.000203
10/24/2018		<0.000203	<0.000203				
5/21/2019	<0.000203	<0.000203	<0.000203	<0.000203	0.00228 (J)		
5/22/2019						<0.000203	<0.000203
9/3/2019		<0.000203	<0.000203				
9/4/2019	<0.000203			<0.000203	<0.000203	<0.000203	<0.000203
2/12/2020	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
9/8/2020		<0.000203					
9/9/2020	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
4/13/2021	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203

Time Series

Constituent: Lead (mg/L) Analysis Run 6/9/2021 2:41 PM

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	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		<0.000203
3/24/2016						<0.000203	
5/10/2016	<0.000203	<0.000203					
5/11/2016			<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
7/5/2016	<0.000203						
7/6/2016		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
9/6/2016	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203	
9/7/2016		<0.000203					<0.000203
11/8/2016	<0.000203	<0.000203	<0.000203	<0.000203	0.00229 (J)	<0.000203	<0.000203
2/20/2017		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
2/21/2017	<0.000203						<0.000203
5/30/2017			<0.000203	<0.000203		<0.000203	<0.000203
5/31/2017	<0.000203	<0.000203			<0.000203		
7/5/2017	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
2/5/2018	<0.000203						
2/6/2018		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
6/11/2018			<0.000203	<0.000203	<0.000203		
6/12/2018	<0.000203	<0.000203				<0.000203	<0.000203
10/22/2018	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
10/23/2018		<0.000203					
5/20/2019	<0.000203		<0.000203	<0.000203	<0.000203		
5/21/2019						<0.000203	<0.000203
5/22/2019		<0.000203					
9/3/2019						<0.000203	<0.000203
9/4/2019	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		
2/11/2020			<0.000203	<0.000203	<0.000203		
2/12/2020	<0.000203	<0.000203				<0.000203	<0.000203
9/8/2020			<0.000203	<0.000203			<0.000203
9/9/2020	<0.000203	<0.000203			<0.000203	<0.000203	
4/13/2021	<0.000203	<0.000203	<0.000203	0.000305	<0.000203	<0.000203	<0.000203

Time Series

Constituent: Lithium (mg/L) Analysis Run 6/9/2021 2:41 PM

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			<0.01999956	<0.01999956			
3/24/2016	<0.01999956	<0.01999956			<0.01999956		
5/10/2016	<0.01999956			<0.01999956	<0.01999956		
5/11/2016		<0.01999956	<0.01999956				
7/5/2016	<0.01999956					<0.01999956	
7/6/2016		<0.01999956	<0.01999956	<0.01999956	<0.01999956		<0.01999956
8/23/2016						<0.01999956	<0.01999956
9/6/2016	<0.01999956	<0.01999956		<0.01999956	<0.01999956		
9/7/2016			<0.01999956			<0.01999956	<0.01999956
11/8/2016	<0.01999956				<0.01999956	<0.01999956	<0.01999956
11/9/2016		<0.01999956	<0.01999956	<0.01999956			
1/3/2017						<0.01999956	<0.01999956
2/20/2017							<0.01999956
2/21/2017		<0.01999956	<0.01999956	<0.01999956		<0.01999956	
2/22/2017	<0.01999956				<0.01999956		
5/31/2017	<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956
7/5/2017	<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956
2/5/2018	<0.01999956			<0.01999956	<0.01999956		
2/6/2018		<0.01999956	<0.01999956			<0.01999956	
2/7/2018							<0.01999956
6/12/2018	<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956
10/23/2018	<0.01999956			<0.01999956	<0.01999956	<0.01999956	<0.01999956
10/24/2018		<0.01999956	<0.01999956				
5/21/2019	<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956		
5/22/2019						<0.01999956	<0.01999956
9/3/2019		<0.01999956	<0.01999956				
9/4/2019	<0.01999956			<0.01999956	<0.01999956	<0.01999956	<0.01999956
2/12/2020	<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956
9/8/2020		<0.01999956					
9/9/2020	0.0101 (J)		<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956
4/13/2021	0.00953 (J)	<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956

Time Series

Constituent: Lithium (mg/L) Analysis Run 6/9/2021 2:41 PM

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	<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956		<0.01999956
3/24/2016						<0.01999956	
5/10/2016	<0.01999956	<0.01999956					
5/11/2016			<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956
7/5/2016	<0.01999956						
7/6/2016		<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956
9/6/2016	<0.01999956		<0.01999956	<0.01999956	<0.01999956	<0.01999956	
9/7/2016		<0.01999956					<0.01999956
11/8/2016	<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956
2/20/2017		<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956	
2/21/2017	<0.01999956						<0.01999956
5/30/2017			<0.01999956	<0.01999956		<0.01999956	<0.01999956
5/31/2017	<0.01999956	<0.01999956			<0.01999956		
7/5/2017	<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956
2/5/2018	<0.01999956						
2/6/2018		<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956
6/11/2018			<0.01999956	<0.01999956	<0.01999956		
6/12/2018	<0.01999956	<0.01999956				<0.01999956	<0.01999956
10/22/2018	<0.01999956		<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956
10/23/2018		<0.01999956					
5/20/2019	<0.01999956		<0.01999956	<0.01999956	<0.01999956		
5/21/2019						<0.01999956	<0.01999956
5/22/2019		<0.01999956					
9/3/2019						<0.01999956	<0.01999956
9/4/2019	<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956		
2/11/2020			<0.01999956	<0.01999956	<0.01999956		
2/12/2020	<0.01999956	<0.01999956				<0.01999956	<0.01999956
9/8/2020			<0.01999956	<0.01999956			<0.01999956
9/9/2020	<0.01999956	<0.01999956			<0.01999956	<0.01999956	
4/13/2021	<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956	<0.01999956

Time Series

Constituent: Mercury (mg/L) Analysis Run 6/9/2021 2:41 PM

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

Time Series

Constituent: Mercury (mg/L) Analysis Run 6/9/2021 2:41 PM

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

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/9/2021 2:41 PM

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			<0.000203	<0.000203			
3/24/2016	0.0241	<0.000203			<0.000203		
5/10/2016	0.0239			<0.000203	<0.000203		
5/11/2016		<0.000203	<0.000203				
7/5/2016	0.0176					<0.000203	
7/6/2016		<0.000203	<0.000203	<0.000203	<0.000203		<0.000203
8/23/2016						<0.000203	<0.000203
9/6/2016	0.0138	<0.000203		<0.000203	<0.000203		
9/7/2016			<0.000203			<0.000203	<0.000203
11/8/2016	0.0102				<0.000203	<0.000203	<0.000203
11/9/2016		<0.000203	<0.000203	<0.000203			
1/3/2017						<0.000203	<0.000203
2/20/2017							<0.000203
2/21/2017		<0.000203	<0.000203	<0.000203		<0.000203	
2/22/2017	0.0102				<0.000203		
5/31/2017	0.00805 (J)	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
7/5/2017	0.009 (J)	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
2/5/2018	0.00908 (J)			<0.000203	<0.000203		
2/6/2018		<0.000203	<0.000203			<0.000203	
2/7/2018							<0.000203
6/12/2018	0.00655 (J)	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
10/23/2018	0.006 (J)			<0.000203	<0.000203	<0.000203	<0.000203
10/24/2018		<0.000203	<0.000203				
5/21/2019	0.00504 (J)	<0.000203	<0.000203	<0.000203	<0.000203		
5/22/2019						<0.000203	<0.000203
9/3/2019		<0.000203	<0.000203				
9/4/2019	0.00504 (J)			<0.000203	<0.000203	<0.000203	<0.000203
2/12/2020	0.00448 (J)	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
9/8/2020		<0.000203					
9/9/2020	0.00405 (J)		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
4/13/2021	0.00353	<0.000203	<0.000203	0.000298	0.000175 (J)	0.000334	<0.000203

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/9/2021 2:41 PM

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	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		<0.000203
3/24/2016						0.00317 (J)	
5/10/2016	<0.000203	<0.000203					
5/11/2016			<0.000203	<0.000203	<0.000203	0.00424 (J)	<0.000203
7/5/2016	<0.000203						
7/6/2016		<0.000203	<0.000203	<0.000203	<0.000203	0.00489 (J)	<0.000203
9/6/2016	<0.000203		<0.000203	<0.000203	<0.000203	0.00466 (J)	
9/7/2016		<0.000203					<0.000203
11/8/2016	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	0.00422 (J)	<0.000203
2/20/2017		<0.000203	<0.000203	<0.000203	<0.000203	0.00422 (J)	
2/21/2017	<0.000203						<0.000203
5/30/2017			<0.000203	<0.000203		0.00344 (J)	<0.000203
5/31/2017	<0.000203	<0.000203			<0.000203		
7/5/2017	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	0.00369 (J)	<0.000203
2/5/2018	<0.000203						
2/6/2018		<0.000203	<0.000203	<0.000203	<0.000203	0.00331 (J)	<0.000203
6/11/2018			<0.000203	<0.000203	<0.000203		
6/12/2018	<0.000203	<0.000203				0.00325 (J)	<0.000203
10/22/2018	<0.000203		<0.000203	<0.000203	<0.000203	0.00359 (J)	<0.000203
10/23/2018		<0.000203					
5/20/2019	<0.000203		<0.000203	<0.000203	<0.000203		
5/21/2019						0.00379 (J)	<0.000203
5/22/2019		<0.000203					
9/3/2019						0.00437 (J)	<0.000203
9/4/2019	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		
2/11/2020			<0.000203	<0.000203	<0.000203		
2/12/2020	<0.000203	<0.000203				0.00322 (J)	<0.000203
9/8/2020			<0.000203	<0.000203			<0.000203
9/9/2020	<0.000203	<0.000203			<0.000203	0.00418 (J)	
4/13/2021	0.000307	7.49E-05 (J)	9.4E-05 (J)	<0.000203	0.000276	0.00318	0.000207

Time Series

Constituent: pH (pH) Analysis Run 6/9/2021 2:41 PM

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

Time Series

Constituent: pH (pH) Analysis Run 6/9/2021 2:41 PM

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

Time Series

Constituent: Selenium (mg/L) Analysis Run 6/9/2021 2:41 PM

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			<0.001015	<0.001015			
3/24/2016	<0.001015	<0.001015			<0.001015		
5/10/2016	<0.001015			<0.001015	<0.001015		
5/11/2016		<0.001015	<0.001015				
7/5/2016	<0.001015					<0.001015	
7/6/2016		<0.001015	<0.001015	<0.001015	<0.001015		<0.001015
8/23/2016						<0.001015	<0.001015
9/6/2016	<0.001015	<0.001015		<0.001015	<0.001015		
9/7/2016			<0.001015			<0.001015	<0.001015
11/8/2016	<0.001015				<0.001015	<0.001015	<0.001015
11/9/2016		<0.001015	<0.001015	<0.001015			
1/3/2017						<0.001015	<0.001015
2/20/2017							<0.001015
2/21/2017		<0.001015	<0.001015	<0.001015		<0.001015	
2/22/2017	<0.001015				<0.001015		
5/31/2017	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
7/5/2017	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
2/5/2018	<0.001015			<0.001015	<0.001015		
2/6/2018		<0.001015	<0.001015			<0.001015	
2/7/2018							<0.001015
6/12/2018	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
10/23/2018	<0.001015			<0.001015	<0.001015	<0.001015	<0.001015
10/24/2018		<0.001015	<0.001015				
5/21/2019	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
5/22/2019						<0.001015	<0.001015
9/3/2019		<0.001015	<0.001015				
9/4/2019	<0.001015			<0.001015	<0.001015	<0.001015	<0.001015
2/12/2020	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
9/8/2020		<0.001015					
9/9/2020	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
4/13/2021	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015

Time Series

Constituent: Selenium (mg/L) Analysis Run 6/9/2021 2:41 PM

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	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		<0.001015
3/24/2016						<0.001015	
5/10/2016	<0.001015	<0.001015					
5/11/2016			<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
7/5/2016	<0.001015						
7/6/2016		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
9/6/2016	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015	
9/7/2016		<0.001015					<0.001015
11/8/2016	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
2/20/2017		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
2/21/2017	<0.001015						<0.001015
5/30/2017			<0.001015	<0.001015		<0.001015	<0.001015
5/31/2017	<0.001015	<0.001015			<0.001015		
7/5/2017	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
2/5/2018	<0.001015						
2/6/2018		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
6/11/2018			<0.001015	<0.001015	<0.001015		
6/12/2018	<0.001015	<0.001015				<0.001015	<0.001015
10/22/2018	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
10/23/2018		<0.001015					
5/20/2019	<0.001015		<0.001015	<0.001015	<0.001015		
5/21/2019						<0.001015	<0.001015
5/22/2019		<0.001015					
9/3/2019						<0.001015	<0.001015
9/4/2019	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
2/11/2020			<0.001015	<0.001015	<0.001015		
2/12/2020	<0.001015	<0.001015				<0.001015	<0.001015
9/8/2020			<0.001015	<0.001015			<0.001015
9/9/2020	<0.001015	<0.001015			<0.001015	<0.001015	
4/13/2021	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015

Time Series

Constituent: Sulfate (mg/L) Analysis Run 6/9/2021 2:41 PM

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

Time Series

Constituent: Sulfate (mg/L) Analysis Run 6/9/2021 2:41 PM

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

Time Series

Constituent: TDS (mg/L) Analysis Run 6/9/2021 2:41 PM

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

Time Series

Constituent: TDS (mg/L) Analysis Run 6/9/2021 2:41 PM

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

Time Series

Constituent: Thallium (mg/L) Analysis Run 6/9/2021 2:41 PM

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			<0.000203	<0.000203			
3/24/2016	<0.000203	<0.000203			<0.000203		
5/10/2016	<0.000203			<0.000203	<0.000203		
5/11/2016		<0.000203	<0.000203				
7/5/2016	<0.000203					<0.000203	
7/6/2016		<0.000203	<0.000203	<0.000203	<0.000203		<0.000203
8/23/2016						<0.000203	<0.000203
9/6/2016	<0.000203	<0.000203		<0.000203	<0.000203		
9/7/2016			<0.000203			<0.000203	<0.000203
11/8/2016	<0.000203				<0.000203	<0.000203	<0.000203
11/9/2016		<0.000203	<0.000203	<0.000203			
1/3/2017						<0.000203	<0.000203
2/20/2017							<0.000203
2/21/2017		<0.000203	<0.000203	<0.000203		<0.000203	
2/22/2017	<0.000203				<0.000203		
5/31/2017	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
7/5/2017	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
2/5/2018	<0.000203			<0.000203	<0.000203		
2/6/2018		<0.000203	<0.000203			<0.000203	
2/7/2018							<0.000203
6/12/2018	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
10/23/2018	<0.000203			<0.000203	<0.000203	<0.000203	<0.000203
10/24/2018		<0.000203	<0.000203				
5/21/2019	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		
5/22/2019						<0.000203	<0.000203
9/3/2019		<0.000203	<0.000203				
9/4/2019	<0.000203			<0.000203	<0.000203	<0.000203	<0.000203
2/12/2020	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
9/8/2020		<0.000203					
9/9/2020	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
4/13/2021	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203

Time Series

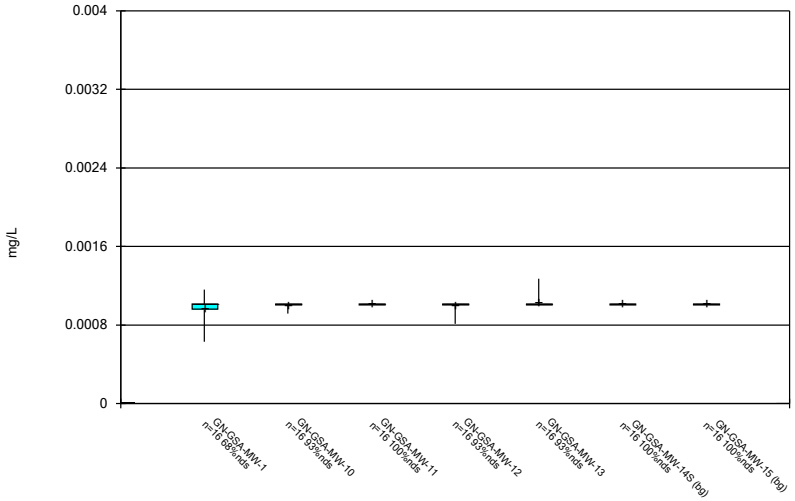
Constituent: Thallium (mg/L) Analysis Run 6/9/2021 2:41 PM

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	<0.000203	0.000228 (J)	<0.000203	<0.000203	<0.000203		<0.000203
3/24/2016						<0.000203	
5/10/2016	<0.000203	<0.000203					
5/11/2016			<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
7/5/2016	<0.000203						
7/6/2016		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
9/6/2016	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203	
9/7/2016		<0.000203					<0.000203
11/8/2016	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
2/20/2017		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
2/21/2017	<0.000203						<0.000203
5/30/2017			<0.000203	<0.000203		<0.000203	<0.000203
5/31/2017	<0.000203	<0.000203			<0.000203		
7/5/2017	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
2/5/2018	<0.000203						
2/6/2018		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
6/11/2018			<0.000203	<0.000203	<0.000203		
6/12/2018	<0.000203	<0.000203				<0.000203	<0.000203
10/22/2018	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
10/23/2018		<0.000203					
5/20/2019	<0.000203		<0.000203	<0.000203	<0.000203		
5/21/2019						<0.000203	<0.000203
5/22/2019		<0.000203					
9/3/2019						<0.000203	<0.000203
9/4/2019	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		
2/11/2020			<0.000203	<0.000203	<0.000203		
2/12/2020	<0.000203	<0.000203				<0.000203	<0.000203
9/8/2020			<0.000203	<0.000203			<0.000203
9/9/2020	<0.000203	<0.000203			<0.000203	<0.000203	
4/13/2021	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203

FIGURE B.

Box & Whiskers Plot

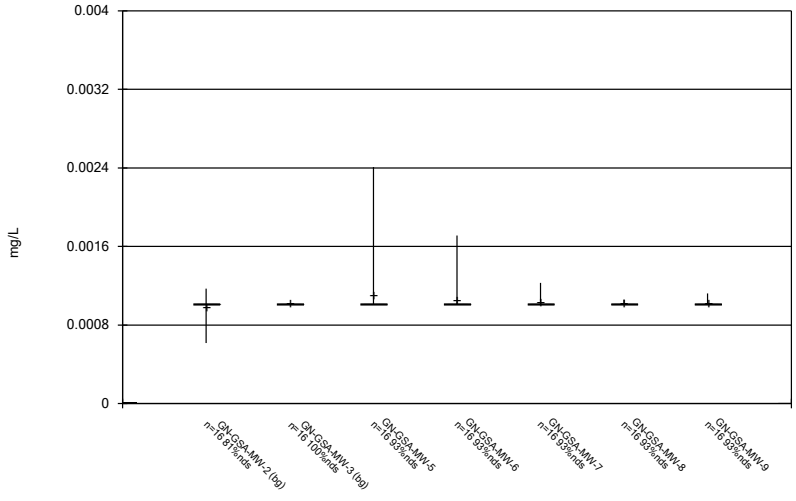


Constituent: Antimony Analysis Run 6/9/2021 2:41 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

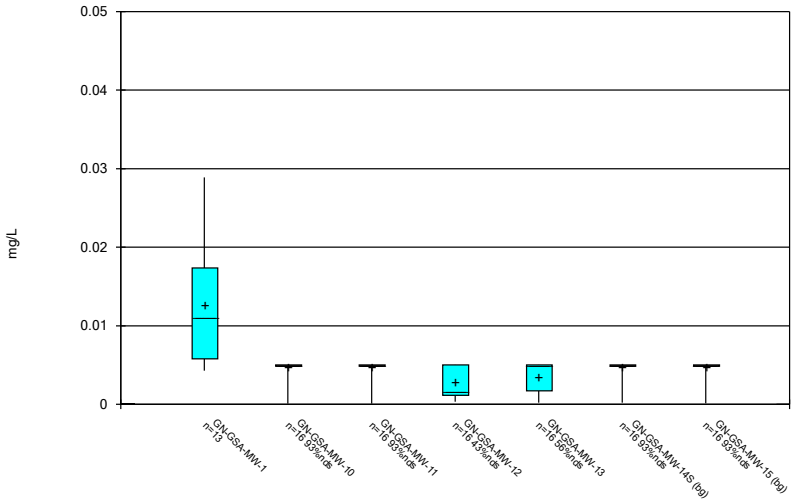


Constituent: Antimony Analysis Run 6/9/2021 2:41 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

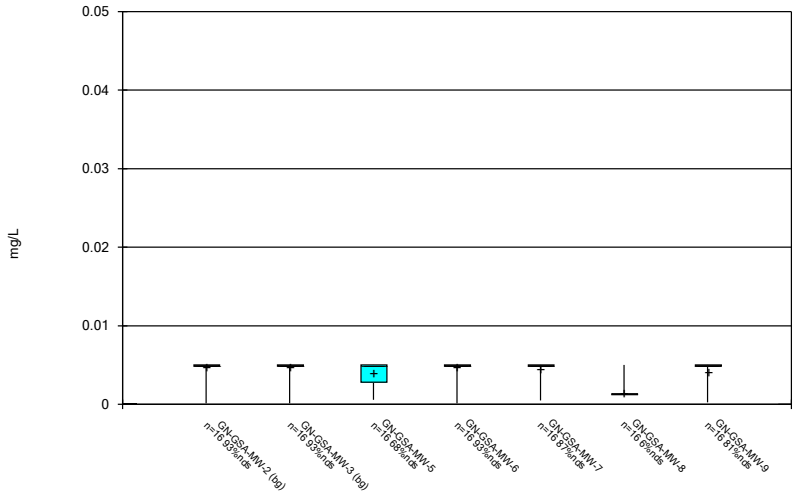


Constituent: Arsenic Analysis Run 6/9/2021 2:41 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

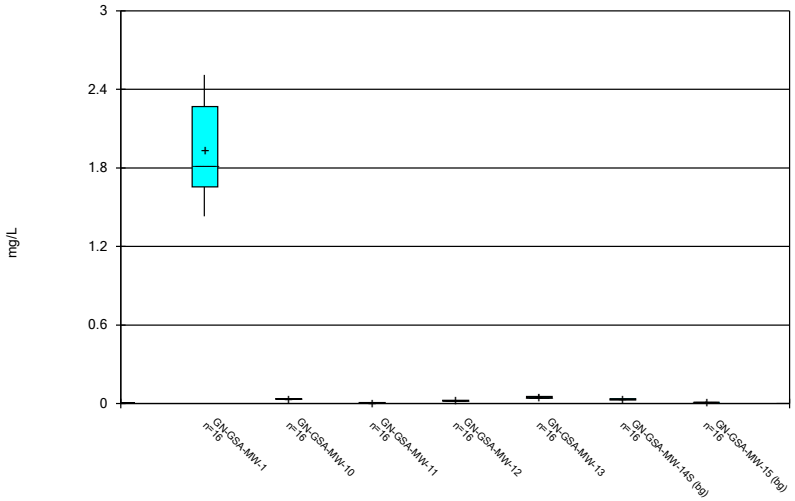


Constituent: Arsenic Analysis Run 6/9/2021 2:41 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

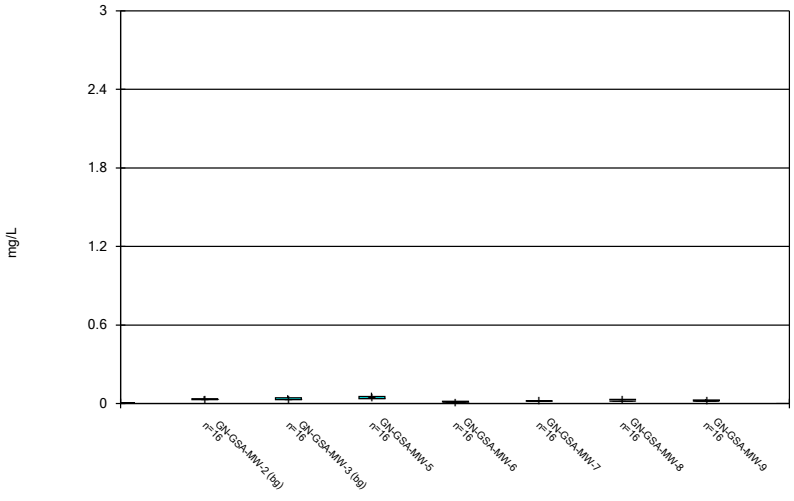


Constituent: Barium Analysis Run 6/9/2021 2:41 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

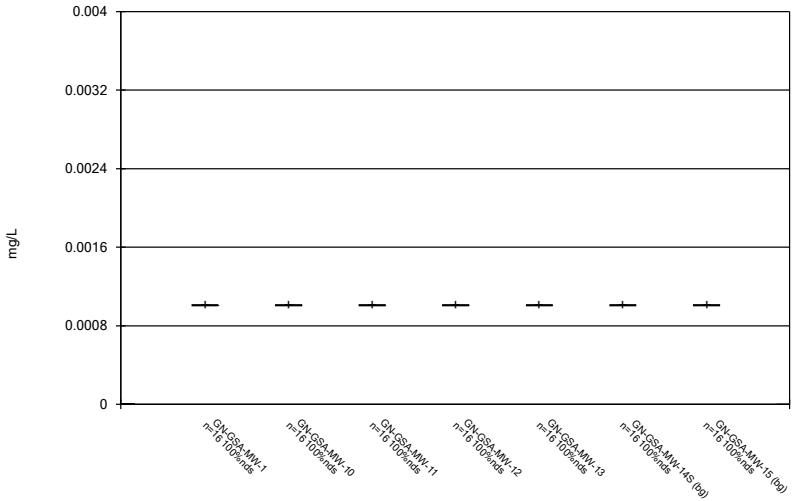


Constituent: Barium Analysis Run 6/9/2021 2:42 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

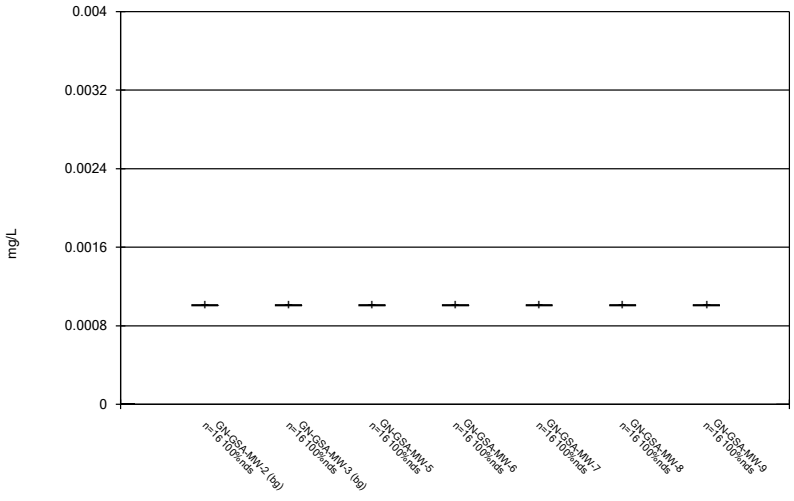


Constituent: Beryllium Analysis Run 6/9/2021 2:42 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

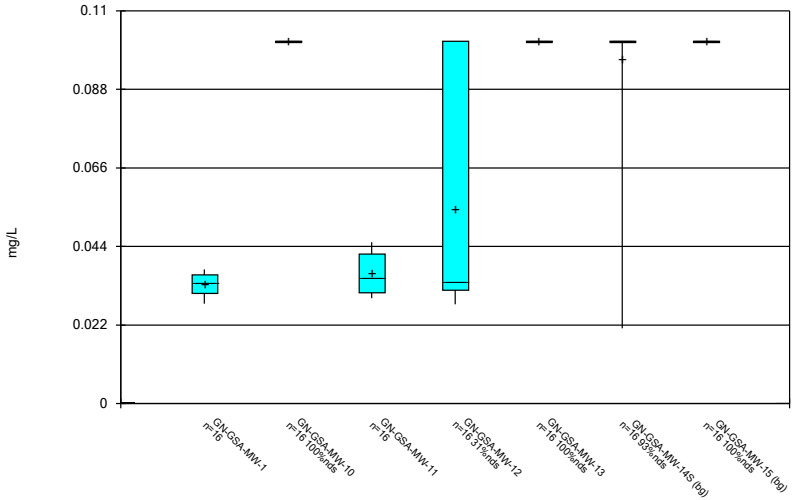
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 6/9/2021 2:42 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

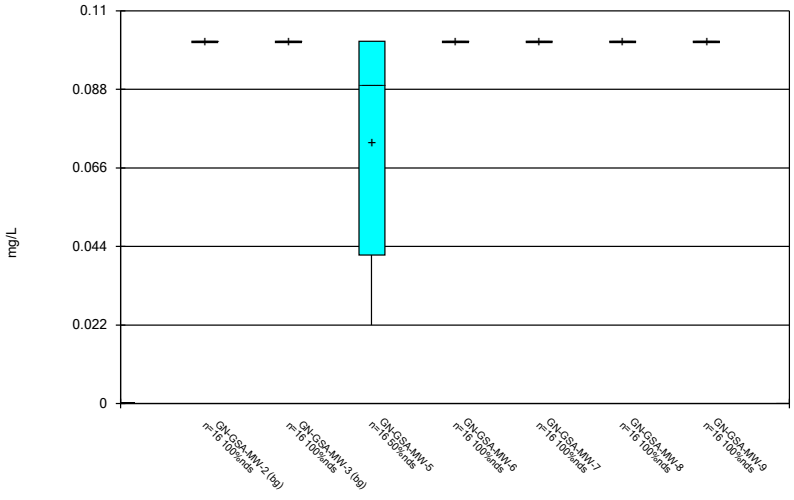
Box & Whiskers Plot



Constituent: Boron Analysis Run 6/9/2021 2:42 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

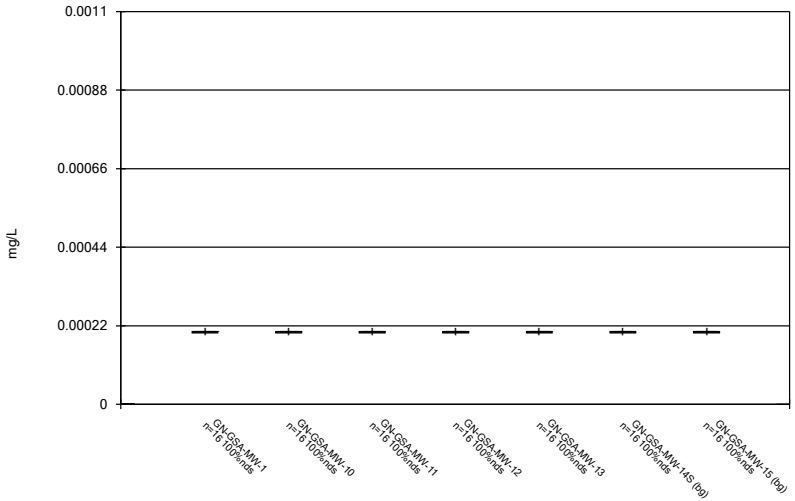
Box & Whiskers Plot



Constituent: Boron Analysis Run 6/9/2021 2:42 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

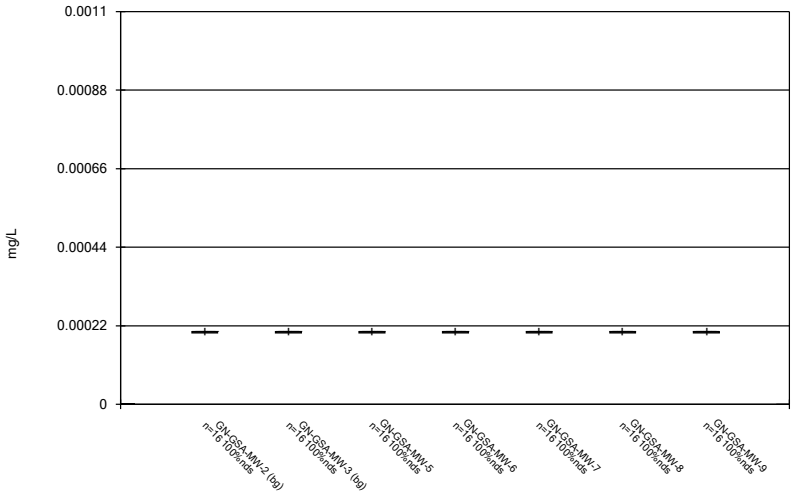
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 6/9/2021 2:42 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

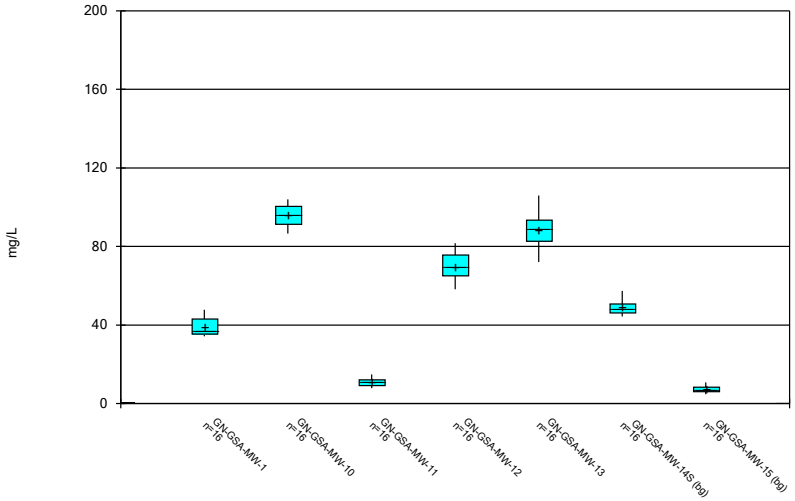
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 6/9/2021 2:42 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Box & Whiskers Plot



Constituent: Calcium Analysis Run 6/9/2021 2:42 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

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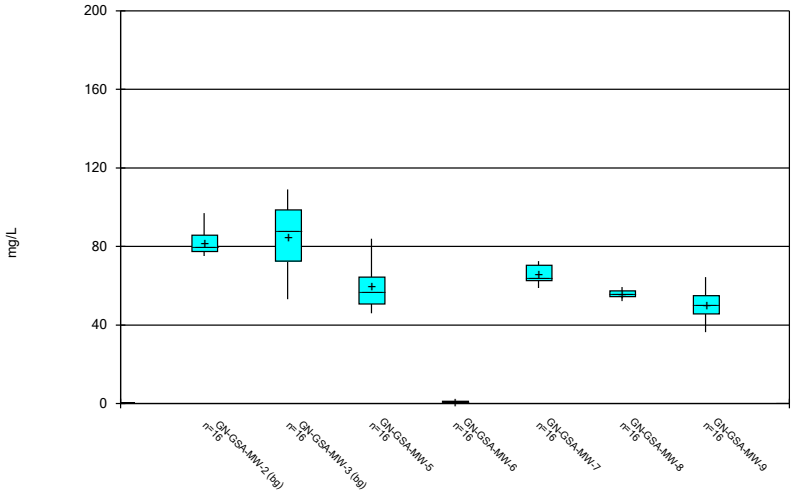
Box & Whiskers Plot

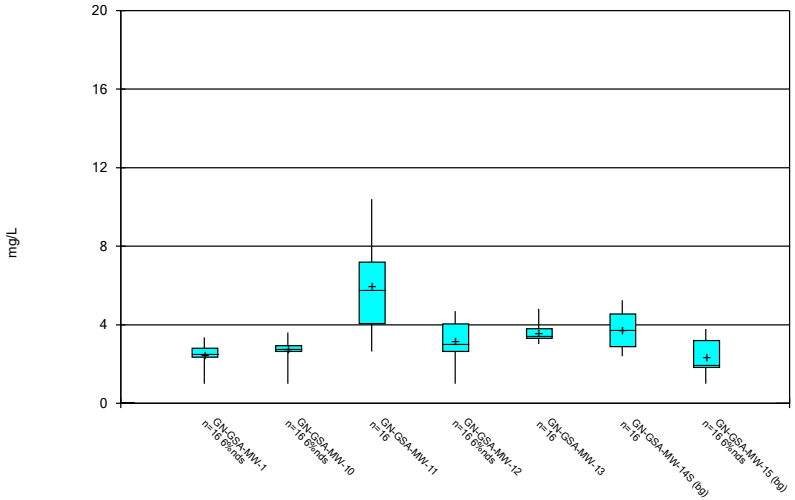


Constituent: Calcium Analysis Run 6/9/2021 2:42 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

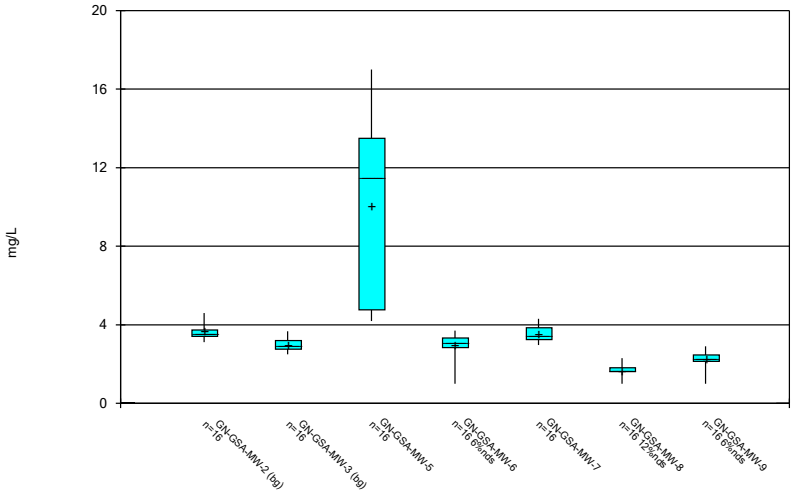


Constituent: Chloride Analysis Run 6/9/2021 2:42 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

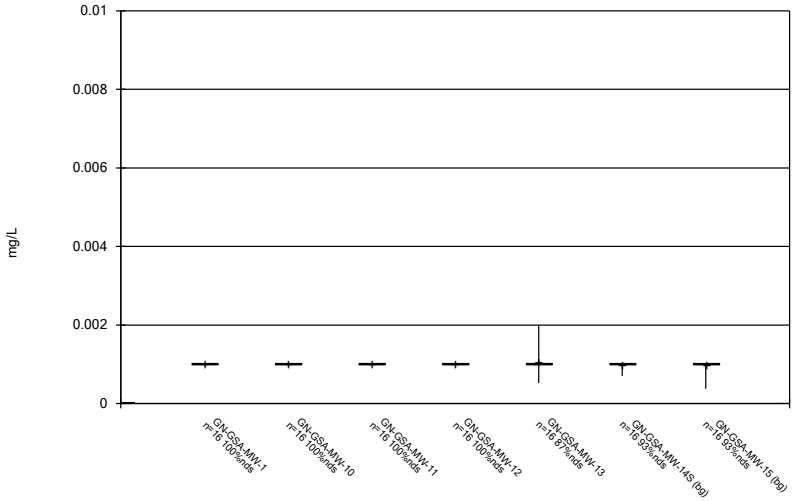


Constituent: Chloride Analysis Run 6/9/2021 2:42 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

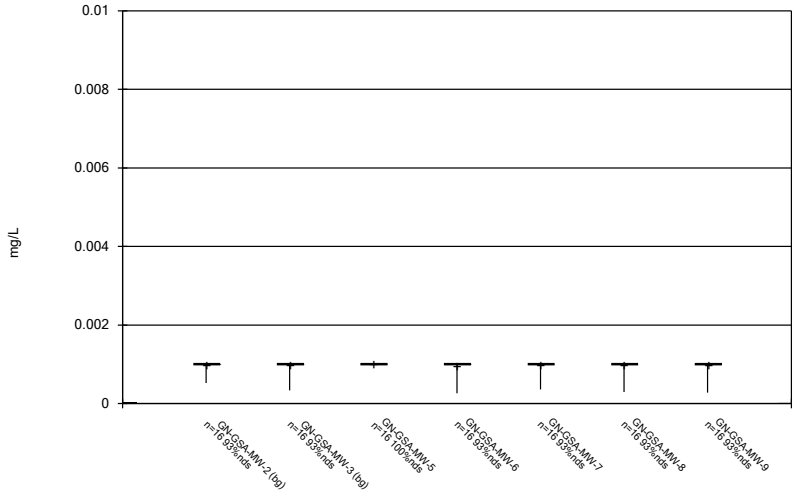


Constituent: Chromium Analysis Run 6/9/2021 2:42 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

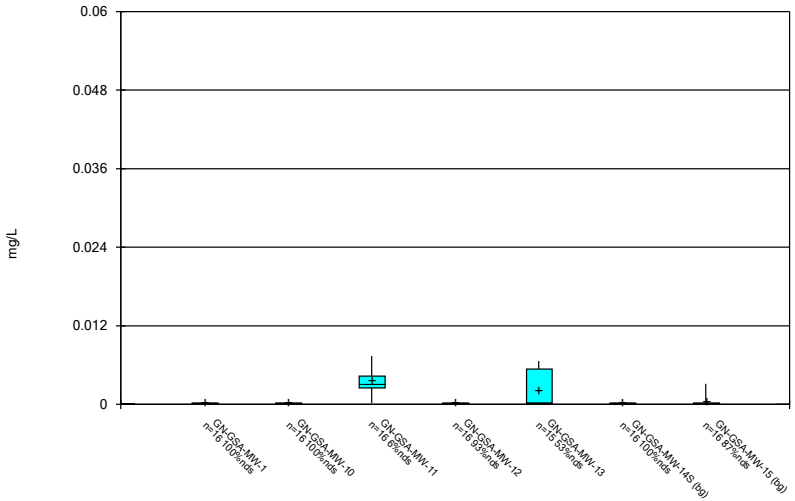


Constituent: Chromium Analysis Run 6/9/2021 2:42 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

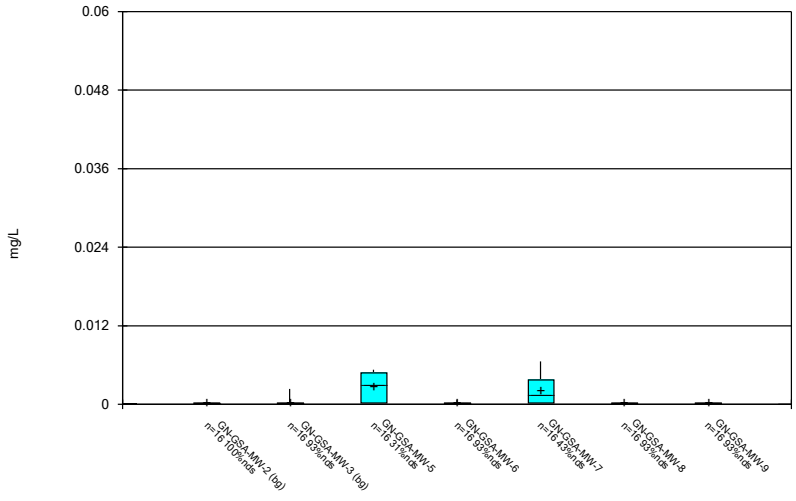


Constituent: Cobalt Analysis Run 6/9/2021 2:42 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

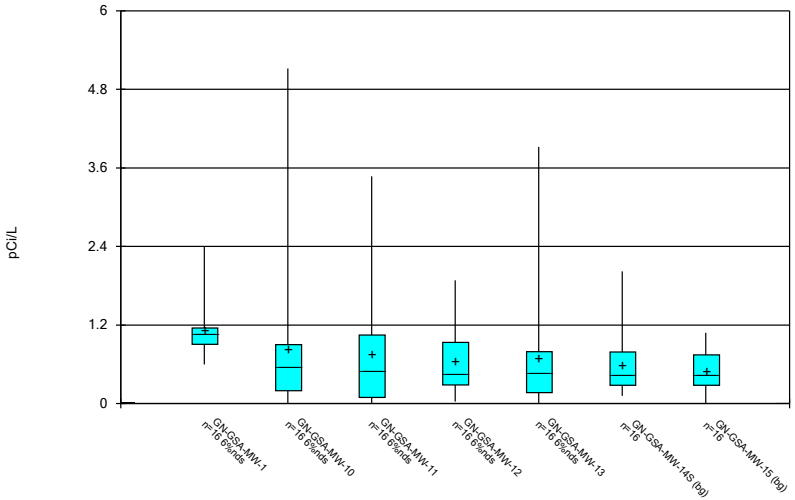
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 6/9/2021 2:42 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Box & Whiskers Plot

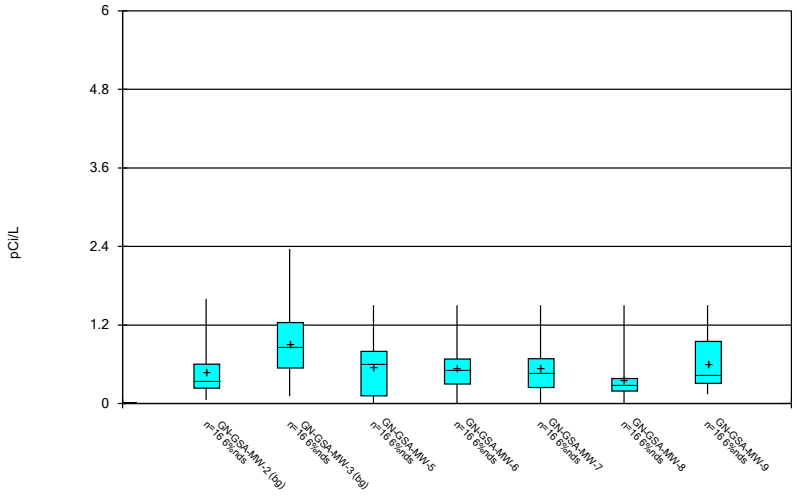


Constituent: Combined Radium 226 + 228 Analysis Run 6/9/2021 2:42 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

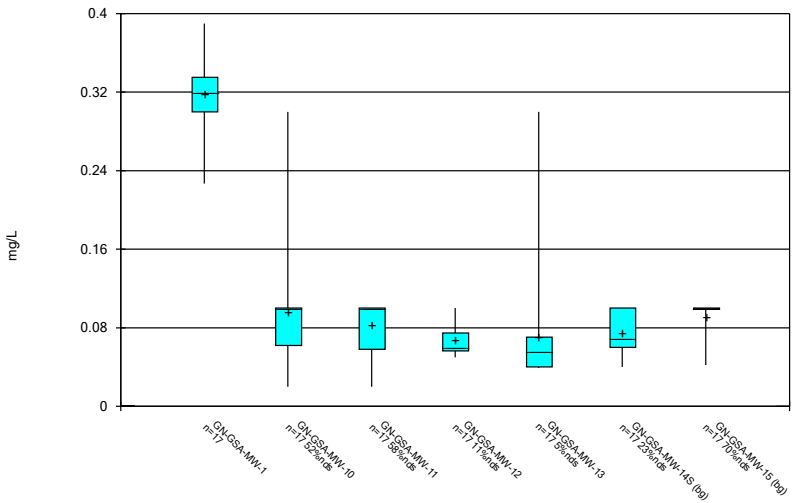


Constituent: Combined Radium 226 + 228 Analysis Run 6/9/2021 2:42 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

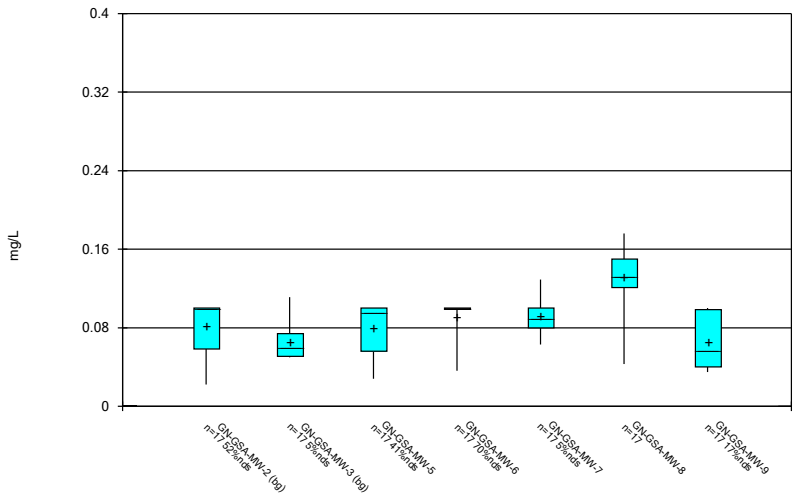


Constituent: Fluoride Analysis Run 6/9/2021 2:42 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

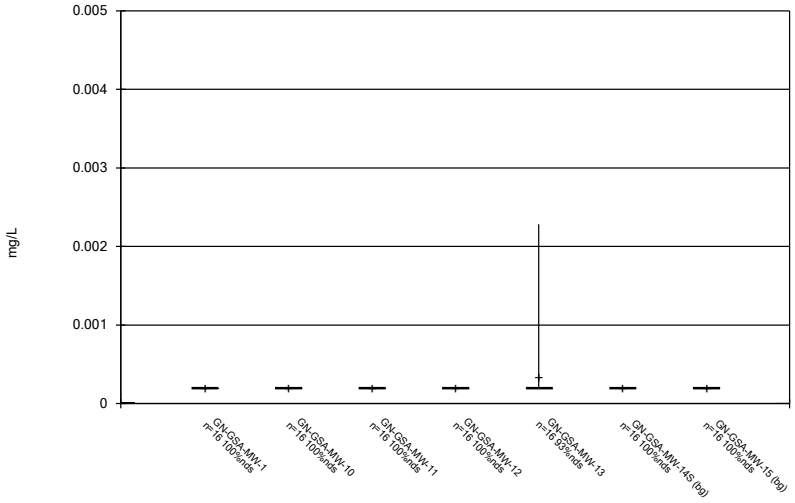
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 6/9/2021 2:42 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Box & Whiskers Plot

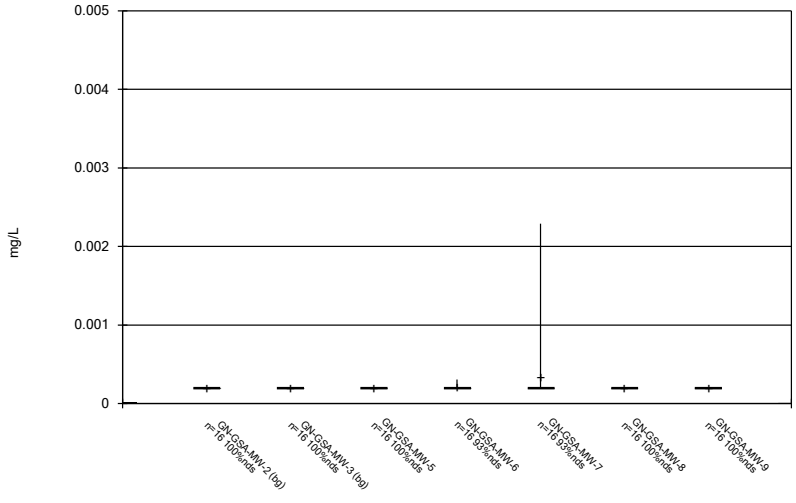


Constituent: Lead Analysis Run 6/9/2021 2:42 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

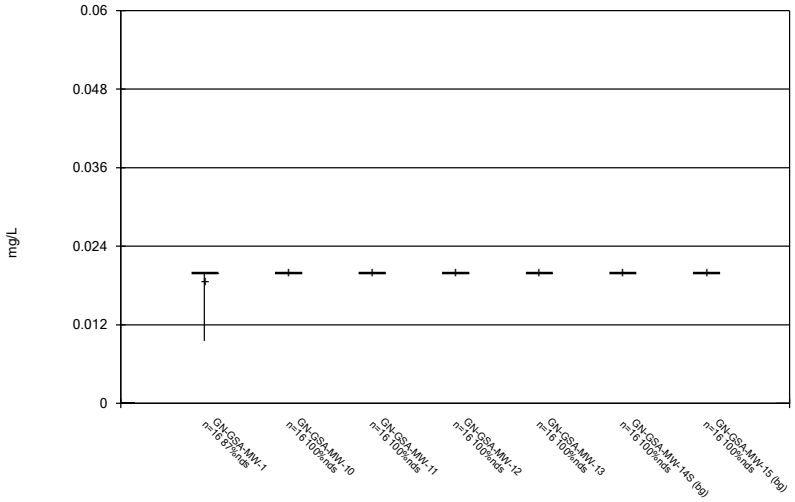


Constituent: Lead Analysis Run 6/9/2021 2:42 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

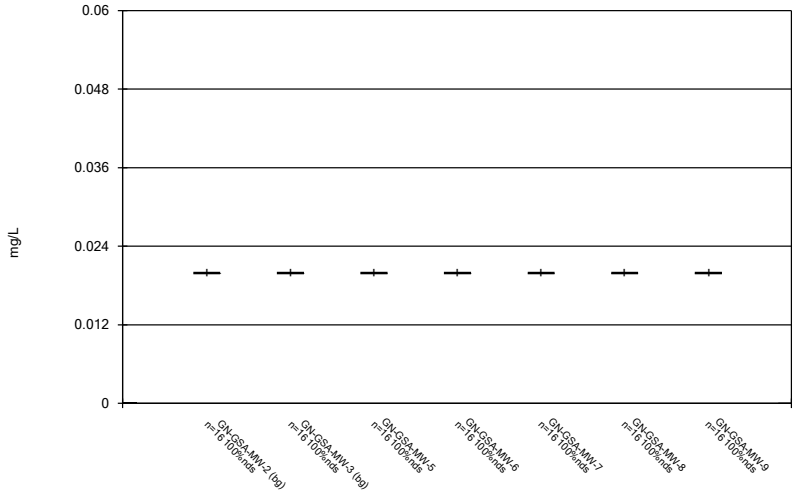


Constituent: Lithium Analysis Run 6/9/2021 2:42 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

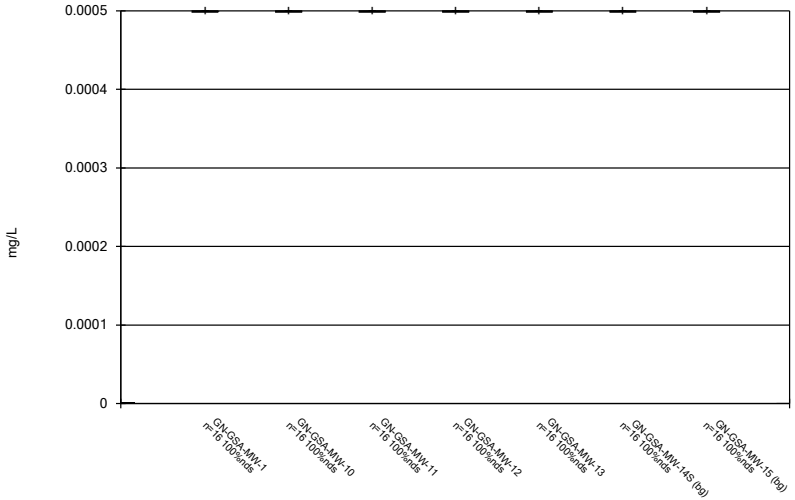
Box & Whiskers Plot



Constituent: Lithium Analysis Run 6/9/2021 2:42 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Box & Whiskers Plot

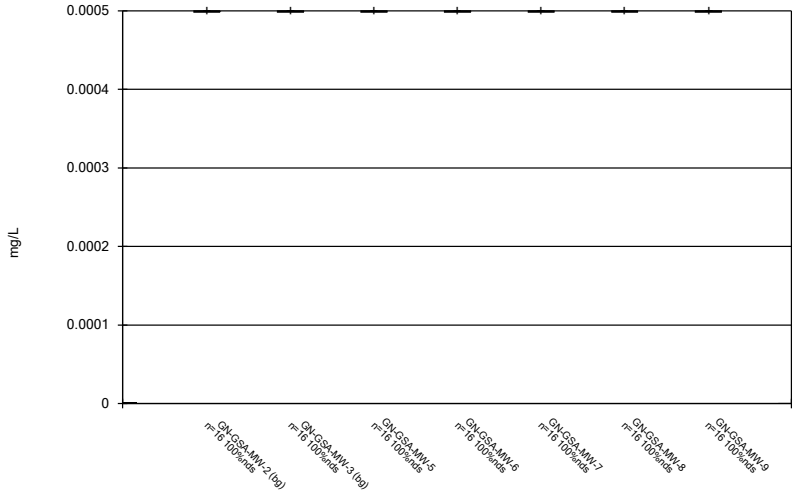


Constituent: Mercury Analysis Run 6/9/2021 2:42 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

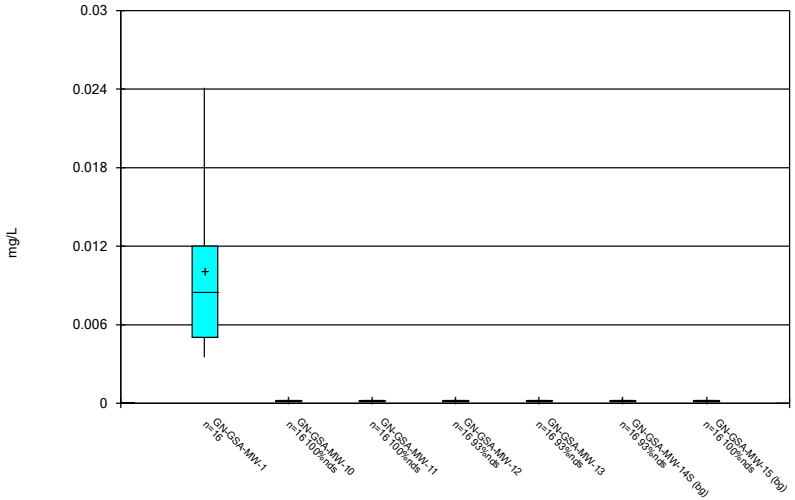


Constituent: Mercury Analysis Run 6/9/2021 2:42 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

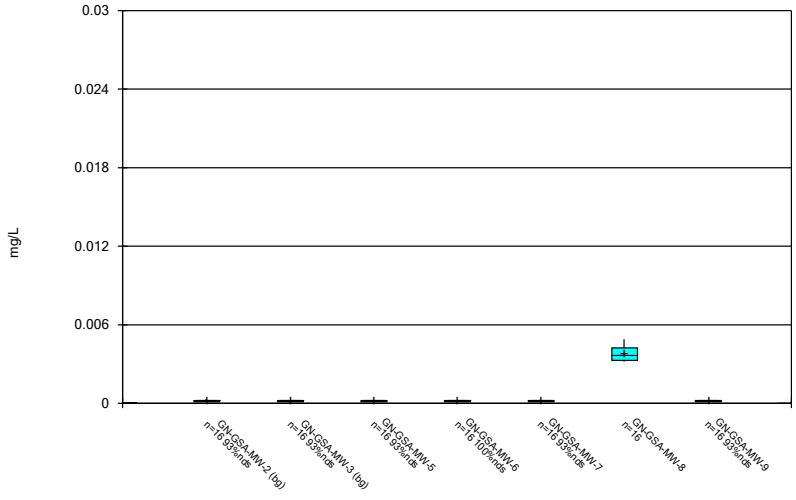


Constituent: Molybdenum Analysis Run 6/9/2021 2:42 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

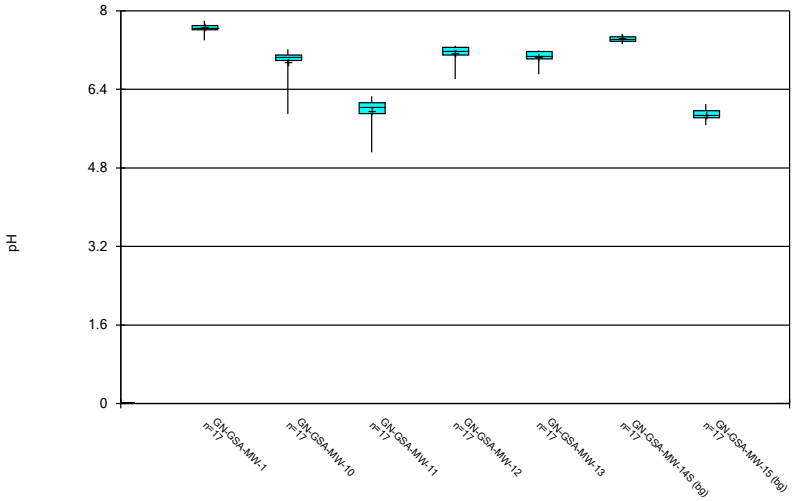
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 6/9/2021 2:42 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Box & Whiskers Plot

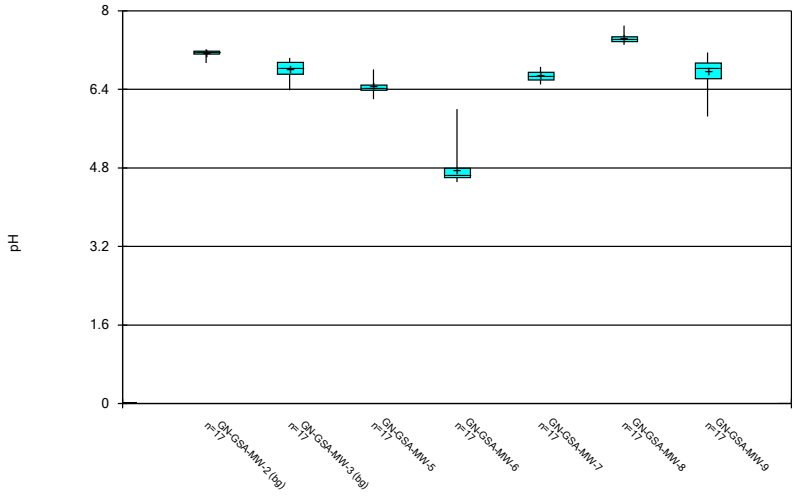


Constituent: pH Analysis Run 6/9/2021 2:42 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

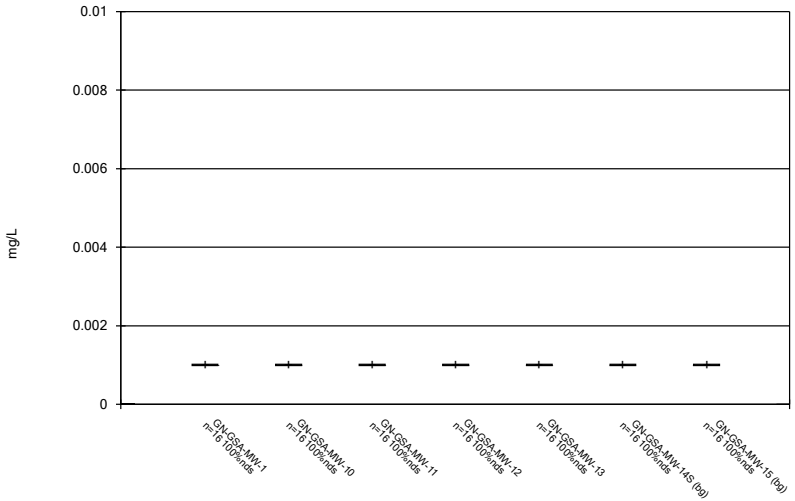


Constituent: pH Analysis Run 6/9/2021 2:42 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

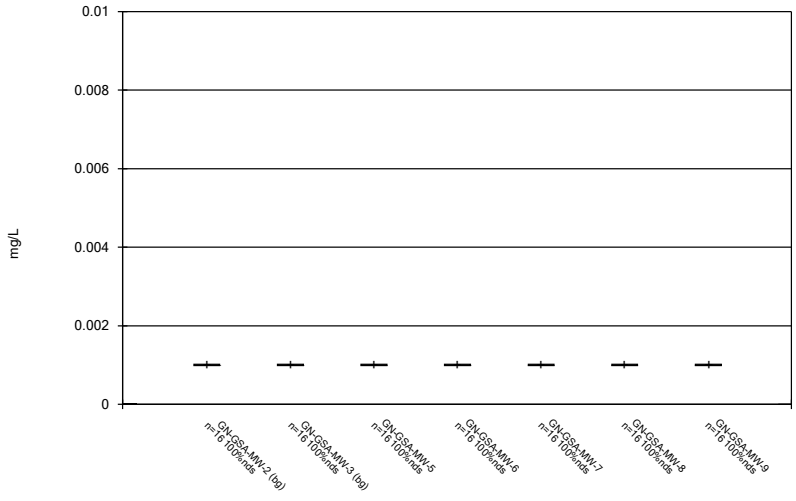


Constituent: Selenium Analysis Run 6/9/2021 2:42 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

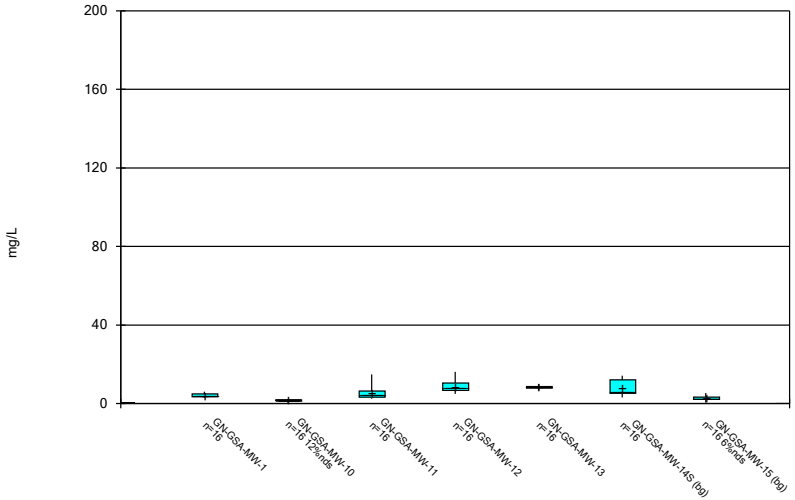
Box & Whiskers Plot



Constituent: Selenium Analysis Run 6/9/2021 2:42 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Box & Whiskers Plot

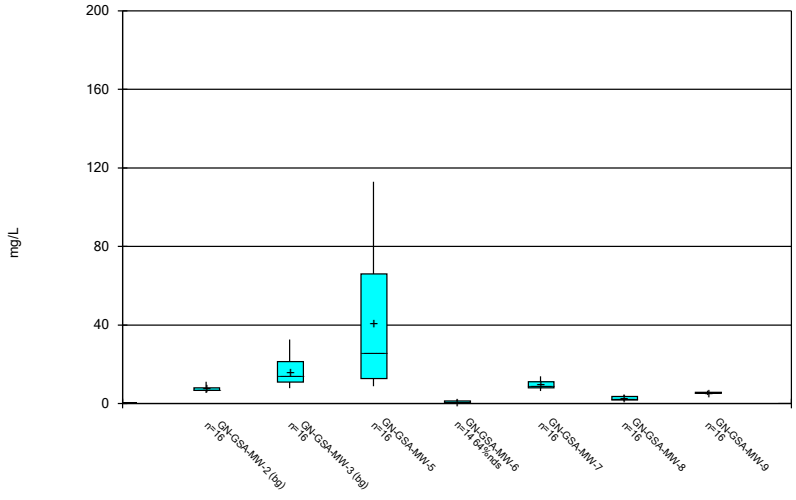


Constituent: Sulfate Analysis Run 6/9/2021 2:42 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

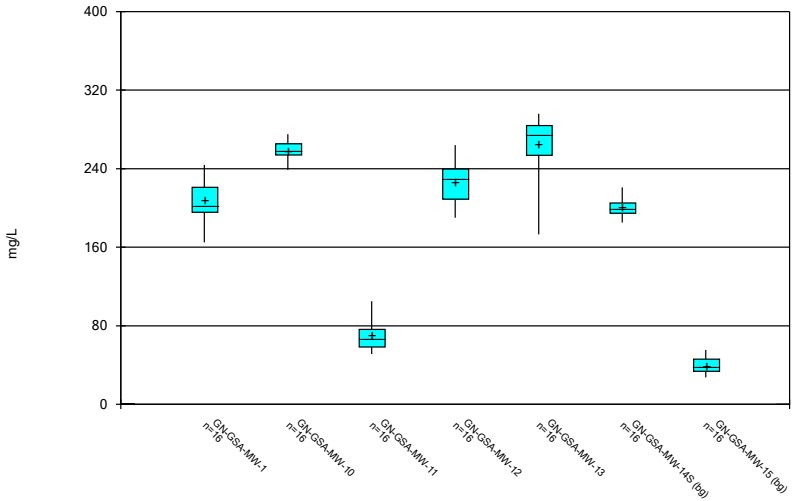


Constituent: Sulfate Analysis Run 6/9/2021 2:42 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

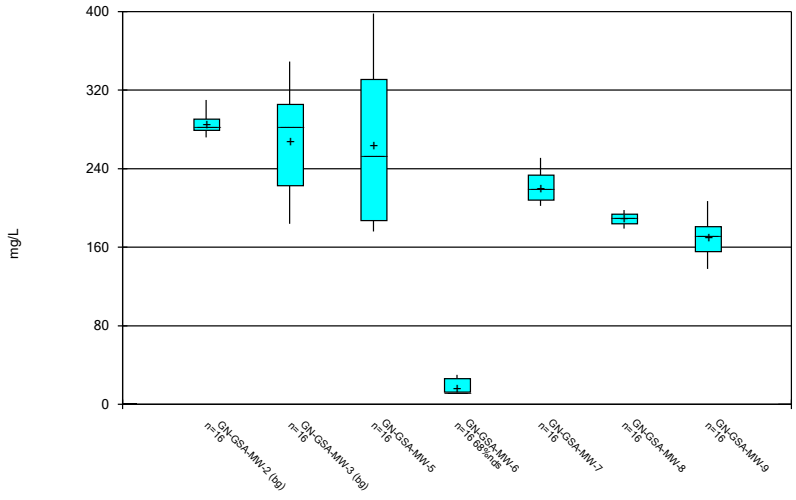


Constituent: TDS Analysis Run 6/9/2021 2:42 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

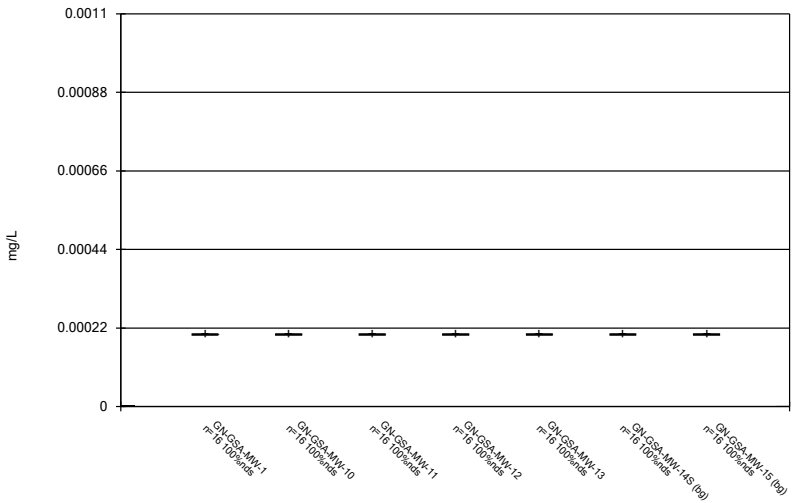
Box & Whiskers Plot



Constituent: TDS Analysis Run 6/9/2021 2:42 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Box & Whiskers Plot

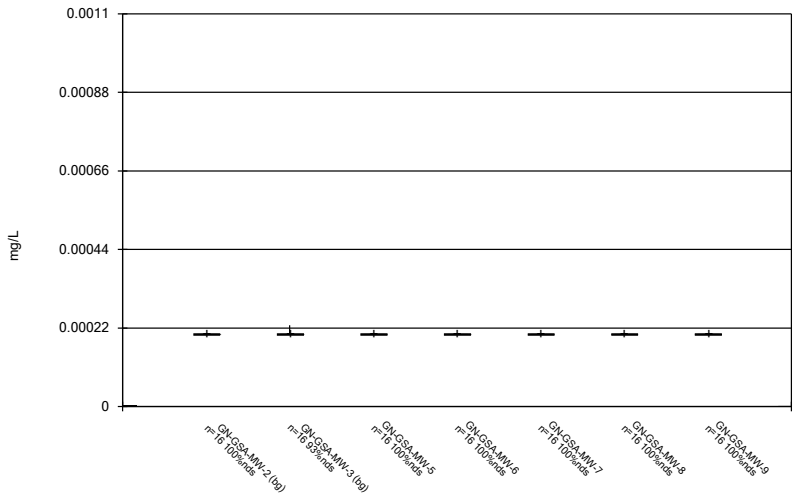


Constituent: Thallium Analysis Run 6/9/2021 2:42 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Thallium Analysis Run 6/9/2021 2:42 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

FIGURE C.

Outlier Summary

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 6/9/2021, 2:44 PM

	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 6/9/2021, 2:51 PM

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**	**39.4**	**n/a**	**4/13/2021**	**44**	**Yes**	**9**	**35.73**	**1.237**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Calcium (mg/L)	**GN-GSA-MW-12**	**81.01**	**n/a**	**4/13/2021**	**81.6**	**Yes**	**12**	**67.28**	**5.286**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Calcium (mg/L)	**GN-GSA-MW-5**	**71.16**	**n/a**	**4/13/2021**	**79.2**	**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**	**4/13/2021**	**9.8**	**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**	**4/13/2021**	**108**	**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**	**4/13/2021**	**4.49**	**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**	**4/13/2021**	**350**	**Yes**	**9**	**203.3**	**30.98**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**

Intrawell Prediction Limits - All Results

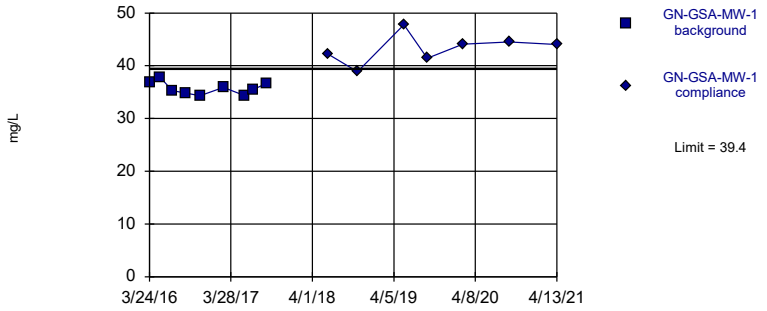
Plant Gaston Client: Southern Company Data: Gaston GSA Printed 6/9/2021, 2:51 PM

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**	**39.4**	**n/a**	**4/13/2021**	**44**	**Yes**	**9**	**35.73**	**1.237**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Calcium (mg/L)	GN-GSA-MW-10	102.2	n/a	4/13/2021	97.1	No	9	92.19	3.387	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-11	16.25	n/a	4/13/2021	12.3	No	12	10.69	2.14	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	**GN-GSA-MW-12**	**81.01**	**n/a**	**4/13/2021**	**81.6**	**Yes**	**12**	**67.28**	**5.286**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Calcium (mg/L)	GN-GSA-MW-13	101.9	n/a	4/13/2021	89.8	No	9	83.12	6.337	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-14S	56.86	n/a	4/13/2021	48.4	No	12	48.44	3.238	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-15	11.31	n/a	4/13/2021	5.17	No	12	7.898	1.312	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-2	98.23	n/a	4/13/2021	77.5	No	12	81.19	6.554	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-3	131.1	n/a	4/13/2021	57.8	No	12	88.88	16.26	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	**GN-GSA-MW-5**	**71.16**	**n/a**	**4/13/2021**	**79.2**	**Yes**	**12**	**54.73**	**6.323**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Calcium (mg/L)	GN-GSA-MW-6	1.591	n/a	4/13/2021	0.505	No	12	0.9401	0.2504	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-7	77.07	n/a	4/13/2021	64.1	No	12	64.91	4.678	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-8	61.91	n/a	4/13/2021	52.2	No	12	56.16	2.214	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-9	68.06	n/a	4/13/2021	43.5	No	12	50.19	6.875	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-1	4.063	n/a	4/13/2021	2.54	No	12	2.508	0.5987	8.333	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-10	4.351	n/a	4/13/2021	3.07	No	12	2.708	0.6322	8.333	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	**GN-GSA-MW-11**	**7.709**	**n/a**	**4/13/2021**	**9.8**	**Yes**	**9**	**4.269**	**1.162**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Chloride (mg/L)	GN-GSA-MW-12	5.735	n/a	4/13/2021	3.97	No	12	3.071	1.025	8.333	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-13	5.051	n/a	4/13/2021	3.56	No	12	3.593	0.561	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-14S	5.904	n/a	4/13/2021	2.56	No	12	4.114	0.6886	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-15	4.846	n/a	4/13/2021	1.86	No	12	2.525	0.8929	8.333	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-2	4.914	n/a	4/13/2021	3.55	No	12	3.681	0.4747	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-3	3.937	n/a	4/13/2021	2.76	No	12	3.066	0.3353	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-5	20.08	n/a	4/13/2021	9.78	No	12	120	108.9	0	None	x^2	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-6	4.061	n/a	4/13/2021	3.54	No	12	8.587	3.042	8.333	None	x^2	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-7	4.625	n/a	4/13/2021	3.64	No	12	3.48	0.4404	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-8	2.446	n/a	4/13/2021	1.64	No	12	1.795	0.2504	16.67	Kaplan-Meier	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-9	3.608	n/a	4/13/2021	2.14	No	12	2.3	0.5034	8.333	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-1	6.639	n/a	4/13/2021	4.43	No	12	4.056	0.9938	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-10	2.35	n/a	4/13/2021	1.68	No	12	1.791	0.2151	16.67	Kaplan-Meier	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-11	15.8	n/a	4/13/2021	2.77	No	12	6.412	3.611	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-12	17.05	n/a	4/13/2021	8.86	No	12	8.788	3.178	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-13	10.73	n/a	4/13/2021	8.38	No	12	8.187	0.9783	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-14S	18.81	n/a	4/13/2021	3.45	No	12	8.789	3.857	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-15	5.672	n/a	4/13/2021	2.51	No	12	3.058	1.006	8.333	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-2	11.01	n/a	4/13/2021	7.44	No	12	7.246	1.449	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-3	36.48	n/a	4/13/2021	7.88	No	12	18.37	6.971	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	**GN-GSA-MW-5**	**37.06**	**n/a**	**4/13/2021**	**108**	**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	4/13/2021	0.5ND	No	10	n/a	n/a	50	n/a	n/a	0.01476	NP Intra (normality) 1 of 2
Sulfate (mg/L)	GN-GSA-MW-7	15.43	n/a	4/13/2021	6.37	No	12	10.02	2.08	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	**GN-GSA-MW-8**	**2.935**	**n/a**	**4/13/2021**	**4.49**	**Yes**	**9**	**1.843**	**0.3686**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Sulfate (mg/L)	GN-GSA-MW-9	6.71	n/a	4/13/2021	4.65	No	12	5.352	0.5227	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-1	263.1	n/a	4/13/2021	237	No	12	203.8	22.81	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-10	274	n/a	4/13/2021	273	No	9	251.8	7.496	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-11	113.2	n/a	4/13/2021	66	No	12	73.64	15.22	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-12	280.7	n/a	4/13/2021	260	No	12	222.3	22.46	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-13	349.6	n/a	4/13/2021	286	No	12	262.4	33.54	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-14S	229.7	n/a	4/13/2021	191	No	12	203.3	10.19	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-15	63.78	n/a	4/13/2021	35.3	No	12	42.04	8.363	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-2	311.9	n/a	4/13/2021	283	No	12	286.3	9.847	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-3	407.7	n/a	4/13/2021	196	No	12	284	47.61	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	**GN-GSA-MW-5**	**295.1**	**n/a**	**4/13/2021**	**350**	**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	4/13/2021	26	No	12	n/a	n/a	66.67	n/a	n/a	0.01077	NP Intra (NDs) 1 of 2
TDS (mg/L)	GN-GSA-MW-7	256.2	n/a	4/13/2021	220	No	12	216.9	15.11	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-8	205.2	n/a	4/13/2021	186	No	12	189.8	5.921	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-9	216.4	n/a	4/13/2021	163	No	12	169.3	18.13	0	None	No	0.0007523	Param Intra 1 of 2

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=35.73, Std. Dev.=1.237, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9419, critical = 0.764. Kappa = 2.961 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

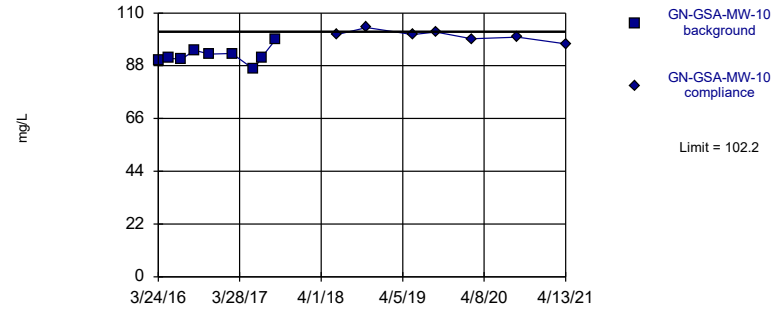
Constituent: Calcium Analysis Run 6/9/2021 2:49 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=92.19, Std. Dev.=3.387, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9444, critical = 0.764. Kappa = 2.961 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

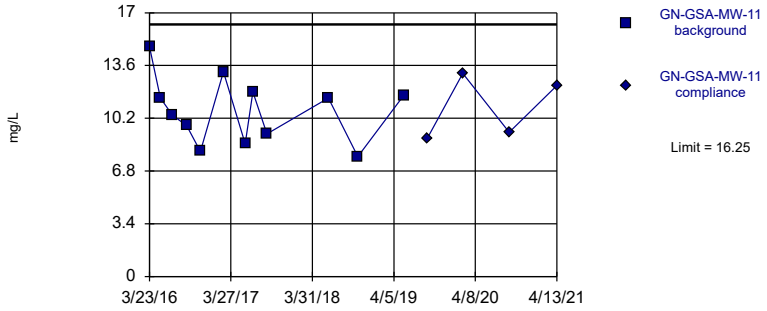
Constituent: Calcium Analysis Run 6/9/2021 2:49 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=10.69, Std. Dev.=2.14, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9598, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

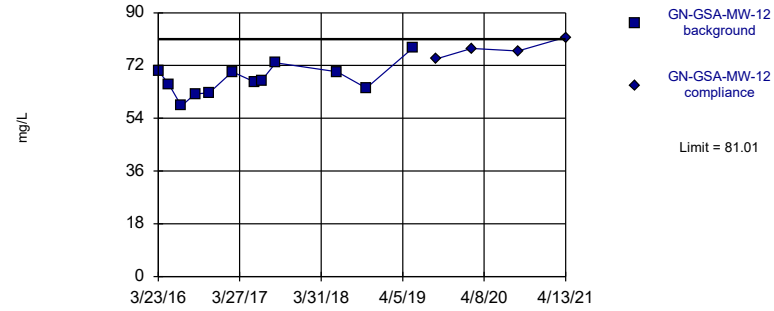
Constituent: Calcium Analysis Run 6/9/2021 2:49 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=67.28, Std. Dev.=5.286, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9815, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

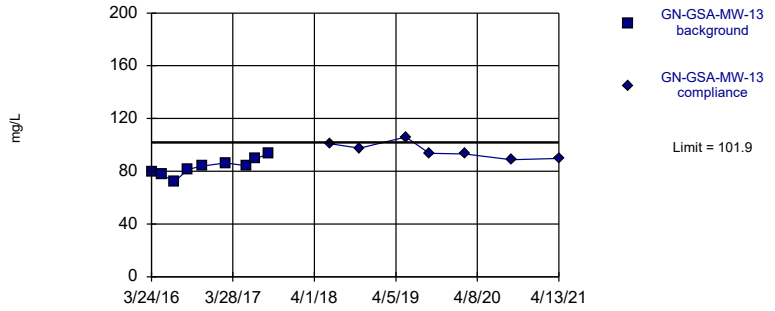
Constituent: Calcium Analysis Run 6/9/2021 2:49 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=83.12, Std. Dev.=6.337, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9932, critical = 0.764. Kappa = 2.961 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Calcium Analysis Run 6/9/2021 2:49 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

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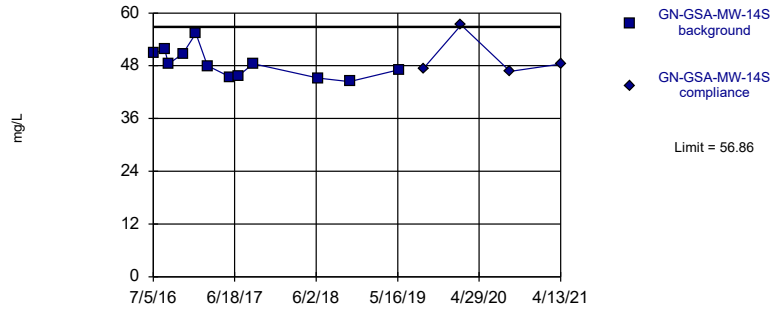
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=48.44, Std. Dev.=3.238, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9354, 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 6/9/2021 2:49 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

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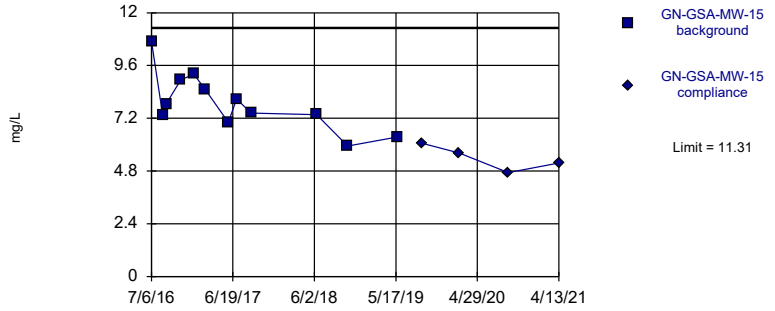
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.898, Std. Dev.=1.312, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.967, 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 6/9/2021 2:49 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

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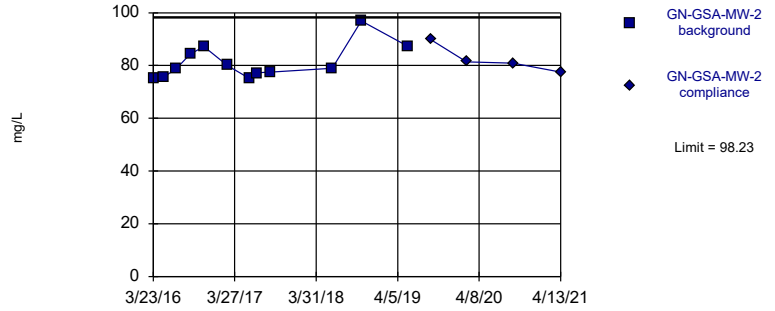
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=81.19, Std. Dev.=6.554, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8405, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

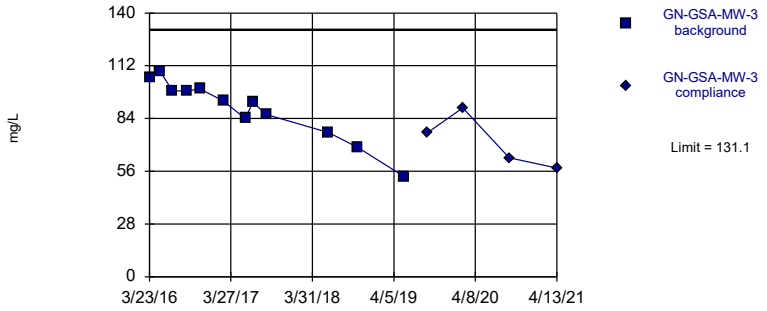
Constituent: Calcium Analysis Run 6/9/2021 2:49 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=88.88, Std. Dev.=16.26, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9269, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

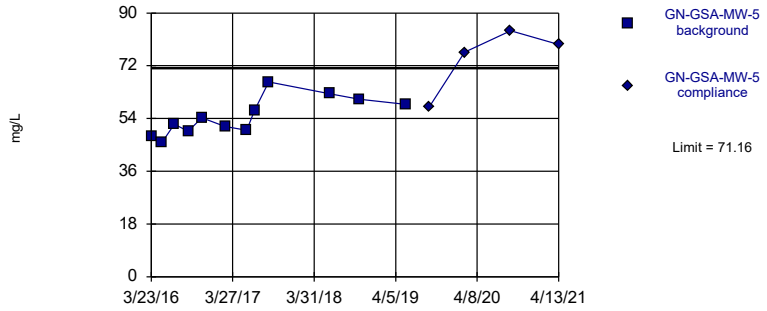
Constituent: Calcium Analysis Run 6/9/2021 2:49 PM View: Appendix III - Intrawell

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.

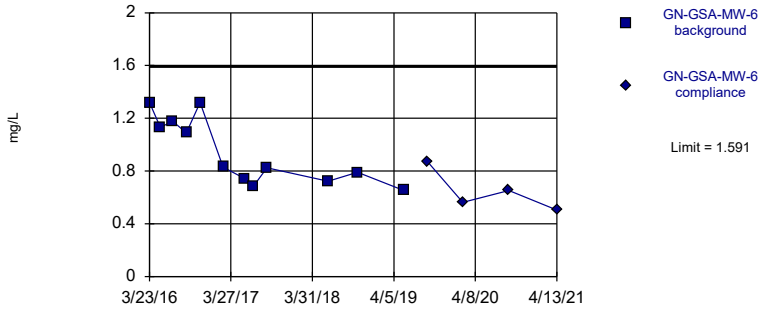
Constituent: Calcium Analysis Run 6/9/2021 2:49 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.9401, Std. Dev.=0.2504, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.871, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

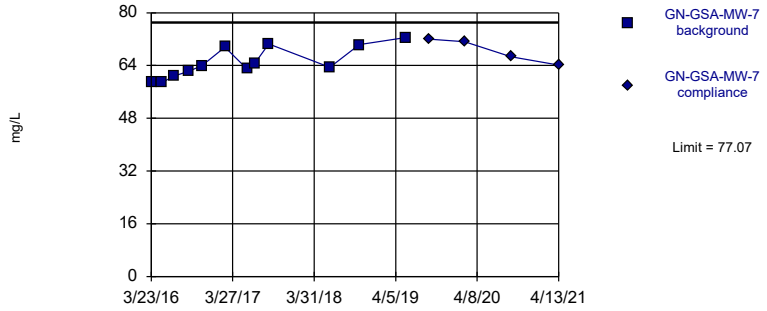
Constituent: Calcium Analysis Run 6/9/2021 2:49 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=64.91, Std. Dev.=4.678, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9097, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

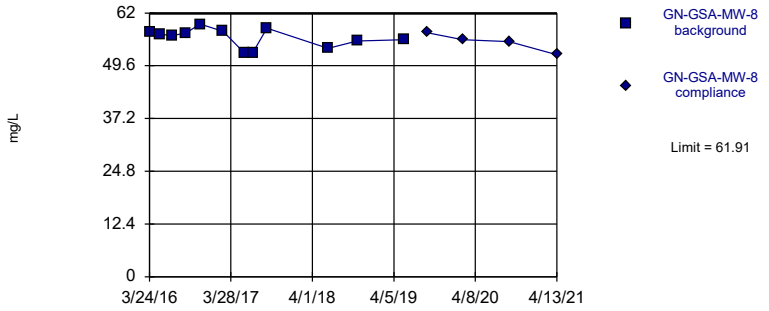
Constituent: Calcium Analysis Run 6/9/2021 2:49 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=56.16, Std. Dev.=2.214, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.931, 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 6/9/2021 2:49 PM View: Appendix III - Intrawell

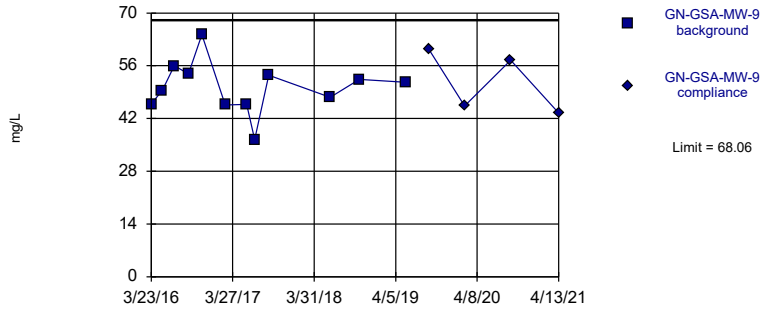
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=50.19, Std. Dev.=6.875, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9586, 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 6/9/2021 2:49 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

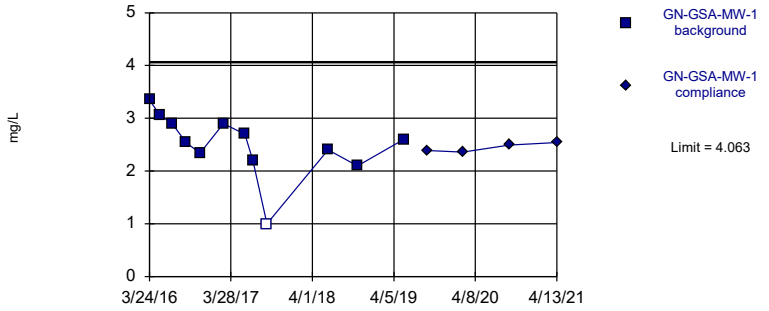
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.508, Std. Dev.=0.5987, n=12, 8.333% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9045, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Chloride Analysis Run 6/9/2021 2:49 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

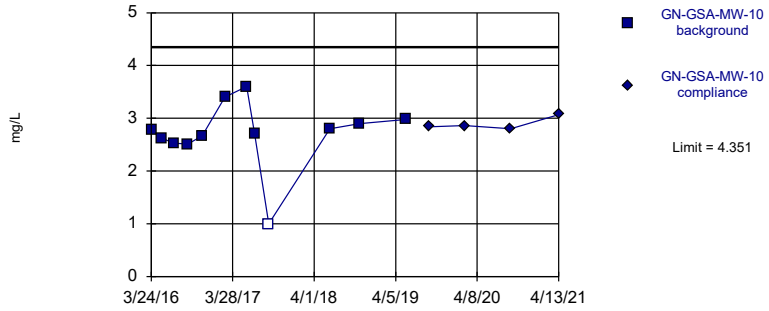
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.708, Std. Dev.=0.6322, n=12, 8.333% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8072, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Chloride Analysis Run 6/9/2021 2:49 PM View: Appendix III - Intrawell

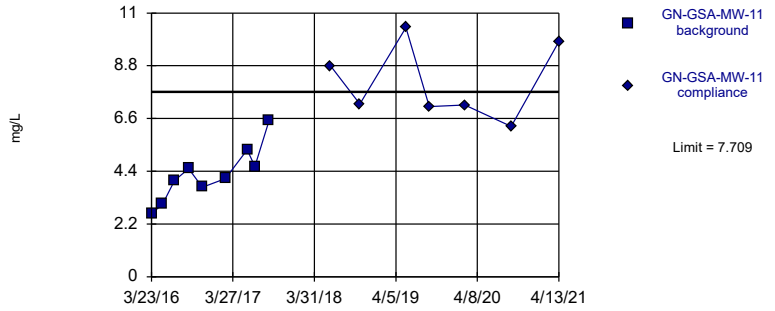
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

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 6/9/2021 2:49 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

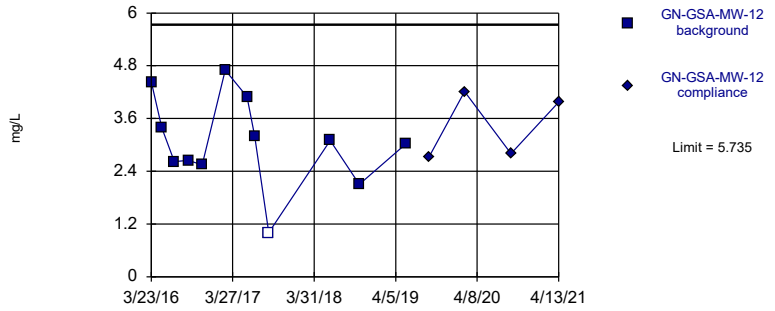
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=3.071, Std. Dev.=1.025, n=12, 8.333% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9639, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Chloride Analysis Run 6/9/2021 2:49 PM View: Appendix III - Intrawell

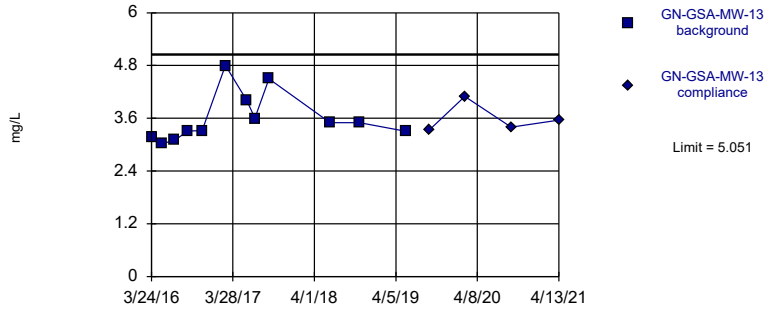
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=3.593, Std. Dev.=0.561, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8424, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Chloride Analysis Run 6/9/2021 2:49 PM View: Appendix III - Intrawell

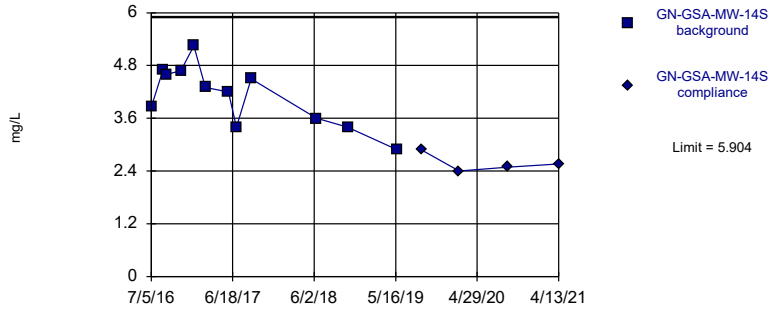
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=4.114, Std. Dev.=0.6886, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9637, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Chloride Analysis Run 6/9/2021 2:49 PM View: Appendix III - Intrawell

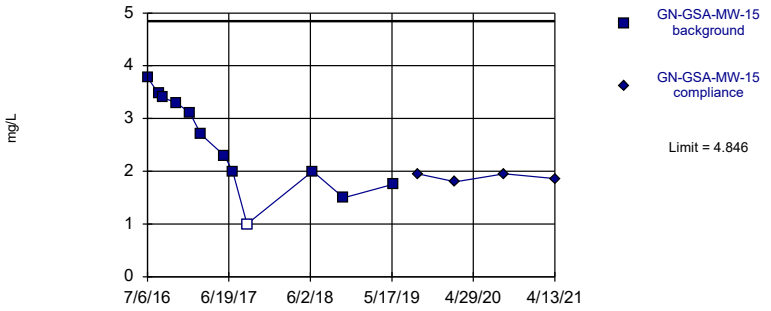
Plant Gaston Client: Southern Company Data: Gaston GSA

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.525, Std. Dev.=0.8929, n=12, 8.333% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9479, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

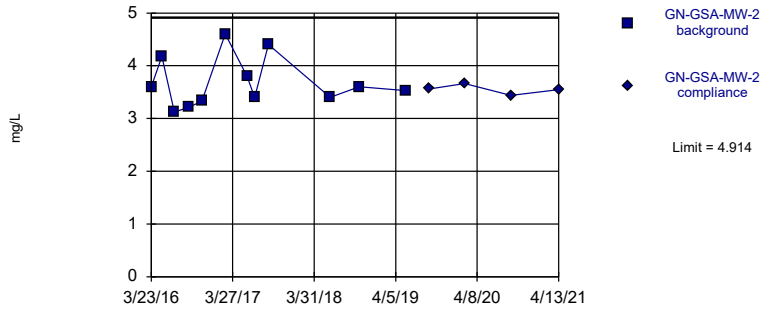
Constituent: Chloride Analysis Run 6/9/2021 2:49 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=3.681, Std. Dev.=0.4747, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8952, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

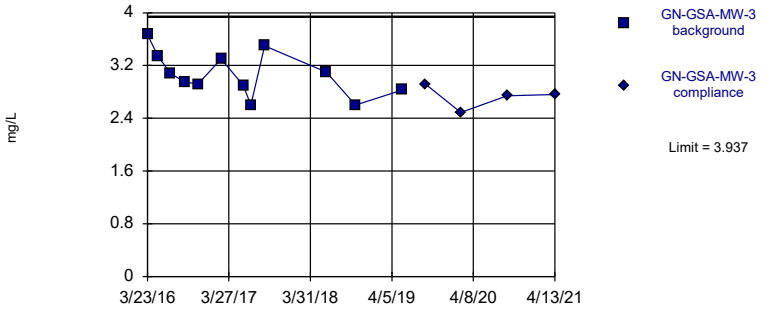
Constituent: Chloride Analysis Run 6/9/2021 2:49 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=3.066, Std. Dev.=0.3353, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9585, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

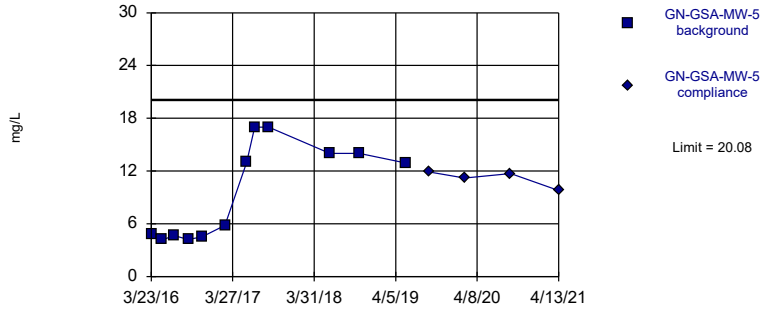
Constituent: Chloride Analysis Run 6/9/2021 2:49 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=120, Std. Dev.=108.9, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8096, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Chloride Analysis Run 6/9/2021 2:49 PM View: Appendix III - Intrawell

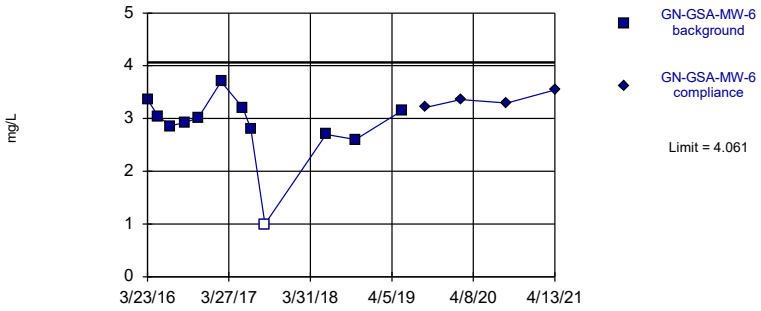
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=8.587, Std. Dev.=3.042, n=12, 8.333% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9033, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

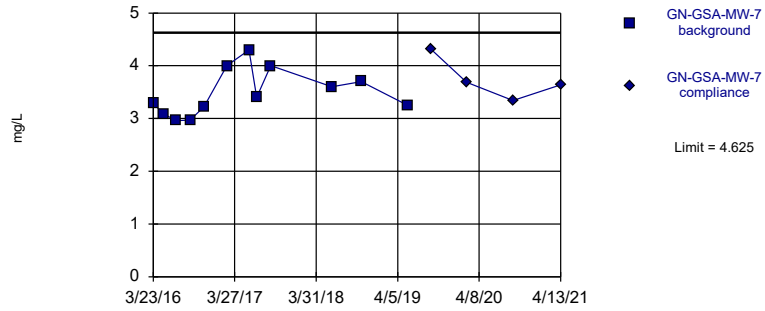
Constituent: Chloride Analysis Run 6/9/2021 2:49 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=3.48, Std. Dev.=0.4404, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9241, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

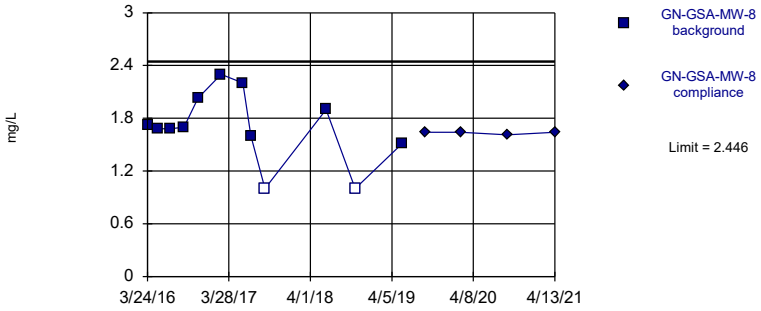
Constituent: Chloride Analysis Run 6/9/2021 2:49 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=1.795, Std. Dev.=0.2504, n=12, 16.67% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9252, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

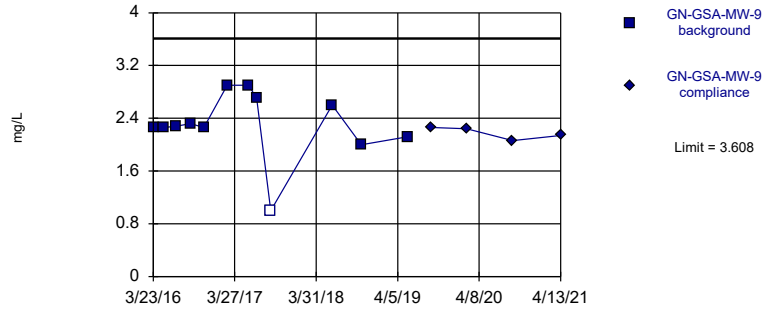
Constituent: Chloride Analysis Run 6/9/2021 2:49 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.3, Std. Dev.=0.5034, n=12, 8.333% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8459, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

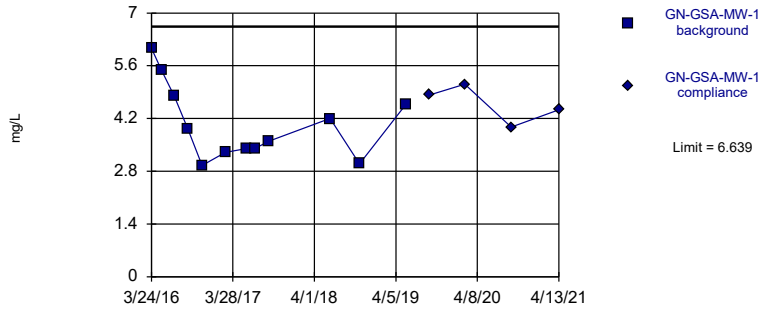
Constituent: Chloride Analysis Run 6/9/2021 2:49 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=4.056, Std. Dev.=0.9938, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9112, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Sulfate Analysis Run 6/9/2021 2:49 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

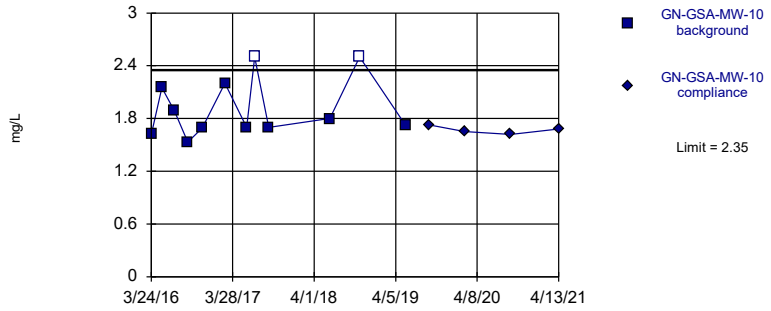
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=1.791, Std. Dev.=0.2151, n=12, 16.67% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8557, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Sulfate Analysis Run 6/9/2021 2:49 PM View: Appendix III - Intrawell

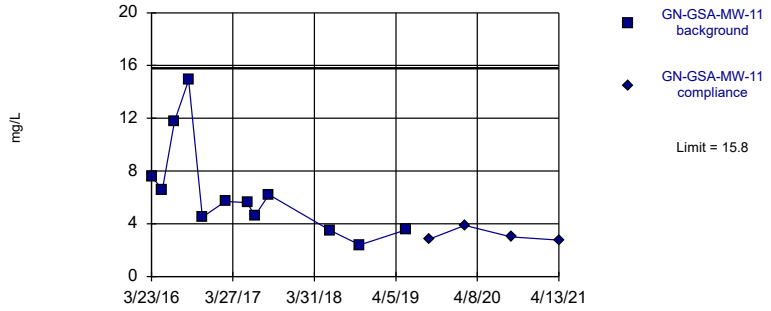
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.412, Std. Dev.=3.611, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8491, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Sulfate Analysis Run 6/9/2021 2:49 PM View: Appendix III - Intrawell

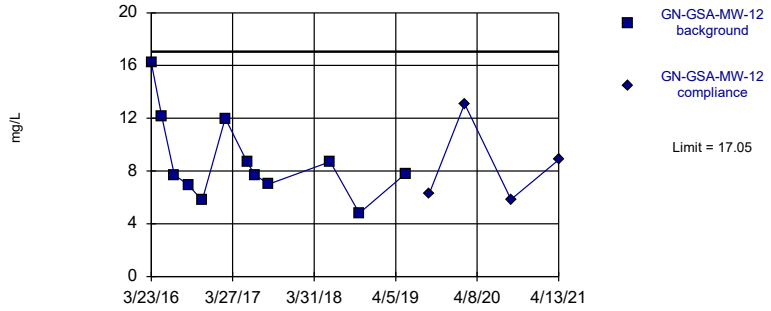
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=8.788, Std. Dev.=3.178, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8809, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

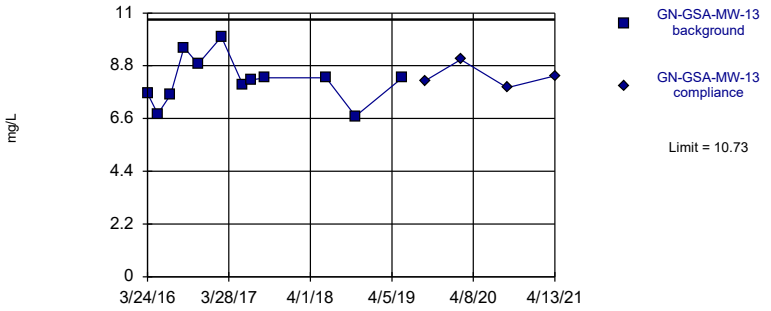
Constituent: Sulfate Analysis Run 6/9/2021 2:49 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=8.187, Std. Dev.=0.9783, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9504, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

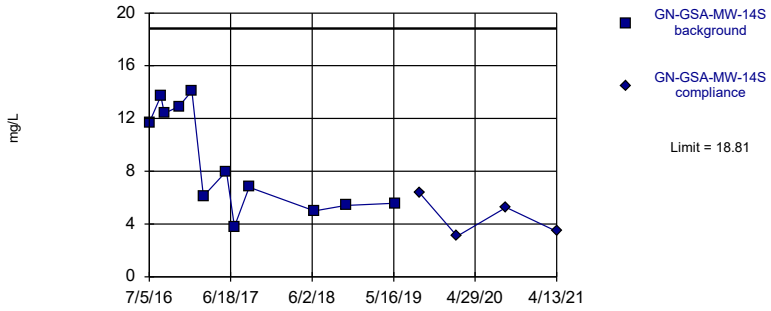
Constituent: Sulfate Analysis Run 6/9/2021 2:49 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=8.789, Std. Dev.=3.857, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8695, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Sulfate Analysis Run 6/9/2021 2:49 PM View: Appendix III - Intrawell

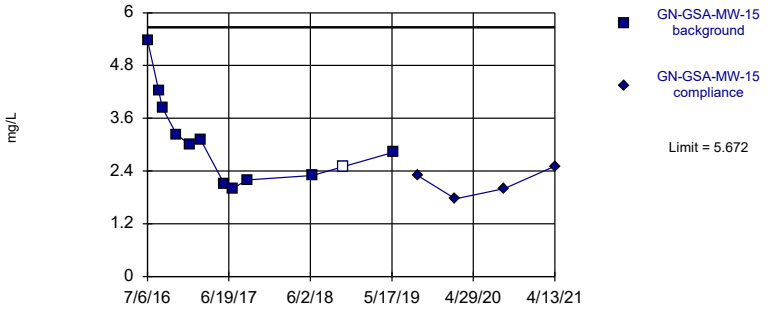
Plant Gaston Client: Southern Company Data: Gaston GSA

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=3.058, Std. Dev.=1.006, n=12, 8.333% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8928, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

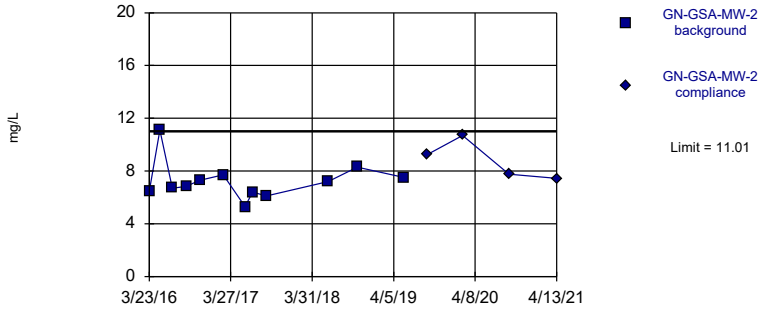
Constituent: Sulfate Analysis Run 6/9/2021 2:49 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.246, Std. Dev.=1.449, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8542, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Sulfate Analysis Run 6/9/2021 2:50 PM View: Appendix III - Intrawell

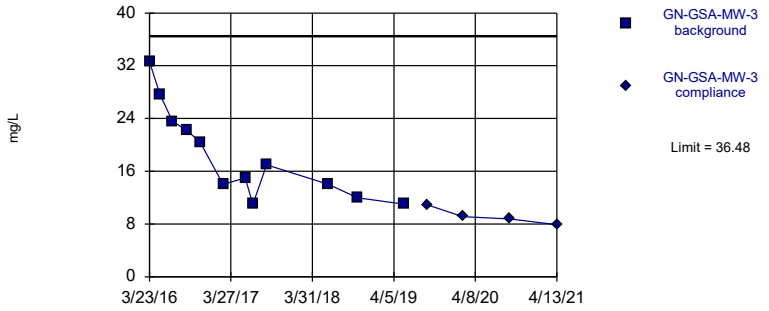
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=18.37, Std. Dev.=6.971, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9072, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Sulfate Analysis Run 6/9/2021 2:50 PM View: Appendix III - Intrawell

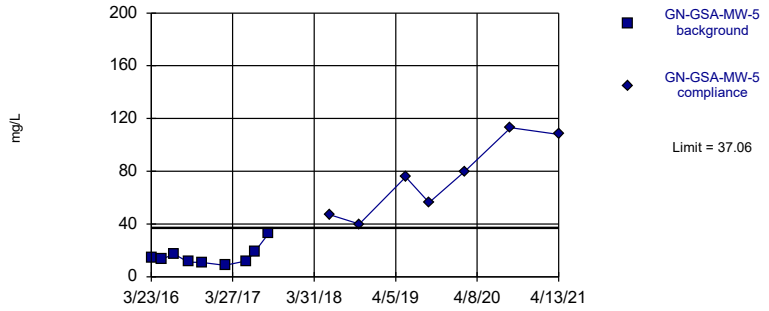
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 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 6/9/2021 2:50 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

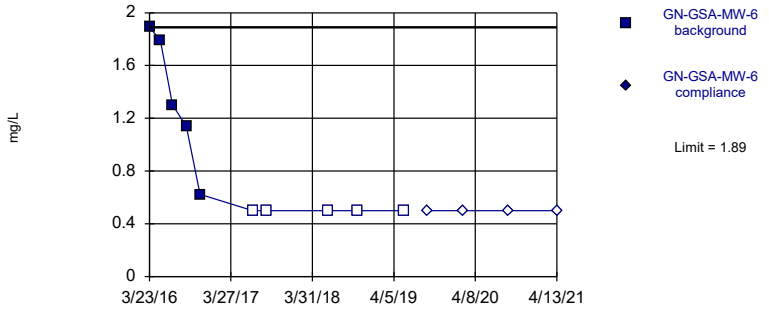
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 10 background values. 50% NDs. Well-constituent pair annual alpha = 0.0293. Individual comparison alpha = 0.01476 (1 of 2).

Constituent: Sulfate Analysis Run 6/9/2021 2:50 PM View: Appendix III - Intrawell

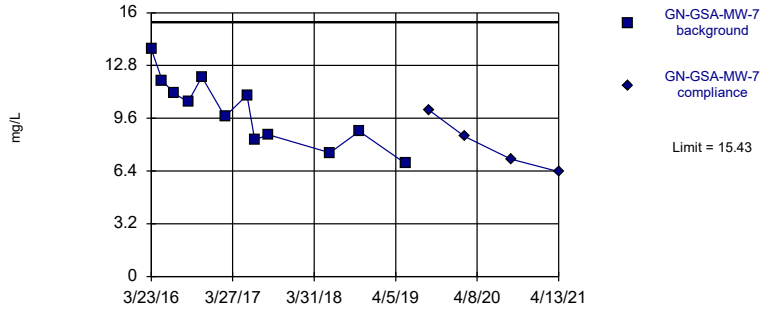
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=10.02, Std. Dev.=2.08, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9737, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

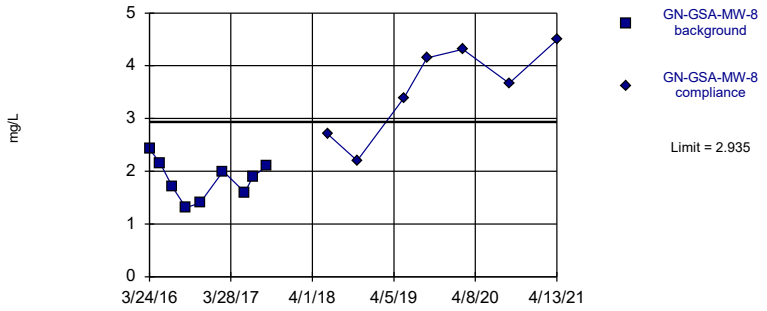
Constituent: Sulfate Analysis Run 6/9/2021 2:50 PM View: Appendix III - Intrawell

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.

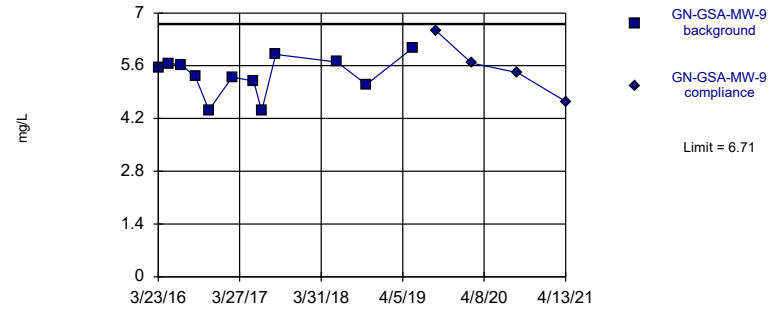
Constituent: Sulfate Analysis Run 6/9/2021 2:50 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=5.352, Std. Dev.=0.5227, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9133, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

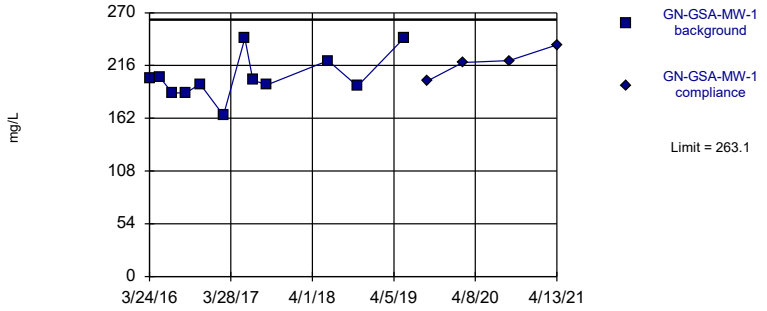
Constituent: Sulfate Analysis Run 6/9/2021 2:50 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=203.8, Std. Dev.=22.81, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9007, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

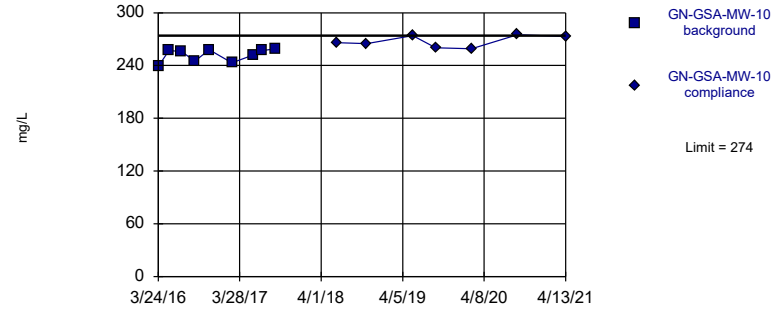
Constituent: TDS Analysis Run 6/9/2021 2:50 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

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.

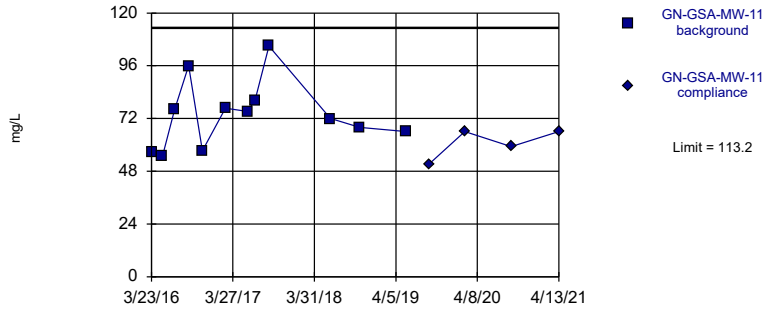
Constituent: TDS Analysis Run 6/9/2021 2:50 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=73.64, Std. Dev.=15.22, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9223, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: TDS Analysis Run 6/9/2021 2:50 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

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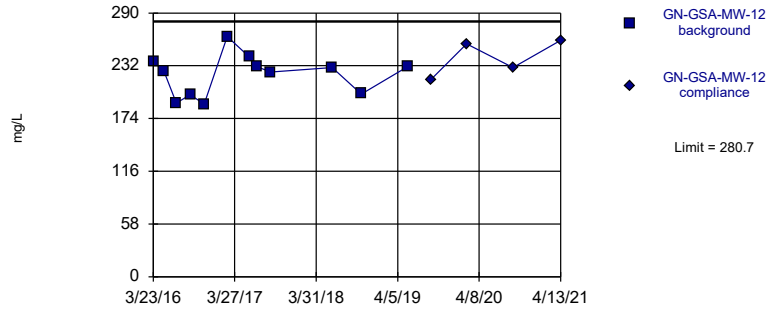
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=222.3, Std. Dev.=22.46, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9236, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: TDS Analysis Run 6/9/2021 2:50 PM View: Appendix III - Intrawell

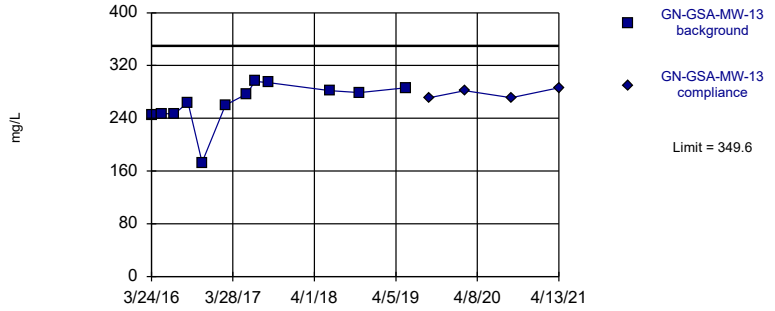
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=262.4, Std. Dev.=33.54, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8216, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: TDS Analysis Run 6/9/2021 2:50 PM View: Appendix III - Intrawell

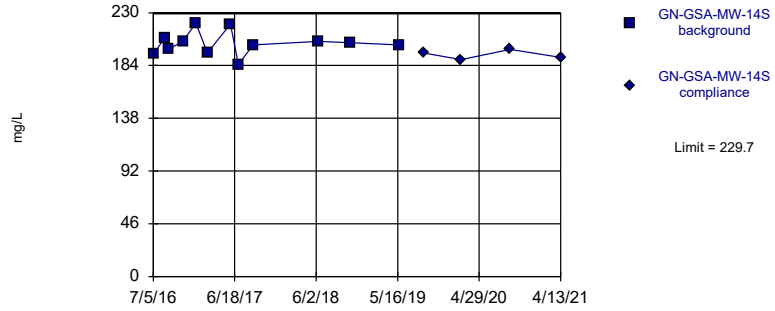
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=203.3, Std. Dev.=10.19, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9449, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

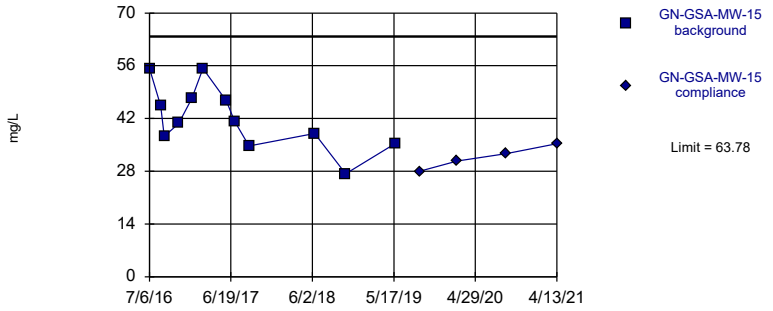
Constituent: TDS Analysis Run 6/9/2021 2:50 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=42.04, Std. Dev.=8.363, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9601, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: TDS Analysis Run 6/9/2021 2:50 PM View: Appendix III - Intrawell

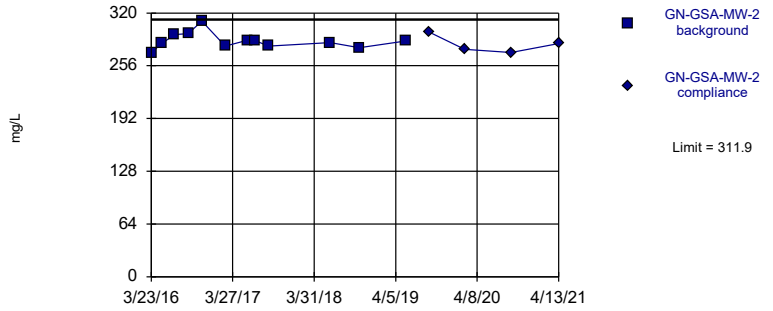
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=286.3, Std. Dev.=9.847, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9175, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: TDS Analysis Run 6/9/2021 2:50 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

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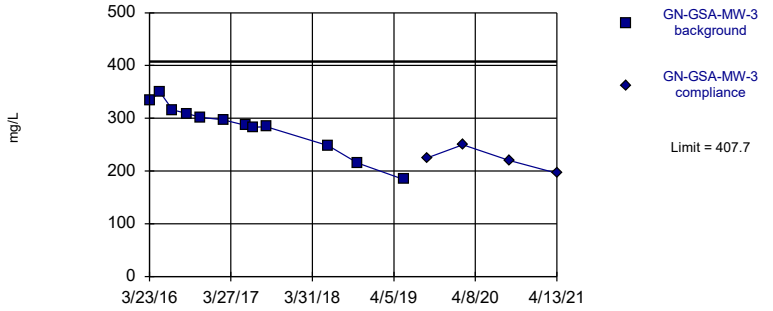
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=284, Std. Dev.=47.61, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.926, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: TDS Analysis Run 6/9/2021 2:50 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

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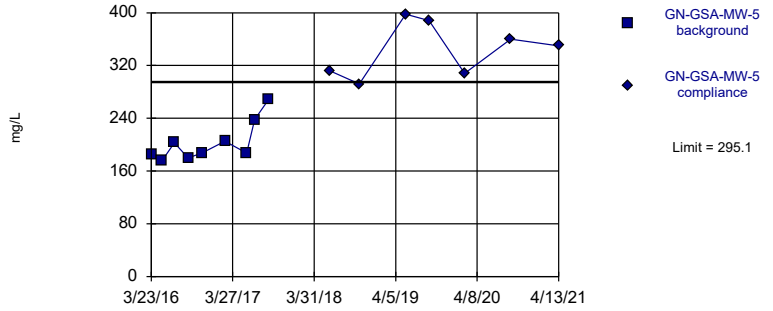
Exceeds Limit

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 6/9/2021 2:50 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

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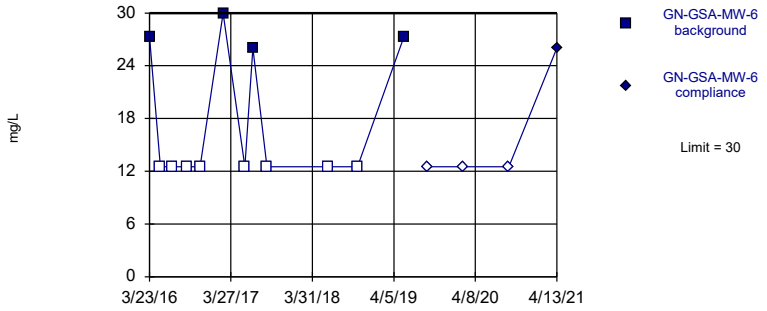
Hollow symbols indicate censored values.

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 12 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

Constituent: TDS Analysis Run 6/9/2021 2:50 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

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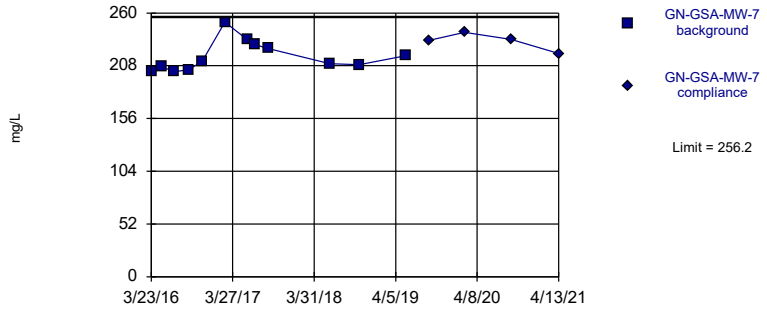
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=216.9, Std. Dev.=15.11, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8828, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

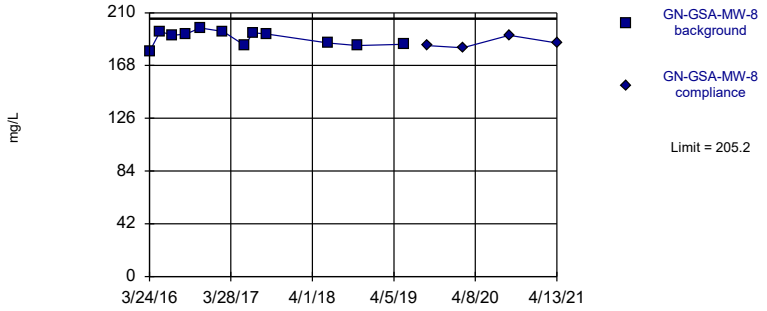
Constituent: TDS Analysis Run 6/9/2021 2:50 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=189.8, Std. Dev.=5.921, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9111, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

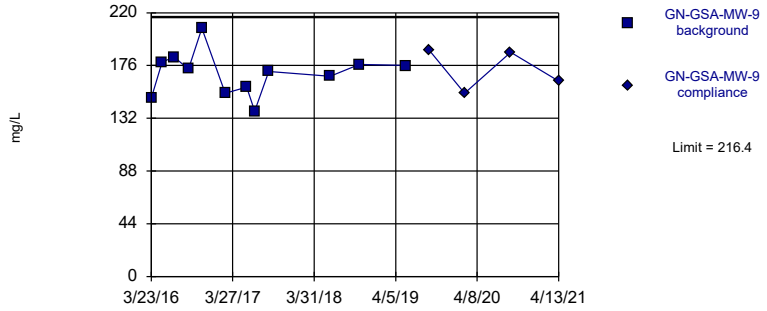
Constituent: TDS Analysis Run 6/9/2021 2:50 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=169.3, Std. Dev.=18.13, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.966, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: TDS Analysis Run 6/9/2021 2:50 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 6/9/2021 2:51 PM 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

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 6/9/2021 2:51 PM 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

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 6/9/2021 2:51 PM 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

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 6/9/2021 2:51 PM 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

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/9/2021 2:52 PM 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	<5	
9/7/2017	1.7 (J)	
6/12/2018	1.8 (J)	
10/24/2018	<5	
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

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/9/2021 2:52 PM 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	<5	
5/22/2019	2.82	
9/4/2019		2.3
2/12/2020		1.77
9/9/2020		2
4/13/2021		2.51

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 6/9/2021 2:52 PM 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

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 6/9/2021 2:52 PM 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

FIGURE E.

Interwell Prediction Limits - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 6/9/2021, 2:53 PM

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**	**0.111**	**n/a**	**4/13/2021**	**0.29**	**Yes**	**68**	**n/a**	**n/a**	**38.24**	**n/a**	**n/a**	**0.0004111**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	**GN-GSA-MW-7**	**0.111**	**n/a**	**4/13/2021**	**0.129**	**Yes**	**68**	**n/a**	**n/a**	**38.24**	**n/a**	**n/a**	**0.0004111**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	**GN-GSA-MW-8**	**0.111**	**n/a**	**4/13/2021**	**0.119**	**Yes**	**68**	**n/a**	**n/a**	**38.24**	**n/a**	**n/a**	**0.0004111**	**NP Inter (normality) 1 of 2**
pH (pH)	**GN-GSA-MW-1**	**7.53**	**5.67**	**4/13/2021**	**7.7**	**Yes**	**68**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0008222**	**NP Inter (normality) 1 of 2**
pH (pH)	**GN-GSA-MW-11**	**7.53**	**5.67**	**4/13/2021**	**5.46**	**Yes**	**68**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0008222**	**NP Inter (normality) 1 of 2**
pH (pH)	**GN-GSA-MW-6**	**7.53**	**5.67**	**4/13/2021**	**4.63**	**Yes**	**68**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0008222**	**NP Inter (normality) 1 of 2**
pH (pH)	**GN-GSA-MW-8**	**7.53**	**5.67**	**4/13/2021**	**7.7**	**Yes**	**68**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0008222**	**NP Inter (normality) 1 of 2**

Interwell Prediction Limits - All Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 6/9/2021, 2:53 PM

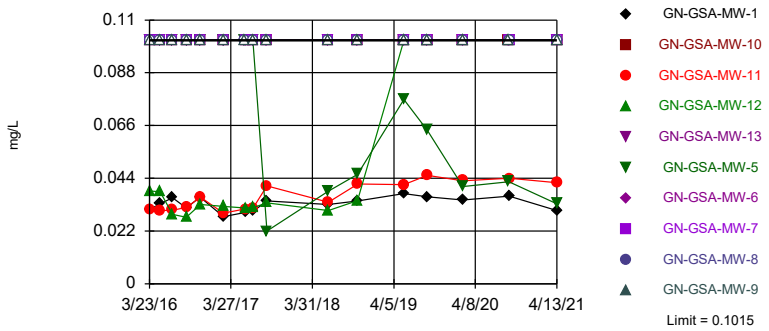
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GN-GSA-MW-1	0.1015	n/a	4/13/2021	0.0306J	No	64	n/a	n/a	98.44	n/a	n/a	0.000464	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-10	0.1015	n/a	4/13/2021	0.1015ND	No	64	n/a	n/a	98.44	n/a	n/a	0.000464	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-11	0.1015	n/a	4/13/2021	0.0422J	No	64	n/a	n/a	98.44	n/a	n/a	0.000464	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-12	0.1015	n/a	4/13/2021	0.1015ND	No	64	n/a	n/a	98.44	n/a	n/a	0.000464	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-13	0.1015	n/a	4/13/2021	0.1015ND	No	64	n/a	n/a	98.44	n/a	n/a	0.000464	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-5	0.1015	n/a	4/13/2021	0.0333J	No	64	n/a	n/a	98.44	n/a	n/a	0.000464	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-6	0.1015	n/a	4/13/2021	0.1015ND	No	64	n/a	n/a	98.44	n/a	n/a	0.000464	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-7	0.1015	n/a	4/13/2021	0.1015ND	No	64	n/a	n/a	98.44	n/a	n/a	0.000464	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-8	0.1015	n/a	4/13/2021	0.1015ND	No	64	n/a	n/a	98.44	n/a	n/a	0.000464	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-9	0.1015	n/a	4/13/2021	0.1015ND	No	64	n/a	n/a	98.44	n/a	n/a	0.000464	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	**GN-GSA-MW-1**	**0.111**	**n/a**	**4/13/2021**	**0.29**	**Yes**	**68**	**n/a**	**n/a**	**38.24**	**n/a**	**n/a**	**0.0004111**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	GN-GSA-MW-10	0.111	n/a	4/13/2021	0.1ND	No	68	n/a	n/a	38.24	n/a	n/a	0.0004111	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-11	0.111	n/a	4/13/2021	0.1ND	No	68	n/a	n/a	38.24	n/a	n/a	0.0004111	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-12	0.111	n/a	4/13/2021	0.1ND	No	68	n/a	n/a	38.24	n/a	n/a	0.0004111	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-13	0.111	n/a	4/13/2021	0.0633J	No	68	n/a	n/a	38.24	n/a	n/a	0.0004111	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-5	0.111	n/a	4/13/2021	0.1ND	No	68	n/a	n/a	38.24	n/a	n/a	0.0004111	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-6	0.111	n/a	4/13/2021	0.1ND	No	68	n/a	n/a	38.24	n/a	n/a	0.0004111	NP Inter (normality) 1 of 2
Fluoride (mg/L)	**GN-GSA-MW-7**	**0.111**	**n/a**	**4/13/2021**	**0.129**	**Yes**	**68**	**n/a**	**n/a**	**38.24**	**n/a**	**n/a**	**0.0004111**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	**GN-GSA-MW-8**	**0.111**	**n/a**	**4/13/2021**	**0.119**	**Yes**	**68**	**n/a**	**n/a**	**38.24**	**n/a**	**n/a**	**0.0004111**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	GN-GSA-MW-9	0.111	n/a	4/13/2021	0.0602J	No	68	n/a	n/a	38.24	n/a	n/a	0.0004111	NP Inter (normality) 1 of 2
pH (pH)	**GN-GSA-MW-1**	**7.53**	**5.67**	**4/13/2021**	**7.7**	**Yes**	**68**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0008222**	**NP Inter (normality) 1 of 2**
pH (pH)	GN-GSA-MW-10	7.53	5.67	4/13/2021	7.22	No	68	n/a	n/a	0	n/a	n/a	0.0008222	NP Inter (normality) 1 of 2
pH (pH)	**GN-GSA-MW-11**	**7.53**	**5.67**	**4/13/2021**	**5.46**	**Yes**	**68**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0008222**	**NP Inter (normality) 1 of 2**
pH (pH)	GN-GSA-MW-12	7.53	5.67	4/13/2021	6.61	No	68	n/a	n/a	0	n/a	n/a	0.0008222	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-13	7.53	5.67	4/13/2021	7.17	No	68	n/a	n/a	0	n/a	n/a	0.0008222	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-5	7.53	5.67	4/13/2021	6.36	No	68	n/a	n/a	0	n/a	n/a	0.0008222	NP Inter (normality) 1 of 2
pH (pH)	**GN-GSA-MW-6**	**7.53**	**5.67**	**4/13/2021**	**4.63**	**Yes**	**68**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0008222**	**NP Inter (normality) 1 of 2**
pH (pH)	GN-GSA-MW-7	7.53	5.67	4/13/2021	6.84	No	68	n/a	n/a	0	n/a	n/a	0.0008222	NP Inter (normality) 1 of 2
pH (pH)	**GN-GSA-MW-8**	**7.53**	**5.67**	**4/13/2021**	**7.7**	**Yes**	**68**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0008222**	**NP Inter (normality) 1 of 2**
pH (pH)	GN-GSA-MW-9	7.53	5.67	4/13/2021	6.9	No	68	n/a	n/a	0	n/a	n/a	0.0008222	NP Inter (normality) 1 of 2

Sanitas™ v.9.6.28 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 64 background values. 98.44% NDs. Annual per-constituent alpha = 0.00924. Individual comparison alpha = 0.000464 (1 of 2). Comparing 10 points to limit.

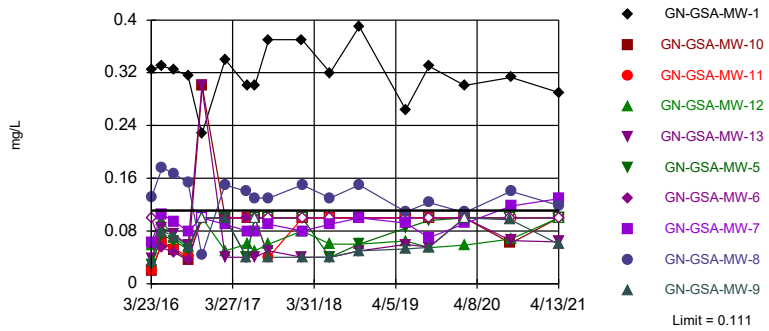
Constituent: Boron Analysis Run 6/9/2021 2:52 PM View: Appendix III - Interwell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Exceeds Limit: GN-GSA-MW-1, GN-GSA-MW-7, GN-GSA-MW-8

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 68 background values. 38.24% NDs. Annual per-constituent alpha = 0.00819. Individual comparison alpha = 0.0004111 (1 of 2). Comparing 10 points to limit.

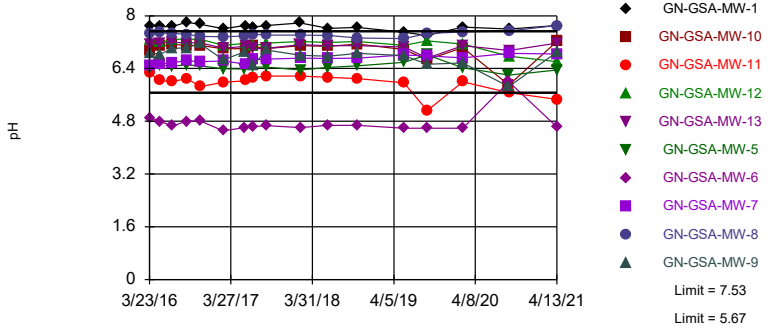
Constituent: Fluoride Analysis Run 6/9/2021 2:52 PM View: Appendix III - Interwell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Exceeds Limits: GN-GSA-MW-1, GN-GSA-MW-11, GN-GSA-MW-6, GN-GSA-MW-8

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 68 background values. Annual per-constituent alpha = 0.01638. Individual comparison alpha = 0.0008222 (1 of 2). Comparing 10 points to limit.

Constituent: pH Analysis Run 6/9/2021 2:52 PM View: Appendix III - Interwell
Plant Gaston Client: Southern Company Data: Gaston GSA

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 6/9/2021 2:53 PM View: Appendix III - Interwell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-9	GN-GSA-MW-7	GN-GSA-MW-2 (bg)	GN-GSA-MW-6	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-13
3/23/2016	0.0309 (J)	0.0387 (J)	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	
3/24/2016									<0.1015
5/10/2016		0.0384 (J)			<0.1015		<0.1015		<0.1015
5/11/2016	0.0306 (J)		<0.1015	<0.1015		<0.1015		<0.1015	
7/5/2016					<0.1015				
7/6/2016	0.0307 (J)	0.029 (J)	<0.1015	<0.1015		<0.1015	<0.1015	<0.1015	<0.1015
8/23/2016									
9/6/2016		0.0278 (J)		<0.1015	<0.1015	<0.1015		<0.1015	<0.1015
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	<0.1015
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)	0.0323 (J)	<0.1015		<0.1015				
2/22/2017									<0.1015
5/30/2017			<0.1015			<0.1015		<0.1015	
5/31/2017	0.0312 (J)	0.0316 (J)		<0.1015	<0.1015		<0.1015		<0.1015
7/5/2017	0.0315 (J)	0.0318 (J)	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
9/5/2017					<0.1015		<0.1015		
9/7/2017	0.0408 (J)	0.0338 (J)	<0.1015	<0.1015		<0.1015		0.022 (J)	<0.1015
6/11/2018				<0.1015		<0.1015		0.0386 (J)	
6/12/2018	0.034 (J)	0.0305 (J)	<0.1015		<0.1015		<0.1015		<0.1015
10/22/2018			<0.1015	<0.1015	<0.1015	<0.1015		0.0456 (J)	
10/23/2018		0.0347 (J)					<0.1015		<0.1015
10/24/2018	0.0416 (J)								
5/20/2019				<0.1015	<0.1015	<0.1015		0.0769 (J)	
5/21/2019	0.0413 (J)	<0.1015	<0.1015						<0.1015
5/22/2019							<0.1015		
9/3/2019	0.0452 (J)		<0.1015						
9/4/2019		<0.1015		<0.1015	<0.1015	<0.1015	<0.1015	0.0641 (J)	<0.1015
2/11/2020				<0.1015		<0.1015		0.0406 (J)	
2/12/2020	0.043 (J)	<0.1015	<0.1015		<0.1015		<0.1015		<0.1015
9/8/2020			<0.1015			<0.1015		0.0425 (J)	
9/9/2020	0.044 (J)	<0.1015		<0.1015	<0.1015		<0.1015		<0.1015
4/13/2021	0.0422 (J)	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	0.0333 (J)	<0.1015

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 6/9/2021 2:53 PM View: Appendix III - Interwell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-10	GN-GSA-MW-1	GN-GSA-MW-8	GN-GSA-MW-14S...GN-GSA-MW-15 ...	
3/23/2016					
3/24/2016	<0.1015	0.0311 (J)	<0.1015		
5/10/2016		0.0334 (J)			
5/11/2016	<0.1015		<0.1015		
7/5/2016		0.0359 (J)		<0.1015	
7/6/2016	<0.1015		<0.1015		<0.1015
8/23/2016				<0.1015	<0.1015
9/6/2016	<0.1015	0.0316 (J)	<0.1015		
9/7/2016				<0.1015	<0.1015
11/8/2016		0.0361 (J)	<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		0.028 (J)			
5/30/2017			<0.1015		
5/31/2017	<0.1015	0.0297 (J)		<0.1015	<0.1015
7/5/2017	<0.1015	0.0302 (J)	<0.1015	<0.1015	<0.1015
9/5/2017				<0.1015	<0.1015
9/7/2017	<0.1015	0.0345 (J)	<0.1015		
6/11/2018					
6/12/2018	<0.1015	0.0331 (J)	<0.1015	<0.1015	<0.1015
10/22/2018			<0.1015		
10/23/2018		0.0345 (J)		<0.1015	<0.1015
10/24/2018	<0.1015				
5/20/2019					
5/21/2019	<0.1015	0.0376 (J)	<0.1015		
5/22/2019				<0.1015	<0.1015
9/3/2019	<0.1015		<0.1015		
9/4/2019		0.0363 (J)		<0.1015	<0.1015
2/11/2020					
2/12/2020	<0.1015	0.0349 (J)	<0.1015	<0.1015	<0.1015
9/8/2020	<0.1015				
9/9/2020		0.0366 (J)	<0.1015	<0.1015	<0.1015
4/13/2021	<0.1015	0.0306 (J)	<0.1015	<0.1015	<0.1015

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 6/9/2021 2:53 PM View: Appendix III - Interwell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-12	GN-GSA-MW-9	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-11	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-1
3/23/2016	0.058 (J)	0.035 (J)	0.022 (J)	0.06 (J)	0.02 (J)	0.028 (J)	<0.1	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		0.08 (J)			0.063 (J)	0.074 (J)	0.055 (J)	0.105 (J)	
7/5/2016			0.052 (J)						0.325
7/6/2016	0.069 (J)	0.072 (J)		0.089 (J)	0.053 (J)	0.065 (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		0.057 (J)		0.073 (J)	0.041 (J)				
11/8/2016		<0.1	<0.1	<0.1		<0.1	<0.1	<0.1	0.227 (J)
11/9/2016	<0.1				<0.1				
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	0.06 (J)	0.1			0.08 (J)	0.3
7/5/2017	0.05 (J)	<0.1	<0.1	0.05 (J)	<0.1	<0.1	<0.1	0.08 (J)	0.3
9/5/2017			<0.1	0.06 (J)					
9/7/2017	0.06 (J)	0.04 (J)			0.04 (J)	<0.1	<0.1	0.09 (J)	0.37
2/5/2018	0.08 (J)		0.04 (J)						0.37
2/6/2018		0.04 (J)		0.06 (J)	<0.1	<0.1	<0.1	0.08 (J)	
2/7/2018									
6/11/2018						0.04 (J)	<0.1	0.09 (J)	
6/12/2018	0.06 (J)	0.04 (J)	<0.1	0.05 (J)	<0.1				0.32
10/22/2018		0.05 (J)	<0.1			0.06 (J)	<0.1	0.1	
10/23/2018	0.06 (J)			0.05 (J)					0.39
10/24/2018					<0.1				
5/20/2019			<0.1			0.0842 (J)	<0.1	0.0919 (J)	
5/21/2019	0.0649 (J)	0.0526 (J)			<0.1				0.264
5/22/2019				0.0515 (J)					
9/3/2019		0.0554 (J)			<0.1				
9/4/2019	0.0547 (J)		<0.1	0.0594 (J)		0.0962 (J)	<0.1	0.07 (J)	0.33
2/11/2020						<0.1	<0.1	0.0912 (J)	
2/12/2020	0.0586 (J)	<0.1	<0.1	0.0566 (J)	<0.1				0.301
9/8/2020		0.097 (J)				<0.1	<0.1		
9/9/2020	0.068 (J)		0.0644 (J)	0.0748 (J)	<0.1			0.118	0.313
4/13/2021	<0.1	0.0602 (J)	<0.1	0.069 (J)	<0.1	<0.1	<0.1	0.129	0.29

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 6/9/2021 2:53 PM View: Appendix III - Interwell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-13	GN-GSA-MW-10	GN-GSA-MW-8	GN-GSA-MW-14S...GN-GSA-MW-15 ...	
3/23/2016					
3/24/2016	0.039 (J)	0.02 (J)	0.132 (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	0.075 (J)	0.051 (J)	0.167 (J)		0.062 (J)
8/23/2016				0.066 (J)	0.045 (J)
9/6/2016	0.058 (J)	0.037 (J)	0.153 (J)		
9/7/2016				0.062 (J)	0.042 (J)
11/8/2016	0.3 (U)		0.043 (J)	<0.1	<0.1
11/9/2016		0.3 (U)			
1/3/2017				<0.1	<0.1
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	0.04 (J)	0.1		0.06 (J)	0.1
7/5/2017	0.04 (J)	<0.1	0.13	0.04 (J)	<0.1
9/5/2017				0.06 (J)	<0.1
9/7/2017	0.05 (J)	<0.1	0.13		
2/5/2018	0.04 (J)				
2/6/2018		<0.1	0.15	0.06 (J)	
2/7/2018					<0.1
6/11/2018					
6/12/2018	0.04 (J)	<0.1	0.13	0.05 (J)	<0.1
10/22/2018			0.15		
10/23/2018	0.05 (J)			0.07 (J)	<0.1
10/24/2018		<0.1			
5/20/2019					
5/21/2019	0.0595 (J)	<0.1	0.109		
5/22/2019				0.0601 (J)	<0.1
9/3/2019		<0.1	0.123		
9/4/2019	0.0555 (J)			0.0703 (J)	<0.1
2/11/2020					
2/12/2020	<0.1	<0.1	0.108	<0.1	<0.1
9/8/2020		0.0617 (J)			
9/9/2020	0.0655 (J)		0.14	0.0847 (J)	<0.1
4/13/2021	0.0633 (J)	<0.1	0.119	<0.1	<0.1

Prediction Limit

Constituent: pH (pH) Analysis Run 6/9/2021 2:53 PM View: Appendix III - Interwell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-12	GN-GSA-MW-9	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-11	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-1
3/23/2016	7.28	6.88	7.18	6.83	6.26	6.41	4.91	6.5	
3/24/2016									7.7
5/10/2016	7.19		7.2	6.84					7.67
5/11/2016		6.84			6.04	6.5	4.79	6.54	
7/5/2016			7.15						7.68
7/6/2016	7.29	7.01		6.94	6	6.47	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		7.03		6.84	6.1				
11/8/2016		7.15	7.12	6.84		6.48	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	6.67	7.12		5.99				
2/22/2017									7.61
5/30/2017		6.91				6.38	4.61		
5/31/2017	7.16		7.17	6.91	6.03			6.54	7.7
7/5/2017	7.08	6.51	7.18	7.02	6.13	6.44	4.64	6.67	7.66
9/5/2017			7.17	6.78					
9/7/2017	7.17	6.96			6.17	6.44	4.67	6.69	7.7
2/5/2018	7.22		7.12						7.78
2/6/2018		6.8		6.96	6.17	6.36	4.61	6.71	
2/7/2018									
6/11/2018						6.43	4.68	6.7	
6/12/2018	7.19	6.77	7.19	6.76	6.13				7.62
10/22/2018		6.86	7.06			6.48	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	6.79			5.97				7.5
5/22/2019				6.38					
9/3/2019		6.53			5.12				
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	6.57	7.11	6.98	6				7.66
9/8/2020		5.85				6.2	6		
9/9/2020	6.77		7.22	6.48	5.67			6.86	7.6
4/13/2021	6.61	6.9	6.94	6.71	5.46	6.36	4.63	6.84	7.7

Prediction Limit

Constituent: pH (pH) Analysis Run 6/9/2021 2:53 PM View: Appendix III - Interwell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-13	GN-GSA-MW-10	GN-GSA-MW-8	GN-GSA-MW-14S...GN-GSA-MW-15 ...	
3/23/2016					
3/24/2016	7.14	6.95	7.45		
5/10/2016	7.17				
5/11/2016		7.07	7.48		
7/5/2016				7.44	
7/6/2016	7.19	7.13	7.46		6.1
8/23/2016				7.47	5.87
9/6/2016	7.18	7.1	7.44		
9/7/2016				7.51	5.92
11/8/2016	7.18		7.37	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	7.07	7.01		7.47	6
7/5/2017	7	7.07	7.44	7.5	6
9/5/2017				7.39	5.9
9/7/2017	7.02	7.01	7.41		
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	7.09	7.07	7.4	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	7.05	6.98	7.31		
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	7.09	7.03	7.51	7.47	5.72
9/8/2020		5.9			
9/9/2020	6.95		7.54	7.32	5.71
4/13/2021	7.17	7.22	7.7	7.33	5.84

FIGURE F.

Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 6/9/2021, 2:57 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	**GN-GSA-MW-1**	**2.013**	**61**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GN-GSA-MW-12**	**3.33**	**69**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GN-GSA-MW-15 (bg)**	**-0.9409**	**-84**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GN-GSA-MW-3 (bg)**	**-10.19**	**-90**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GN-GSA-MW-5**	**6.053**	**84**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-11**	**1.36**	**84**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-14S (bg)**	**-0.5546**	**-83**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-15 (bg)**	**-0.4778**	**-82**	**-58**	**Yes**	**16**	**6.25**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-3 (bg)**	**-0.1362**	**-62**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	**GN-GSA-MW-15 (bg)**	**-0.05112**	**-69**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-14S (bg)**	**-1.968**	**-68**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-15 (bg)**	**-0.447**	**-64**	**-58**	**Yes**	**16**	**6.25**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-3 (bg)**	**-3.859**	**-106**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-5**	**19.12**	**82**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-8**	**0.564**	**72**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GN-GSA-MW-15 (bg)**	**-4.057**	**-62**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GN-GSA-MW-3 (bg)**	**-30.24**	**-98**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GN-GSA-MW-5**	**42.28**	**87**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**

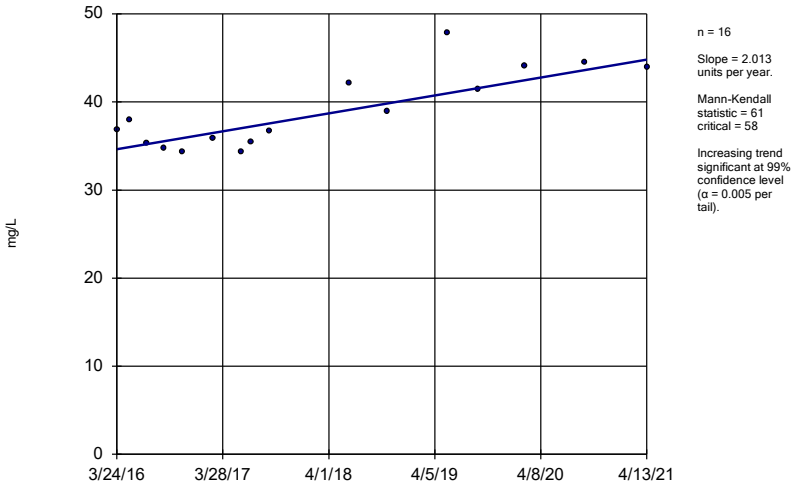
Trend Tests - Prediction Limit Exceedances - All Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 6/9/2021, 2:57 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	**GN-GSA-MW-1**	**2.013**	**61**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GN-GSA-MW-12**	**3.33**	**69**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GN-GSA-MW-14S (bg)	-0.574	-29	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GN-GSA-MW-15 (bg)**	**-0.9409**	**-84**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GN-GSA-MW-2 (bg)	1.277	35	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GN-GSA-MW-3 (bg)**	**-10.19**	**-90**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GN-GSA-MW-5**	**6.053**	**84**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-11**	**1.36**	**84**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-14S (bg)**	**-0.5546**	**-83**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-15 (bg)**	**-0.4778**	**-82**	**-58**	**Yes**	**16**	**6.25**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	GN-GSA-MW-2 (bg)	0.01661	8	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**GN-GSA-MW-3 (bg)**	**-0.1362**	**-62**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	GN-GSA-MW-1	-0.002668	-14	-63	No	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-14S (bg)	4.3e-10	11	63	No	17	23.53	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-15 (bg)	0	39	63	No	17	70.59	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-2 (bg)	8.3e-10	39	63	No	17	52.94	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-3 (bg)	-0.001326	-26	-63	No	17	5.882	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-7	0.003131	27	63	No	17	5.882	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-8	-0.007396	-57	-63	No	17	0	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-1	-0.02086	-43	-63	No	17	0	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-11	-0.0679	-45	-63	No	17	0	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-14S (bg)	-0.009191	-17	-63	No	17	0	n/a	n/a	0.01	NP
pH (pH)	**GN-GSA-MW-15 (bg)**	**-0.05112**	**-69**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	GN-GSA-MW-2 (bg)	-0.01157	-33	-63	No	17	0	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-3 (bg)	-0.04538	-42	-63	No	17	0	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-6	-0.02115	-33	-63	No	17	0	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-8	0.01154	11	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GN-GSA-MW-14S (bg)**	**-1.968**	**-68**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-15 (bg)**	**-0.447**	**-64**	**-58**	**Yes**	**16**	**6.25**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GN-GSA-MW-2 (bg)	0.287	34	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GN-GSA-MW-3 (bg)**	**-3.859**	**-106**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-5**	**19.12**	**82**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-8**	**0.564**	**72**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GN-GSA-MW-14S (bg)	-2.468	-32	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GN-GSA-MW-15 (bg)**	**-4.057**	**-62**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GN-GSA-MW-2 (bg)	-1.609	-22	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GN-GSA-MW-3 (bg)**	**-30.24**	**-98**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GN-GSA-MW-5**	**42.28**	**87**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Sen's Slope Estimator

GN-GSA-MW-1



n = 16

Slope = 2.013 units per year.

Mann-Kendall statistic = 61
critical = 58

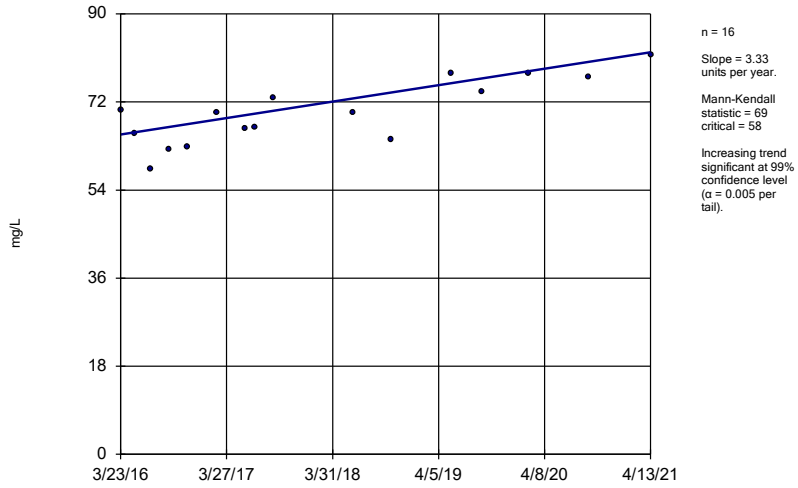
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 6/9/2021 2:55 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-12



n = 16

Slope = 3.33 units per year.

Mann-Kendall statistic = 69
critical = 58

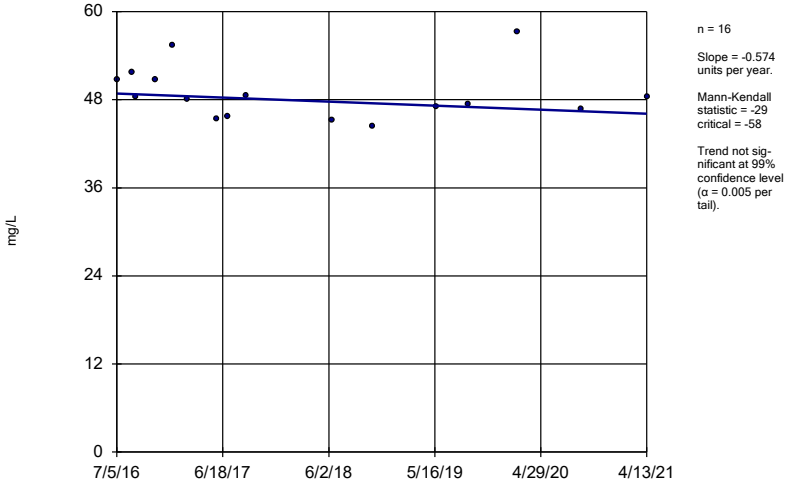
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 6/9/2021 2:55 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-14S (bg)



n = 16

Slope = -0.574 units per year.

Mann-Kendall statistic = -29
critical = -58

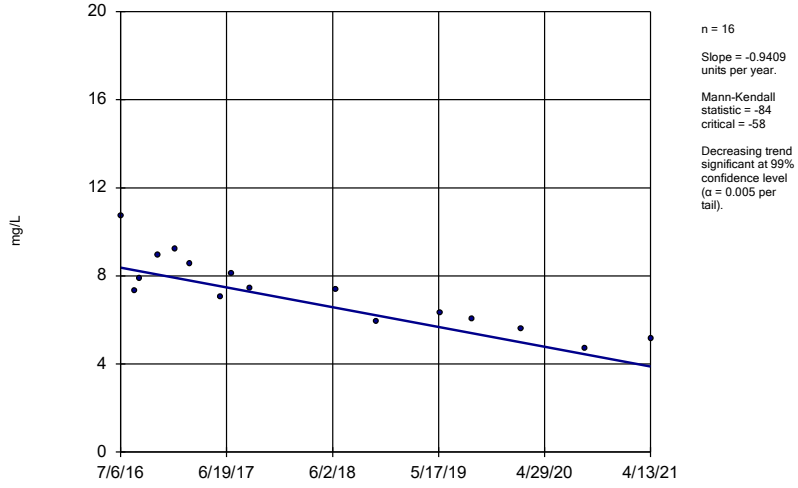
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 6/9/2021 2:55 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-15 (bg)



n = 16

Slope = -0.9409 units per year.

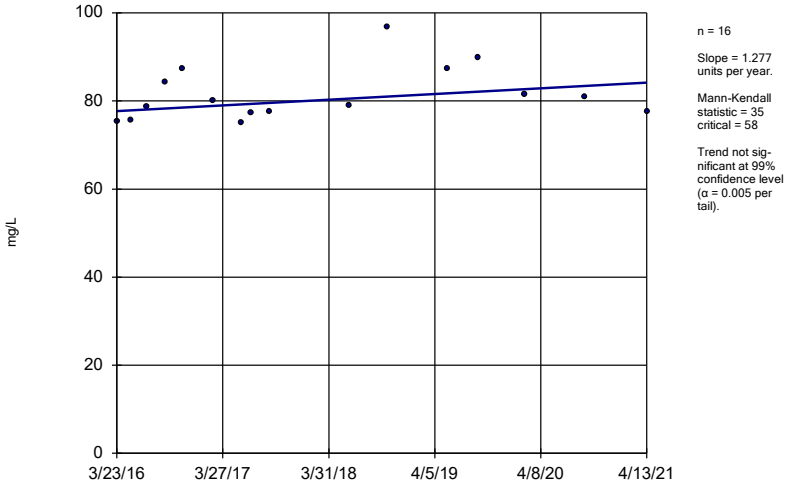
Mann-Kendall statistic = -84
critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 6/9/2021 2:55 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sen's Slope Estimator

GN-GSA-MW-2 (bg)



n = 16

Slope = 1.277 units per year.

Mann-Kendall statistic = 35 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

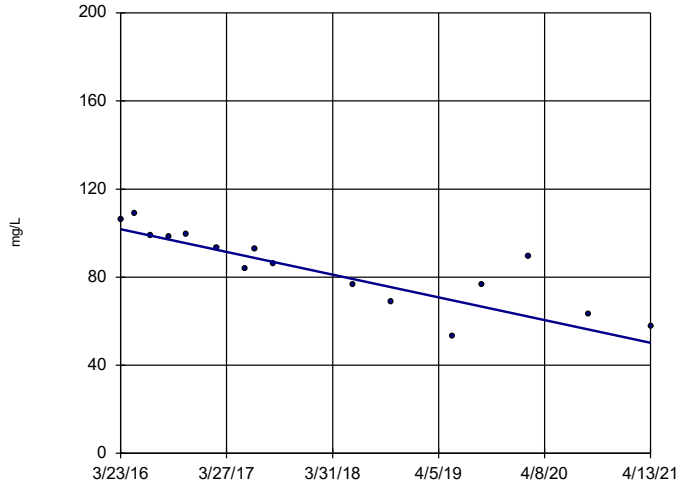
Constituent: Calcium Analysis Run 6/9/2021 2:55 PM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-3 (bg)



n = 16

Slope = -10.19 units per year.

Mann-Kendall statistic = -90 critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

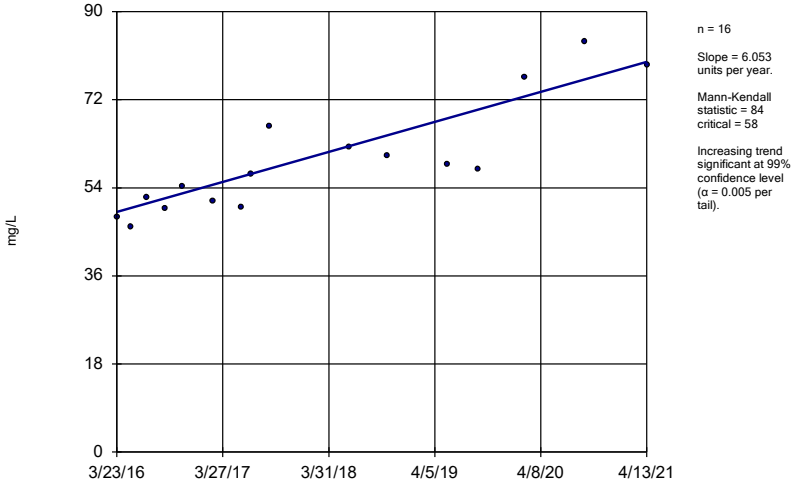
Constituent: Calcium Analysis Run 6/9/2021 2:55 PM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-5



n = 16

Slope = 6.053 units per year.

Mann-Kendall statistic = 84 critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

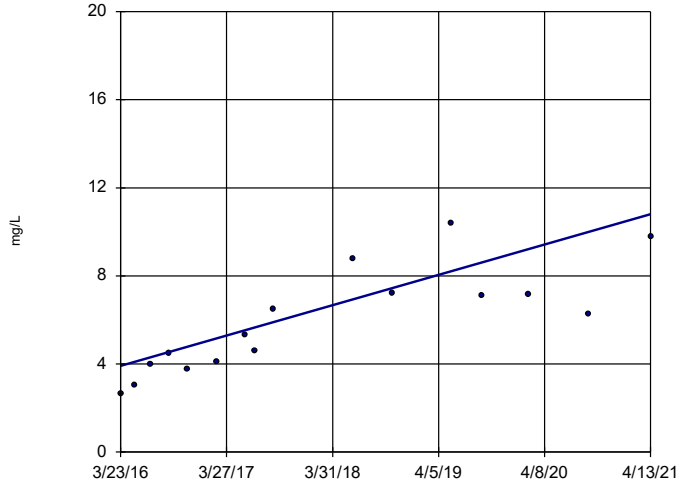
Constituent: Calcium Analysis Run 6/9/2021 2:55 PM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-11



n = 16

Slope = 1.36 units per year.

Mann-Kendall statistic = 84 critical = 58

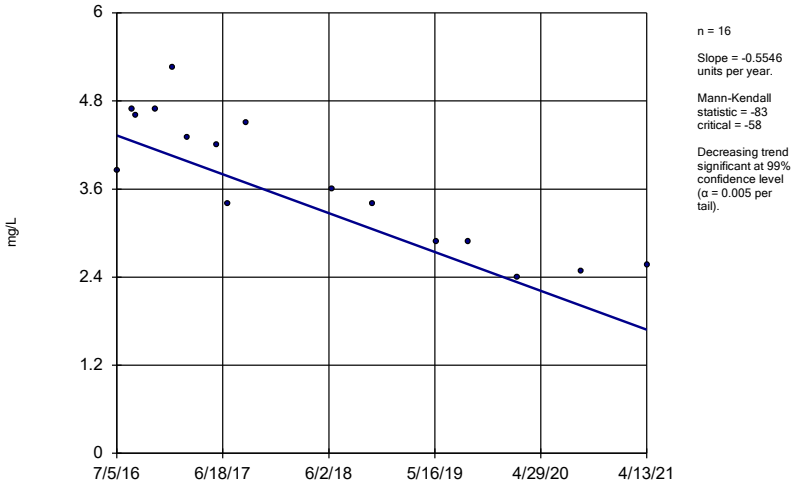
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 6/9/2021 2:55 PM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston GSA

Sen's Slope Estimator

GN-GSA-MW-14S (bg)



n = 16

Slope = -0.5546 units per year.

Mann-Kendall statistic = -83 critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

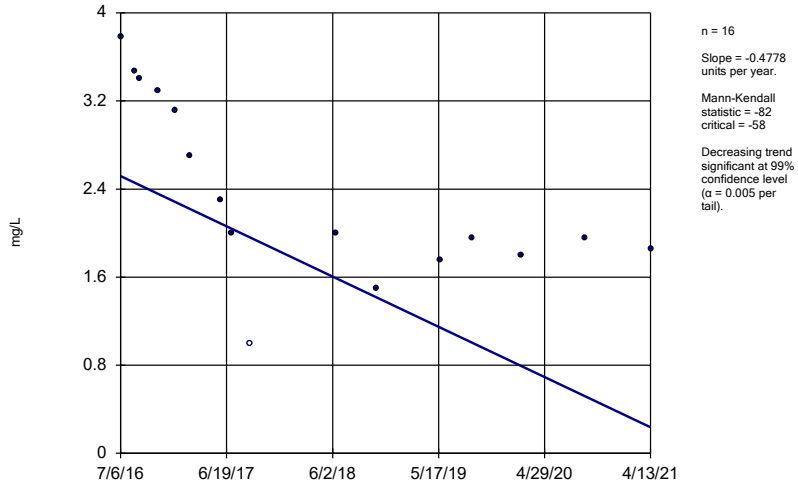
Constituent: Chloride Analysis Run 6/9/2021 2:55 PM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston GSA

Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-GSA-MW-15 (bg)



n = 16

Slope = -0.4778 units per year.

Mann-Kendall statistic = -82 critical = -58

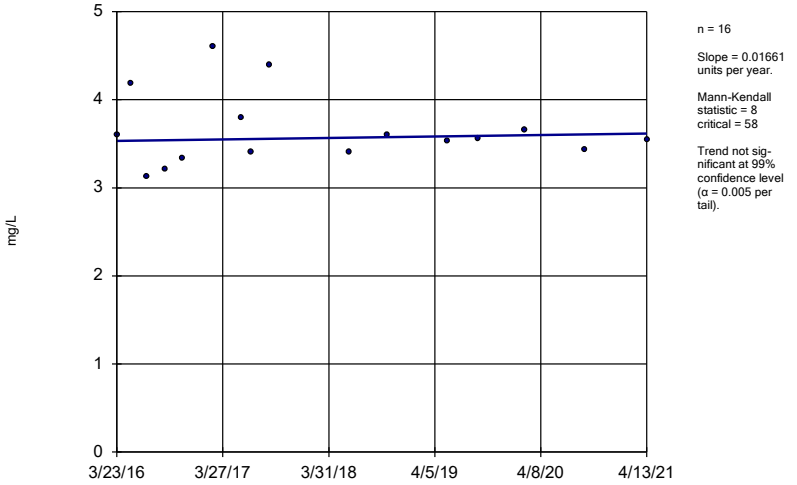
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 6/9/2021 2:55 PM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston GSA

Sen's Slope Estimator

GN-GSA-MW-2 (bg)



n = 16

Slope = 0.01661 units per year.

Mann-Kendall statistic = 8 critical = 58

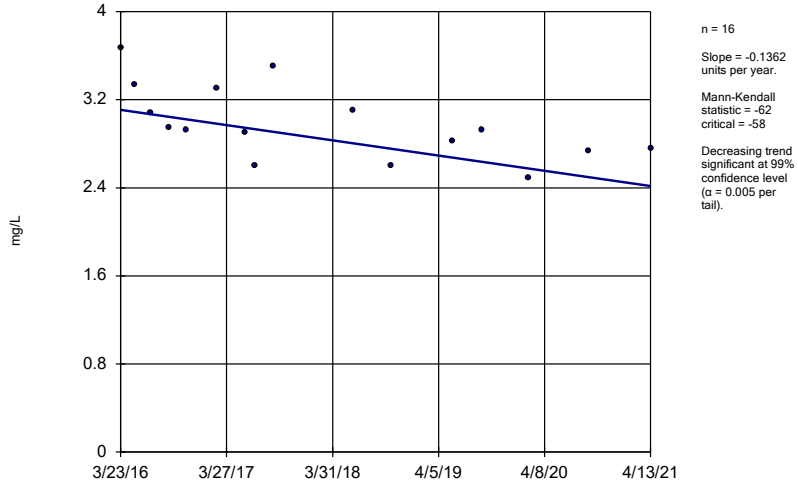
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 6/9/2021 2:55 PM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston GSA

Sen's Slope Estimator

GN-GSA-MW-3 (bg)



n = 16

Slope = -0.1362 units per year.

Mann-Kendall statistic = -62 critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

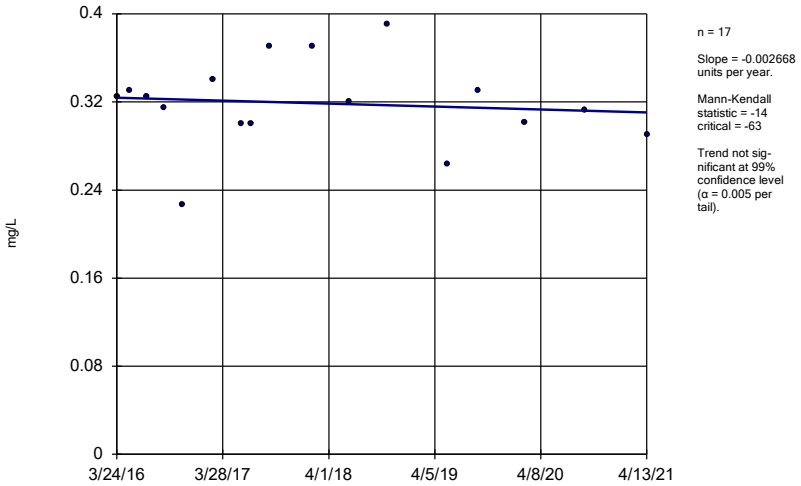
Constituent: Chloride Analysis Run 6/9/2021 2:55 PM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-1



n = 17

Slope = -0.002668 units per year.

Mann-Kendall statistic = -14
critical = -63

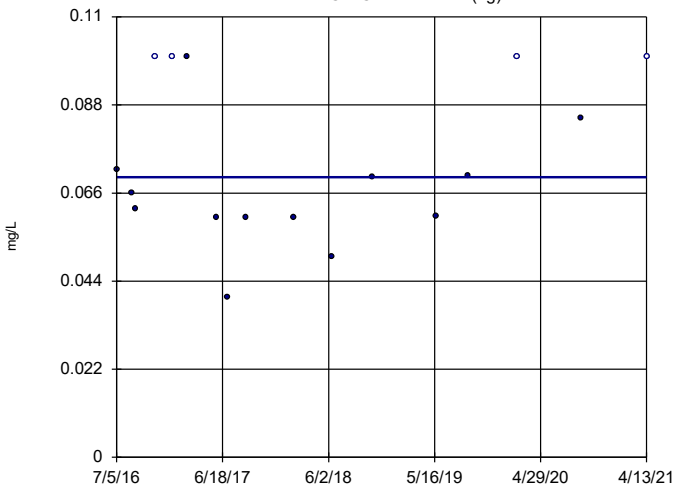
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 6/9/2021 2:55 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-GSA-MW-14S (bg)



n = 17

Slope = 4.3e-10 units per year.

Mann-Kendall statistic = 11
critical = 63

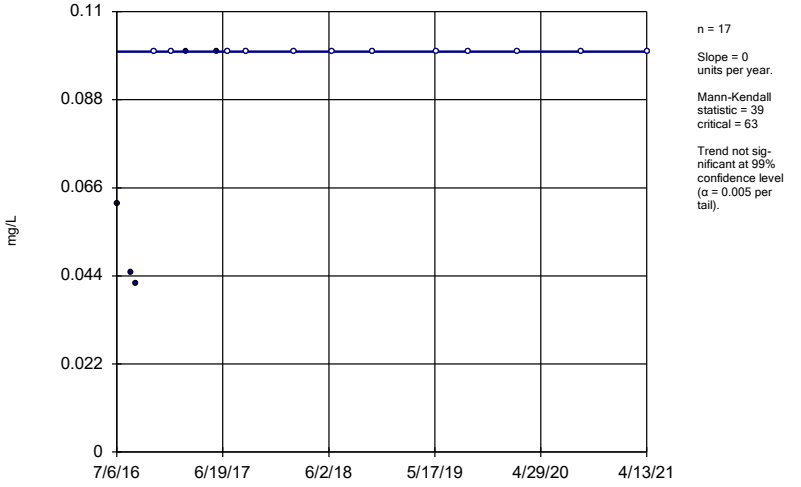
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 6/9/2021 2:55 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-GSA-MW-15 (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = 39
critical = 63

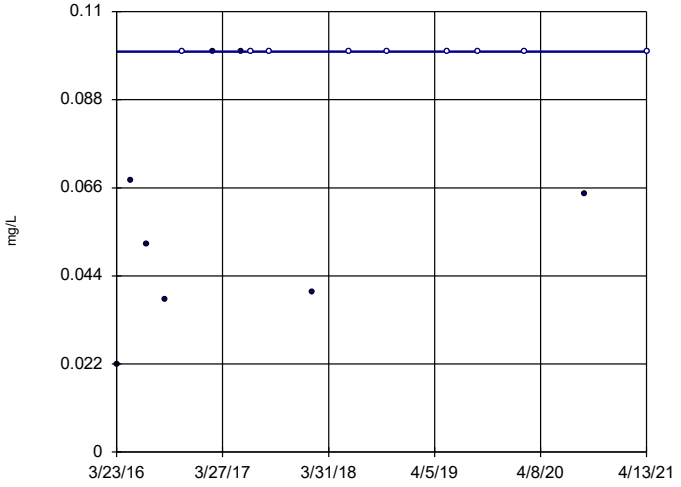
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 6/9/2021 2:55 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-GSA-MW-2 (bg)



n = 17

Slope = 8.3e-10 units per year.

Mann-Kendall statistic = 39
critical = 63

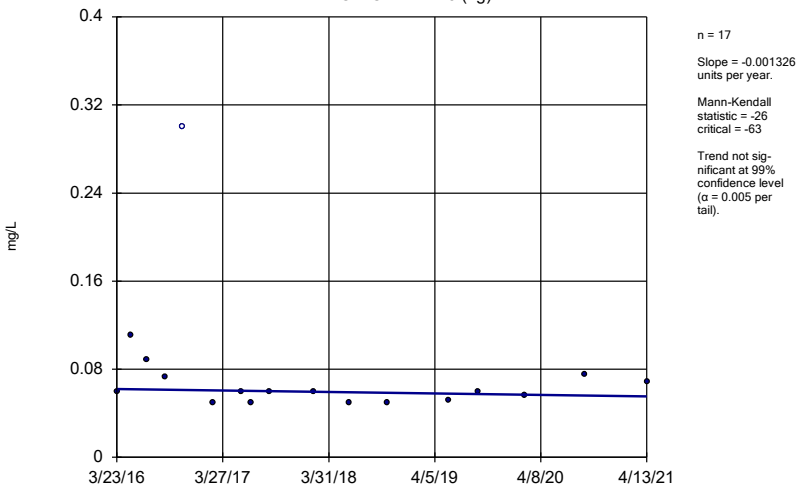
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 6/9/2021 2:55 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-GSA-MW-3 (bg)



n = 17

Slope = -0.001326 units per year.

Mann-Kendall statistic = -26
critical = -63

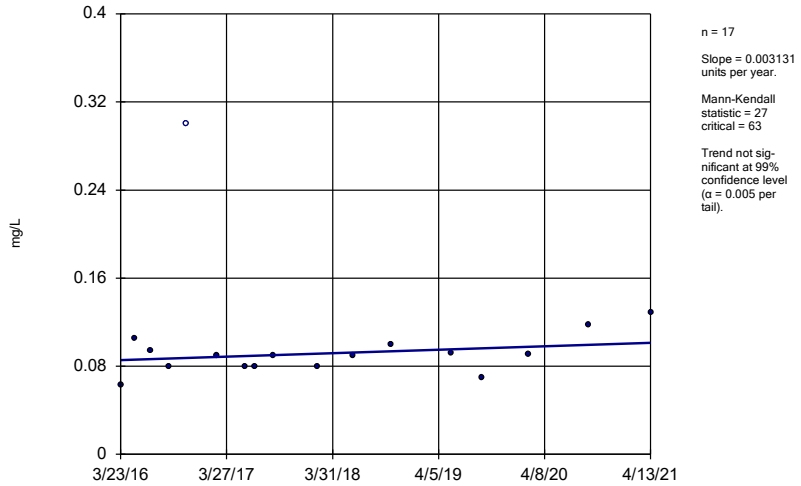
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 6/9/2021 2:55 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-GSA-MW-7



n = 17

Slope = 0.003131 units per year.

Mann-Kendall statistic = 27
critical = 63

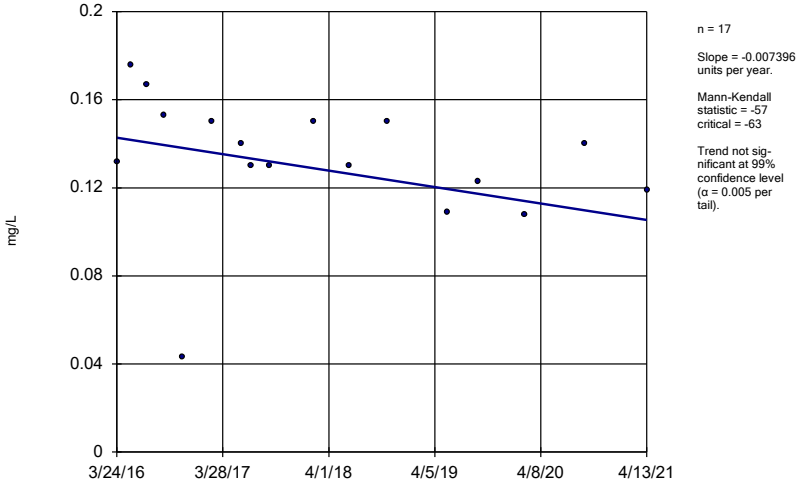
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 6/9/2021 2:55 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-8



n = 17

Slope = -0.007396 units per year.

Mann-Kendall statistic = -57
critical = -63

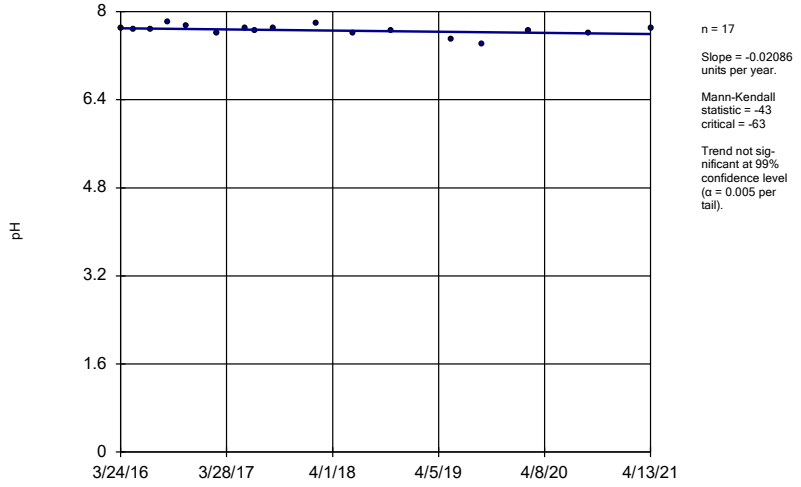
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 6/9/2021 2:55 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-1



n = 17

Slope = -0.02086 units per year.

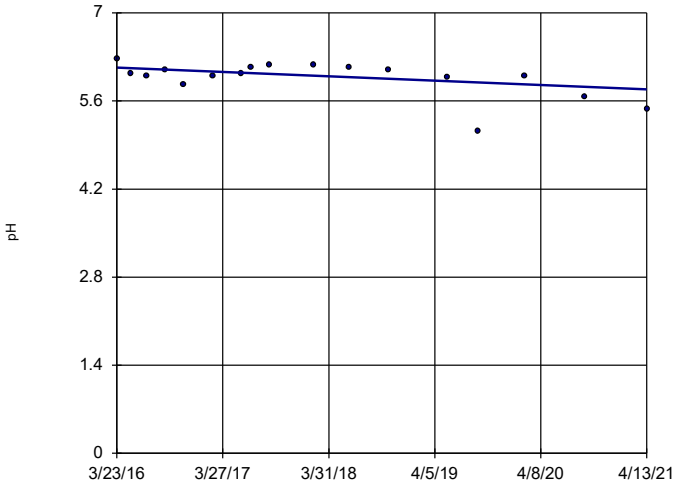
Mann-Kendall statistic = -43
critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 6/9/2021 2:55 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sen's Slope Estimator

GN-GSA-MW-11



n = 17

Slope = -0.0679 units per year.

Mann-Kendall statistic = -45
critical = -63

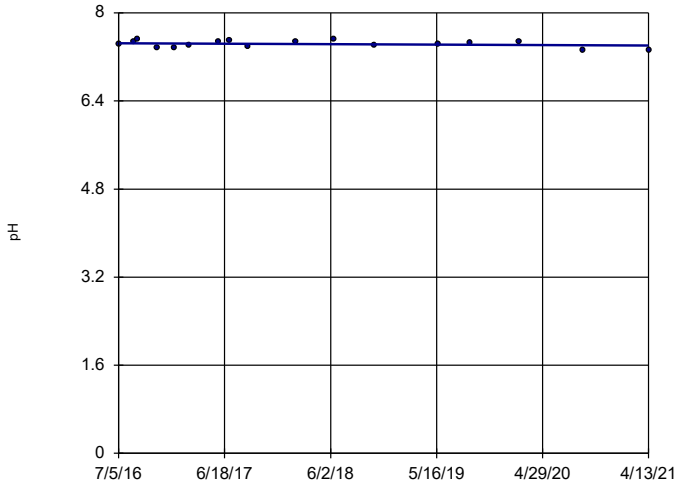
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 6/9/2021 2:55 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-14S (bg)



n = 17

Slope = -0.009191 units per year.

Mann-Kendall statistic = -17
critical = -63

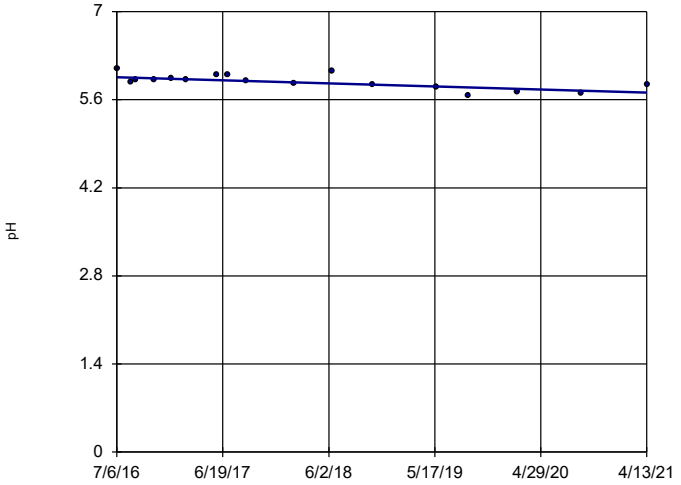
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 6/9/2021 2:55 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-15 (bg)



n = 17

Slope = -0.05112 units per year.

Mann-Kendall statistic = -69
critical = -63

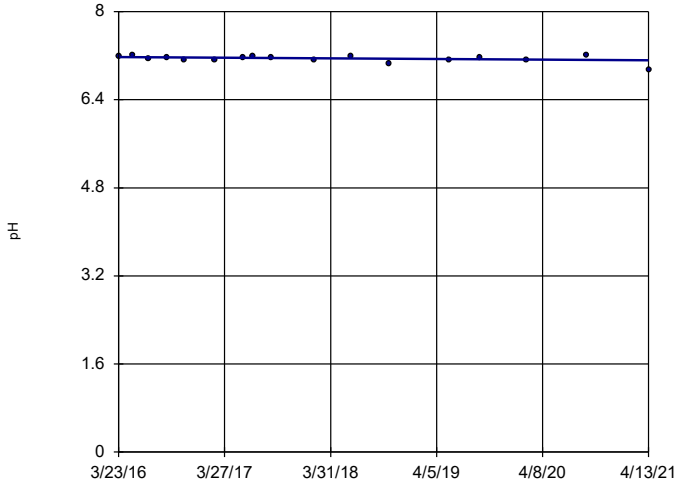
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 6/9/2021 2:55 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-2 (bg)



n = 17

Slope = -0.01157 units per year.

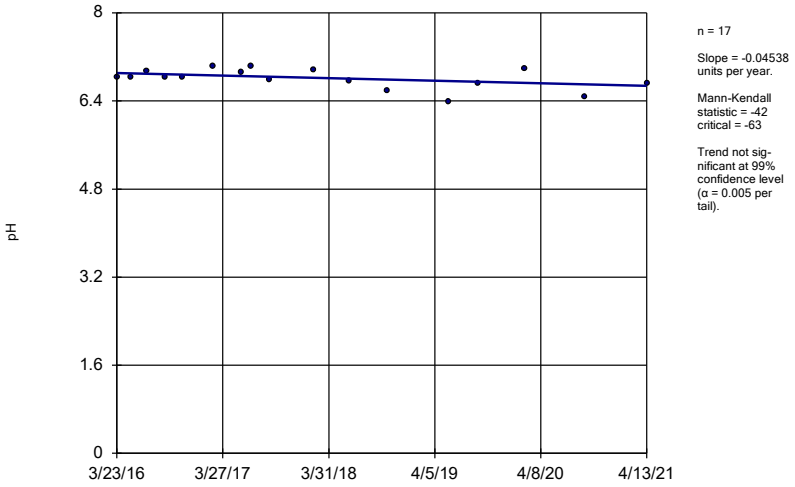
Mann-Kendall statistic = -33
critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 6/9/2021 2:55 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sen's Slope Estimator

GN-GSA-MW-3 (bg)



n = 17

Slope = -0.04538 units per year.

Mann-Kendall statistic = -42 critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

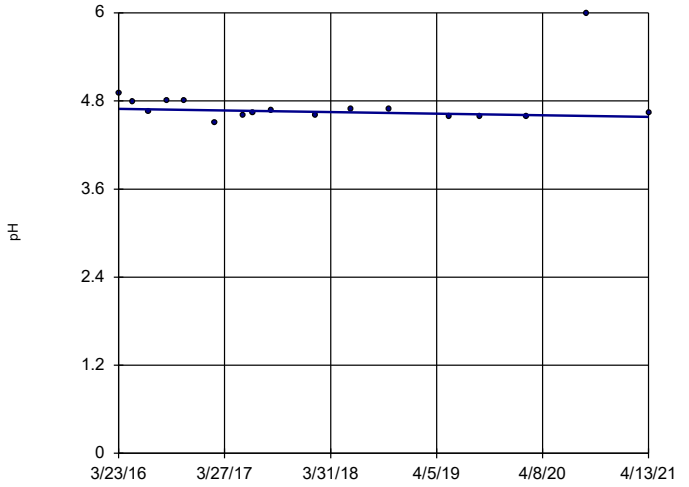
Constituent: pH Analysis Run 6/9/2021 2:55 PM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-6



n = 17

Slope = -0.02115 units per year.

Mann-Kendall statistic = -33 critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

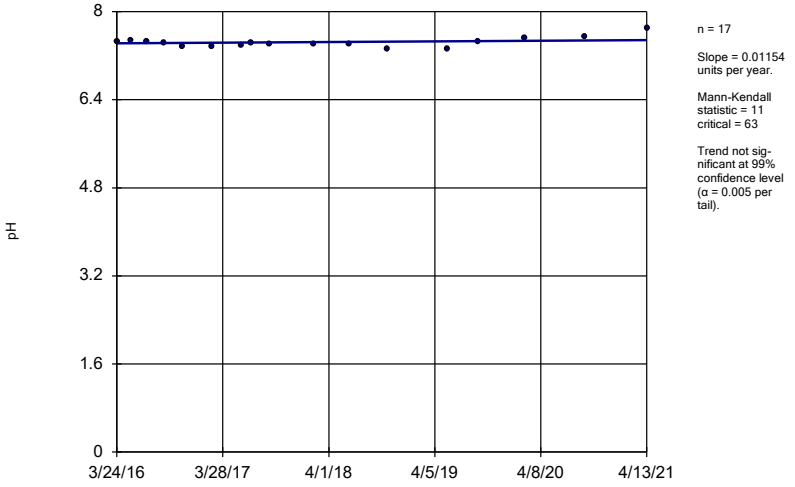
Constituent: pH Analysis Run 6/9/2021 2:55 PM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-8



n = 17

Slope = 0.01154 units per year.

Mann-Kendall statistic = 11 critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

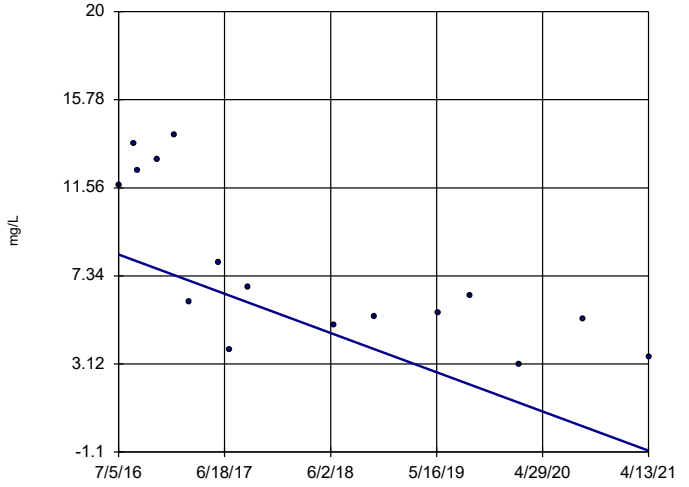
Constituent: pH Analysis Run 6/9/2021 2:55 PM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-14S (bg)



n = 16

Slope = -1.968 units per year.

Mann-Kendall statistic = -68 critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

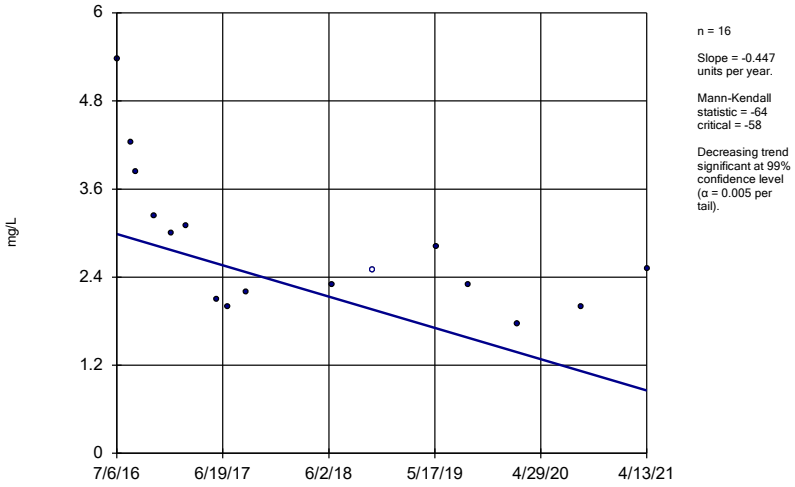
Constituent: Sulfate Analysis Run 6/9/2021 2:55 PM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-GSA-MW-15 (bg)



n = 16

Slope = -0.447 units per year.

Mann-Kendall statistic = -64
critical = -58

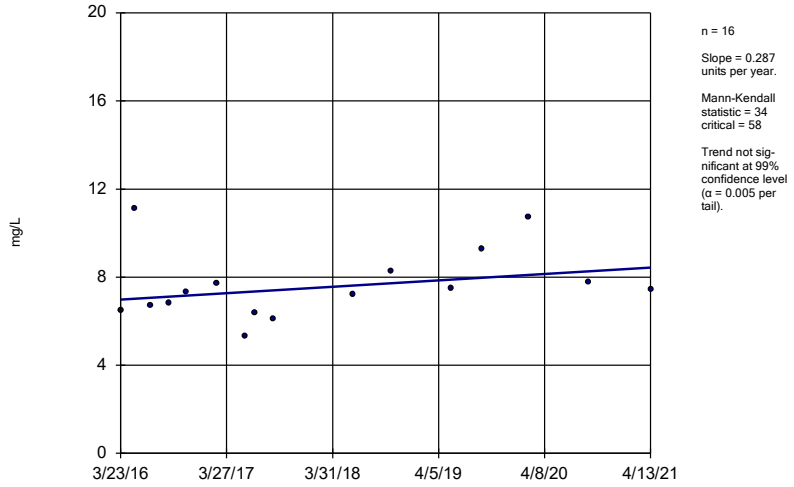
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 6/9/2021 2:56 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-2 (bg)



n = 16

Slope = 0.287 units per year.

Mann-Kendall statistic = 34
critical = 58

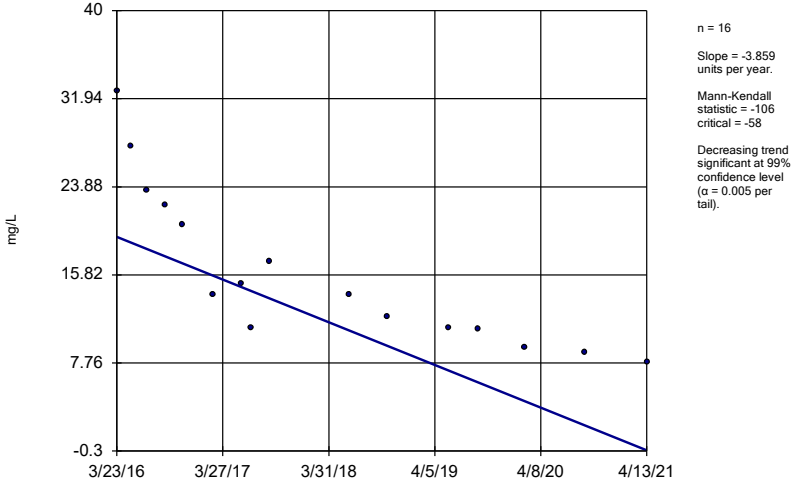
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 6/9/2021 2:56 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-3 (bg)



n = 16

Slope = -3.859 units per year.

Mann-Kendall statistic = -106
critical = -58

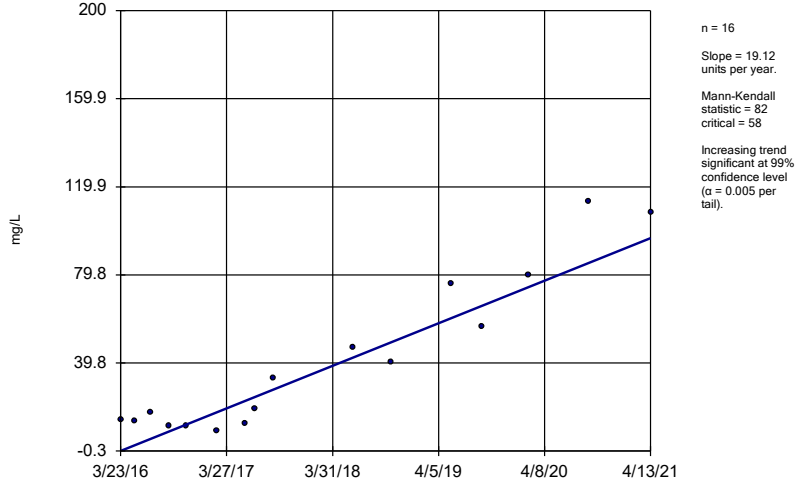
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 6/9/2021 2:56 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-5



n = 16

Slope = 19.12 units per year.

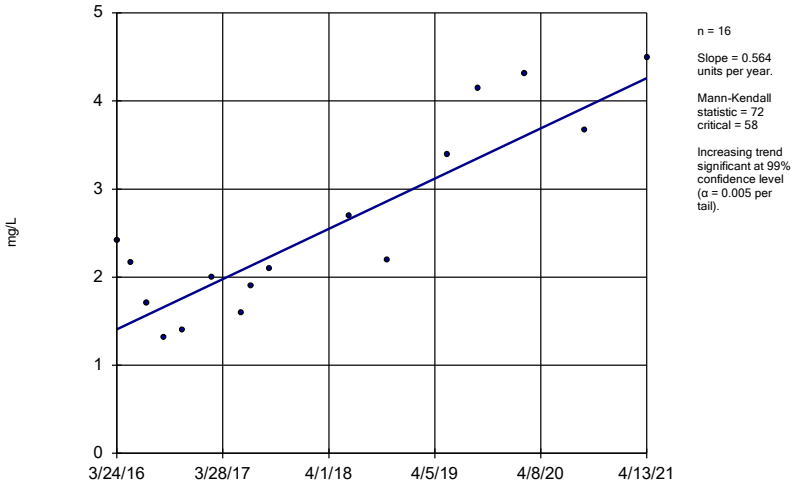
Mann-Kendall statistic = 82
critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 6/9/2021 2:56 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sen's Slope Estimator

GN-GSA-MW-8



n = 16

Slope = 0.564 units per year.

Mann-Kendall statistic = 72
critical = 58

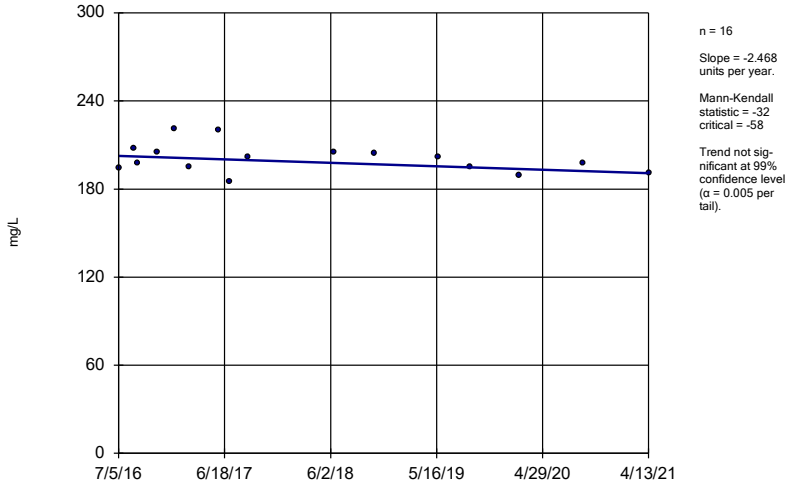
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 6/9/2021 2:56 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-14S (bg)



n = 16

Slope = -2.468 units per year.

Mann-Kendall statistic = -32
critical = -58

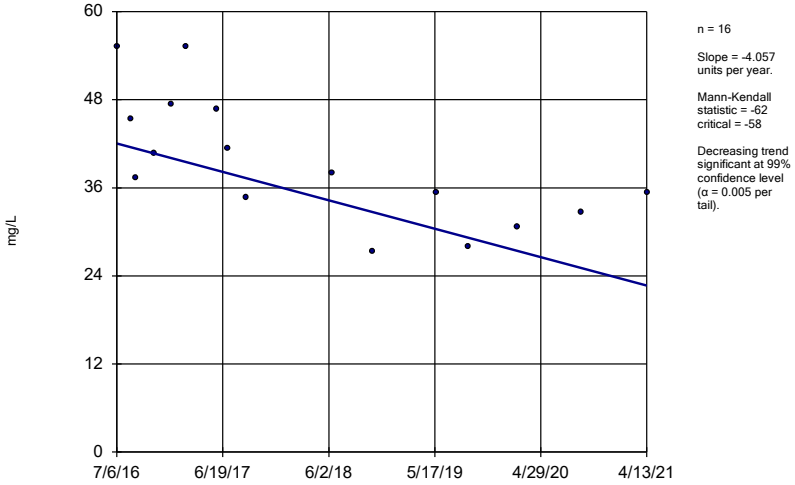
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 6/9/2021 2:56 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-15 (bg)



n = 16

Slope = -4.057 units per year.

Mann-Kendall statistic = -62
critical = -58

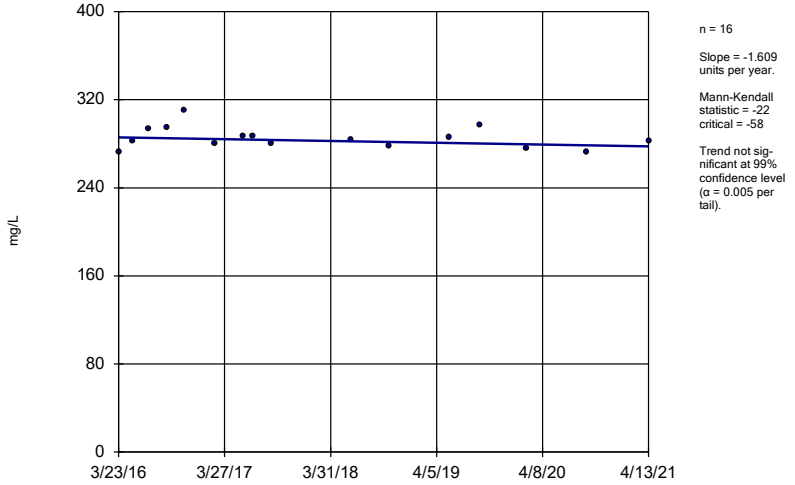
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 6/9/2021 2:56 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-2 (bg)



n = 16

Slope = -1.609 units per year.

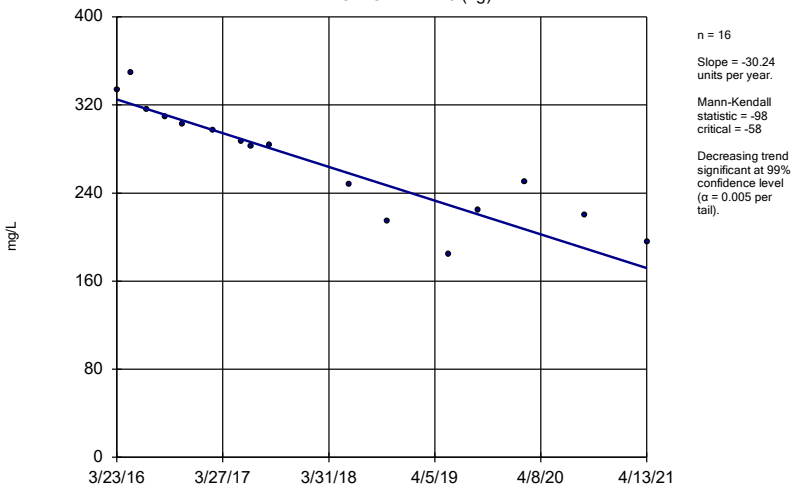
Mann-Kendall statistic = -22
critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 6/9/2021 2:56 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sen's Slope Estimator

GN-GSA-MW-3 (bg)



n = 16

Slope = -30.24 units per year.

Mann-Kendall statistic = -98
critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

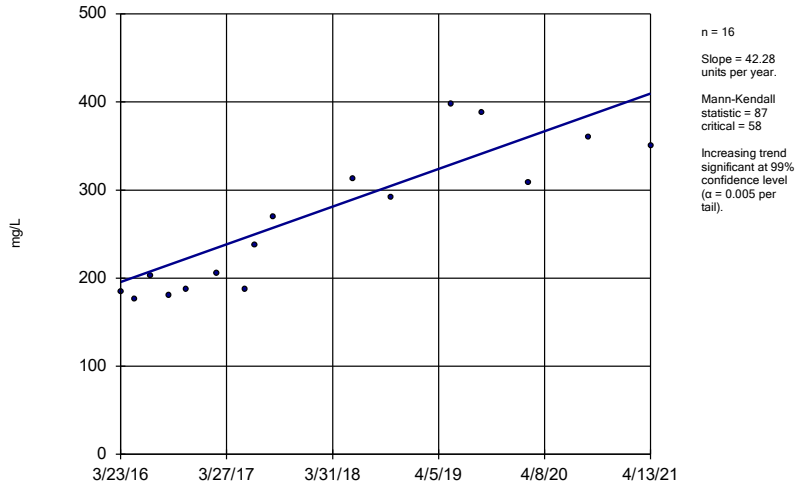
Constituent: TDS Analysis Run 6/9/2021 2:56 PM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-5



n = 16

Slope = 42.28 units per year.

Mann-Kendall statistic = 87
critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 6/9/2021 2:56 PM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston GSA

FIGURE G.

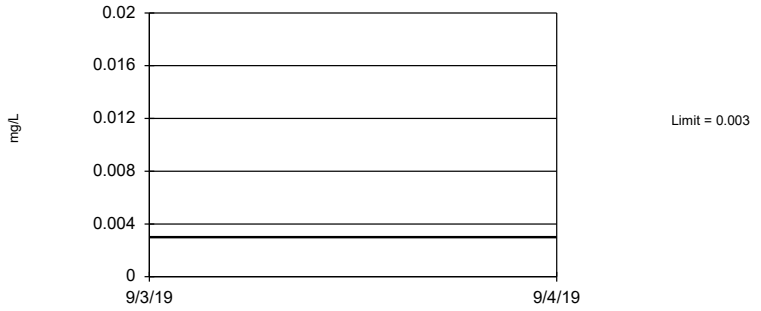
Upper Tolerance Limits - Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 7/23/2020, 10:39 AM

Constituent	Upper Lim.	Lower Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.003	n/a	52	n/a	n/a	94.23	n/a	n/a	0.06944	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Barium (mg/L)	0.0622	n/a	52	n/a	n/a	0	n/a	n/a	0.06944	NP Inter(normal...
Beryllium (mg/L)	0.003	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Cadmium (mg/L)	0.001	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Chromium (mg/L)	0.01	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Cobalt (mg/L)	0.005	n/a	52	n/a	n/a	96.15	n/a	n/a	0.06944	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	2.36	n/a	52	n/a	n/a	3.846	n/a	n/a	0.06944	NP Inter(normal...
Fluoride (mg/L)	0.111	n/a	56	n/a	n/a	33.93	n/a	n/a	0.05656	NP Inter(normal...
Lead (mg/L)	0.005	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Lithium (mg/L)	0.02	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Mercury (mg/L)	0.0005	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Molybdenum (mg/L)	0.01	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Selenium (mg/L)	0.01	n/a	52	n/a	n/a	100	n/a	n/a	0.06944	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	52	n/a	n/a	98.08	n/a	n/a	0.06944	NP Inter(NDs)

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 52 background values. 94.23% NDs. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06944.

Constituent: Antimony Analysis Run 7/23/2020 10:38 AM View: UTL's - Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06944.

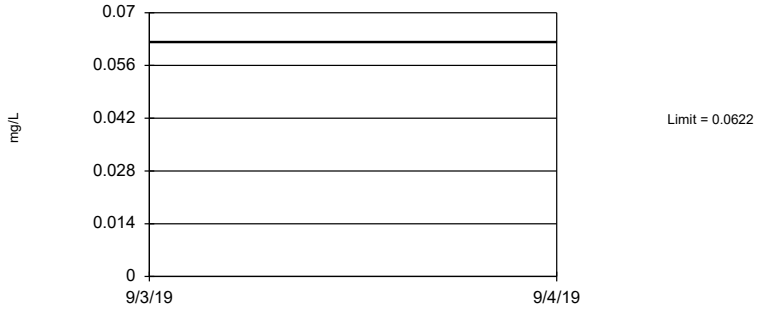
Constituent: Arsenic Analysis Run 7/23/2020 10:38 AM View: UTL's - Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 52 background values. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06944.

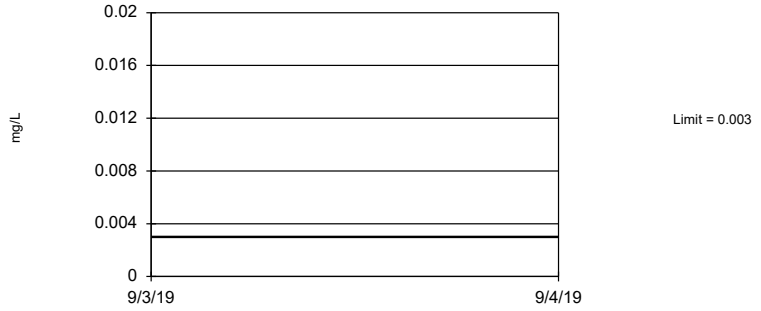
Constituent: Barium Analysis Run 7/23/2020 10:38 AM View: UTL's - Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Tolerance Limit

Interwell Non-parametric



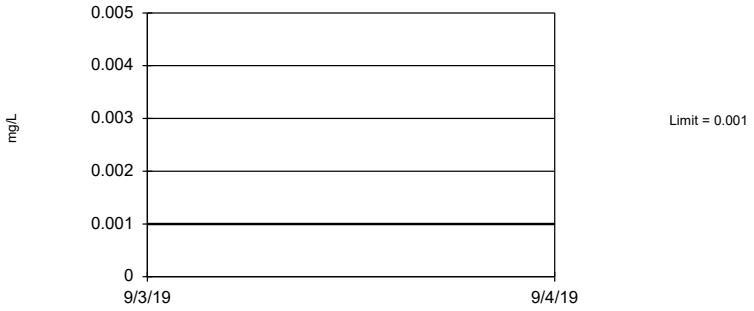
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06944.

Constituent: Beryllium Analysis Run 7/23/2020 10:38 AM View: UTL's - Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06944.

Constituent: Cadmium Analysis Run 7/23/2020 10:38 AM View: UTL's - Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06944.

Constituent: Chromium Analysis Run 7/23/2020 10:38 AM View: UTL's - Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 52 background values. 96.15% NDs. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06944.

Constituent: Cobalt Analysis Run 7/23/2020 10:38 AM View: UTL's - Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

Tolerance Limit

Interwell Non-parametric

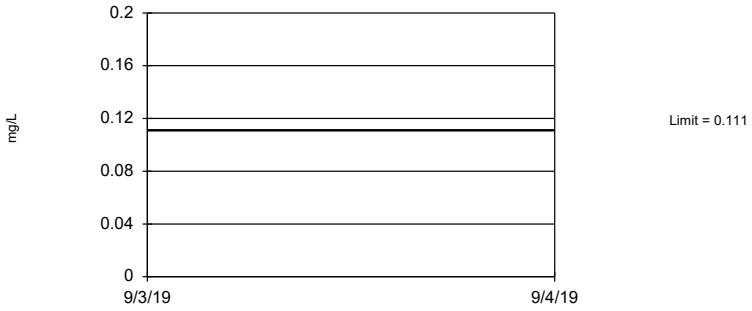
Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 52 background values. 3.846% NDs. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06944.

Constituent: Combined Radium 226 + 228 Analysis Run 7/23/2020 10:38 AM View: UTL's - Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 56 background values. 33.93% NDs. 91.99% coverage at alpha=0.01; 94.73% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.05656.

Constituent: Fluoride Analysis Run 7/23/2020 10:38 AM View: UTL's - Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06944.

Constituent: Lead Analysis Run 7/23/2020 10:38 AM View: UTL's - Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

Tolerance Limit

Interwell Non-parametric

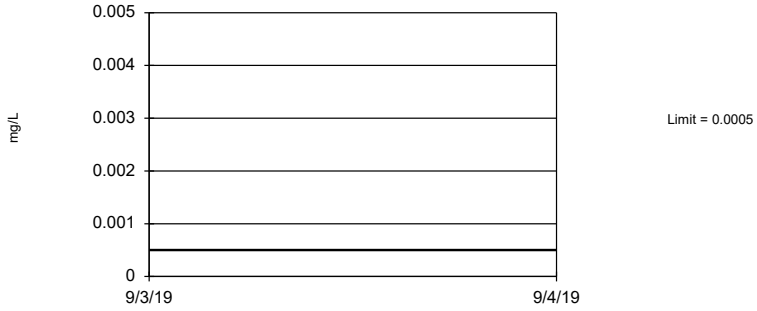
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06944.

Constituent: Lithium Analysis Run 7/23/2020 10:39 AM View: UTL's - Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06944.

Constituent: Mercury Analysis Run 7/23/2020 10:39 AM View: UTL's - Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06944.

Constituent: Molybdenum Analysis Run 7/23/2020 10:39 AM View: UTL's - Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06944.

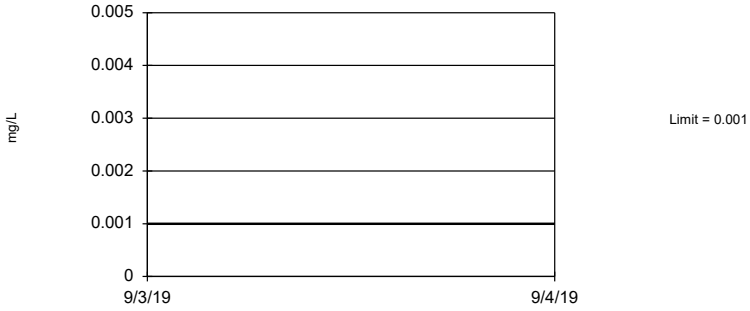
Constituent: Selenium Analysis Run 7/23/2020 10:39 AM View: UTL's - Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 52 background values. 98.08% NDs. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06944.

Constituent: Thallium Analysis Run 7/23/2020 10:39 AM View: UTL's - Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

FIGURE H.

GASTON GYPSUM POND GWPS			
Analyte	**Units**	**Background**	**GWPS**
Antimony	mg/L	0.003	0.006
Arsenic	mg/L	0.005	0.01
Barium	mg/L	0.0622	2
Beryllium	mg/L	0.003	0.004
Cadmium	mg/L	0.001	0.005
Chromium	mg/L	0.01	0.1
Cobalt	mg/L	0.005	0.006
Combined Radium-226/228	pCi/L	2.36	5
Fluoride	mg/L	0.111	4
Lead	mg/L	0.005	0.015
Lithium	mg/L	0.02	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.01	0.1
Selenium	mg/L	0.01	0.05
Thallium	mg/L	0.001	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 2019.

FIGURE I.

Confidence Intervals - All Results (No Significant)

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 6/9/2021, 3:16 PM

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	0.001015	0.000909	0.006	No	8	0.001002	0.00003748	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-GSA-MW-10	0.001015	0.000916	0.006	No	8	0.001003	0.000035	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-GSA-MW-12	0.001015	0.000813	0.006	No	8	0.0009898	0.00007142	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-GSA-MW-13	0.00127	0.001015	0.006	No	8	0.001047	0.00009016	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-GSA-MW-5	0.00241	0.001015	0.006	No	8	0.001189	0.0004932	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-GSA-MW-6	0.00171	0.001015	0.006	No	8	0.001102	0.0002457	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-GSA-MW-7	0.00123	0.001015	0.006	No	8	0.001042	0.00007601	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-GSA-MW-8	0.00106	0.001015	0.006	No	8	0.001021	0.00001591	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-GSA-MW-9	0.00112	0.001015	0.006	No	8	0.001028	0.00003712	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-1	0.0112	0.004025	0.01	No	8	0.007615	0.003387	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-GSA-MW-10	0.005	0.0000871	0.01	No	8	0.004386	0.001737	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-11	0.005	0.0000935	0.01	No	8	0.004387	0.001735	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-12	0.005	0.00033	0.01	No	8	0.00395	0.00196	75	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-13	0.005	0.000189	0.01	No	8	0.004209	0.001709	75	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-5	0.00281	0.0009091	0.01	No	8	0.003037	0.001793	37.5	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	GN-GSA-MW-6	0.005	0.0000988	0.01	No	8	0.004387	0.001733	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-7	0.005	0.000469	0.01	No	8	0.003934	0.00198	75	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-8	0.001408	0.00118	0.01	No	8	0.001294	0.0001077	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-GSA-MW-9	0.005	0.000237	0.01	No	8	0.004405	0.001684	87.5	None	No	0.004	NP (NDs)
Barium (mg/L)	GN-GSA-MW-1	2.504	1.963	2	No	8	2.234	0.2552	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-10	0.03791	0.03259	2	No	8	0.03525	0.002512	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-11	0.006535	0.005	2	No	8	0.005768	0.0007242	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-12	0.02464	0.01874	2	No	8	0.02169	0.002781	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-13	0.0697	0.039	2	No	8	0.04699	0.009667	0	None	No	0.004	NP (normality)
Barium (mg/L)	GN-GSA-MW-5	0.07298	0.043	2	No	8	0.05799	0.01414	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-6	0.0185	0.0155	2	No	8	0.01671	0.001185	0	None	No	0.004	NP (normality)
Barium (mg/L)	GN-GSA-MW-7	0.02292	0.01561	2	No	8	0.01926	0.003447	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-8	0.0314	0.0248	2	No	8	0.02773	0.002711	0	None	No	0.004	NP (normality)
Barium (mg/L)	GN-GSA-MW-9	0.02653	0.02222	2	No	8	0.02438	0.002031	0	None	No	0.01	Param.
Chromium (mg/L)	GN-GSA-MW-13	0.01	0.000518	0.1	No	8	0.007815	0.004066	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-6	0.01	0.000257	0.1	No	8	0.008782	0.003445	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-7	0.01	0.000361	0.1	No	8	0.008795	0.003408	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-8	0.01	0.000291	0.1	No	8	0.008786	0.003433	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-9	0.01	0.000276	0.1	No	8	0.008784	0.003438	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-11	0.00378	0.00218	0.006	No	8	0.002965	0.0008927	12.5	None	ln(x)	0.01	Param.
Cobalt (mg/L)	GN-GSA-MW-12	0.005	0.000218	0.006	No	8	0.004402	0.001691	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-13	0.005	0.000158	0.006	No	8	0.004395	0.001712	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-5	0.005013	-0.002672	0.006	No	8	0.004195	0.001501	25	Kaplan-Meier	x^6	0.01	Param.
Cobalt (mg/L)	GN-GSA-MW-6	0.005	0.000682	0.006	No	8	0.00446	0.001527	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-7	0.005	0.00077	0.006	No	8	0.004117	0.001676	75	Kaplan-Meier	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-8	0.005	0.000123	0.006	No	8	0.00439	0.001724	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-9	0.005	0.0000816	0.006	No	8	0.004385	0.001739	87.5	None	No	0.004	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-1	1.713	0.6862	5	No	8	1.187	0.5385	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-10	2.244	0.1186	5	No	8	1.14	1.659	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-11	2.25	0.000007558	5	No	8	0.7855	1.15	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-12	1.14	0.2868	5	No	8	0.6979	0.5131	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-13	2.45	-0.0001831	5	No	8	0.8906	1.283	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-5	1.082	0.05296	5	No	8	0.5676	0.4855	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-6	0.9003	0.02898	5	No	8	0.4646	0.411	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-7	0.9806	0.1516	5	No	8	0.5661	0.3911	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-8	0.7353	-0.01702	5	No	8	0.3592	0.3549	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-9	0.8759	0.1244	5	No	8	0.5001	0.3545	0	None	No	0.01	Param.

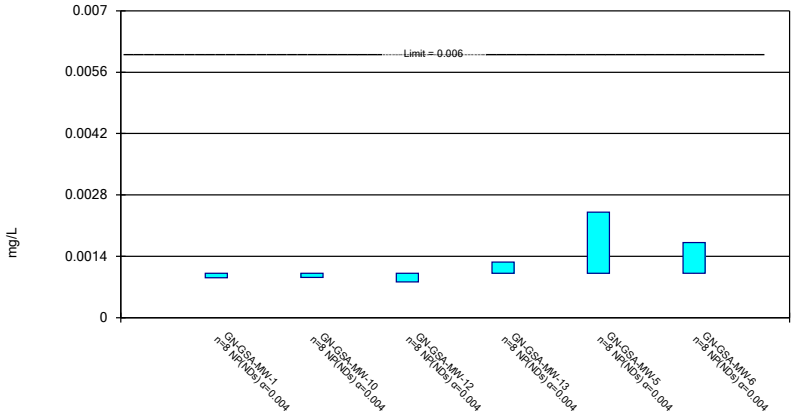
Confidence Intervals - All Results (No Significant)

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 6/9/2021, 3:16 PM

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	0.366	0.2785	4	No	8	0.3223	0.04124	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-GSA-MW-10	0.1	0.0617	4	No	8	0.09521	0.01354	87.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-GSA-MW-12	0.0832	0.05378	4	No	8	0.06828	0.01498	12.5	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	GN-GSA-MW-13	0.07948	0.03897	4	No	8	0.05923	0.01911	12.5	None	No	0.01	Param.
Fluoride (mg/L)	GN-GSA-MW-5	0.1	0.04	4	No	8	0.08505	0.02292	50	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-GSA-MW-7	0.1167	0.07585	4	No	8	0.09626	0.01926	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-GSA-MW-8	0.1465	0.1108	4	No	8	0.1286	0.01682	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-GSA-MW-9	0.08496	0.04021	4	No	8	0.0619	0.02365	12.5	None	ln(x)	0.01	Param.
Lead (mg/L)	GN-GSA-MW-13	0.00228	0.000203	0.015	No	8	0.0004626	0.0007343	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-GSA-MW-6	0.000305	0.000203	0.015	No	8	0.0002158	0.00003606	87.5	None	No	0.004	NP (NDs)
Lithium (mg/L)	GN-GSA-MW-1	0.02	0.00953	0.04	No	8	0.01745	0.004717	75	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-GSA-MW-1	0.007334	0.003609	0.1	No	8	0.005471	0.001757	0	None	No	0.01	Param.
Molybdenum (mg/L)	GN-GSA-MW-12	0.01	0.000298	0.1	No	8	0.008787	0.00343	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-GSA-MW-13	0.01	0.000175	0.1	No	8	0.008772	0.003474	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-GSA-MW-5	0.01	0.000094	0.1	No	8	0.008762	0.003502	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-GSA-MW-7	0.01	0.000276	0.1	No	8	0.008784	0.003438	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-GSA-MW-8	0.004101	0.003122	0.1	No	8	0.003611	0.0004617	0	None	No	0.01	Param.
Molybdenum (mg/L)	GN-GSA-MW-9	0.01	0.000207	0.1	No	8	0.008776	0.003462	87.5	None	No	0.004	NP (NDs)

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

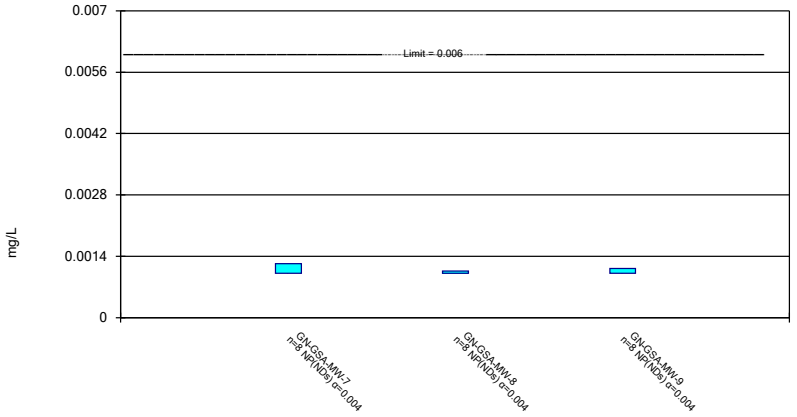


Constituent: Antimony Analysis Run 6/9/2021 3:15 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

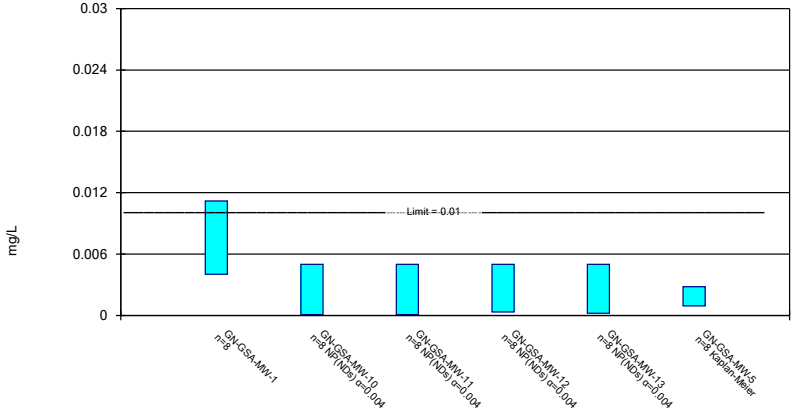


Constituent: Antimony Analysis Run 6/9/2021 3:15 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 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.

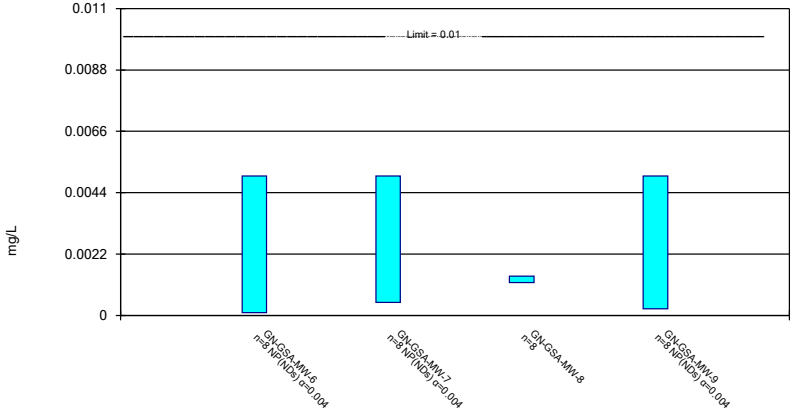


Constituent: Arsenic Analysis Run 6/9/2021 3:15 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

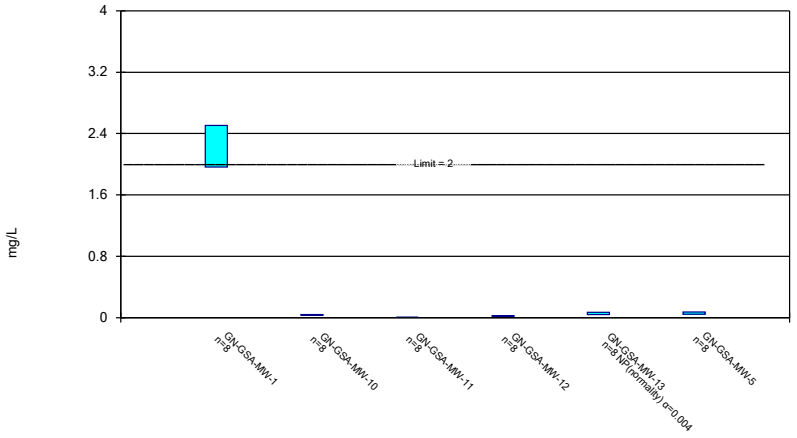
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 6/9/2021 3:15 PM 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 6/9/2021 3:15 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

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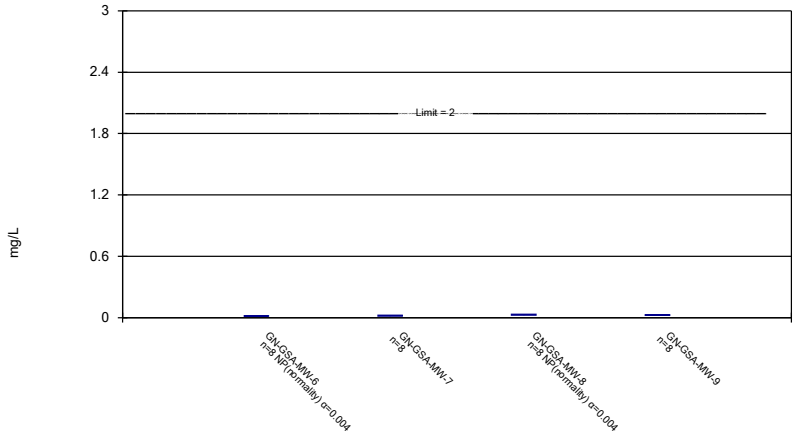
Parametric and Non-Parametric (NP) Confidence Interval

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 6/9/2021 3:15 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

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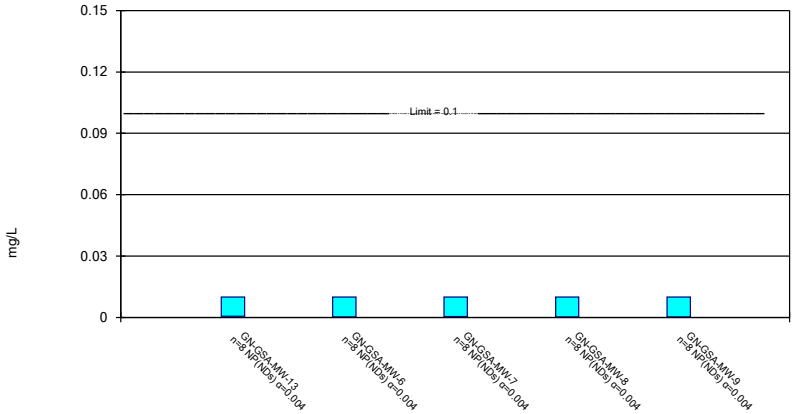
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 6/9/2021 3:16 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

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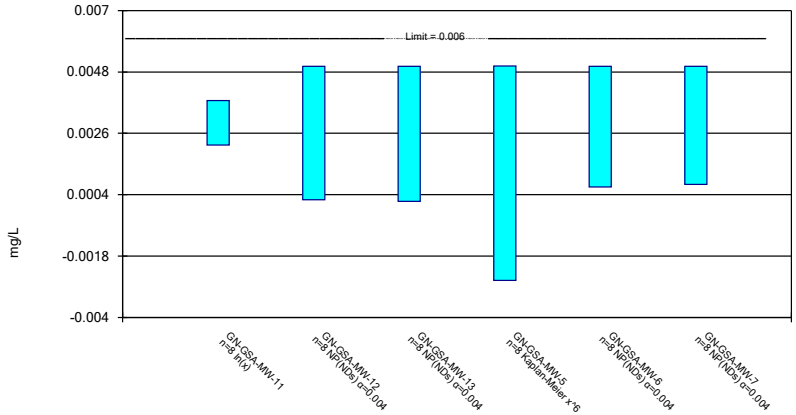
Parametric and Non-Parametric (NP) Confidence Interval

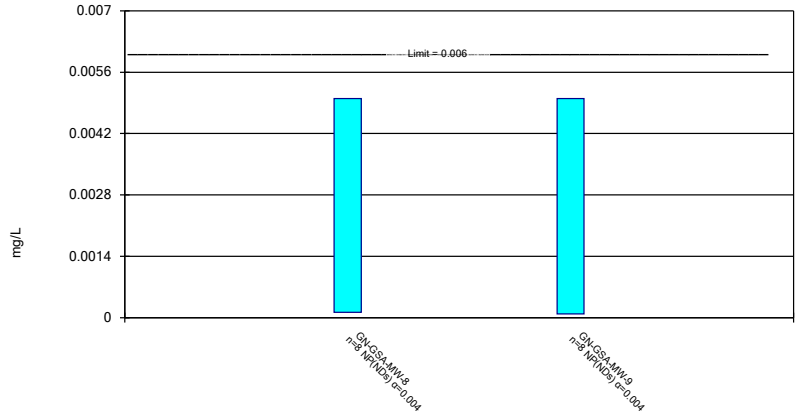
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 6/9/2021 3:16 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Non-Parametric Confidence Interval

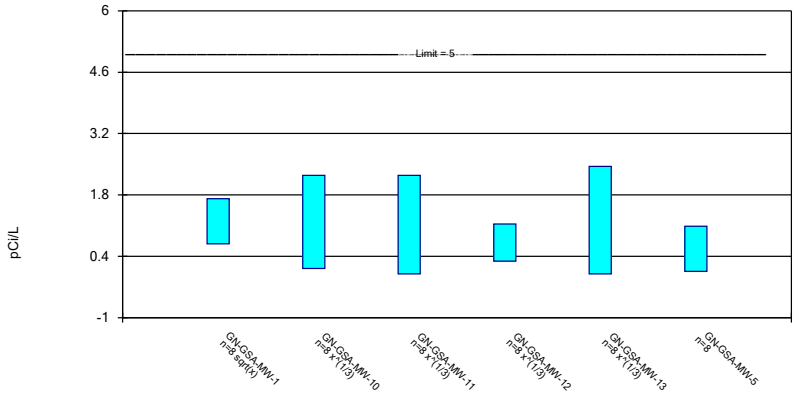
Compliance Limit is not exceeded.



Constituent: Cobalt Analysis Run 6/9/2021 3:16 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Parametric Confidence Interval

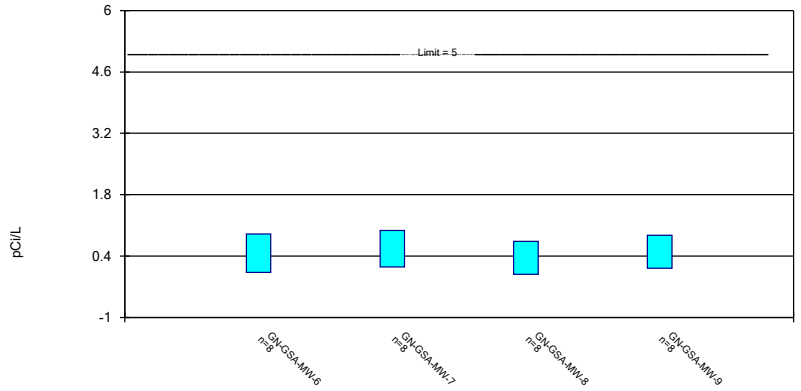
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 6/9/2021 3:16 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Parametric Confidence Interval

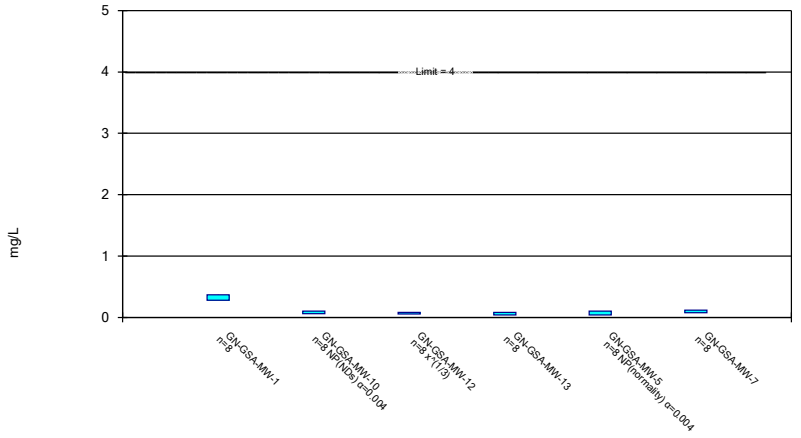
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 6/9/2021 3:16 PM 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 6/9/2021 3:16 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

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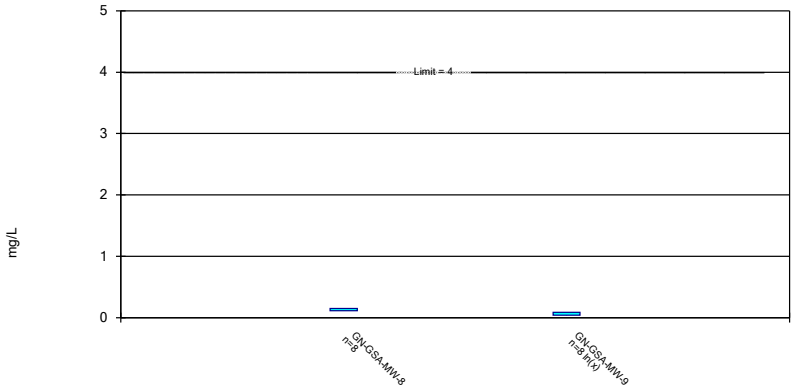
Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

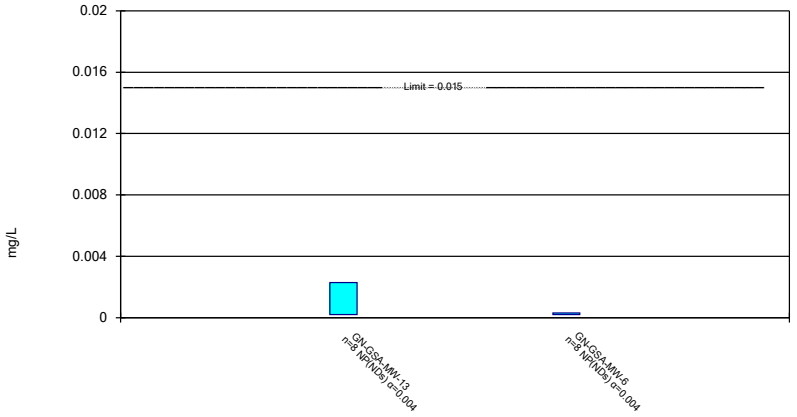


Constituent: Fluoride Analysis Run 6/9/2021 3:16 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

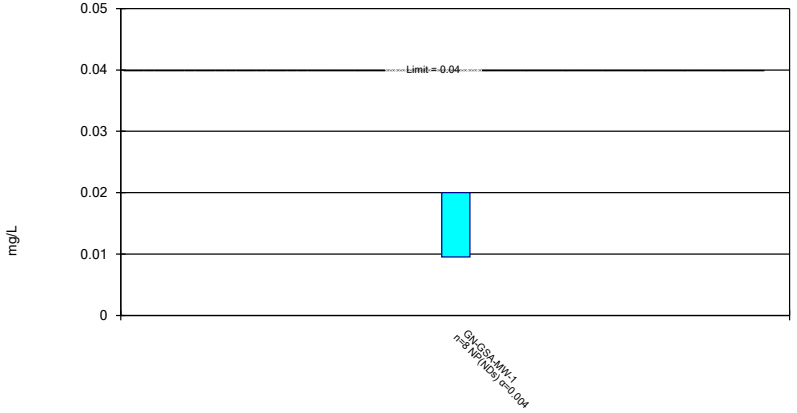


Constituent: Lead Analysis Run 6/9/2021 3:16 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

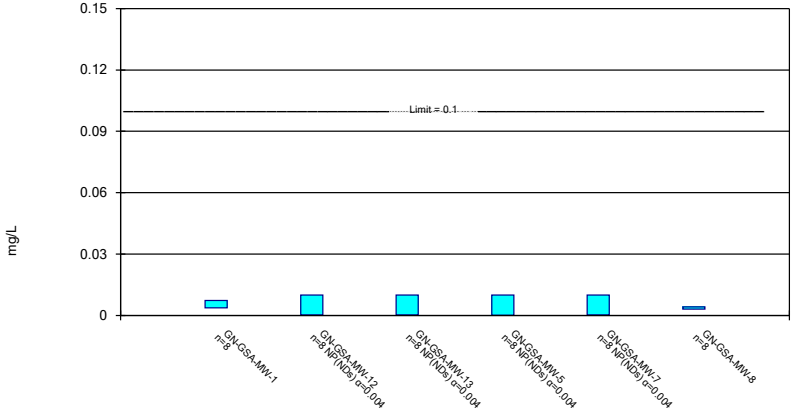


Constituent: Lithium Analysis Run 6/9/2021 3:16 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

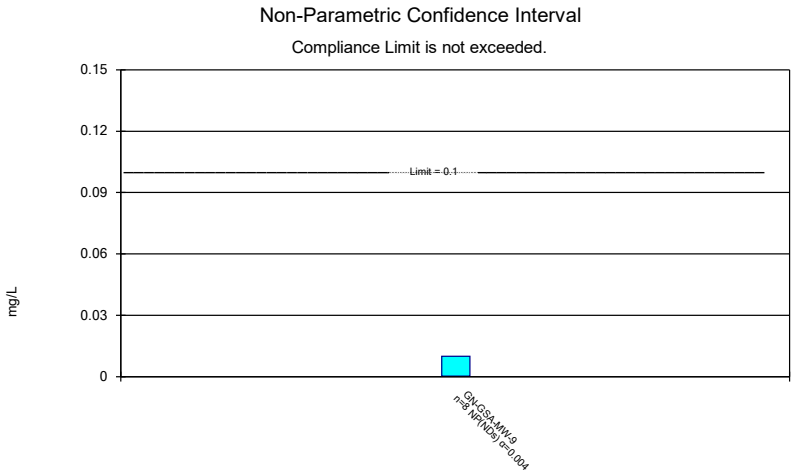
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

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: Molybdenum Analysis Run 6/9/2021 3:16 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA



Constituent: Molybdenum Analysis Run 6/9/2021 3:16 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

GROUNDWATER STATS CONSULTING

January 13, 2022

Southern Company Services
Attn: Mr. Greg Dyer
3535 Colonnade Parkway
Birmingham, AL 35243

Re: Plant Gaston Gypsum Pond
Background Update & 2nd Semi-Annual Statistical Analysis – October 2021

Dear Mr. Dyer,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the background update and statistical analysis of groundwater data for the October 2021 2nd 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

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 Groundwater Statistician for 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): 68
- # 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 2019 and is performed during this analysis. 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 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, as well as for outliers over the entire record. 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 this 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 (Figure D). 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 are 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 at this time:

- 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 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. All of 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 (Figure F). 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 at this time. A summary of these results follows this letter.

Evaluation of Appendix III Parameters – October 2021

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 F). The October 2021 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 October 2021 (Figure G).

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 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, GN-GSA-MW-6, GN-GSA-MW-8, and GN-GSA-MW-10

Interwell:

- Fluoride: GN-GSA-MW-1, GN-GSA-MW-7, and GN-GSA-MW-8
- pH: GN-GSA-MW-6 and GN-GSA-MW-8

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 and GN-GSA-MW-10

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-15 (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 – October 2021

Data from all wells for Appendix IV parameters were reassessed for outliers during previous analyses. 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 this 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 tolerance limits constructed from pooled upgradient well data through October 2021 (Figure I). 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 J) 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 October 2021 for each of the Appendix IV parameters

(Figure K). These intervals were constructed as 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.

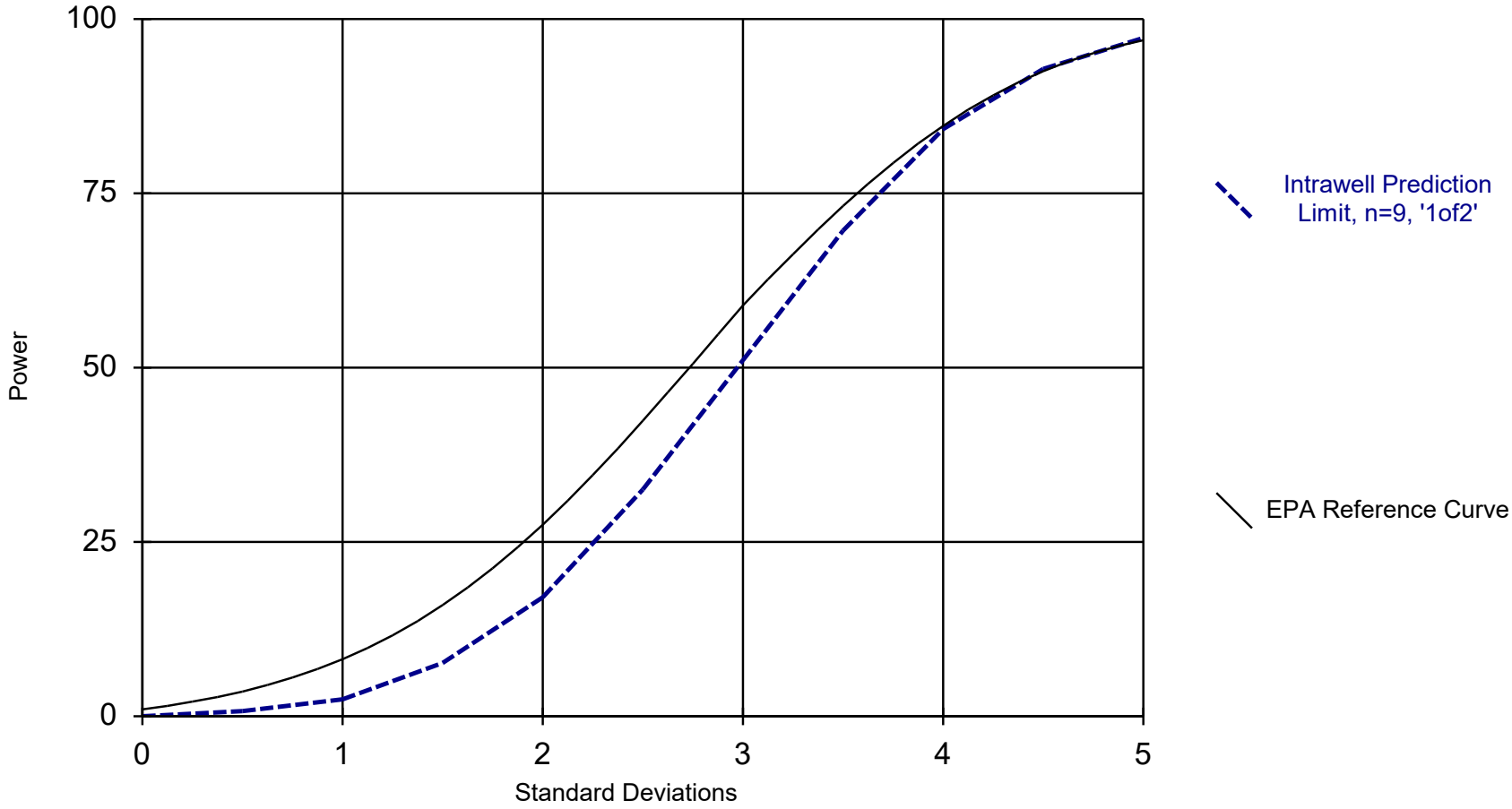
Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Gaston Gypsum Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Andrew Collins
Project Manager

Kristina Rayner
Groundwater Statistician

Intrawell Power Curve

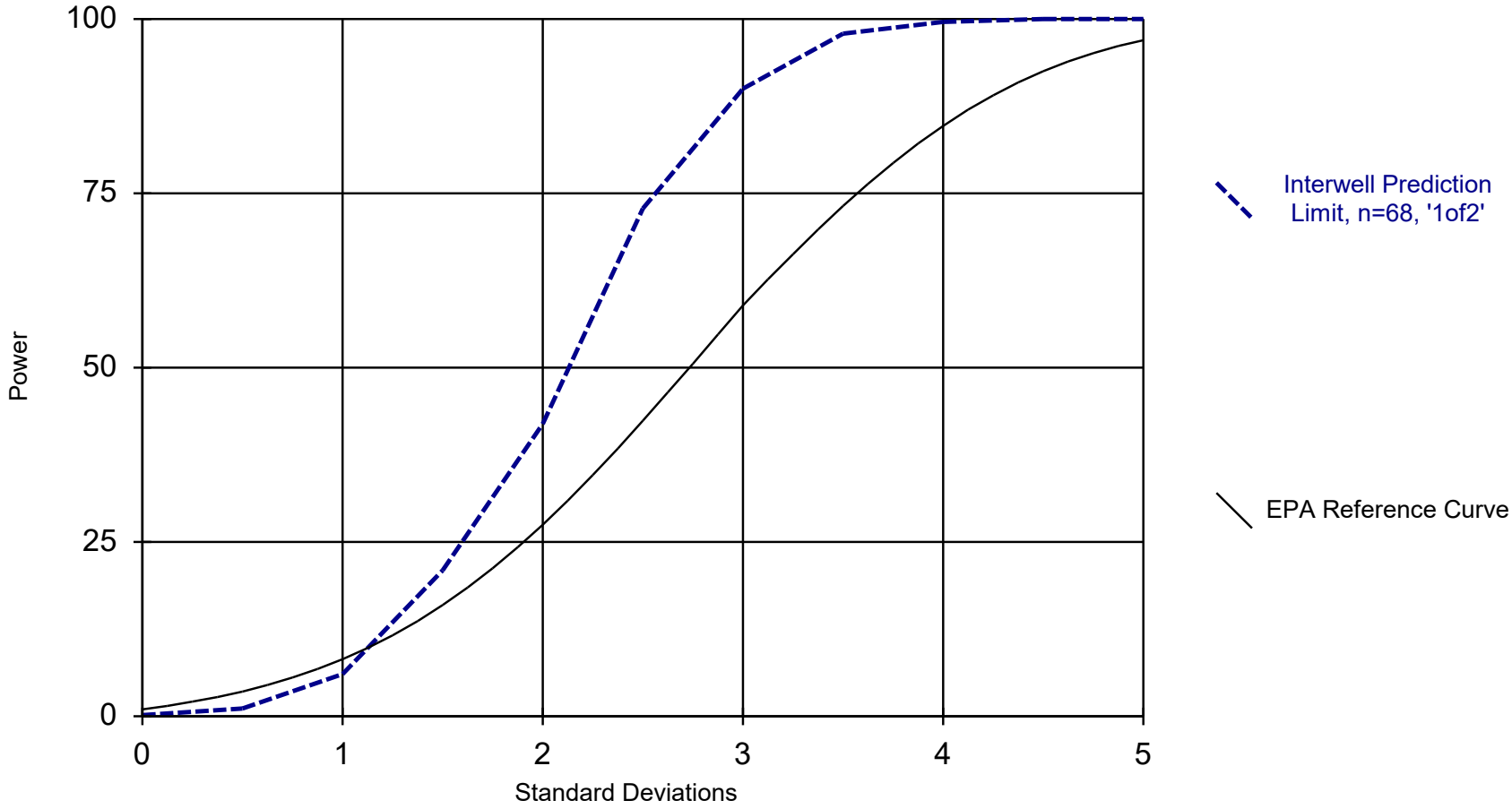


Kappa = 2.961, based on 10 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 1/12/2022 7:55 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Interwell Power Curve



Kappa = 1.998, based on 10 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 1/12/2022 7:56 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

Date Ranges

Date: 1/11/2022 10:18 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Calcium (mg/L)
- GN-GSA-MW-5 background:3/23/2016-5/20/2019

Chloride (mg/L)
- GN-GSA-MW-11 background:3/23/2016-9/7/2017

Sulfate (mg/L)
- GN-GSA-MW-3 background:2/20/2017-4/13/2021
- GN-GSA-MW-5 background:3/23/2016-9/7/2017
- GN-GSA-MW-8 background:3/23/2016-9/7/2017

TDS (mg/L)
- GN-GSA-MW-10 background:3/23/2016-9/7/2017
- GN-GSA-MW-5 background:3/23/2016-9/7/2017

100% Non-Detects: Appendix IV Downgradient

Analysis Run 1/11/2022 10:47 PM 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-6

Lead (mg/L)
GN-GSA-MW-1, GN-GSA-MW-10, GN-GSA-MW-11, GN-GSA-MW-12, GN-GSA-MW-5, GN-GSA-MW-7, GN-GSA-MW-8, GN-GSA-MW-9

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

Appendix III Welch's t-test/Mann-Whitney - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 7/19/2021, 1:55 PM

Constituent	Well	Calc.	0.01	Method
Calcium (mg/L)	**GN-GSA-MW-1**	**3.284**	**Yes**	**Mann-W**
Calcium (mg/L)	**GN-GSA-MW-10**	**3.178**	**Yes**	**Mann-W**
Calcium (mg/L)	**GN-GSA-MW-13**	**2.858**	**Yes**	**Mann-W**
Calcium (mg/L)	**GN-GSA-MW-15 (bg)**	**-2.85**	**Yes**	**Mann-W**
Chloride (mg/L)	**GN-GSA-MW-11**	**3.176**	**Yes**	**Mann-W**
Chloride (mg/L)	**GN-GSA-MW-14S (bg)**	**-2.973**	**Yes**	**Mann-W**
Sulfate (mg/L)	**GN-GSA-MW-3 (bg)**	**-2.975**	**Yes**	**Mann-W**
Sulfate (mg/L)	**GN-GSA-MW-5**	**3.281**	**Yes**	**Mann-W**
Sulfate (mg/L)	**GN-GSA-MW-8**	**3.176**	**Yes**	**Mann-W**
TDS (mg/L)	**GN-GSA-MW-10**	**3.233**	**Yes**	**Mann-W**
TDS (mg/L)	**GN-GSA-MW-5**	**3.284**	**Yes**	**Mann-W**

Appendix III Welch's t-test/Mann-Whitney - All Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 7/19/2021, 1:55 PM

Constituent	Well	Calc.	0.01	Method
Calcium (mg/L)	**GN-GSA-MW-1**	**3.284**	**Yes**	**Mann-W**
Calcium (mg/L)	**GN-GSA-MW-10**	**3.178**	**Yes**	**Mann-W**
Calcium (mg/L)	GN-GSA-MW-11	0.3034	No	Mann-W
Calcium (mg/L)	GN-GSA-MW-12	2.488	No	Mann-W
Calcium (mg/L)	**GN-GSA-MW-13**	**2.858**	**Yes**	**Mann-W**
Calcium (mg/L)	GN-GSA-MW-14S (bg)	0.3641	No	Mann-W
Calcium (mg/L)	**GN-GSA-MW-15 (bg)**	**-2.85**	**Yes**	**Mann-W**
Calcium (mg/L)	GN-GSA-MW-2 (bg)	0.8495	No	Mann-W
Calcium (mg/L)	GN-GSA-MW-3 (bg)	-1.88	No	Mann-W
Calcium (mg/L)	GN-GSA-MW-5	2.365	No	Mann-W
Calcium (mg/L)	GN-GSA-MW-6	-2.065	No	Mann-W
Calcium (mg/L)	GN-GSA-MW-7	1.516	No	Mann-W
Calcium (mg/L)	GN-GSA-MW-8	-1.032	No	Mann-W
Calcium (mg/L)	GN-GSA-MW-9	-0.06063	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-1	-0.7287	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-10	1.092	No	Mann-W
Chloride (mg/L)	**GN-GSA-MW-11**	**3.176**	**Yes**	**Mann-W**
Chloride (mg/L)	GN-GSA-MW-12	0.5457	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-13	0.6675	No	Mann-W
Chloride (mg/L)	**GN-GSA-MW-14S (bg)**	**-2.973**	**Yes**	**Mann-W**
Chloride (mg/L)	GN-GSA-MW-15 (bg)	-1.518	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-2 (bg)	0.06072	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-3 (bg)	-1.943	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-5	-0.06072	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-6	2.063	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-7	1.153	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-8	-1.035	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-9	-1.467	No	Mann-W
Sulfate (mg/L)	GN-GSA-MW-1	1.274	No	Mann-W
Sulfate (mg/L)	GN-GSA-MW-10	-1.58	No	Mann-W
Sulfate (mg/L)	GN-GSA-MW-11	-2.243	No	Mann-W
Sulfate (mg/L)	GN-GSA-MW-12	-0.06072	No	Mann-W
Sulfate (mg/L)	GN-GSA-MW-13	0.4247	No	Mann-W
Sulfate (mg/L)	GN-GSA-MW-14S (bg)	-2.122	No	Mann-W
Sulfate (mg/L)	GN-GSA-MW-15 (bg)	-1.882	No	Mann-W
Sulfate (mg/L)	GN-GSA-MW-2 (bg)	1.88	No	Mann-W
Sulfate (mg/L)	**GN-GSA-MW-3 (bg)**	**-2.975**	**Yes**	**Mann-W**
Sulfate (mg/L)	**GN-GSA-MW-5**	**3.281**	**Yes**	**Mann-W**
Sulfate (mg/L)	GN-GSA-MW-6	-1.731	No	Mann-W
Sulfate (mg/L)	GN-GSA-MW-7	-1.758	No	Mann-W
Sulfate (mg/L)	**GN-GSA-MW-8**	**3.176**	**Yes**	**Mann-W**
Sulfate (mg/L)	GN-GSA-MW-9	0.5457	No	Mann-W
TDS (mg/L)	GN-GSA-MW-1	1.215	No	Mann-W
TDS (mg/L)	**GN-GSA-MW-10**	**3.233**	**Yes**	**Mann-W**
TDS (mg/L)	GN-GSA-MW-11	-1.764	No	Mann-W
TDS (mg/L)	GN-GSA-MW-12	0.9716	No	Mann-W
TDS (mg/L)	GN-GSA-MW-13	0.6689	No	Mann-W
TDS (mg/L)	GN-GSA-MW-14S (bg)	-2.007	No	Mann-W
TDS (mg/L)	GN-GSA-MW-15 (bg)	-2.307	No	Mann-W
TDS (mg/L)	GN-GSA-MW-2 (bg)	-0.9122	No	Mann-W
TDS (mg/L)	GN-GSA-MW-3 (bg)	-2.001	No	Mann-W
TDS (mg/L)	**GN-GSA-MW-5**	**3.284**	**Yes**	**Mann-W**
TDS (mg/L)	GN-GSA-MW-6	-0.5911	No	Mann-W
TDS (mg/L)	GN-GSA-MW-7	1.822	No	Mann-W
TDS (mg/L)	GN-GSA-MW-8	-1.403	No	Mann-W
TDS (mg/L)	GN-GSA-MW-9	0.4854	No	Mann-W

Trend Tests - Upgradient Wells - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 1/11/2022, 10:24 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
pH (pH)	**GN-GSA-MW-15 (bg)**	**-0.05303**	**-86**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Trend Tests - Upgradient Wells - All Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 1/11/2022, 10:24 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GN-GSA-MW-14S (bg)	0	8	63	No	17	94.12	n/a	n/a	0.01	NP
Boron (mg/L)	GN-GSA-MW-15 (bg)	0	0	63	No	17	100	n/a	n/a	0.01	NP
Boron (mg/L)	GN-GSA-MW-2 (bg)	0	0	63	No	17	100	n/a	n/a	0.01	NP
Boron (mg/L)	GN-GSA-MW-3 (bg)	0	0	63	No	17	100	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-14S (bg)	0.00005849	16	68	No	18	22.22	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-15 (bg)	0	42	68	No	18	72.22	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-2 (bg)	5.9e-10	32	68	No	18	50	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-3 (bg)	-0.0008696	-21	-68	No	18	5.556	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-14S (bg)	-0.01664	-34	-68	No	18	0	n/a	n/a	0.01	NP
pH (pH)	**GN-GSA-MW-15 (bg)**	**-0.05303**	**-86**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	GN-GSA-MW-2 (bg)	-0.0092	-37	-68	No	18	0	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-3 (bg)	-0.05422	-57	-68	No	18	0	n/a	n/a	0.01	NP

Intrawell Prediction Limits - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 1/11/2022, 10:22 PM

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**	**10/5/2021**	**87.9**	**Yes**	**16**	**69.87**	**6.624**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Calcium (mg/L)	**GN-GSA-MW-5**	**71.16**	**n/a**	**10/4/2021**	**81.6**	**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**	**10/5/2021**	**13.8**	**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**	**10/4/2021**	**115**	**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**	**10/4/2021**	**5.05**	**Yes**	**9**	**1.843**	**0.3686**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
TDS (mg/L)	**GN-GSA-MW-10**	**274**	**n/a**	**10/5/2021**	**293**	**Yes**	**9**	**251.8**	**7.496**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
TDS (mg/L)	**GN-GSA-MW-5**	**295.1**	**n/a**	**10/4/2021**	**379**	**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**	**10/4/2021**	**32**	**Yes**	**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-8**	**202.5**	**n/a**	**10/4/2021**	**203**	**Yes**	**16**	**188.9**	**5.691**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**

Intrawell Prediction Limits - All Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 1/11/2022, 10:22 PM

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	10/4/2021	45.4	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	10/5/2021	108	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	10/5/2021	13.8	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**	**10/5/2021**	**87.9**	**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	10/4/2021	92.2	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	10/4/2021	48	No	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	10/6/2021	4.62	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	10/4/2021	85	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	10/4/2021	43.7	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**	**10/4/2021**	**81.6**	**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	10/4/2021	0.53	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	10/4/2021	70.4	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	10/4/2021	55.1	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	10/5/2021	54.6	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	10/4/2021	2.58	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	10/5/2021	3.04	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**	**10/5/2021**	**13.8**	**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	10/5/2021	3.69	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	10/4/2021	3.37	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	10/4/2021	2.5	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	10/6/2021	2.07	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	10/4/2021	3.59	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	10/4/2021	2.88	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	10/4/2021	9.45	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	10/4/2021	3.61	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	10/4/2021	3.48	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	10/4/2021	1.76	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	10/5/2021	2.16	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	10/4/2021	4.08	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	10/5/2021	1.8	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	10/5/2021	2.86	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	10/5/2021	8.02	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	10/4/2021	7.18	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	10/4/2021	3.78	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	10/6/2021	2.15	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	10/4/2021	6.86	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	10/4/2021	8.09	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**	**10/4/2021**	**115**	**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	10/4/2021	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	10/4/2021	6.02	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**	**10/4/2021**	**5.05**	**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	10/5/2021	4.08	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	10/4/2021	221	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**	**10/5/2021**	**293**	**Yes**	**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	10/5/2021	92.7	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	10/5/2021	255	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	10/4/2021	277	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	10/4/2021	183	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	10/6/2021	12.5ND	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	10/4/2021	287	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	10/4/2021	168	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**	**10/4/2021**	**379**	**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**	**10/4/2021**	**32**	**Yes**	**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	10/4/2021	232	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**	**10/4/2021**	**203**	**Yes**	**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	10/5/2021	170	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 1/11/2022, 10:25 PM

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**	**0.111**	**n/a**	**10/4/2021**	**0.376**	**Yes**	**72**	**n/a**	**n/a**	**37.5**	**n/a**	**n/a**	**0.0003671**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	**GN-GSA-MW-7**	**0.111**	**n/a**	**10/4/2021**	**0.12**	**Yes**	**72**	**n/a**	**n/a**	**37.5**	**n/a**	**n/a**	**0.0003671**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	**GN-GSA-MW-8**	**0.111**	**n/a**	**10/4/2021**	**0.134**	**Yes**	**72**	**n/a**	**n/a**	**37.5**	**n/a**	**n/a**	**0.0003671**	**NP Inter (normality) 1 of 2**
pH (pH)	**GN-GSA-MW-6**	**7.53**	**5.64**	**10/4/2021**	**4.86**	**Yes**	**72**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007343**	**NP Inter (normality) 1 of 2**
pH (pH)	**GN-GSA-MW-8**	**7.53**	**5.64**	**10/4/2021**	**7.82**	**Yes**	**72**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007343**	**NP Inter (normality) 1 of 2**

Interwell Prediction Limits - All Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 1/11/2022, 10:25 PM

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	10/4/2021	0.0343J	No	68	n/a	n/a	98.53	n/a	n/a	0.0004111	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-10	0.1015	n/a	10/5/2021	0.1015ND	No	68	n/a	n/a	98.53	n/a	n/a	0.0004111	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-11	0.1015	n/a	10/5/2021	0.0472J	No	68	n/a	n/a	98.53	n/a	n/a	0.0004111	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-12	0.1015	n/a	10/5/2021	0.1015ND	No	68	n/a	n/a	98.53	n/a	n/a	0.0004111	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-13	0.1015	n/a	10/4/2021	0.1015ND	No	68	n/a	n/a	98.53	n/a	n/a	0.0004111	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-5	0.1015	n/a	10/4/2021	0.0392J	No	68	n/a	n/a	98.53	n/a	n/a	0.0004111	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-6	0.1015	n/a	10/4/2021	0.1015ND	No	68	n/a	n/a	98.53	n/a	n/a	0.0004111	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-7	0.1015	n/a	10/4/2021	0.1015ND	No	68	n/a	n/a	98.53	n/a	n/a	0.0004111	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-8	0.1015	n/a	10/4/2021	0.1015ND	No	68	n/a	n/a	98.53	n/a	n/a	0.0004111	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-9	0.1015	n/a	10/5/2021	0.1015ND	No	68	n/a	n/a	98.53	n/a	n/a	0.0004111	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	**GN-GSA-MW-1**	**0.111**	**n/a**	**10/4/2021**	**0.376**	**Yes**	**72**	**n/a**	**n/a**	**37.5**	**n/a**	**n/a**	**0.0003671**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	GN-GSA-MW-10	0.111	n/a	10/5/2021	0.1ND	No	72	n/a	n/a	37.5	n/a	n/a	0.0003671	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-11	0.111	n/a	10/5/2021	0.1ND	No	72	n/a	n/a	37.5	n/a	n/a	0.0003671	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-12	0.111	n/a	10/5/2021	0.1ND	No	72	n/a	n/a	37.5	n/a	n/a	0.0003671	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-13	0.111	n/a	10/4/2021	0.0748J	No	72	n/a	n/a	37.5	n/a	n/a	0.0003671	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-5	0.111	n/a	10/4/2021	0.1ND	No	72	n/a	n/a	37.5	n/a	n/a	0.0003671	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-6	0.111	n/a	10/4/2021	0.1ND	No	72	n/a	n/a	37.5	n/a	n/a	0.0003671	NP Inter (normality) 1 of 2
Fluoride (mg/L)	**GN-GSA-MW-7**	**0.111**	**n/a**	**10/4/2021**	**0.12**	**Yes**	**72**	**n/a**	**n/a**	**37.5**	**n/a**	**n/a**	**0.0003671**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	**GN-GSA-MW-8**	**0.111**	**n/a**	**10/4/2021**	**0.134**	**Yes**	**72**	**n/a**	**n/a**	**37.5**	**n/a**	**n/a**	**0.0003671**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	GN-GSA-MW-9	0.111	n/a	10/5/2021	0.1ND	No	72	n/a	n/a	37.5	n/a	n/a	0.0003671	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-1	7.53	5.64	10/4/2021	7.33	No	72	n/a	n/a	0	n/a	n/a	0.0007343	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-10	7.53	5.64	10/5/2021	7.12	No	72	n/a	n/a	0	n/a	n/a	0.0007343	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-11	7.53	5.64	10/5/2021	6.01	No	72	n/a	n/a	0	n/a	n/a	0.0007343	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-12	7.53	5.64	10/5/2021	7.25	No	72	n/a	n/a	0	n/a	n/a	0.0007343	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-13	7.53	5.64	10/4/2021	6.95	No	72	n/a	n/a	0	n/a	n/a	0.0007343	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-5	7.53	5.64	10/4/2021	6.66	No	72	n/a	n/a	0	n/a	n/a	0.0007343	NP Inter (normality) 1 of 2
pH (pH)	**GN-GSA-MW-6**	**7.53**	**5.64**	**10/4/2021**	**4.86**	**Yes**	**72**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007343**	**NP Inter (normality) 1 of 2**
pH (pH)	GN-GSA-MW-7	7.53	5.64	10/4/2021	6.96	No	72	n/a	n/a	0	n/a	n/a	0.0007343	NP Inter (normality) 1 of 2
pH (pH)	**GN-GSA-MW-8**	**7.53**	**5.64**	**10/4/2021**	**7.82**	**Yes**	**72**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007343**	**NP Inter (normality) 1 of 2**
pH (pH)	GN-GSA-MW-9	7.53	5.64	10/5/2021	6.96	No	72	n/a	n/a	0	n/a	n/a	0.0007343	NP Inter (normality) 1 of 2

Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 1/11/2022, 10:32 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	**GN-GSA-MW-12**	**3.811**	**85**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GN-GSA-MW-15 (bg)**	**-0.8934**	**-100**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GN-GSA-MW-3 (bg)**	**-10.53**	**-106**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GN-GSA-MW-5**	**6.006**	**98**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-11**	**1.401**	**100**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-14S (bg)**	**-0.5239**	**-95**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-15 (bg)**	**-0.3933**	**-80**	**-63**	**Yes**	**17**	**5.882**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-3 (bg)**	**-0.1173**	**-66**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	**GN-GSA-MW-15 (bg)**	**-0.05303**	**-86**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-14S (bg)**	**-1.774**	**-80**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-15 (bg)**	**-0.447**	**-72**	**-63**	**Yes**	**17**	**5.882**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-3 (bg)**	**-3.41**	**-120**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-5**	**19.34**	**98**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-8**	**0.5882**	**88**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GN-GSA-MW-10**	**5.726**	**92**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GN-GSA-MW-15 (bg)**	**-4.764**	**-78**	**-63**	**Yes**	**17**	**5.882**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GN-GSA-MW-3 (bg)**	**-29.28**	**-114**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GN-GSA-MW-5**	**39.87**	**99**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Trend Tests - Prediction Limit Exceedances - All Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 1/11/2022, 10:32 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	**GN-GSA-MW-12**	**3.811**	**85**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GN-GSA-MW-14S (bg)	-0.5261	-30	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GN-GSA-MW-15 (bg)**	**-0.8934**	**-100**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GN-GSA-MW-2 (bg)	1.33	43	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GN-GSA-MW-3 (bg)**	**-10.53**	**-106**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GN-GSA-MW-5**	**6.006**	**98**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-11**	**1.401**	**100**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-14S (bg)**	**-0.5239**	**-95**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-15 (bg)**	**-0.3933**	**-80**	**-63**	**Yes**	**17**	**5.882**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	GN-GSA-MW-2 (bg)	0.01661	10	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**GN-GSA-MW-3 (bg)**	**-0.1173**	**-66**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	GN-GSA-MW-1	0	1	68	No	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-14S (bg)	0.00005849	16	68	No	18	22.22	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-15 (bg)	0	42	68	No	18	72.22	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-2 (bg)	5.9e-10	32	68	No	18	50	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-3 (bg)	-0.0008696	-21	-68	No	18	5.556	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-7	0.004872	40	68	No	18	5.556	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-8	-0.005615	-56	-68	No	18	0	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-14S (bg)	-0.01664	-34	-68	No	18	0	n/a	n/a	0.01	NP
pH (pH)	**GN-GSA-MW-15 (bg)**	**-0.05303**	**-86**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	GN-GSA-MW-2 (bg)	-0.0092	-37	-68	No	18	0	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-3 (bg)	-0.05422	-57	-68	No	18	0	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-6	-0.01111	-20	-68	No	18	0	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-8	0.02037	28	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GN-GSA-MW-14S (bg)**	**-1.774**	**-80**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-15 (bg)**	**-0.447**	**-72**	**-63**	**Yes**	**17**	**5.882**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GN-GSA-MW-2 (bg)	0.2139	30	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GN-GSA-MW-3 (bg)**	**-3.41**	**-120**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-5**	**19.34**	**98**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-8**	**0.5882**	**88**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GN-GSA-MW-10**	**5.726**	**92**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GN-GSA-MW-14S (bg)	-3.003	-48	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GN-GSA-MW-15 (bg)**	**-4.764**	**-78**	**-63**	**Yes**	**17**	**5.882**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GN-GSA-MW-2 (bg)	-1.13	-16	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GN-GSA-MW-3 (bg)**	**-29.28**	**-114**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GN-GSA-MW-5**	**39.87**	**99**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GN-GSA-MW-6	0	13	63	No	17	64.71	n/a	n/a	0.01	NP
TDS (mg/L)	GN-GSA-MW-8	-0.7916	-17	-63	No	17	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 Summary Table - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 1/11/2022, 10:50 PM

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**	**2.491**	**2.007**	**2**	**Yes**	**8**	**2.249**	**0.2282**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Intervals Summary Table - All Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 1/11/2022, 10:50 PM

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	0.008927	0.00364	0.01	No	8	0.006284	0.002494	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-GSA-MW-10	0.005	0.00007	0.01	No	8	0.00377	0.002278	75	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-11	0.005	0.0000935	0.01	No	8	0.003775	0.002267	75	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-12	0.005	0.00023	0.01	No	8	0.00382	0.002185	75	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-13	0.005	0.00012	0.01	No	8	0.003599	0.00219	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-5	0.00265	0.0006386	0.01	No	8	0.002483	0.001785	25	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	GN-GSA-MW-6	0.005	0.00008	0.01	No	8	0.003772	0.002273	75	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-7	0.005	0.00029	0.01	No	8	0.003345	0.002293	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-8	0.001415	0.001183	0.01	No	8	0.001299	0.0001095	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-GSA-MW-9	0.005	0.00014	0.01	No	8	0.003797	0.002227	75	None	No	0.004	NP (NDs)
Barium (mg/L)	**GN-GSA-MW-1**	**2.491**	**2.007**	**2**	**Yes**	**8**	**2.249**	**0.2282**	**0**	**None**	**No**	**0.01**	**Param.**
Barium (mg/L)	GN-GSA-MW-10	0.03811	0.03294	2	No	8	0.03553	0.002437	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-11	0.007439	0.004738	2	No	8	0.006089	0.001274	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-12	0.02365	0.01868	2	No	8	0.02116	0.002342	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-13	0.0697	0.0369	2	No	8	0.04574	0.01031	0	None	No	0.004	NP (normality)
Barium (mg/L)	GN-GSA-MW-5	0.07284	0.04504	2	No	8	0.05894	0.01312	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-6	0.01797	0.01558	2	No	8	0.01678	0.00113	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-7	0.0229	0.01557	2	No	8	0.01924	0.003455	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-8	0.0314	0.0257	2	No	8	0.02794	0.002508	0	None	No	0.004	NP (normality)
Barium (mg/L)	GN-GSA-MW-9	0.02654	0.02226	2	No	8	0.0244	0.002016	0	None	No	0.01	Param.
Cadmium (mg/L)	GN-GSA-MW-10	0.000203	0.00008	0.005	No	8	0.0001876	0.00004349	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-1	0.001015	0.00021	0.1	No	8	0.0009144	0.0002846	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-10	0.001015	0.00023	0.1	No	8	0.0009169	0.0002775	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-11	0.001015	0.0003	0.1	No	8	0.0009256	0.0002528	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-12	0.001015	0.00029	0.1	No	8	0.0009244	0.0002563	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-13	0.002	0.000518	0.1	No	8	0.001018	0.0004525	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-5	0.001015	0.00028	0.1	No	8	0.0009231	0.0002599	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-6	0.001015	0.00025	0.1	No	8	0.0008246	0.0003525	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-7	0.001015	0.000361	0.1	No	8	0.0008764	0.0002621	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-8	0.001015	0.000291	0.1	No	8	0.0008439	0.0003176	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-9	0.001015	0.00021	0.1	No	8	0.000822	0.0003578	75	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-11	0.005	0.00212	0.006	No	8	0.002831	0.0009252	12.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-GSA-MW-12	0.005	0.000218	0.006	No	8	0.00383	0.002168	75	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-13	0.005	0.0001	0.006	No	8	0.003782	0.002255	75	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-5	0.005013	-0.002871	0.006	No	8	0.00403	0.001738	25	Kaplan-Meier	x^6	0.01	Param.
Cobalt (mg/L)	GN-GSA-MW-6	0.005	0.00065	0.006	No	8	0.003916	0.002006	75	Kaplan-Meier	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-7	0.005	0.00033	0.006	No	8	0.003534	0.002088	62.5	Kaplan-Meier	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-8	0.005	0.000123	0.006	No	8	0.003783	0.002254	75	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-9	0.005	0.0000816	0.006	No	8	0.003811	0.002203	75	None	No	0.004	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-1	1.75	0.8521	5	No	8	1.291	0.4859	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-10	2.244	0.1179	5	No	8	1.139	1.659	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-11	1.795	0.07763	5	No	8	0.8739	1.091	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-12	1.412	0.2587	5	No	8	0.8353	0.544	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-13	2.362	0.007491	5	No	8	0.924	1.258	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-5	1.081	0.06555	5	No	8	0.5733	0.479	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-6	1.25	0.1395	5	No	8	0.6946	0.5237	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-7	0.9814	0.1448	5	No	8	0.5631	0.3946	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-8	0.8297	0.08983	5	No	8	0.4598	0.349	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-9	0.8515	0.1487	5	No	8	0.4841	0.3661	0	None	sqrt(x)	0.01	Param.

Confidence Intervals Summary Table - All Results

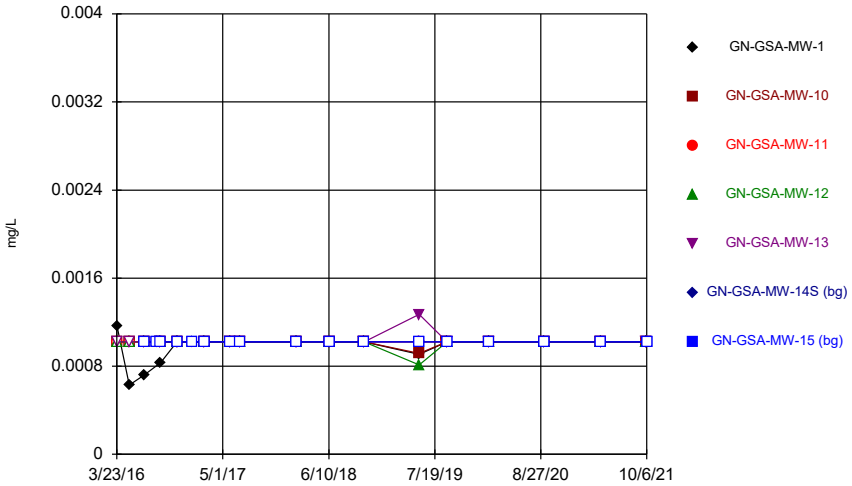
Plant Gaston Client: Southern Company Data: Gaston GSA Printed 1/11/2022, 10:50 PM

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	0.3678	0.2782	4	No	8	0.323	0.04227	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-GSA-MW-10	0.1	0.0617	4	No	8	0.09521	0.01354	87.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-GSA-MW-11	0.1	0.1	4	No	8	0.1	0	100	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-GSA-MW-12	0.1	0.0547	4	No	8	0.07078	0.01847	25	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-GSA-MW-13	0.0827	0.04445	4	No	8	0.06358	0.01804	12.5	None	No	0.01	Param.
Fluoride (mg/L)	GN-GSA-MW-5	0.1	0.04	4	No	8	0.08505	0.02292	50	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-GSA-MW-7	0.1221	0.08046	4	No	8	0.1013	0.01962	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-GSA-MW-8	0.1422	0.111	4	No	8	0.1266	0.01474	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-GSA-MW-9	0.07574	0.04279	4	No	8	0.0694	0.02518	25	Kaplan-Meier	ln(x)	0.01	Param.
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	0.00031	0.0002	0.015	No	8	0.0002269	0.00004978	75	None	No	0.004	NP (NDs)
Lithium (mg/L)	GN-GSA-MW-1	0.02	0.00953	0.04	No	8	0.01616	0.005306	62.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-GSA-MW-1	0.005939	0.003664	0.1	No	8	0.004801	0.001073	0	None	No	0.01	Param.
Molybdenum (mg/L)	GN-GSA-MW-12	0.01	0.000298	0.1	No	8	0.007578	0.004484	75	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-GSA-MW-13	0.01	0.00016	0.1	No	8	0.007542	0.004552	75	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-GSA-MW-5	0.01	0.00009	0.1	No	8	0.007523	0.004587	75	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-GSA-MW-7	0.01	0.00025	0.1	No	8	0.007566	0.004507	75	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-GSA-MW-8	0.004107	0.003151	0.1	No	8	0.003629	0.0004511	0	None	No	0.01	Param.
Molybdenum (mg/L)	GN-GSA-MW-9	0.01	0.000207	0.1	No	8	0.007566	0.004507	75	None	No	0.004	NP (NDs)

FIGURE A.

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Analysis Run 1/11/2022 8:31 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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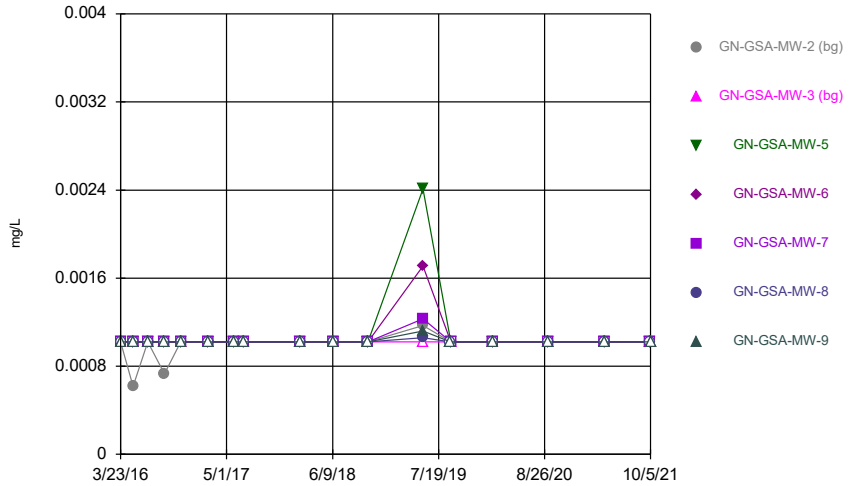

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Plant Gaston Client: Southern Company Data: Gaston GSA

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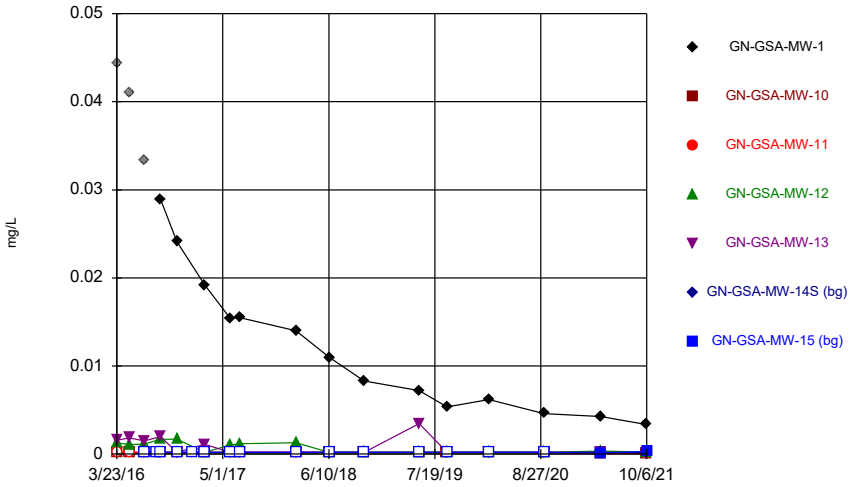

Constituent: Arsenic Analysis Run 1/11/2022 8:31 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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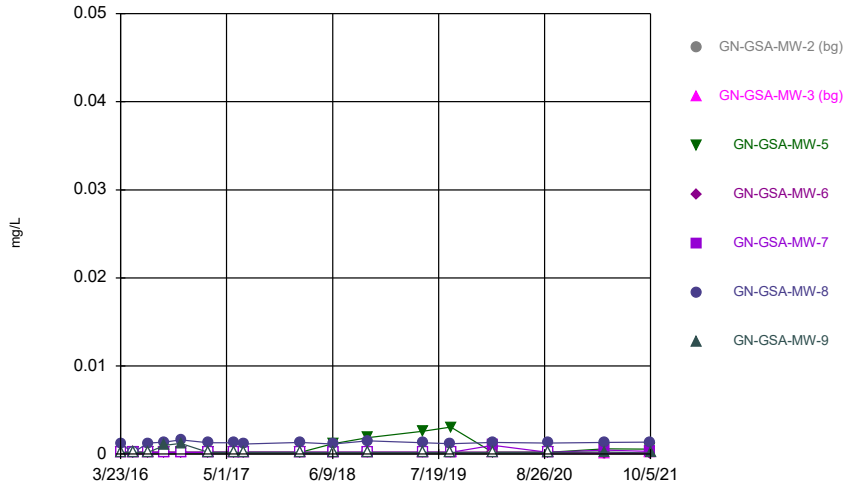

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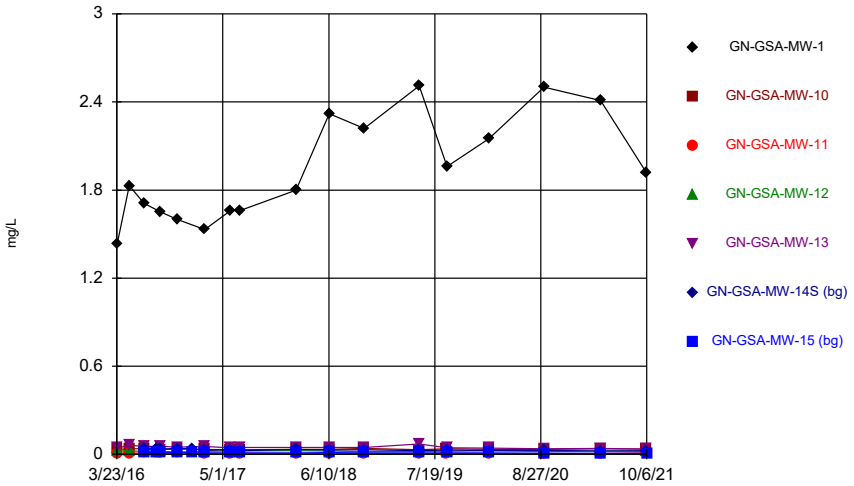
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Time Series

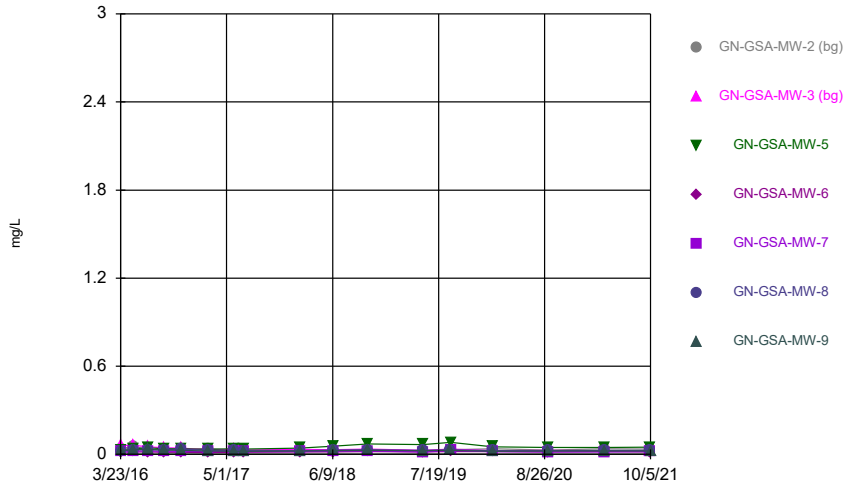


Constituent: Barium Analysis Run 1/11/2022 8:31 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Time Series



Constituent: Barium Analysis Run 1/11/2022 8:31 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

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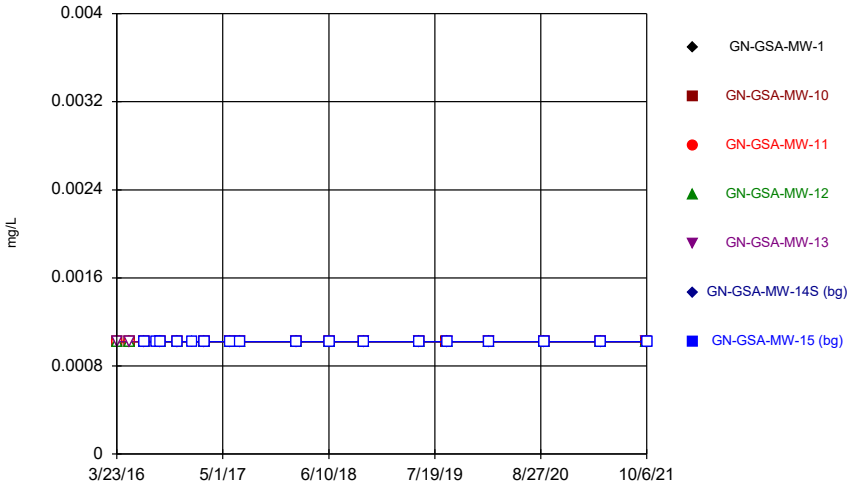

Constituent: Beryllium Analysis Run 1/11/2022 8:31 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

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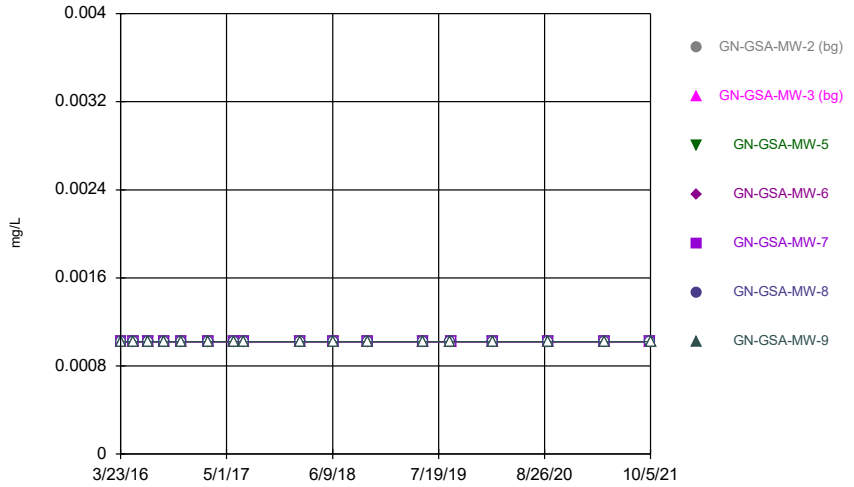

Constituent: Beryllium Analysis Run 1/11/2022 8:31 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
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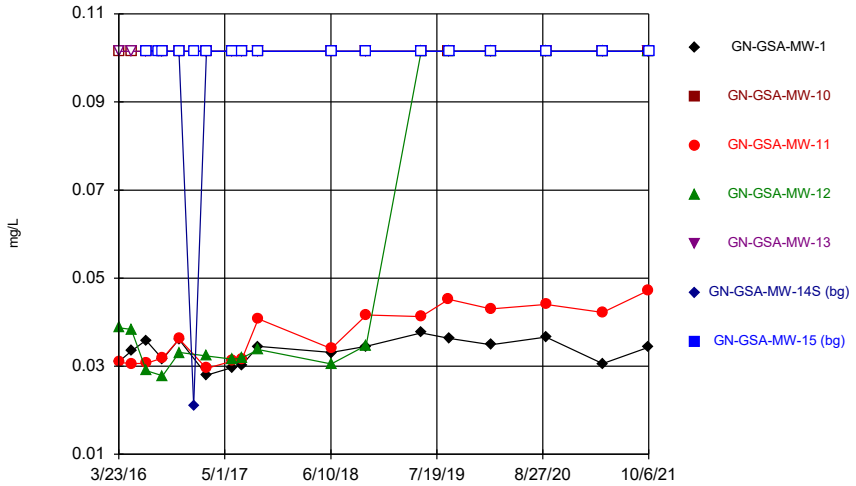
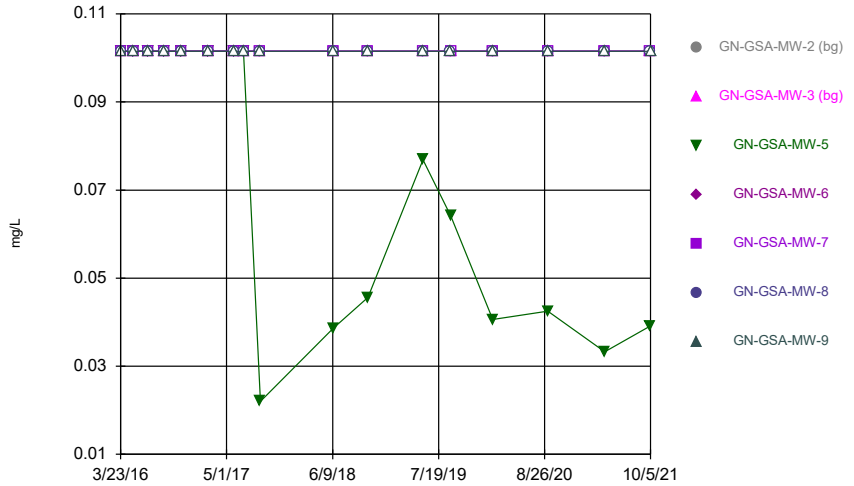


Constituent: Boron Analysis Run 1/11/2022 8:31 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
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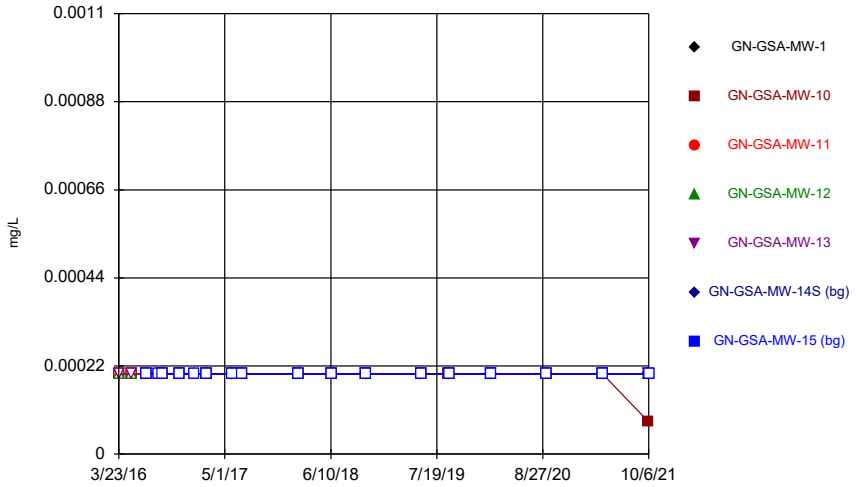

Constituent: Cadmium Analysis Run 1/11/2022 8:31 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
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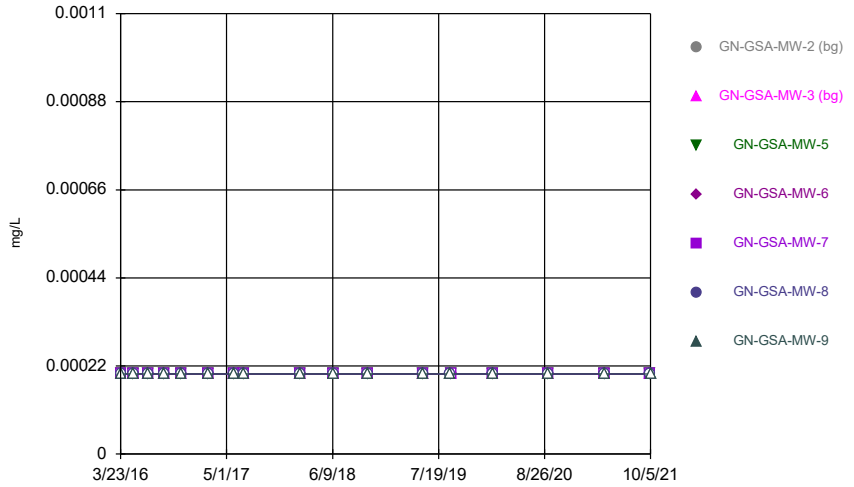
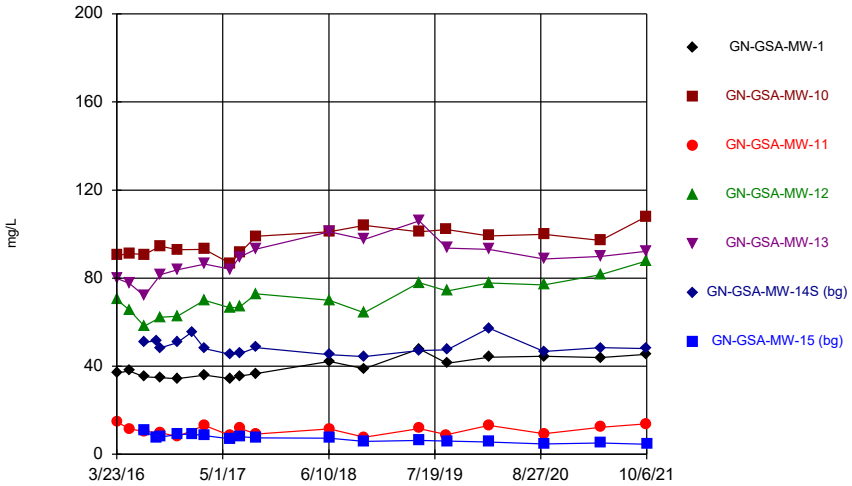


Constituent: Cadmium Analysis Run 1/11/2022 8:31 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Time Series

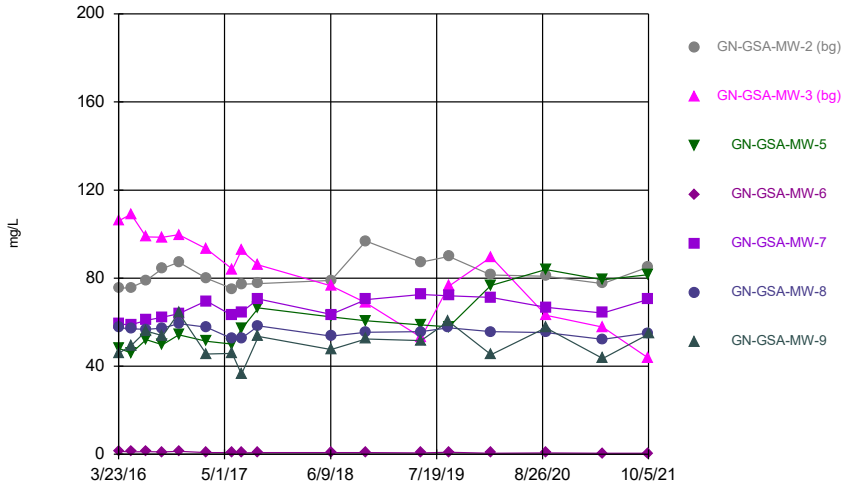


Constituent: Calcium Analysis Run 1/11/2022 8:31 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Time Series



Constituent: Calcium Analysis Run 1/11/2022 8:31 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
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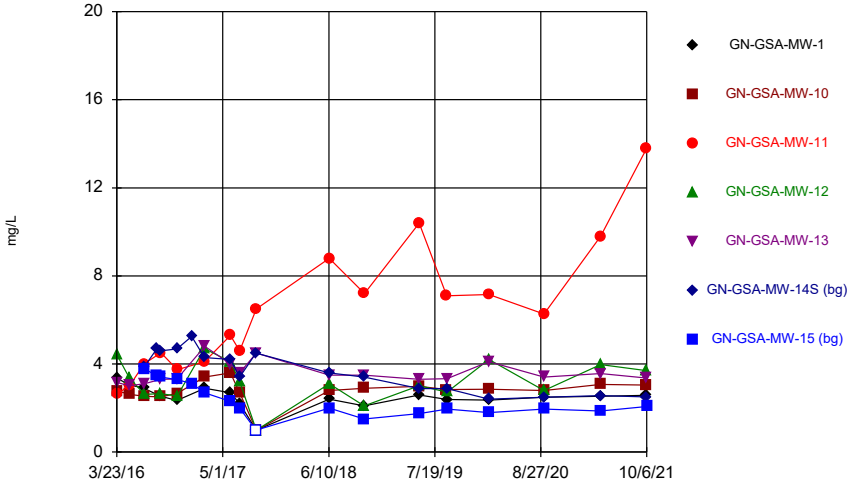

Constituent: Chloride Analysis Run 1/11/2022 8:31 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
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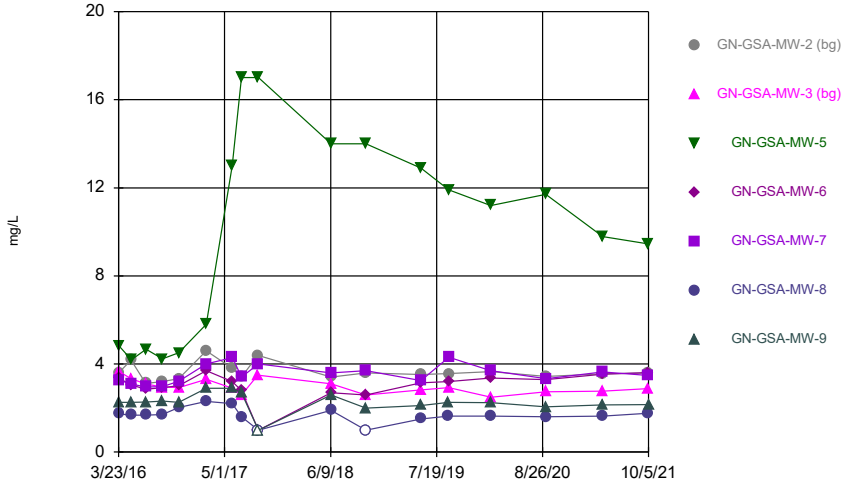

Constituent: Chloride Analysis Run 1/11/2022 8:31 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
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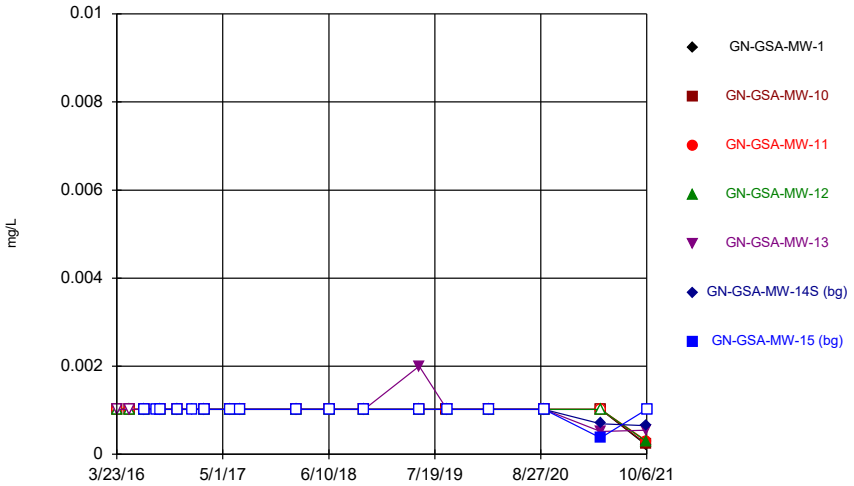

Constituent: Chromium Analysis Run 1/11/2022 8:31 PM
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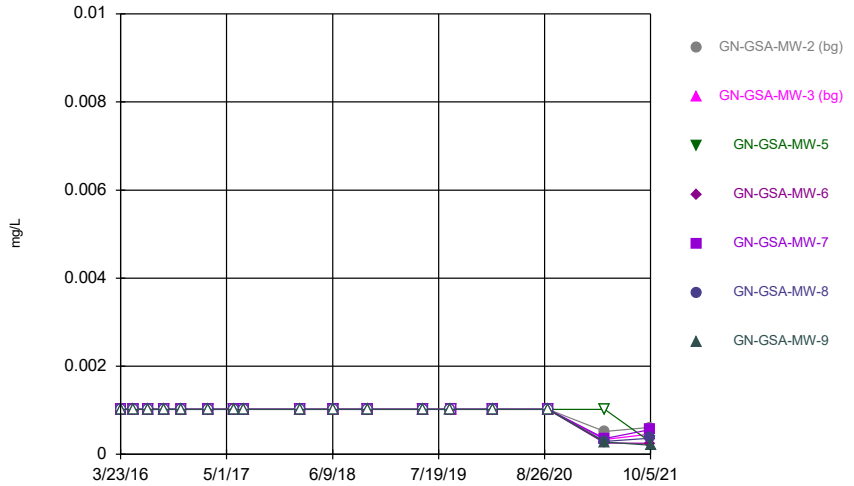

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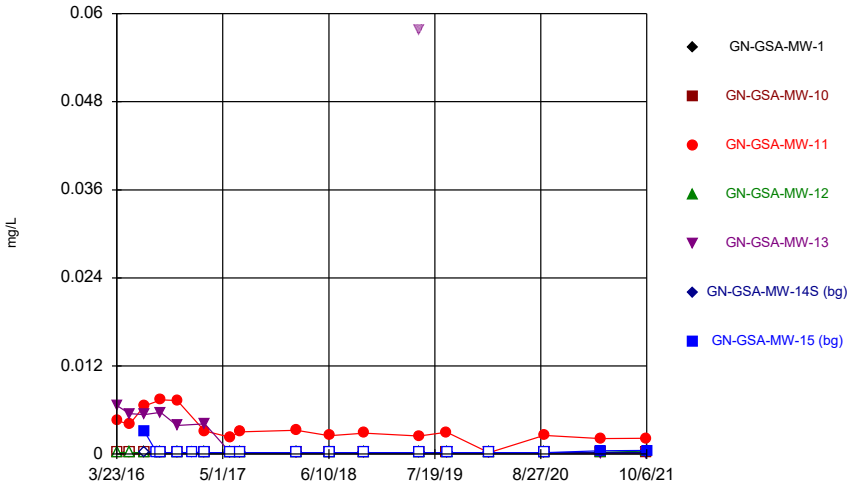

Constituent: Cobalt Analysis Run 1/11/2022 8:31 PM
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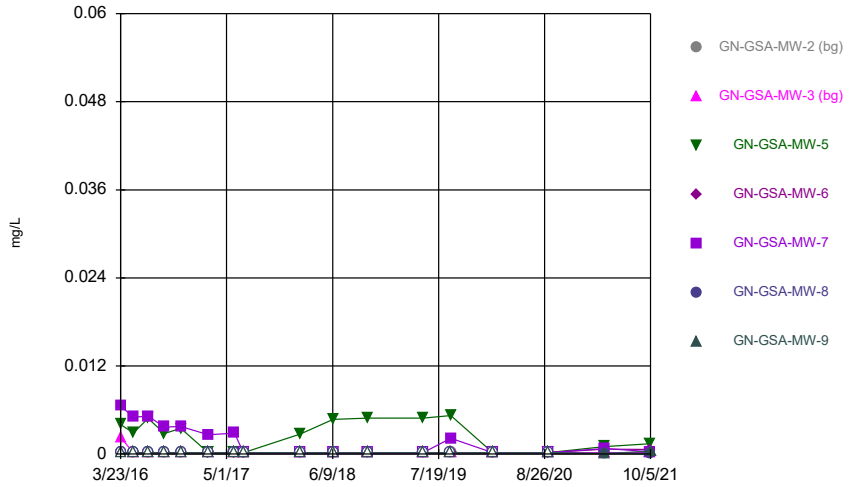
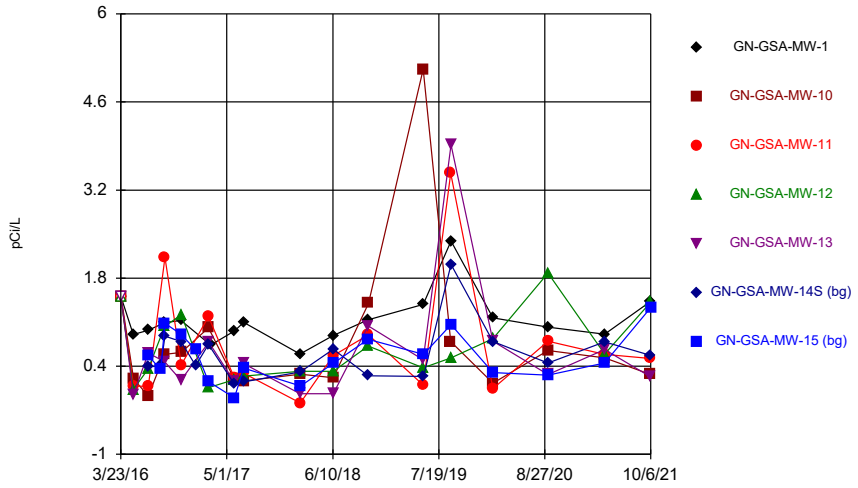


Constituent: Cobalt Analysis Run 1/11/2022 8:31 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

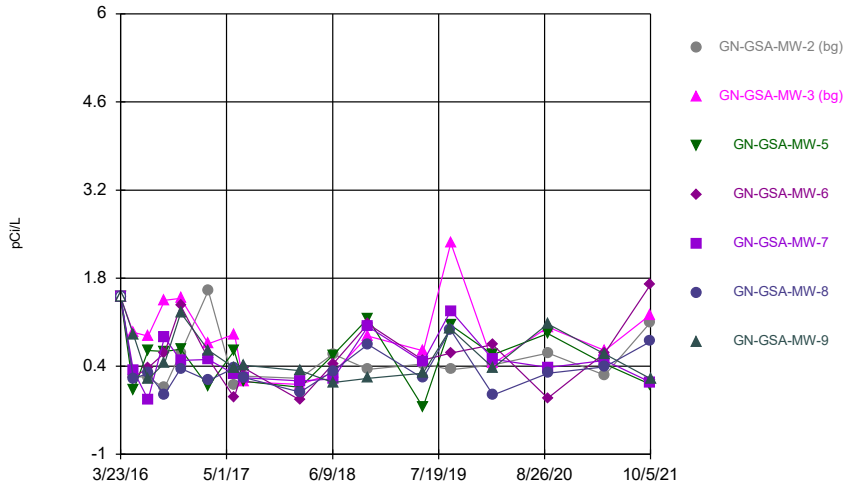
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 1/11/2022 8:31 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

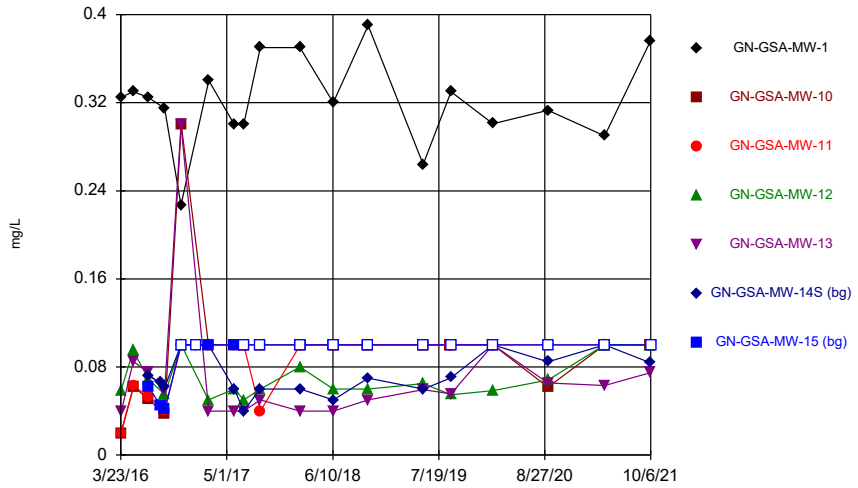
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 1/11/2022 8:31 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

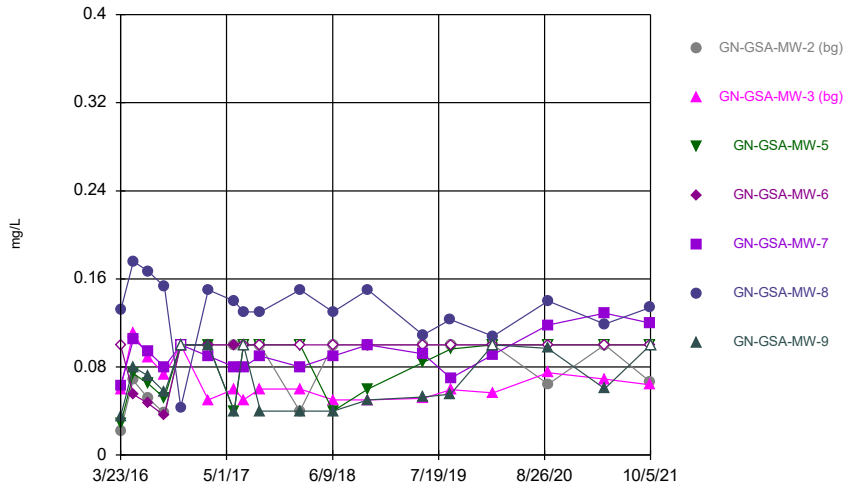
Time Series



Constituent: Fluoride Analysis Run 1/11/2022 8:31 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

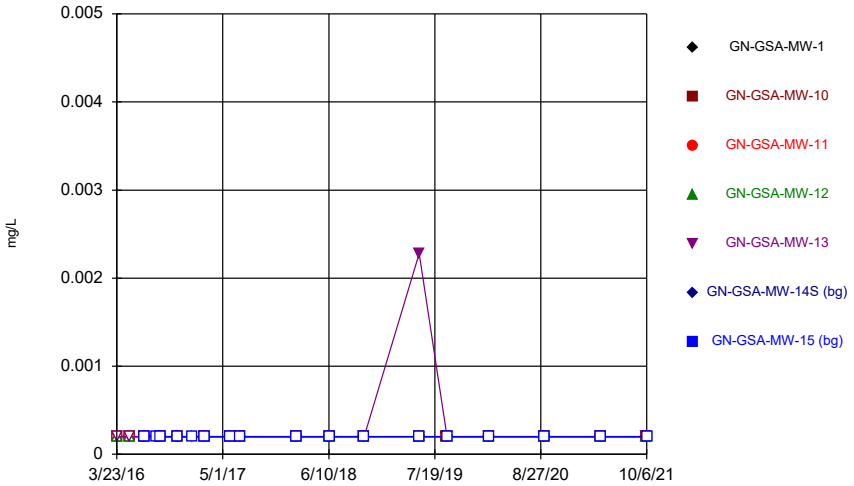
Time Series



Constituent: Fluoride Analysis Run 1/11/2022 8:31 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

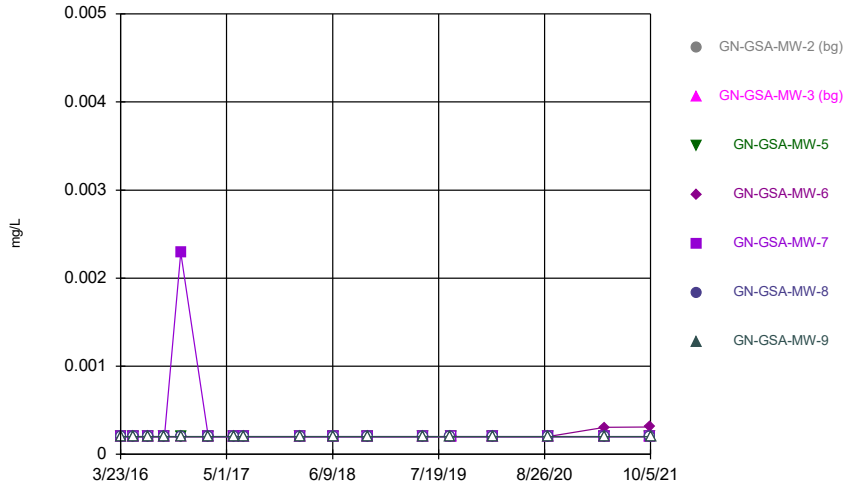
Time Series



Constituent: Lead Analysis Run 1/11/2022 8:31 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

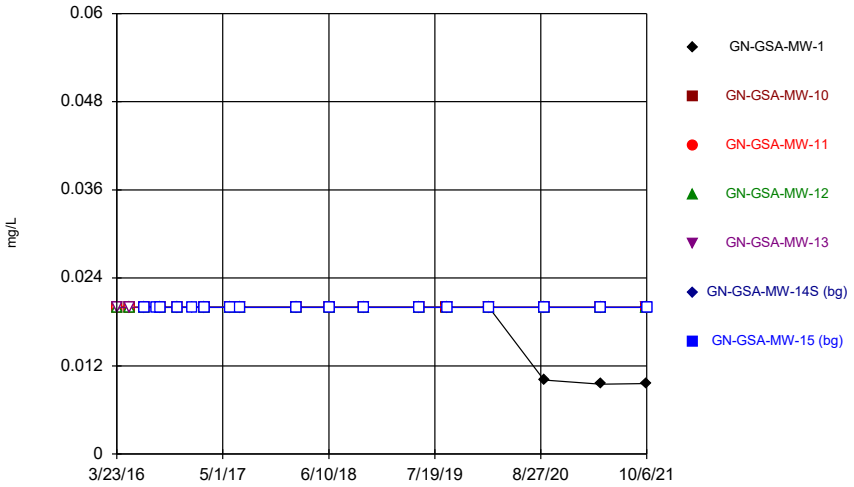
Time Series



Constituent: Lead Analysis Run 1/11/2022 8:31 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

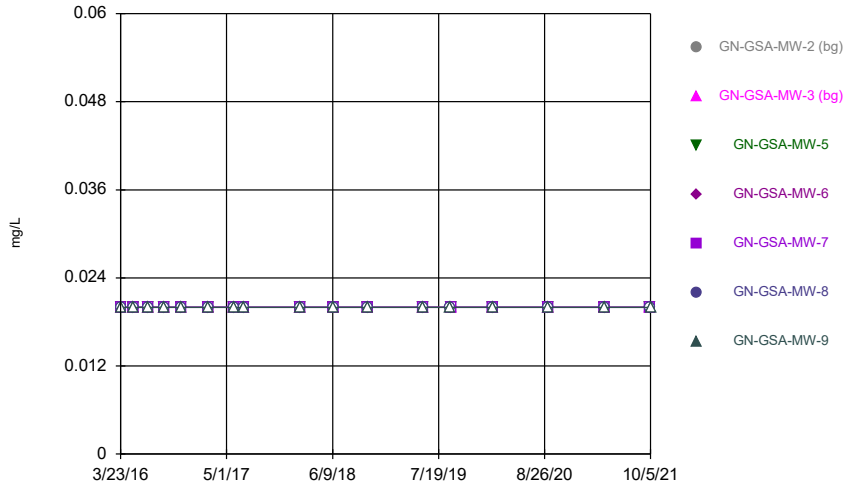
Time Series



Constituent: Lithium Analysis Run 1/11/2022 8:31 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

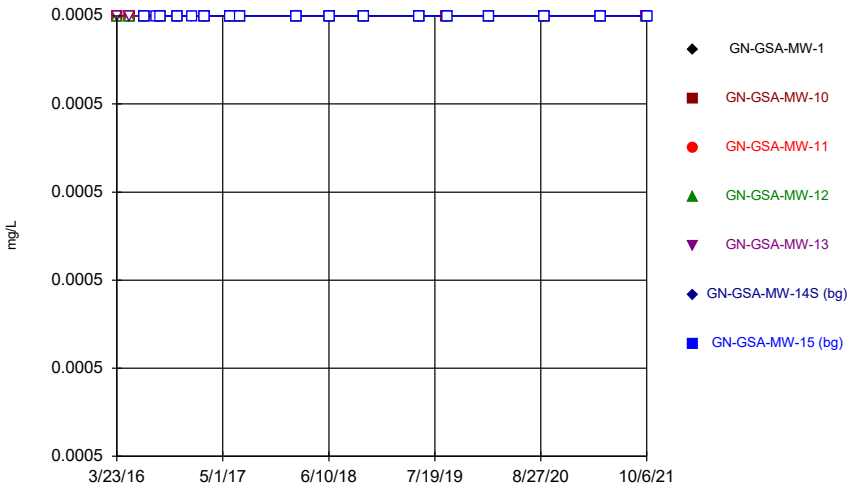
Time Series



Constituent: Lithium Analysis Run 1/11/2022 8:31 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

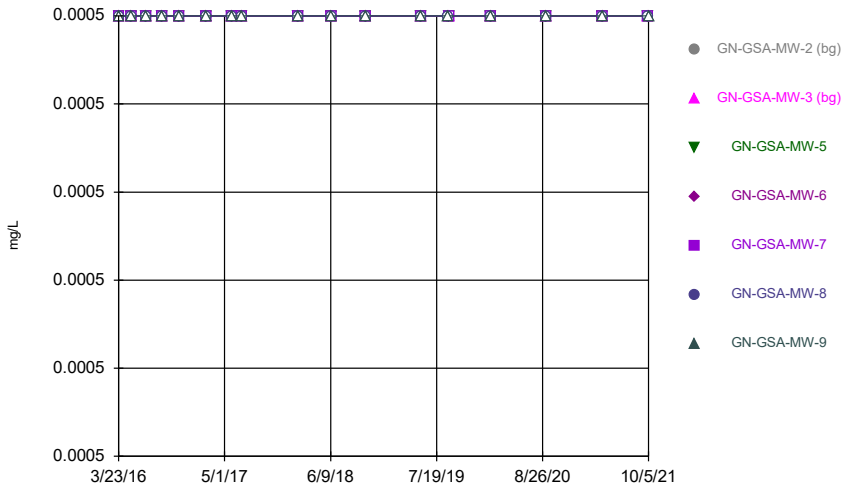
Time Series



Constituent: Mercury Analysis Run 1/11/2022 8:31 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

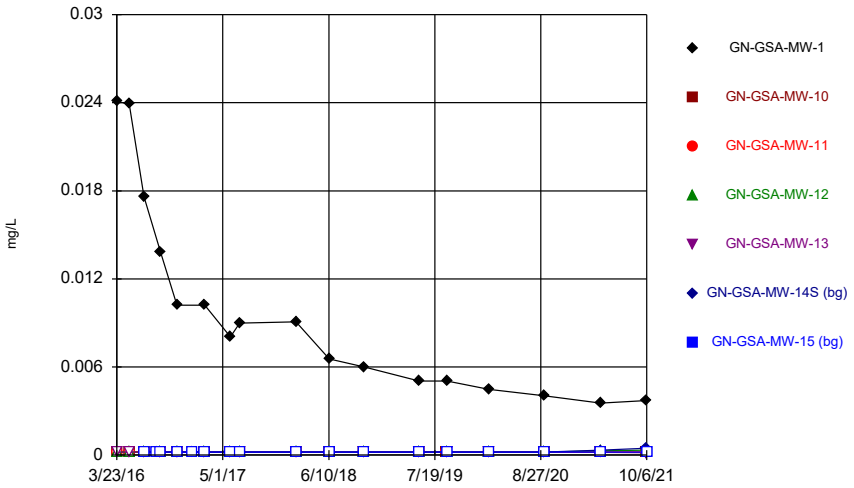
Time Series



Constituent: Mercury Analysis Run 1/11/2022 8:31 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

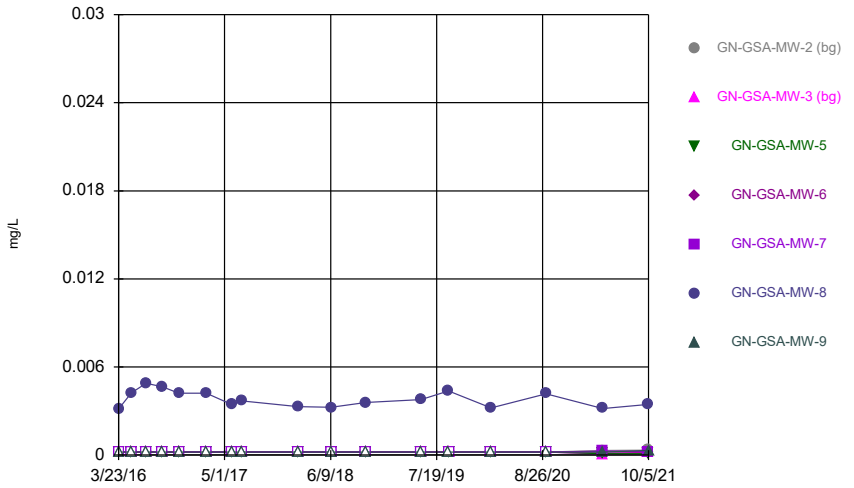
Time Series



Constituent: Molybdenum Analysis Run 1/11/2022 8:31 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

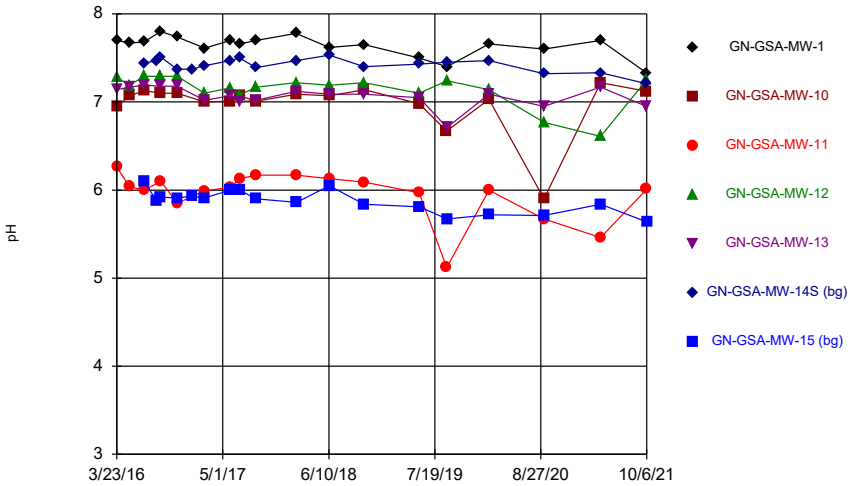
Time Series



Constituent: Molybdenum Analysis Run 1/11/2022 8:31 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Time Series

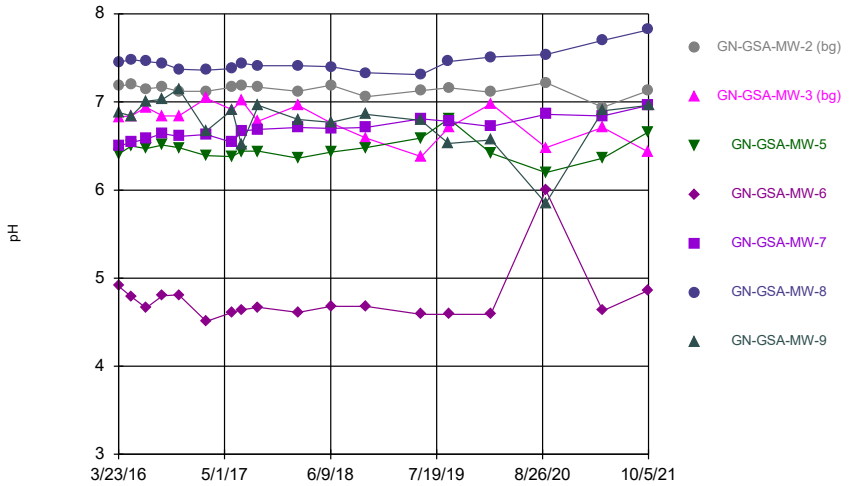


Constituent: pH Analysis Run 1/11/2022 8:31 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Time Series

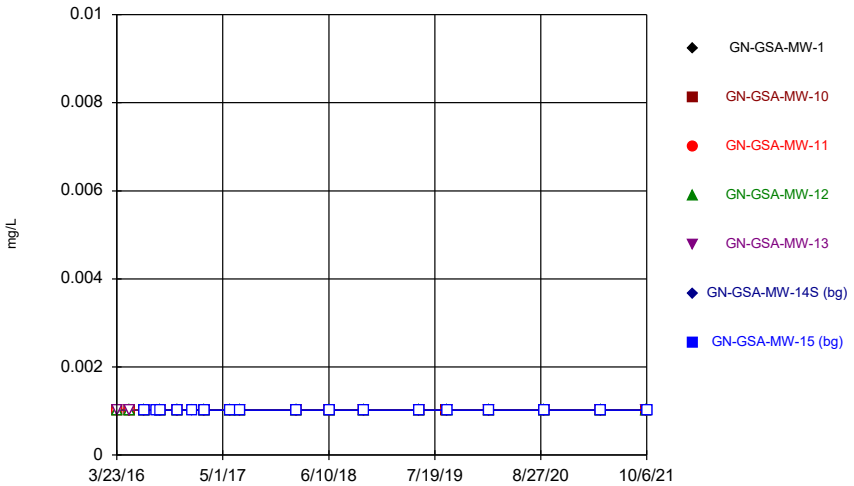


Constituent: pH Analysis Run 1/11/2022 8:31 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

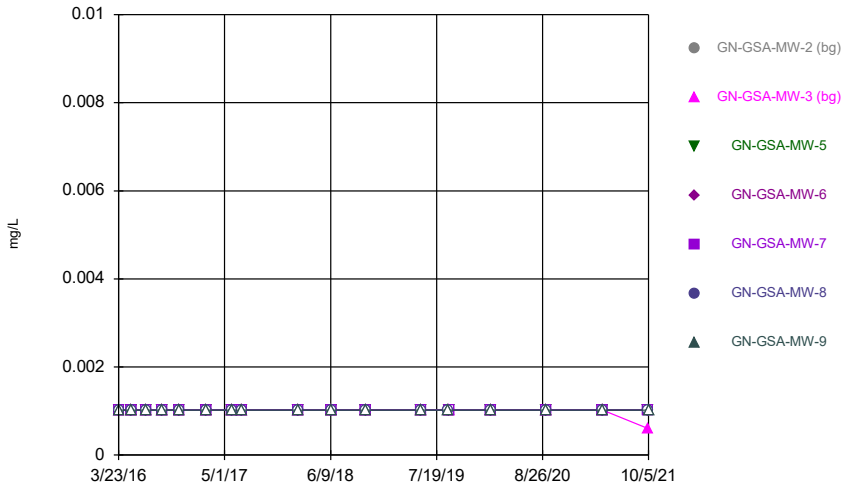


Constituent: Selenium Analysis Run 1/11/2022 8:31 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

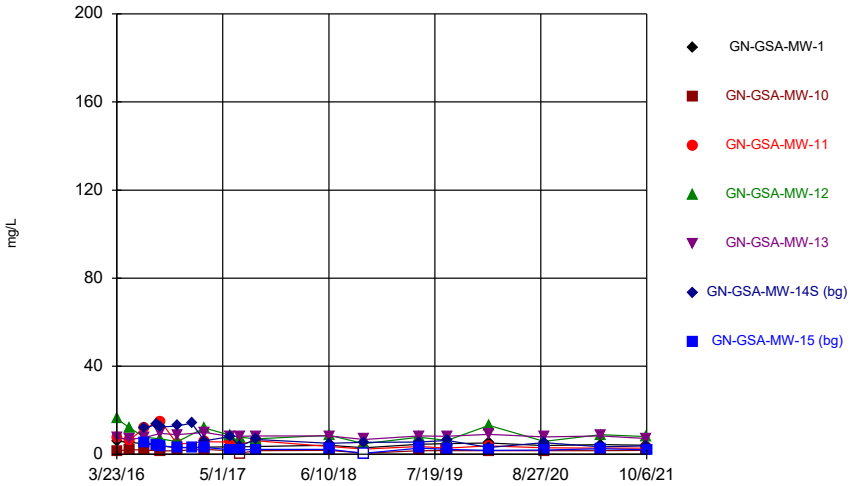


Constituent: Selenium Analysis Run 1/11/2022 8:31 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

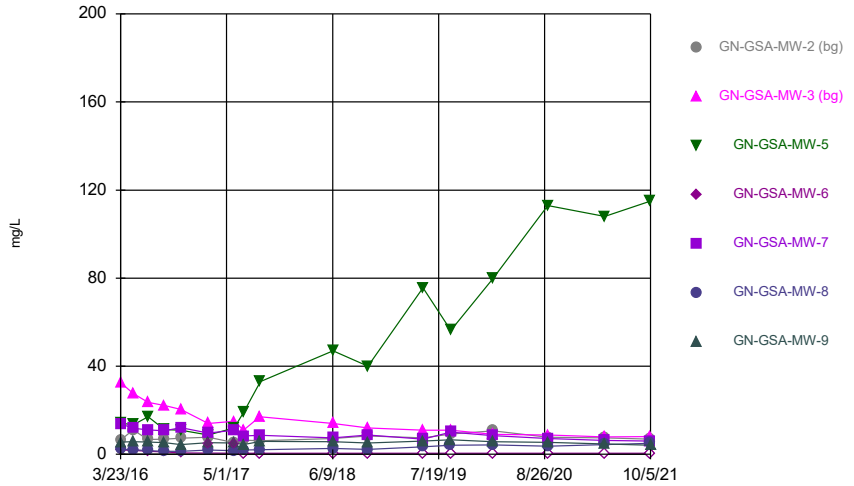
Time Series



Constituent: Sulfate Analysis Run 1/11/2022 8:31 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

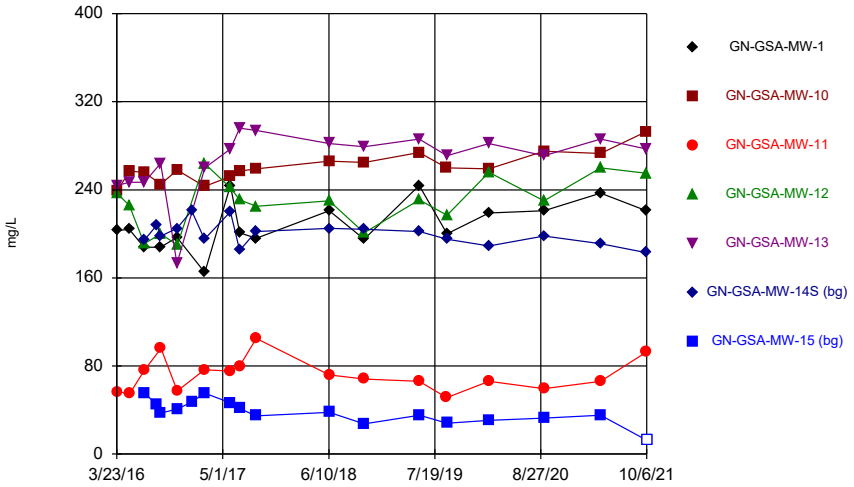
Time Series



Constituent: Sulfate Analysis Run 1/11/2022 8:31 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

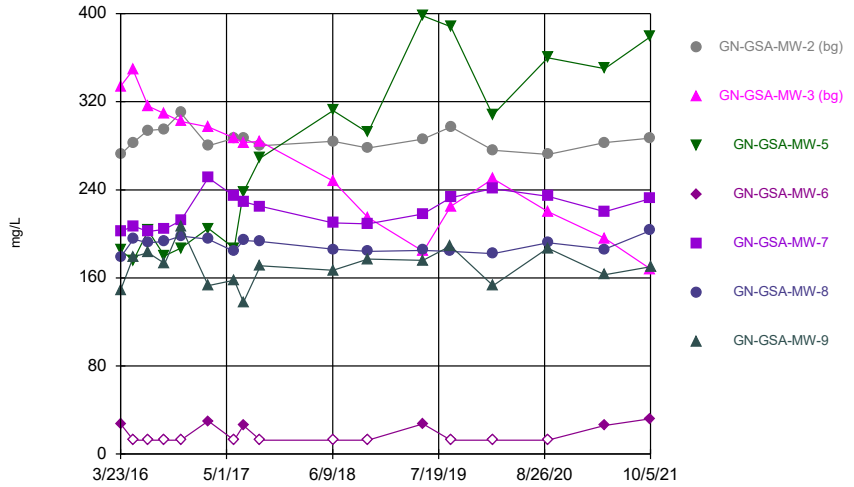
Time Series



Constituent: TDS Analysis Run 1/11/2022 8:31 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

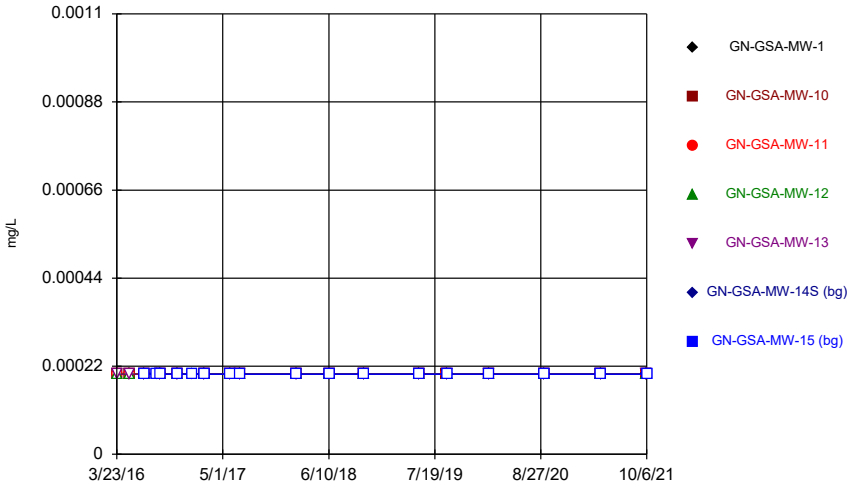
Time Series



Constituent: TDS Analysis Run 1/11/2022 8:31 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

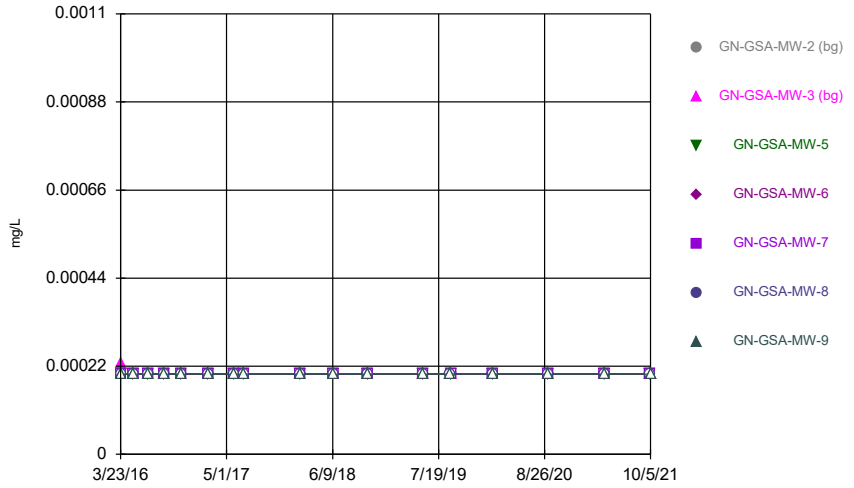
Time Series



Constituent: Thallium Analysis Run 1/11/2022 8:31 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 1/11/2022 8:31 PM
Plant Gaston Client: Southern Company Data: Gaston GSA

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/11/2022 8:31 PM

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

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/11/2022 8:31 PM

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

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/11/2022 8:31 PM

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

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/11/2022 8:31 PM

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)

Time Series

Constituent: Barium (mg/L) Analysis Run 1/11/2022 8:31 PM

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

Time Series

Constituent: Barium (mg/L) Analysis Run 1/11/2022 8:31 PM

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

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/11/2022 8:31 PM

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

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/11/2022 8:31 PM

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

Time Series

Constituent: Boron (mg/L) Analysis Run 1/11/2022 8:31 PM

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

Time Series

Constituent: Boron (mg/L) Analysis Run 1/11/2022 8:31 PM

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

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/11/2022 8:31 PM

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

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/11/2022 8:31 PM

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

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/11/2022 8:31 PM

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

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/11/2022 8:31 PM

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

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/11/2022 8:31 PM

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

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/11/2022 8:31 PM

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

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/11/2022 8:31 PM

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

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/11/2022 8:31 PM

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)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/11/2022 8:31 PM

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

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/11/2022 8:31 PM

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

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/11/2022 8:31 PM

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

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/11/2022 8:31 PM

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)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/11/2022 8:31 PM

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)	<0.1	<0.1
11/9/2016		0.3 (U)	<0.1	<0.1			
1/3/2017						<0.1	<0.1
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	<0.1	<0.1	0.05 (J)	0.04 (J)	0.04 (J)	<0.1
9/5/2017						0.06 (J)	<0.1
9/7/2017	0.37	<0.1	0.04 (J)	0.06 (J)	0.05 (J)		
2/5/2018	0.37			0.08 (J)	0.04 (J)		
2/6/2018		<0.1	<0.1			0.06 (J)	
2/7/2018							<0.1
6/12/2018	0.32	<0.1	<0.1	0.06 (J)	0.04 (J)	0.05 (J)	<0.1
10/23/2018	0.39			0.06 (J)	0.05 (J)	0.07 (J)	<0.1
10/24/2018		<0.1	<0.1				
5/21/2019	0.264	<0.1	<0.1	0.0649 (J)	0.0595 (J)		
5/22/2019						0.0601 (J)	<0.1
9/3/2019		<0.1	<0.1				
9/4/2019	0.33			0.0547 (J)	0.0555 (J)	0.0703 (J)	<0.1
2/12/2020	0.301	<0.1	<0.1	0.0586 (J)	<0.1	<0.1	<0.1
9/8/2020		0.0617 (J)					
9/9/2020	0.313		<0.1	0.068 (J)	0.0655 (J)	0.0847 (J)	<0.1
4/13/2021	0.29	<0.1	<0.1	<0.1	0.0633 (J)	<0.1	<0.1
10/4/2021	0.376				0.0748 (J)	0.0838 (J)	
10/5/2021		<0.1	<0.1	<0.1			
10/6/2021							<0.1

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/11/2022 8:31 PM

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)	<0.1	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	<0.1	<0.1	<0.1	<0.1	<0.1	0.043 (J)	<0.1
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	<0.1	0.05 (J)	<0.1	<0.1	0.08 (J)	0.13	<0.1
9/5/2017	<0.1	0.06 (J)					
9/7/2017			<0.1	<0.1	0.09 (J)	0.13	0.04 (J)
2/5/2018	0.04 (J)						
2/6/2018		0.06 (J)	<0.1	<0.1	0.08 (J)	0.15	0.04 (J)
6/11/2018			0.04 (J)	<0.1	0.09 (J)		
6/12/2018	<0.1	0.05 (J)				0.13	0.04 (J)
10/22/2018	<0.1		0.06 (J)	<0.1	0.1	0.15	0.05 (J)
10/23/2018		0.05 (J)					
5/20/2019	<0.1		0.0842 (J)	<0.1	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	<0.1	0.0594 (J)	0.0962 (J)	<0.1	0.07 (J)		
2/11/2020			<0.1	<0.1	0.0912 (J)		
2/12/2020	<0.1	0.0566 (J)				0.108	<0.1
9/8/2020			<0.1	<0.1			0.097 (J)
9/9/2020	0.0644 (J)	0.0748 (J)			0.118	0.14	
4/13/2021	<0.1	0.069 (J)	<0.1	<0.1	0.129	0.119	0.0602 (J)
10/4/2021	0.0664 (J)	0.0637 (J)	<0.1	<0.1	0.12	0.134	
10/5/2021							<0.1

Time Series

Constituent: Lead (mg/L) Analysis Run 1/11/2022 8:31 PM

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

Time Series

Constituent: Lead (mg/L) Analysis Run 1/11/2022 8:31 PM

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

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/11/2022 8:31 PM

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

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/11/2022 8:31 PM

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

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/11/2022 8:31 PM

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

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/11/2022 8:31 PM

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

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/11/2022 8:31 PM

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

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/11/2022 8:31 PM

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

Time Series

Constituent: pH (pH) Analysis Run 1/11/2022 8:31 PM

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

Time Series

Constituent: pH (pH) Analysis Run 1/11/2022 8:31 PM

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

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/11/2022 8:31 PM

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

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/11/2022 8:31 PM

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

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/11/2022 8:31 PM

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

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/11/2022 8:31 PM

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

Time Series

Constituent: TDS (mg/L) Analysis Run 1/11/2022 8:31 PM

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

Time Series

Constituent: TDS (mg/L) Analysis Run 1/11/2022 8:31 PM

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

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/11/2022 8:31 PM

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

Time Series

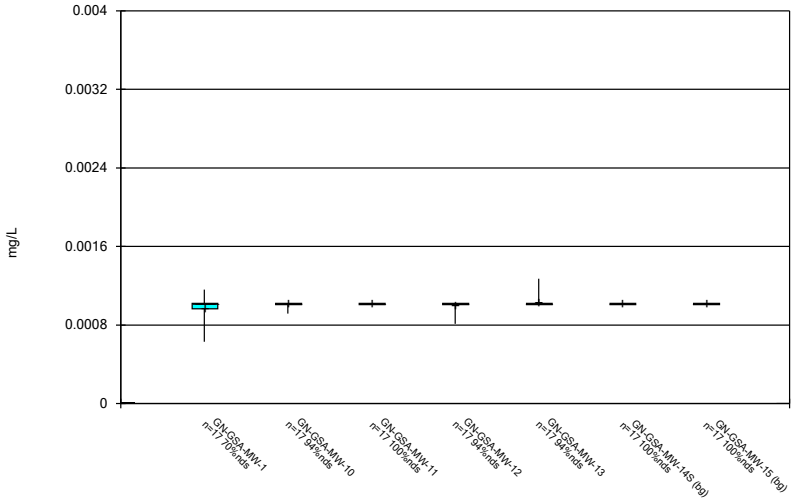
Constituent: Thallium (mg/L) Analysis Run 1/11/2022 8:31 PM

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

FIGURE B.

Box & Whiskers Plot

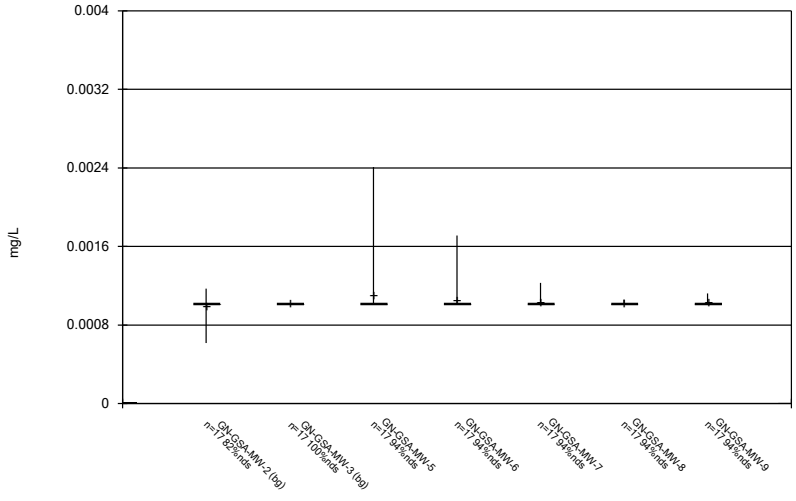


Constituent: Antimony Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Box & Whiskers Plot

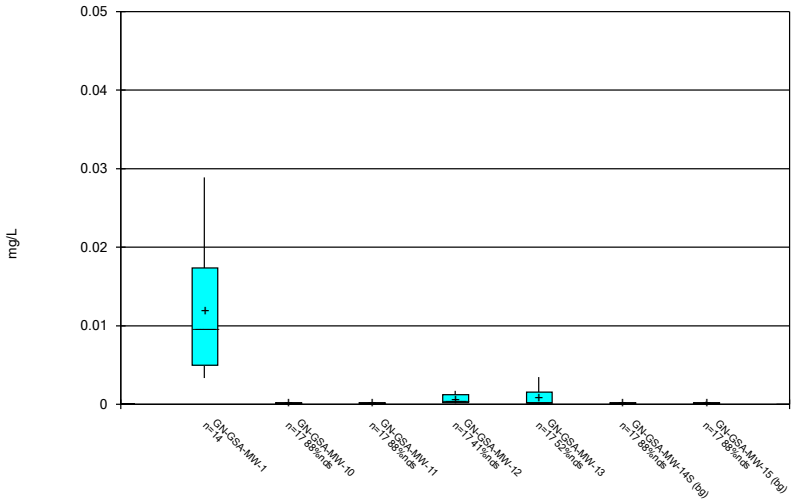


Constituent: Antimony Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Box & Whiskers Plot

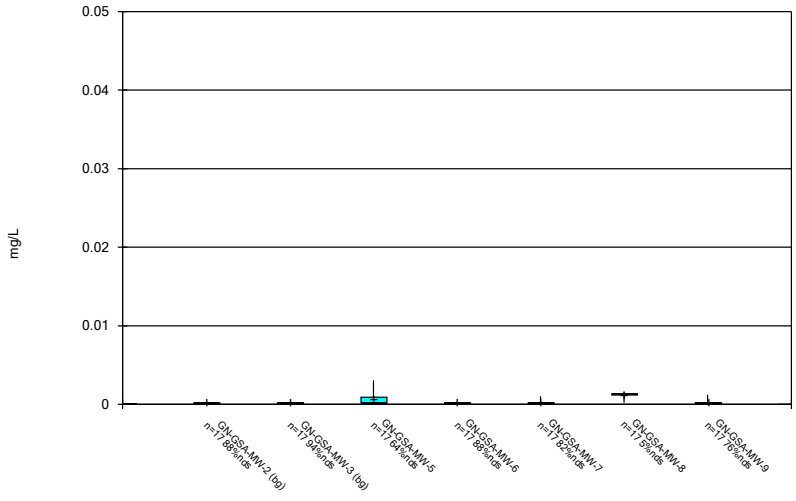


Constituent: Arsenic Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

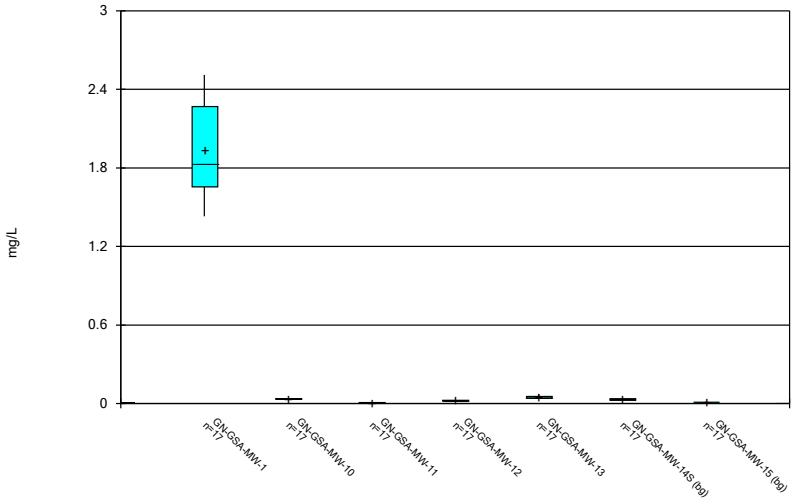
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Box & Whiskers Plot

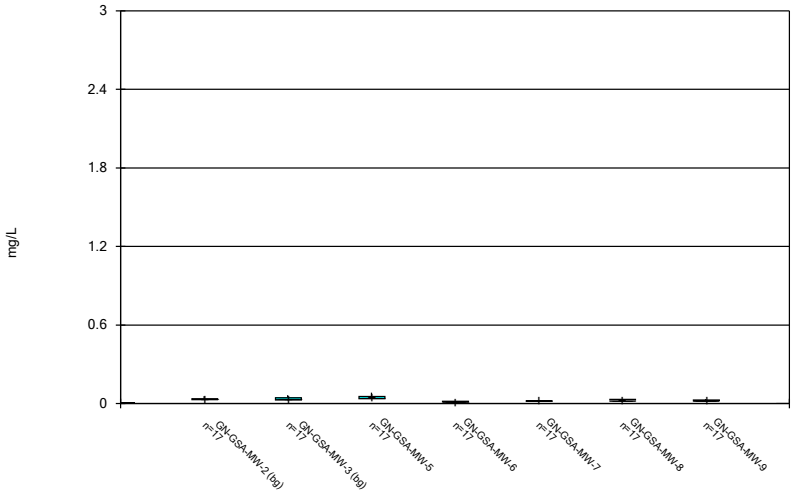


Constituent: Barium Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Box & Whiskers Plot

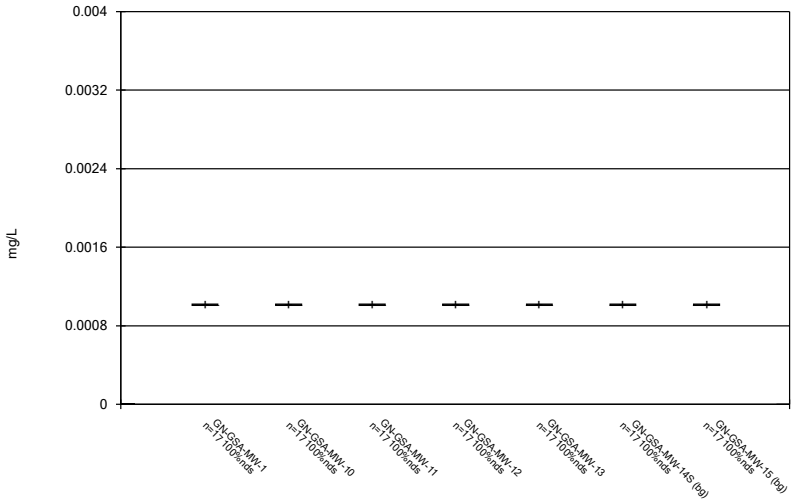


Constituent: Barium Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Box & Whiskers Plot

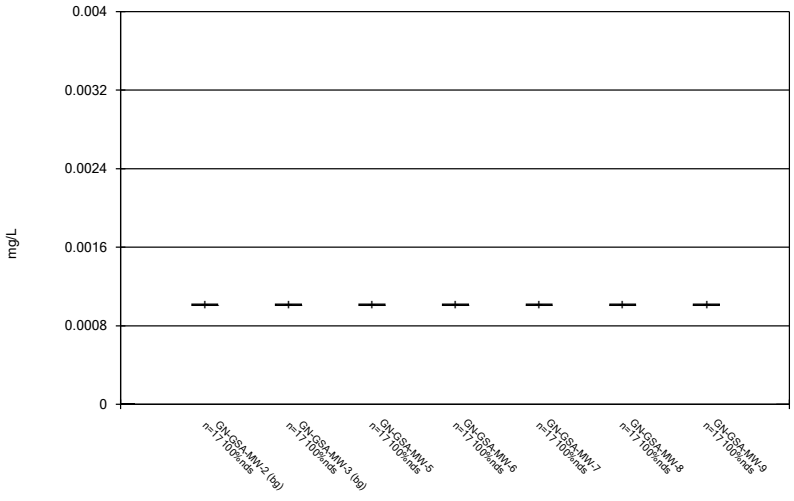


Constituent: Beryllium Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

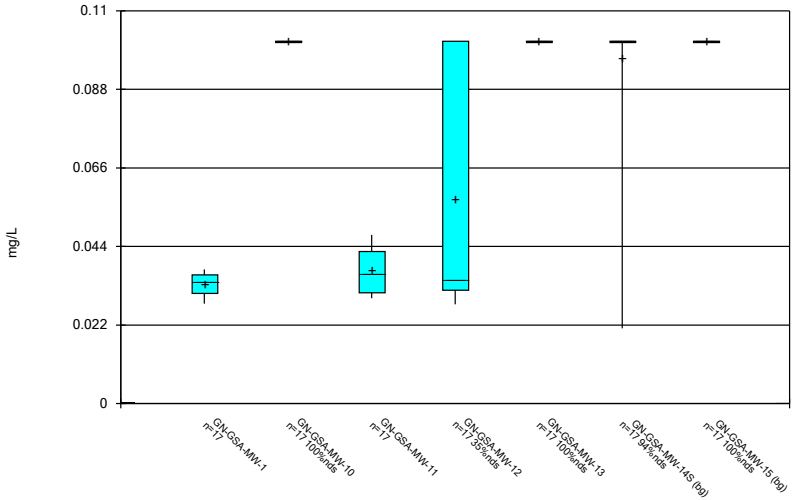
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Box & Whiskers Plot

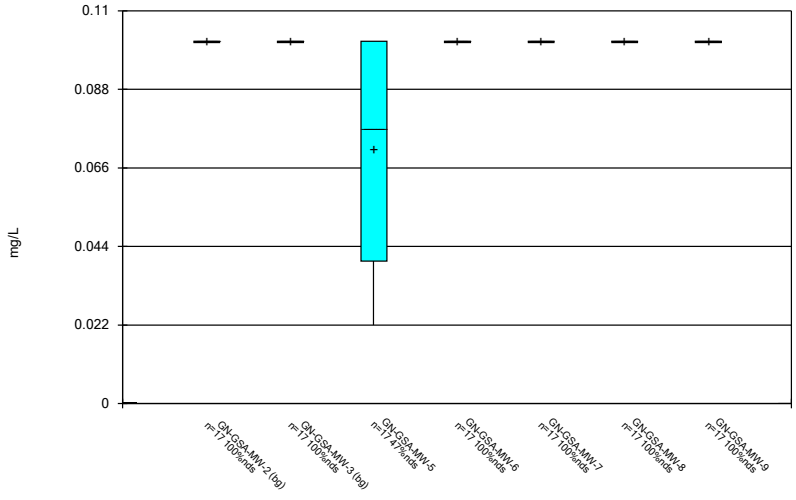


Constituent: Boron Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Box & Whiskers Plot

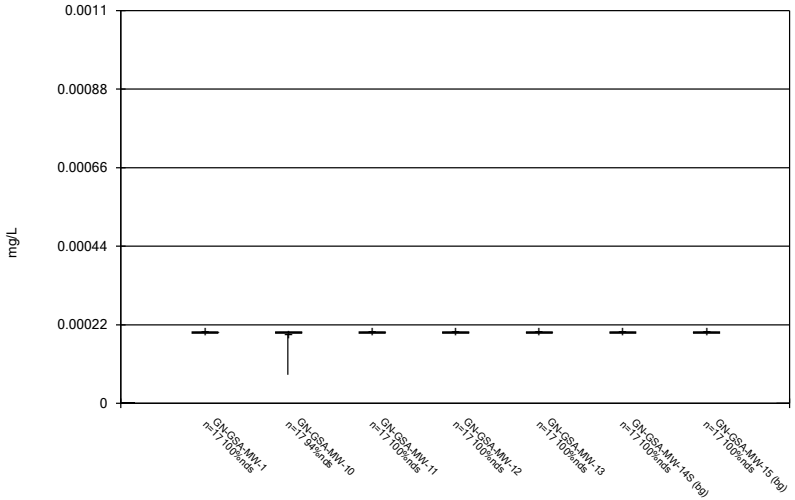


Constituent: Boron Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Box & Whiskers Plot

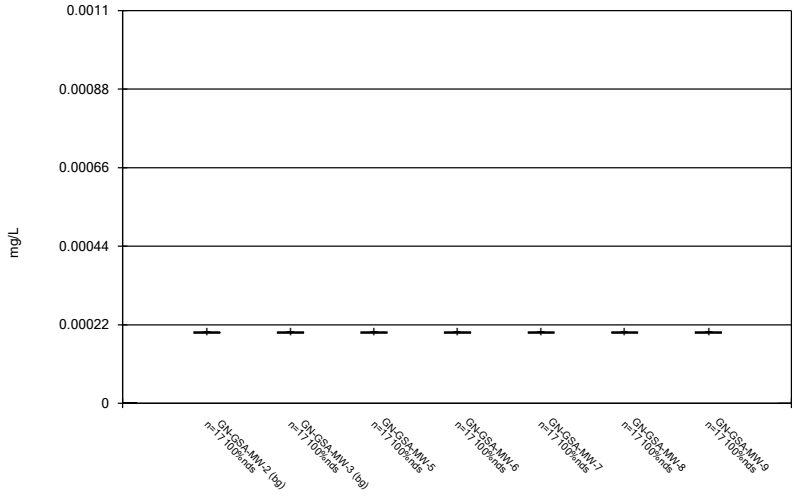


Constituent: Cadmium Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

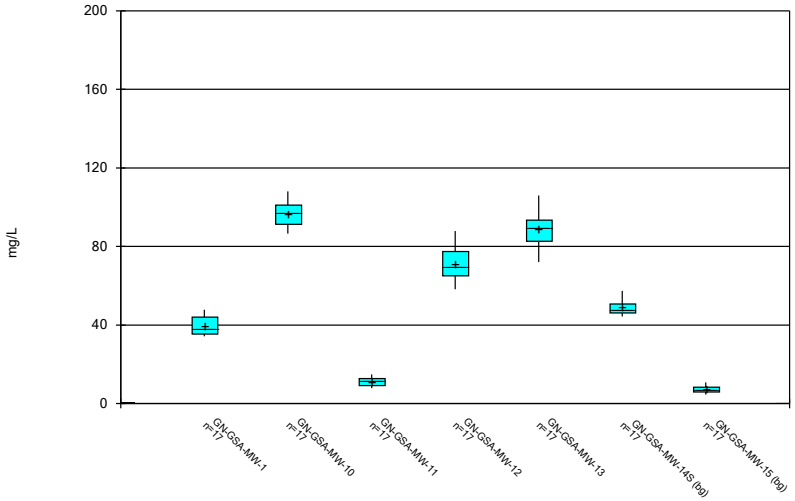
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Box & Whiskers Plot

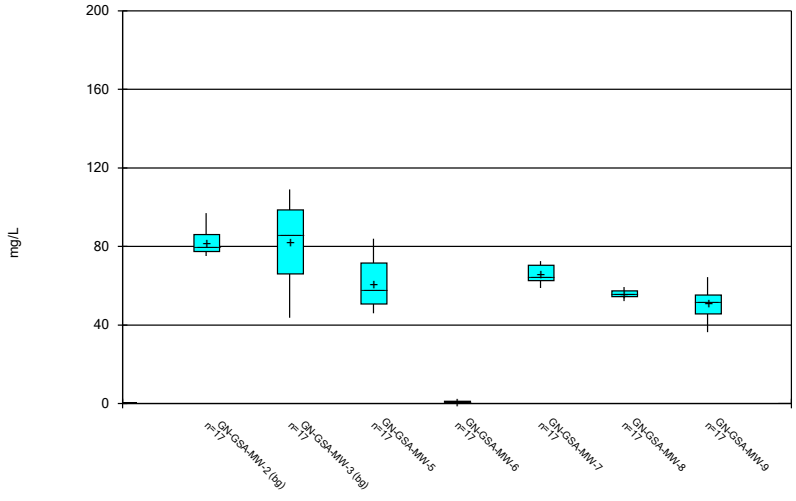


Constituent: Calcium Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Box & Whiskers Plot

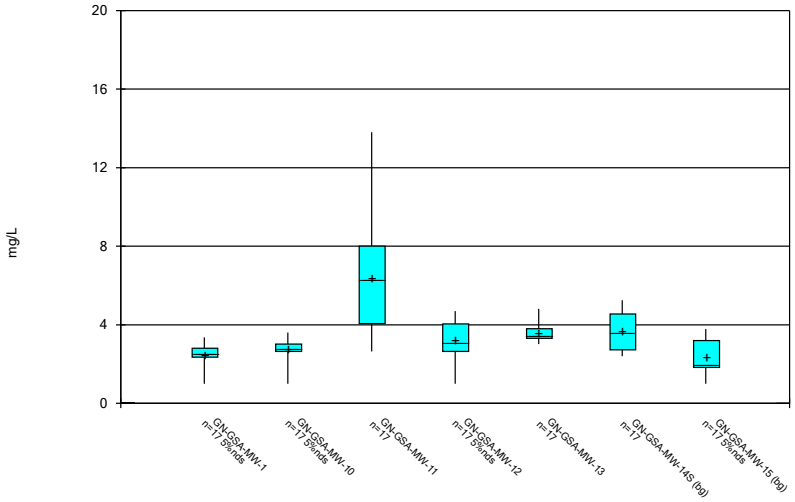


Constituent: Calcium Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Box & Whiskers Plot

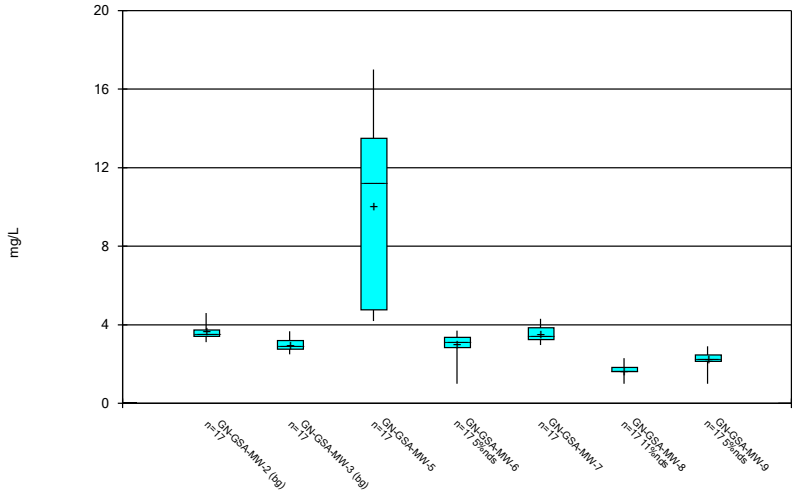


Constituent: Chloride Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

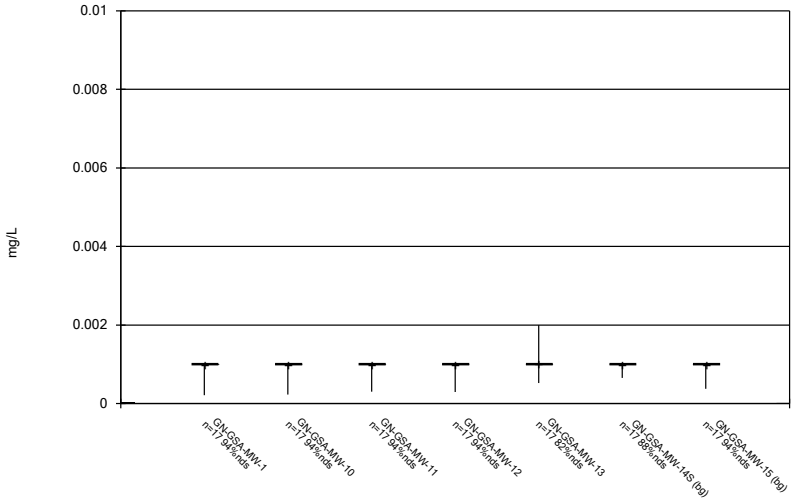
Box & Whiskers Plot



Constituent: Chloride Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Box & Whiskers Plot

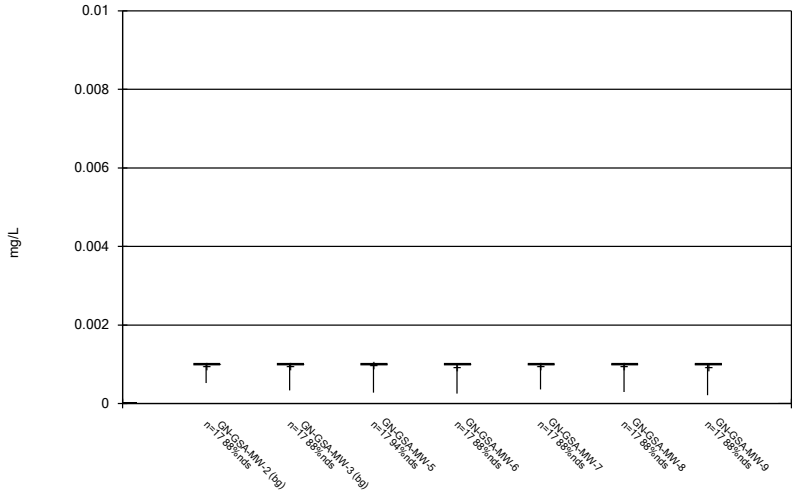


Constituent: Chromium Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Box & Whiskers Plot

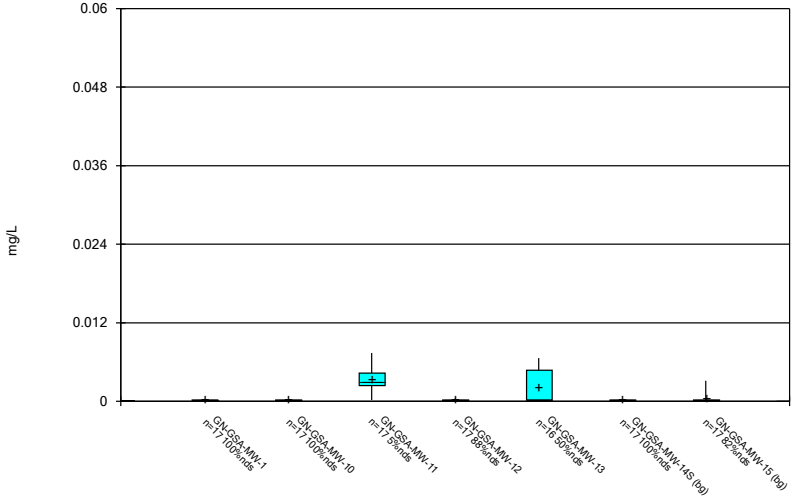


Constituent: Chromium Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Box & Whiskers Plot

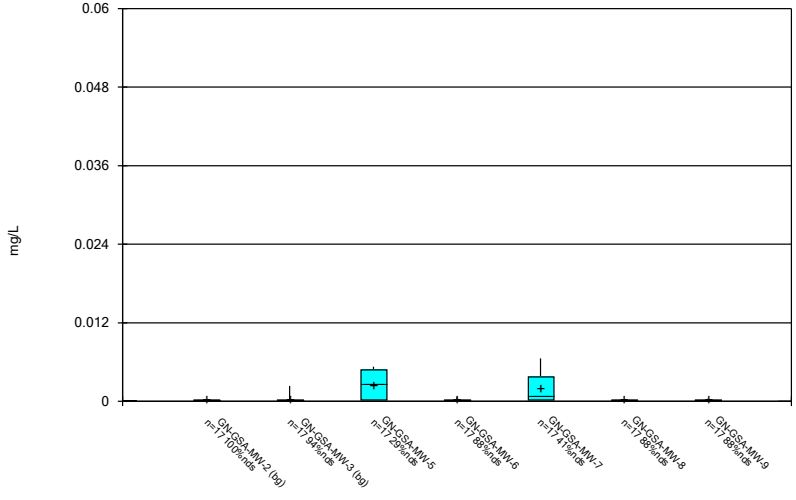


Constituent: Cobalt Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

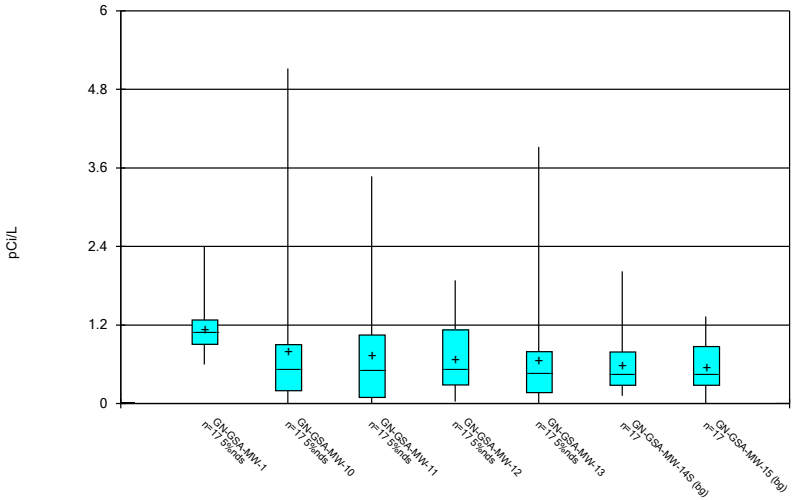
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Box & Whiskers Plot

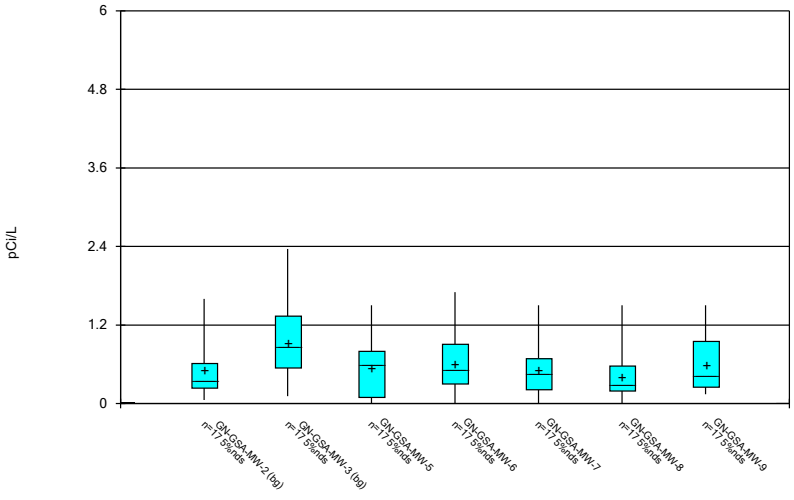


Constituent: Combined Radium 226 + 228 Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Box & Whiskers Plot

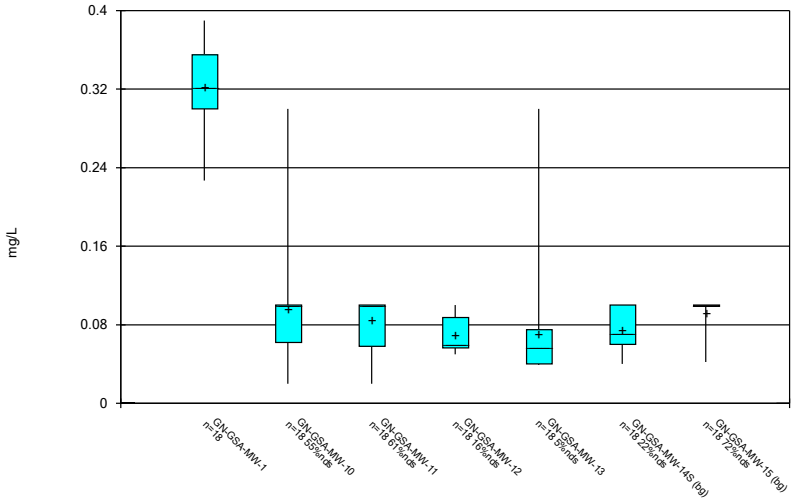


Constituent: Combined Radium 226 + 228 Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Box & Whiskers Plot

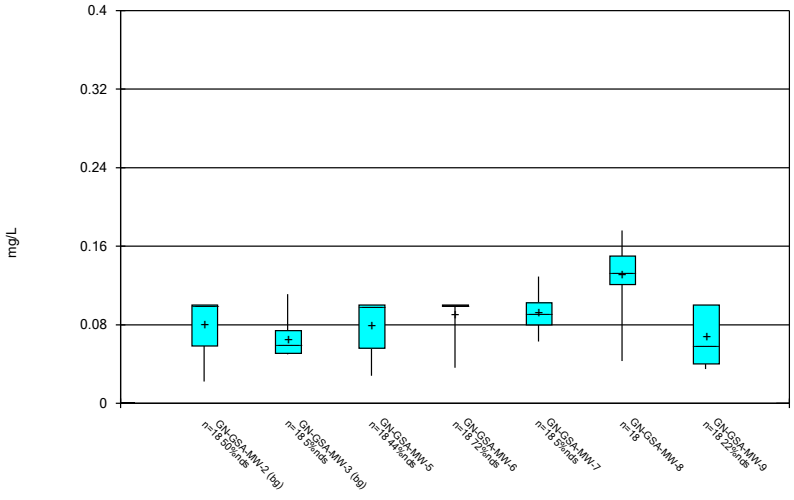


Constituent: Fluoride Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

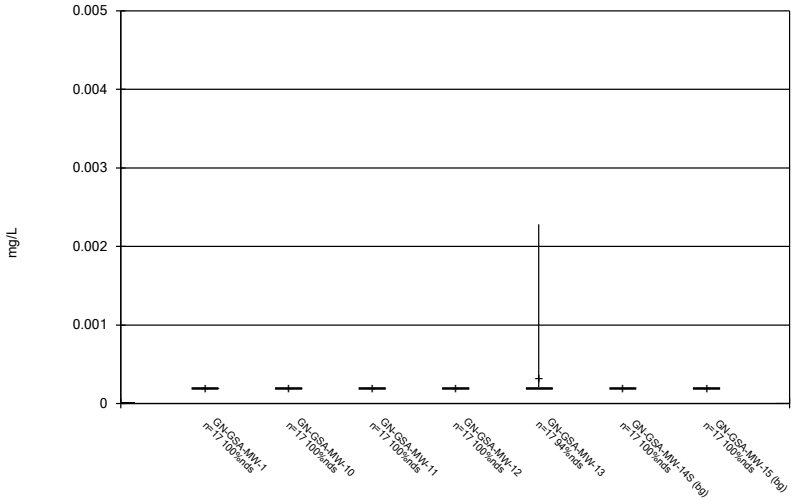
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Box & Whiskers Plot

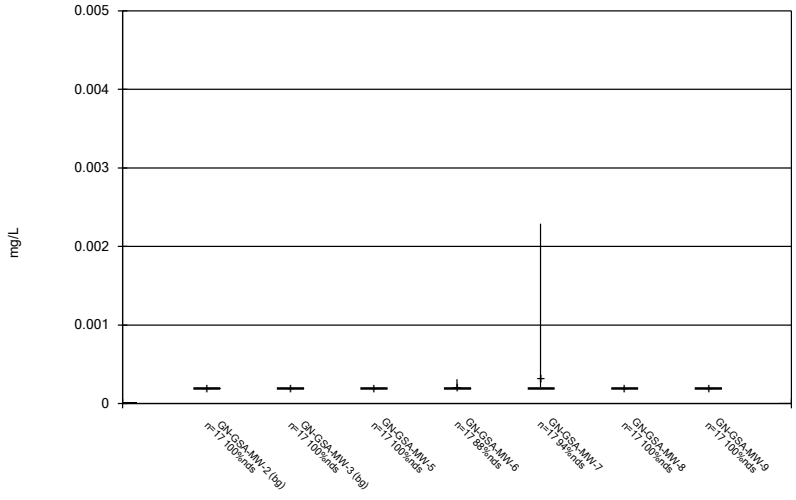


Constituent: Lead Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Box & Whiskers Plot

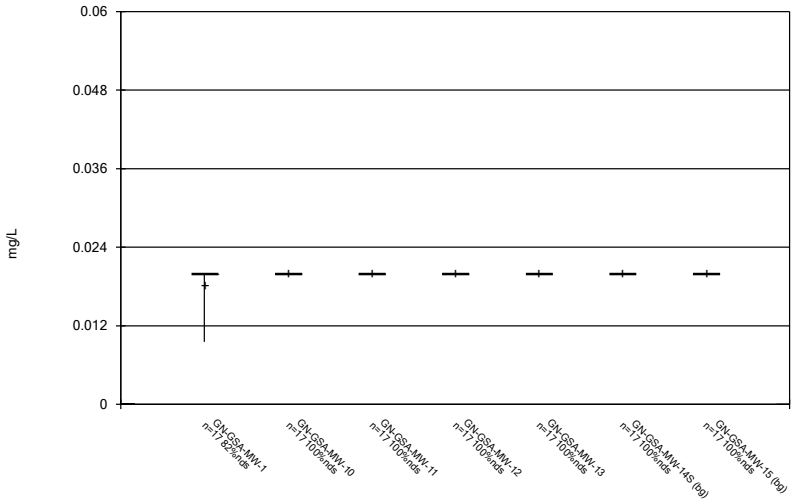


Constituent: Lead Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Box & Whiskers Plot

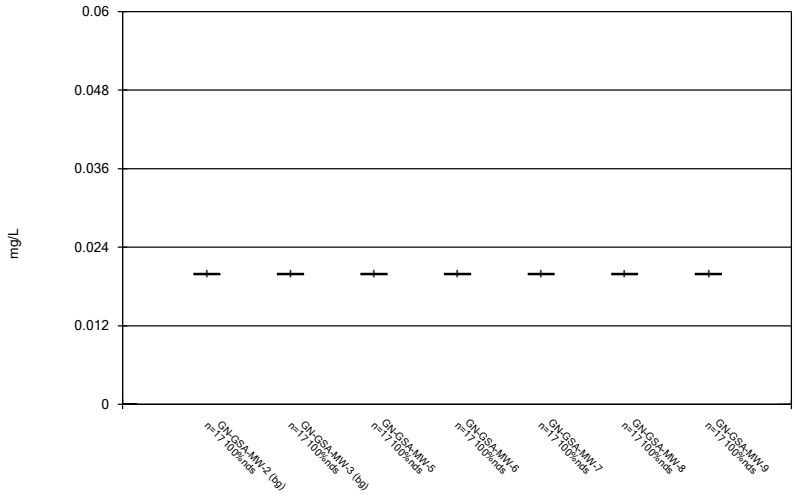


Constituent: Lithium Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Box & Whiskers Plot

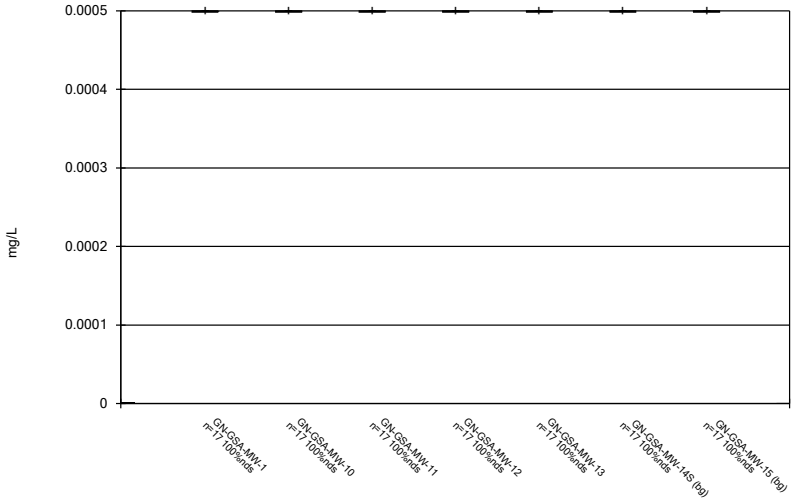


Constituent: Lithium Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Box & Whiskers Plot

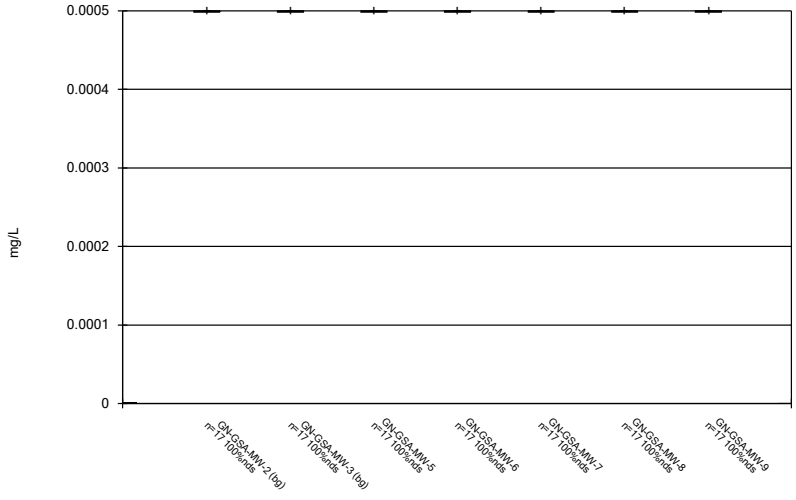


Constituent: Mercury Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Box & Whiskers Plot

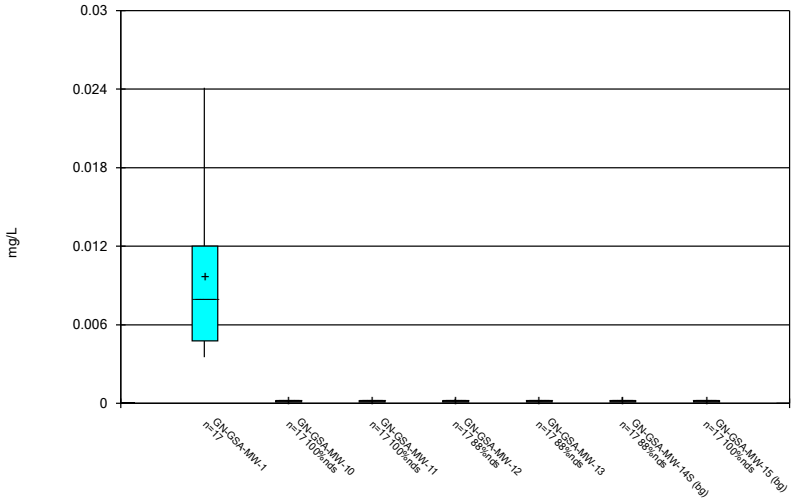


Constituent: Mercury Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Box & Whiskers Plot

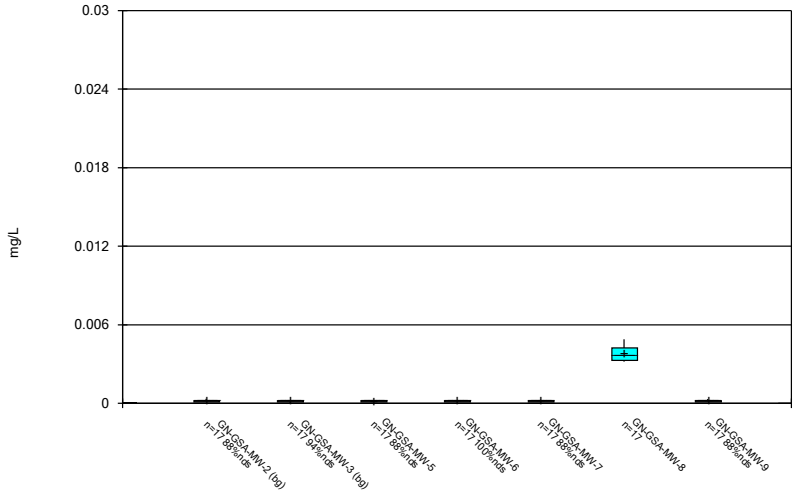


Constituent: Molybdenum Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

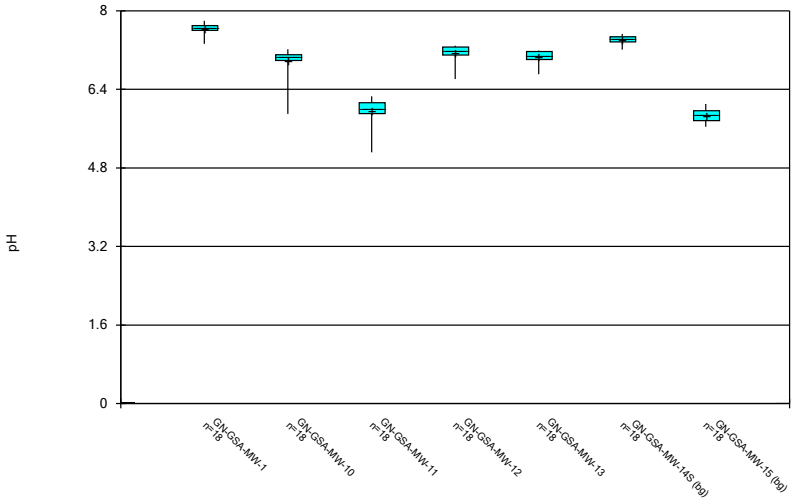
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Box & Whiskers Plot

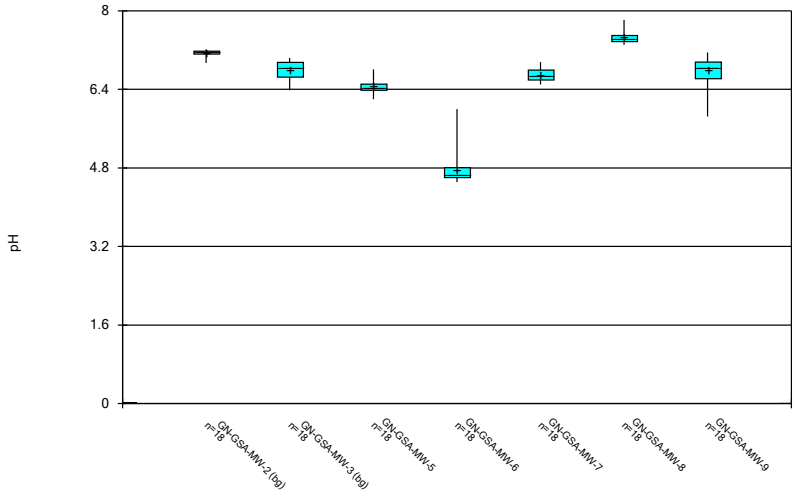


Constituent: pH Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Box & Whiskers Plot

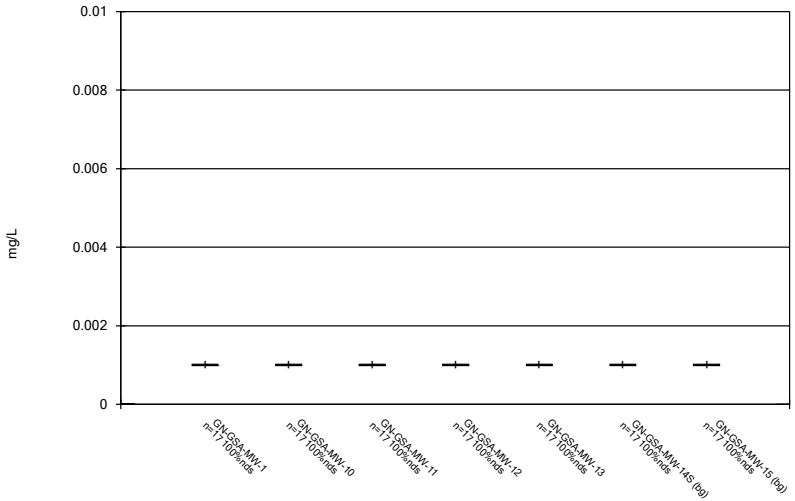


Constituent: pH Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Box & Whiskers Plot

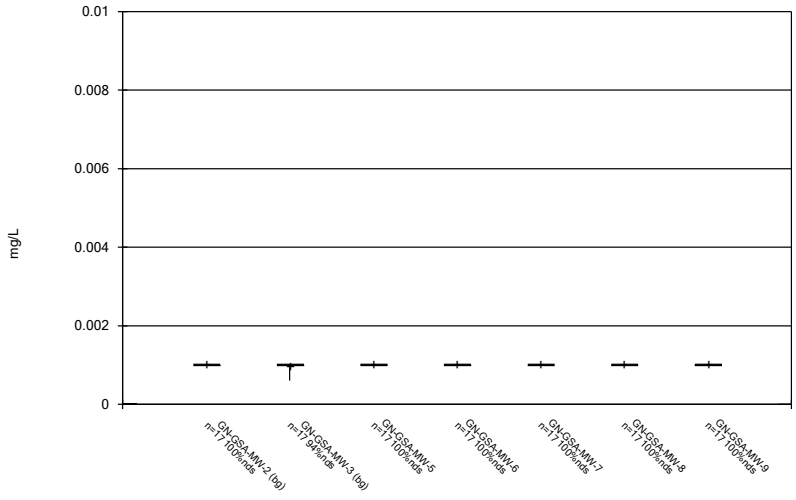


Constituent: Selenium Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

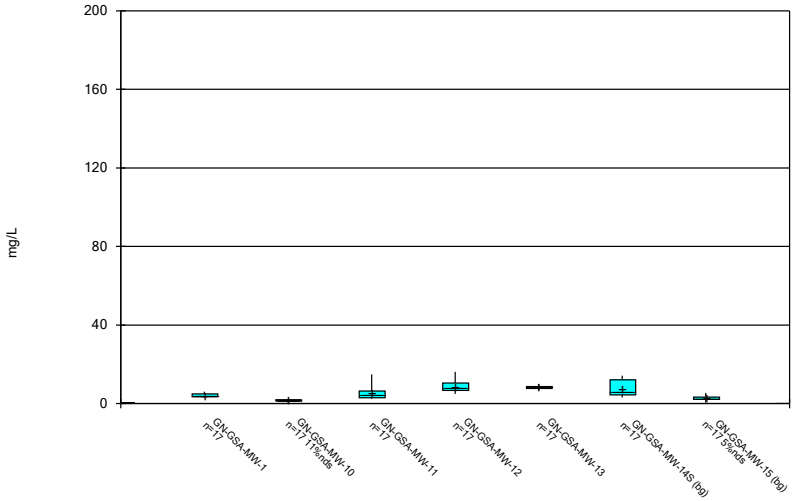
Box & Whiskers Plot



Constituent: Selenium Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Box & Whiskers Plot

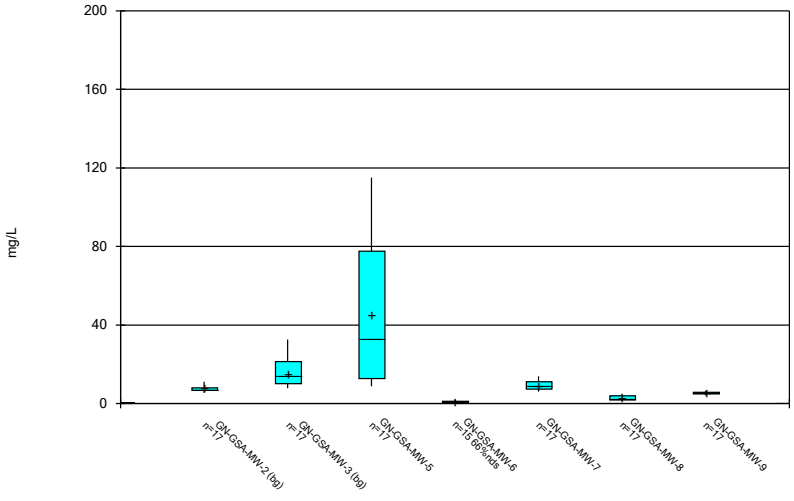


Constituent: Sulfate Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Box & Whiskers Plot

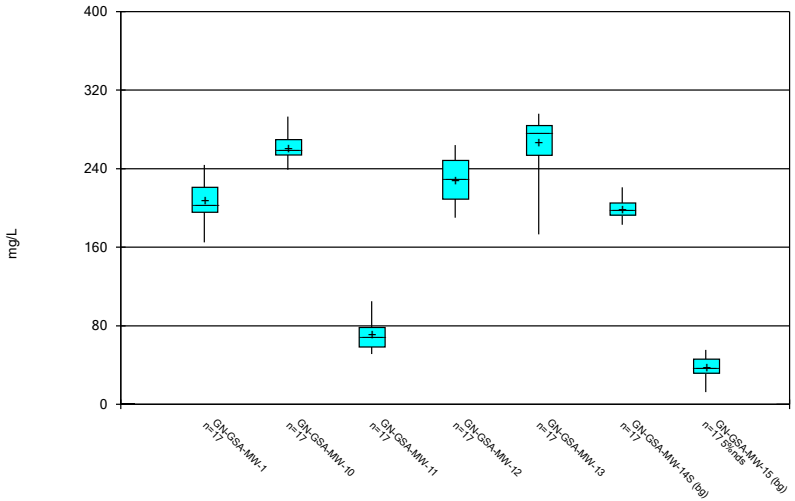


Constituent: Sulfate Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Box & Whiskers Plot

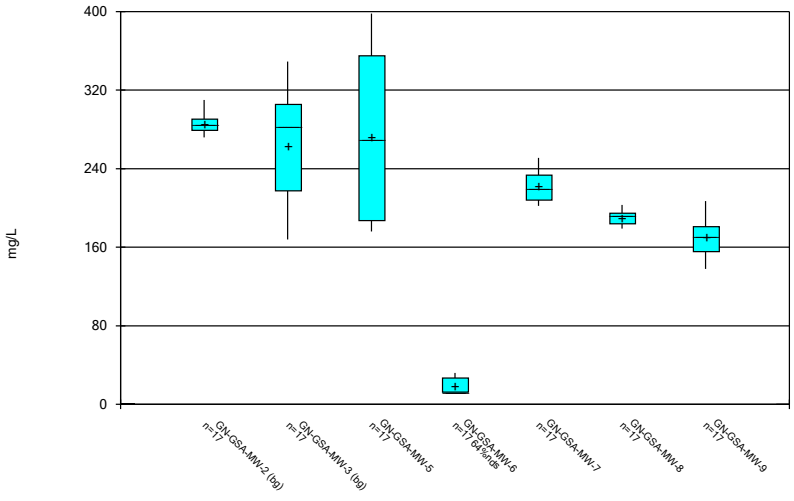


Constituent: TDS Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

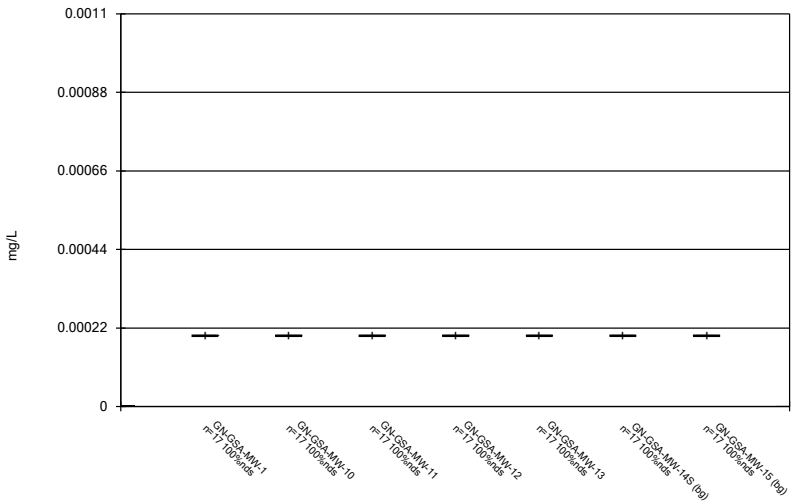
Box & Whiskers Plot



Constituent: TDS Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Box & Whiskers Plot

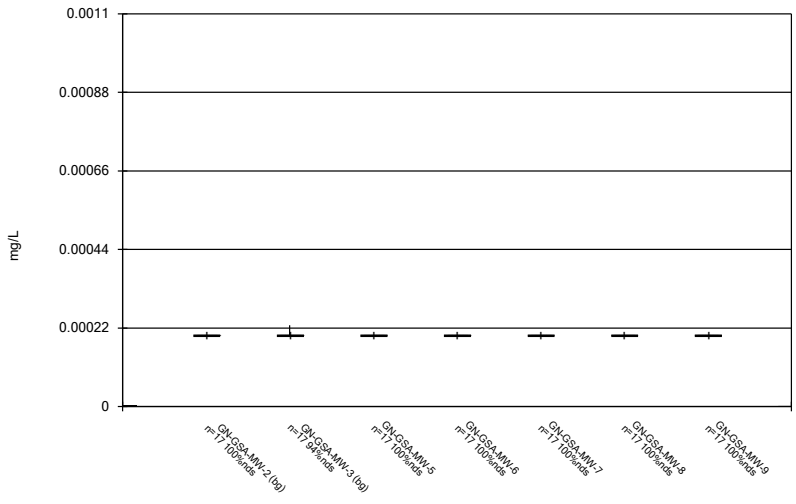


Constituent: Thallium Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Thallium Analysis Run 1/11/2022 8:33 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

FIGURE C.

Outlier Summary

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 1/12/2022, 7:58 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.

Appendix III Welch's t-test/Mann-Whitney - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 7/19/2021, 1:55 PM

Constituent	Well	Calc.	0.01	Method
Calcium (mg/L)	**GN-GSA-MW-1**	**3.284**	**Yes**	**Mann-W**
Calcium (mg/L)	**GN-GSA-MW-10**	**3.178**	**Yes**	**Mann-W**
Calcium (mg/L)	**GN-GSA-MW-13**	**2.858**	**Yes**	**Mann-W**
Calcium (mg/L)	**GN-GSA-MW-15 (bg)**	**-2.85**	**Yes**	**Mann-W**
Chloride (mg/L)	**GN-GSA-MW-11**	**3.176**	**Yes**	**Mann-W**
Chloride (mg/L)	**GN-GSA-MW-14S (bg)**	**-2.973**	**Yes**	**Mann-W**
Sulfate (mg/L)	**GN-GSA-MW-3 (bg)**	**-2.975**	**Yes**	**Mann-W**
Sulfate (mg/L)	**GN-GSA-MW-5**	**3.281**	**Yes**	**Mann-W**
Sulfate (mg/L)	**GN-GSA-MW-8**	**3.176**	**Yes**	**Mann-W**
TDS (mg/L)	**GN-GSA-MW-10**	**3.233**	**Yes**	**Mann-W**
TDS (mg/L)	**GN-GSA-MW-5**	**3.284**	**Yes**	**Mann-W**

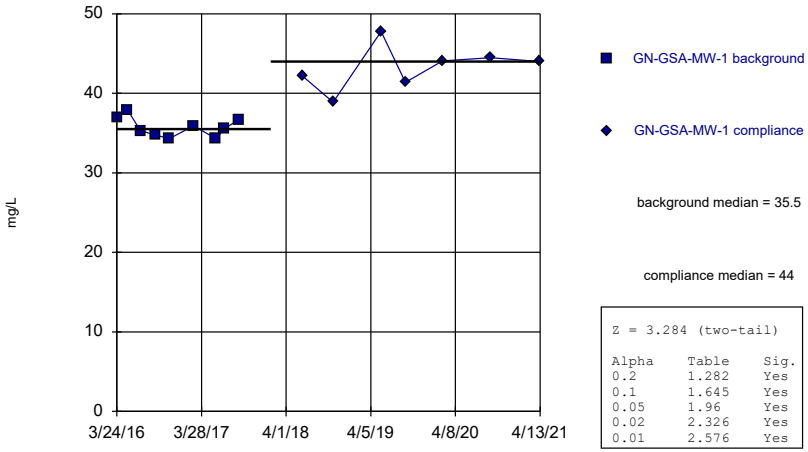
Appendix III Welch's t-test/Mann-Whitney - All Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 7/19/2021, 1:55 PM

Constituent	Well	Calc.	0.01	Method
Calcium (mg/L)	**GN-GSA-MW-1**	**3.284**	**Yes**	**Mann-W**
Calcium (mg/L)	**GN-GSA-MW-10**	**3.178**	**Yes**	**Mann-W**
Calcium (mg/L)	GN-GSA-MW-11	0.3034	No	Mann-W
Calcium (mg/L)	GN-GSA-MW-12	2.488	No	Mann-W
Calcium (mg/L)	**GN-GSA-MW-13**	**2.858**	**Yes**	**Mann-W**
Calcium (mg/L)	GN-GSA-MW-14S (bg)	0.3641	No	Mann-W
Calcium (mg/L)	**GN-GSA-MW-15 (bg)**	**-2.85**	**Yes**	**Mann-W**
Calcium (mg/L)	GN-GSA-MW-2 (bg)	0.8495	No	Mann-W
Calcium (mg/L)	GN-GSA-MW-3 (bg)	-1.88	No	Mann-W
Calcium (mg/L)	GN-GSA-MW-5	2.365	No	Mann-W
Calcium (mg/L)	GN-GSA-MW-6	-2.065	No	Mann-W
Calcium (mg/L)	GN-GSA-MW-7	1.516	No	Mann-W
Calcium (mg/L)	GN-GSA-MW-8	-1.032	No	Mann-W
Calcium (mg/L)	GN-GSA-MW-9	-0.06063	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-1	-0.7287	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-10	1.092	No	Mann-W
Chloride (mg/L)	**GN-GSA-MW-11**	**3.176**	**Yes**	**Mann-W**
Chloride (mg/L)	GN-GSA-MW-12	0.5457	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-13	0.6675	No	Mann-W
Chloride (mg/L)	**GN-GSA-MW-14S (bg)**	**-2.973**	**Yes**	**Mann-W**
Chloride (mg/L)	GN-GSA-MW-15 (bg)	-1.518	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-2 (bg)	0.06072	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-3 (bg)	-1.943	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-5	-0.06072	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-6	2.063	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-7	1.153	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-8	-1.035	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-9	-1.467	No	Mann-W
Sulfate (mg/L)	GN-GSA-MW-1	1.274	No	Mann-W
Sulfate (mg/L)	GN-GSA-MW-10	-1.58	No	Mann-W
Sulfate (mg/L)	GN-GSA-MW-11	-2.243	No	Mann-W
Sulfate (mg/L)	GN-GSA-MW-12	-0.06072	No	Mann-W
Sulfate (mg/L)	GN-GSA-MW-13	0.4247	No	Mann-W
Sulfate (mg/L)	GN-GSA-MW-14S (bg)	-2.122	No	Mann-W
Sulfate (mg/L)	GN-GSA-MW-15 (bg)	-1.882	No	Mann-W
Sulfate (mg/L)	GN-GSA-MW-2 (bg)	1.88	No	Mann-W
Sulfate (mg/L)	**GN-GSA-MW-3 (bg)**	**-2.975**	**Yes**	**Mann-W**
Sulfate (mg/L)	**GN-GSA-MW-5**	**3.281**	**Yes**	**Mann-W**
Sulfate (mg/L)	GN-GSA-MW-6	-1.731	No	Mann-W
Sulfate (mg/L)	GN-GSA-MW-7	-1.758	No	Mann-W
Sulfate (mg/L)	**GN-GSA-MW-8**	**3.176**	**Yes**	**Mann-W**
Sulfate (mg/L)	GN-GSA-MW-9	0.5457	No	Mann-W
TDS (mg/L)	GN-GSA-MW-1	1.215	No	Mann-W
TDS (mg/L)	**GN-GSA-MW-10**	**3.233**	**Yes**	**Mann-W**
TDS (mg/L)	GN-GSA-MW-11	-1.764	No	Mann-W
TDS (mg/L)	GN-GSA-MW-12	0.9716	No	Mann-W
TDS (mg/L)	GN-GSA-MW-13	0.6689	No	Mann-W
TDS (mg/L)	GN-GSA-MW-14S (bg)	-2.007	No	Mann-W
TDS (mg/L)	GN-GSA-MW-15 (bg)	-2.307	No	Mann-W
TDS (mg/L)	GN-GSA-MW-2 (bg)	-0.9122	No	Mann-W
TDS (mg/L)	GN-GSA-MW-3 (bg)	-2.001	No	Mann-W
TDS (mg/L)	**GN-GSA-MW-5**	**3.284**	**Yes**	**Mann-W**
TDS (mg/L)	GN-GSA-MW-6	-0.5911	No	Mann-W
TDS (mg/L)	GN-GSA-MW-7	1.822	No	Mann-W
TDS (mg/L)	GN-GSA-MW-8	-1.403	No	Mann-W
TDS (mg/L)	GN-GSA-MW-9	0.4854	No	Mann-W

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-1



Z = 3.284 (two-tail)

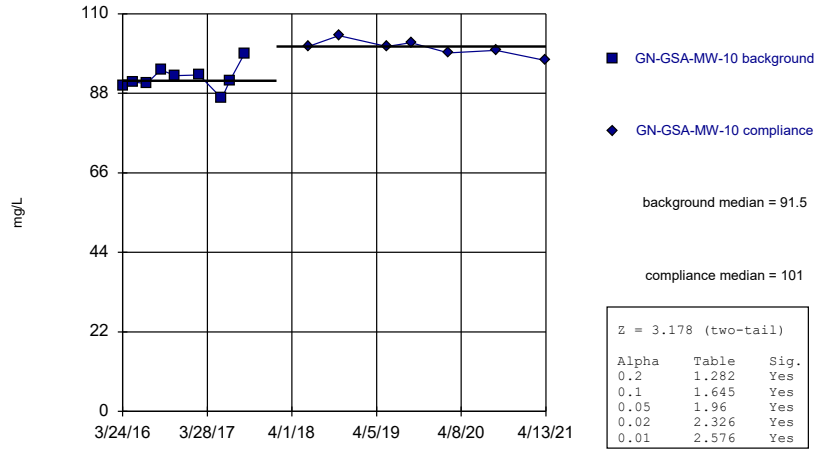
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: Calcium Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-10



Z = 3.178 (two-tail)

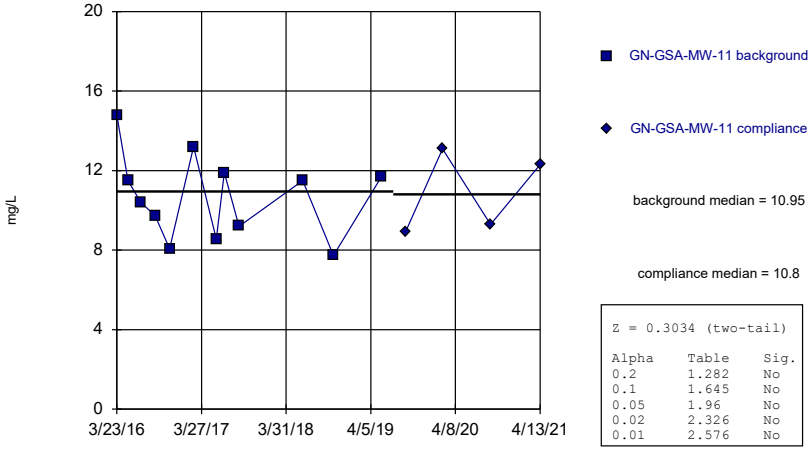
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: Calcium Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-11



Z = 0.3034 (two-tail)

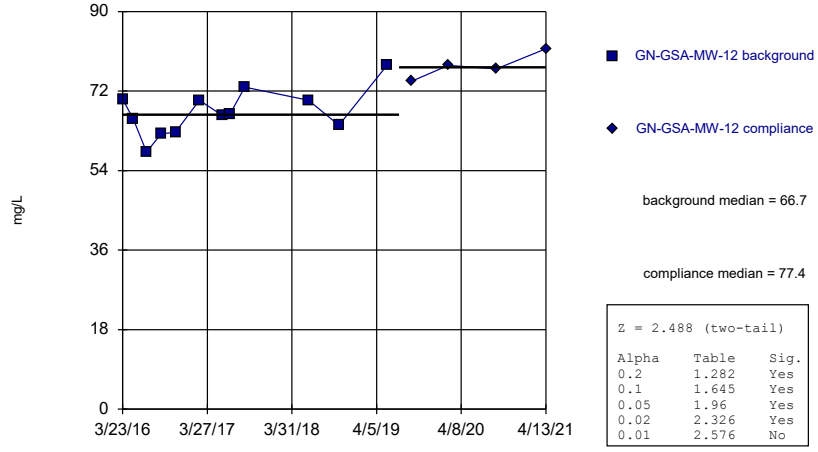
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Calcium Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-12



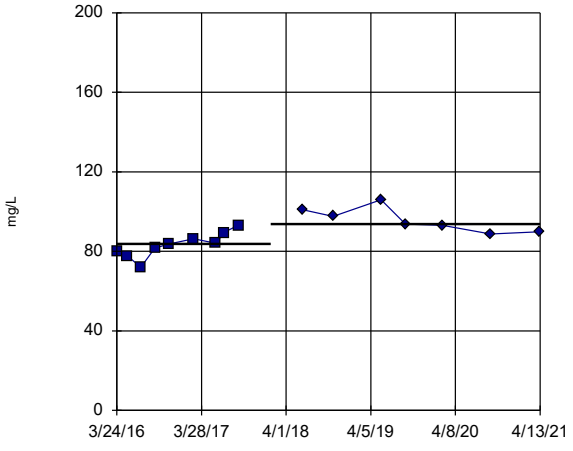
Z = 2.488 (two-tail)

Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	No

Constituent: Calcium Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-13



GN-GSA-MW-13 background

GN-GSA-MW-13 compliance

background median = 83.8

compliance median = 93.7

Z = 2.858 (two-tail)

Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

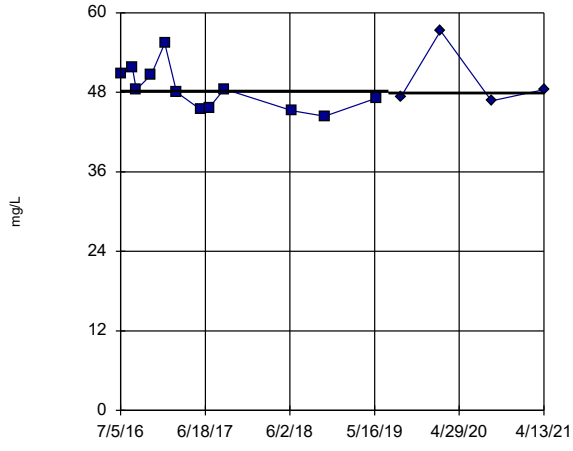
Constituent: Calcium Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-14S (bg)



GN-GSA-MW-14S background

GN-GSA-MW-14S compliance

background median = 48.2

compliance median = 47.9

Z = 0.3641 (two-tail)

Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

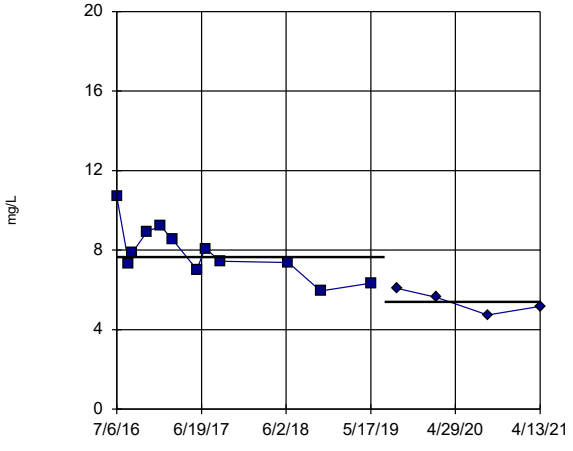
Constituent: Calcium Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-15 (bg)



GN-GSA-MW-15 background

GN-GSA-MW-15 compliance

background median = 7.65

compliance median = 5.395

Z = -2.85 (two-tail)

Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

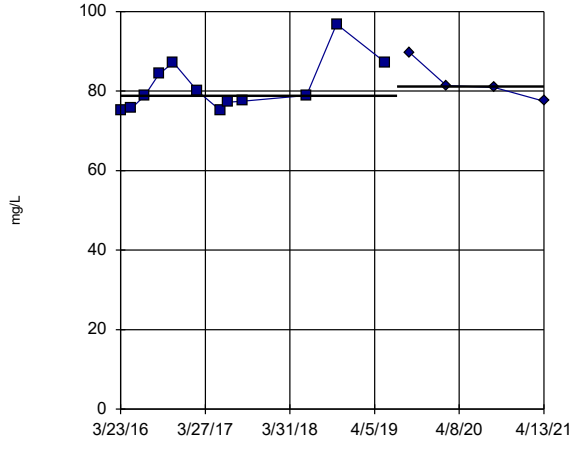
Constituent: Calcium Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-2 (bg)



GN-GSA-MW-2 background

GN-GSA-MW-2 compliance

background median = 78.85

compliance median = 81.15

Z = 0.8495 (two-tail)

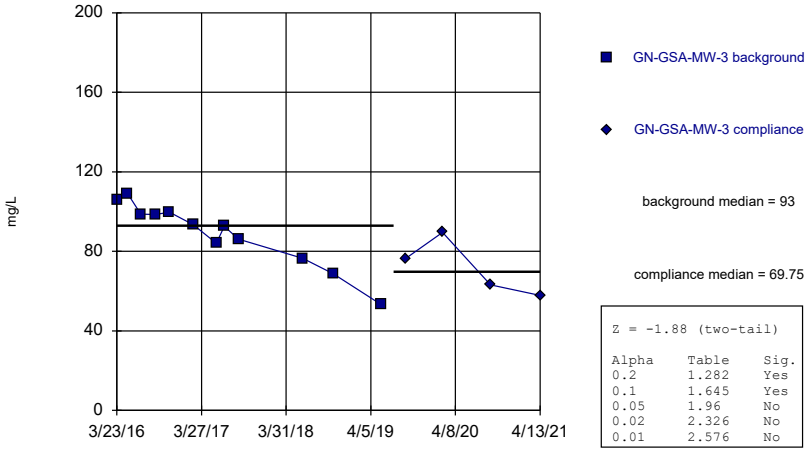
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Calcium Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-3 (bg)



Z = -1.88 (two-tail)

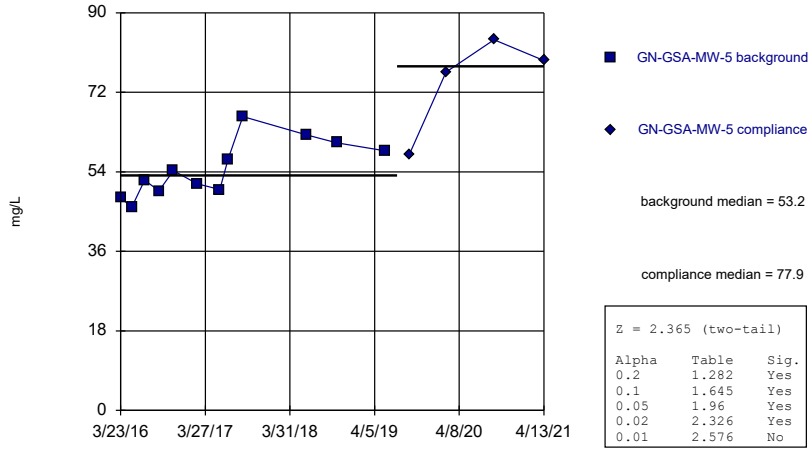
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Calcium Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-5



Z = 2.365 (two-tail)

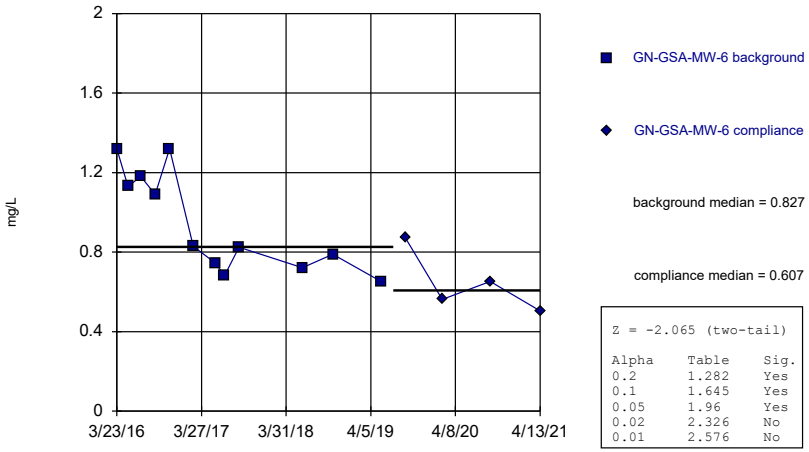
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	No

Constituent: Calcium Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-6



Z = -2.065 (two-tail)

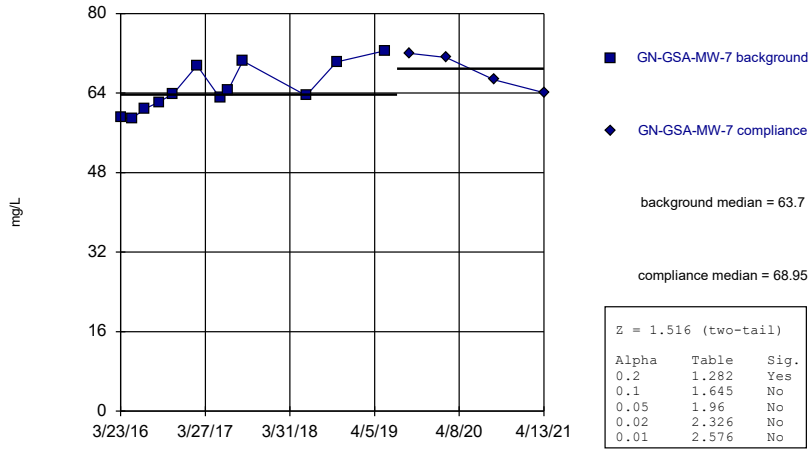
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	No
0.01	2.576	No

Constituent: Calcium Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-7



Z = 1.516 (two-tail)

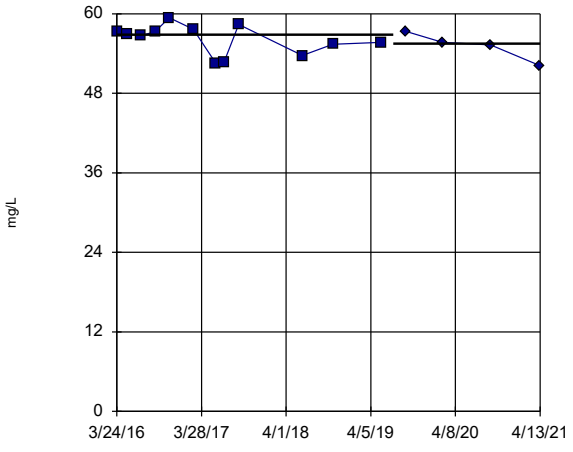
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Calcium Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-8



GN-GSA-MW-8 background

GN-GSA-MW-8 compliance

background median = 56.85

compliance median = 55.5

Z = -1.032 (two-tail)

Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

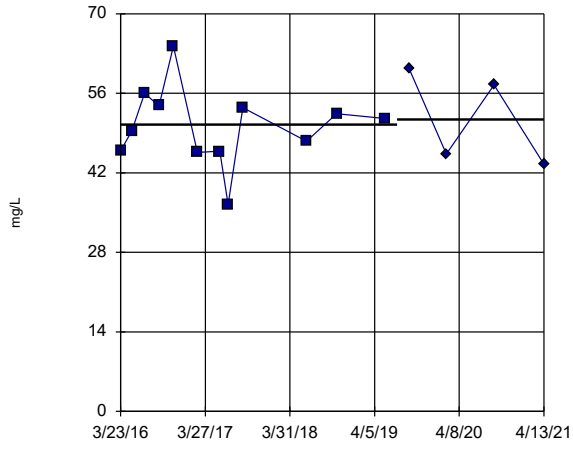
Constituent: Calcium Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-9



GN-GSA-MW-9 background

GN-GSA-MW-9 compliance

background median = 50.5

compliance median = 51.4

Z = -0.06063 (two-tail)

Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No

Constituent: Calcium Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell

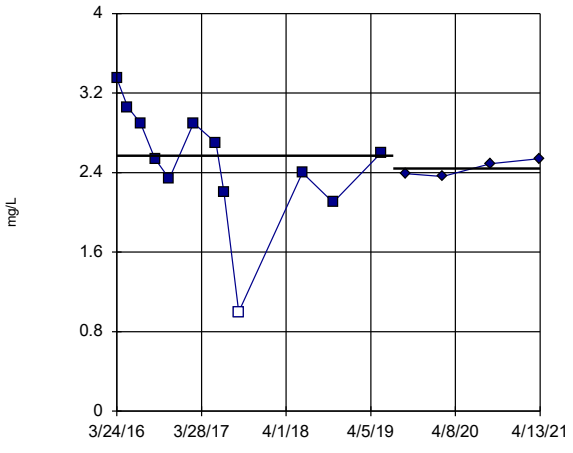
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-1



GN-GSA-MW-1 background

GN-GSA-MW-1 compliance

background median = 2.57

compliance median = 2.44

Z = -0.7287 (two-tail)

Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Chloride Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell

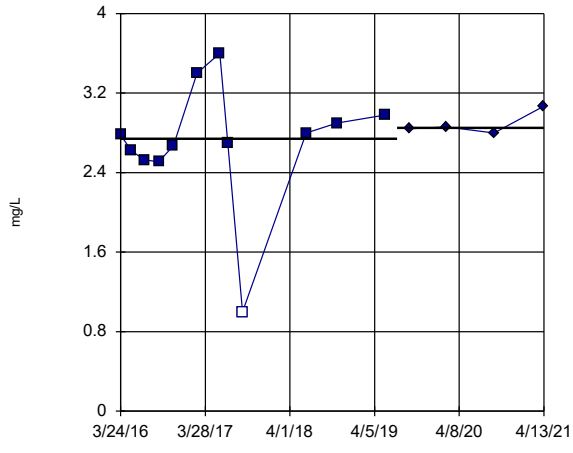
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-10



GN-GSA-MW-10 background

GN-GSA-MW-10 compliance

background median = 2.74

compliance median = 2.85

Z = 1.092 (two-tail)

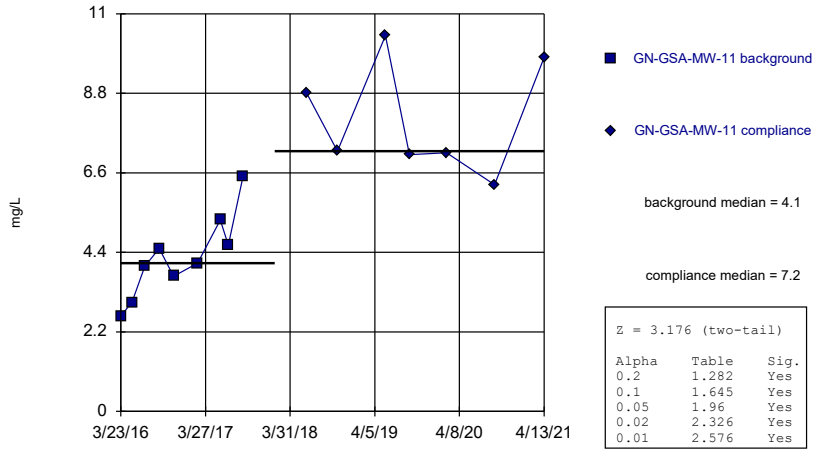
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Chloride Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-11



Z = 3.176 (two-tail)

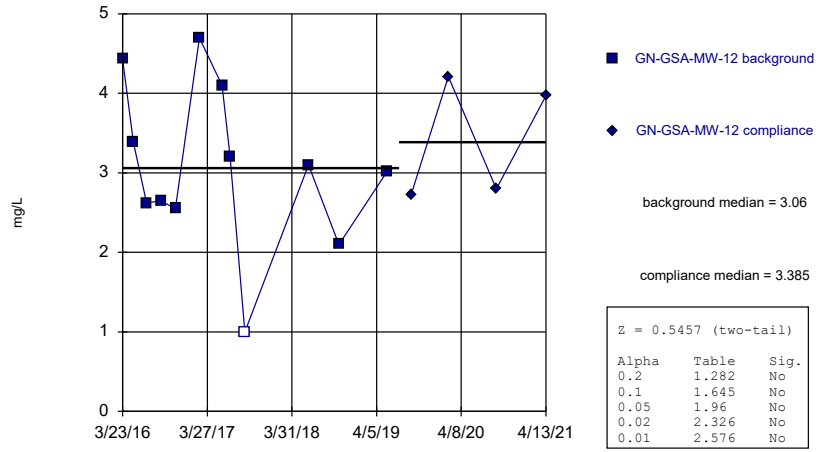
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: Chloride Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-12



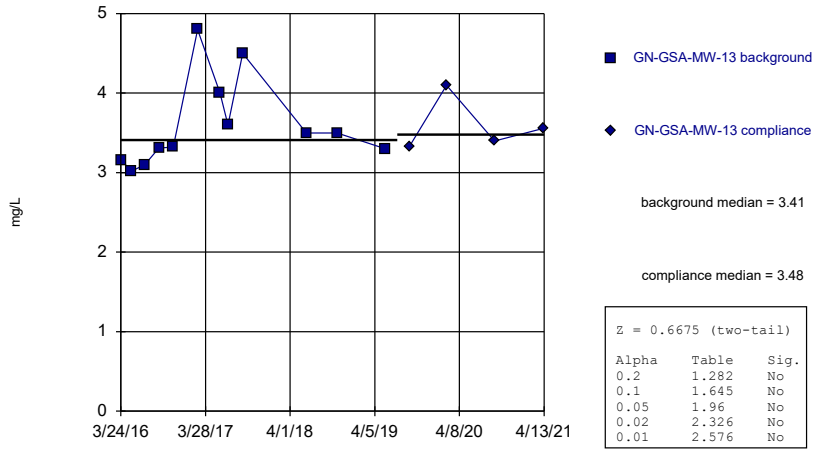
Z = 0.5457 (two-tail)

Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Chloride Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-13



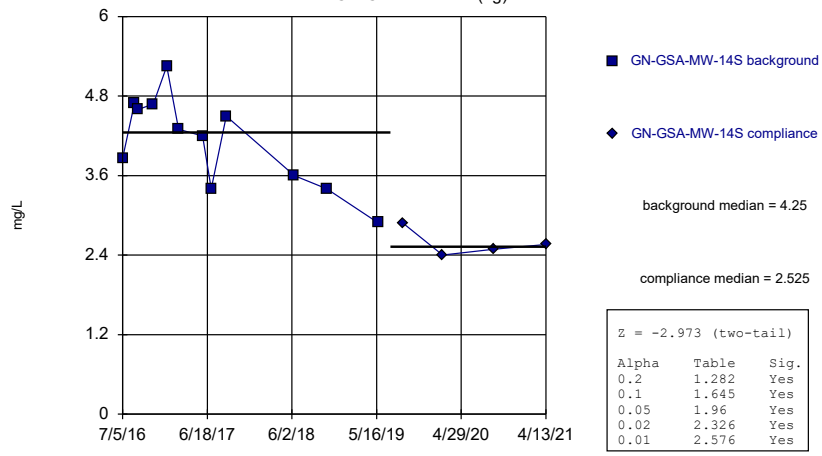
Z = 0.6675 (two-tail)

Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Chloride Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-14S (bg)



Z = -2.973 (two-tail)

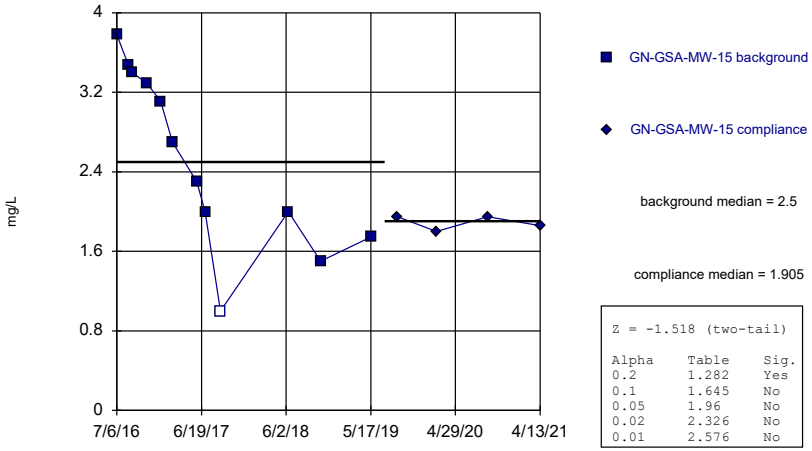
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: Chloride Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-15 (bg)



Z = -1.518 (two-tail)

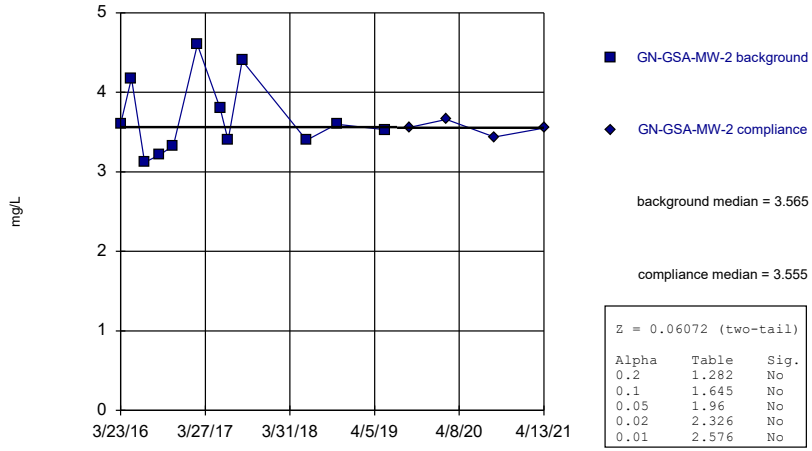
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Chloride Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-2 (bg)



Z = 0.06072 (two-tail)

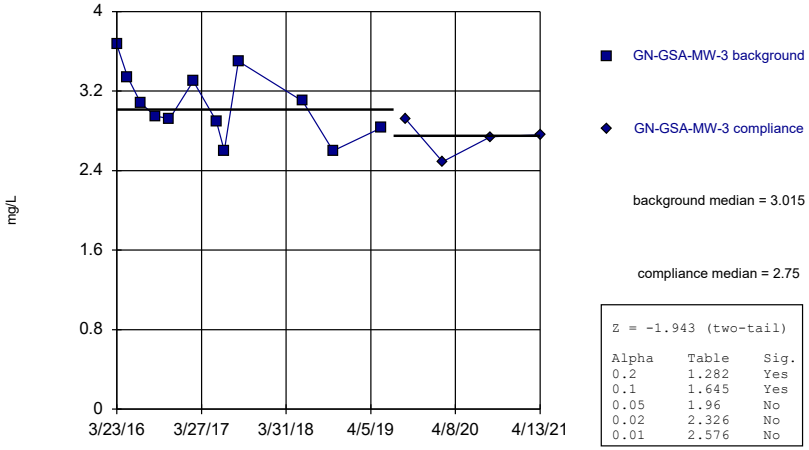
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Chloride Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-3 (bg)



Z = -1.943 (two-tail)

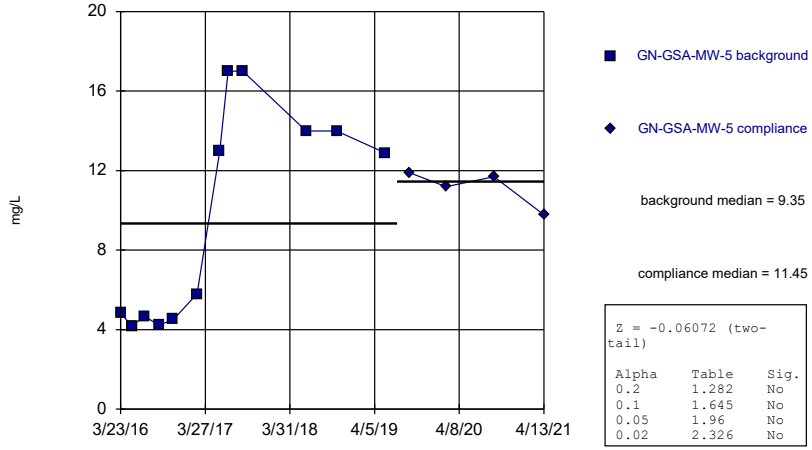
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Chloride Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-5



Z = -0.06072 (two-tail)

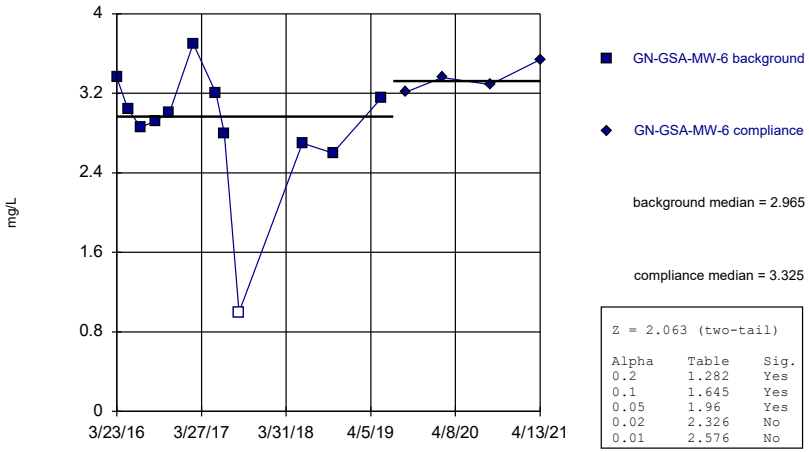
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No

Constituent: Chloride Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-6



Z = 2.063 (two-tail)

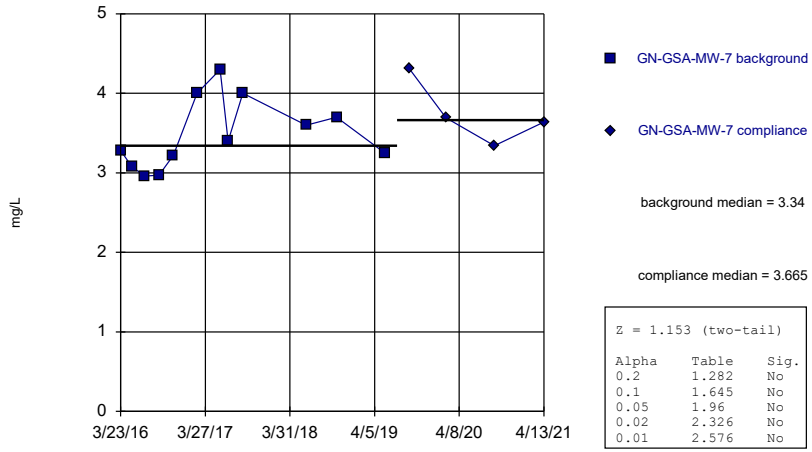
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	No
0.01	2.576	No

Constituent: Chloride Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-7



Z = 1.153 (two-tail)

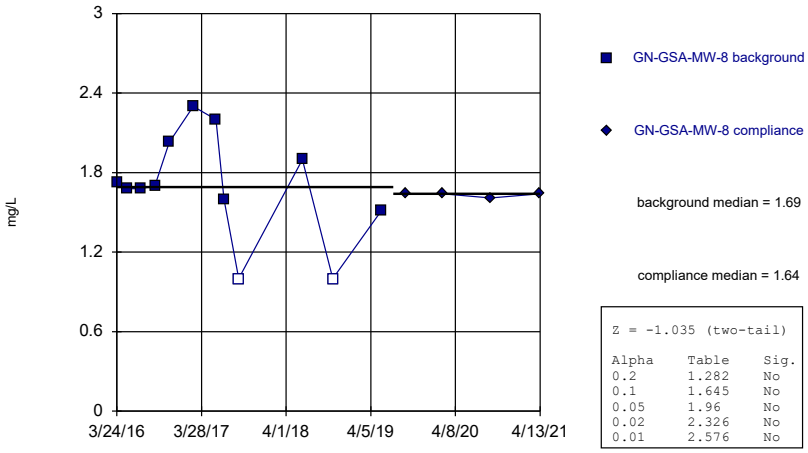
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Chloride Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-8



Z = -1.035 (two-tail)

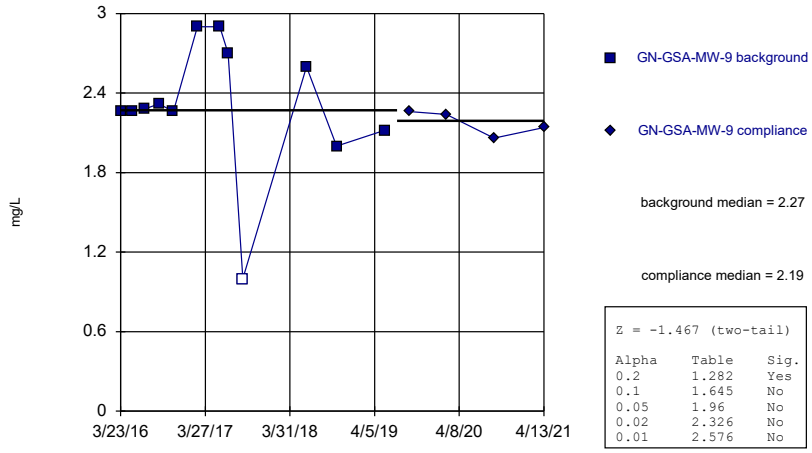
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Chloride Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-9



Z = -1.467 (two-tail)

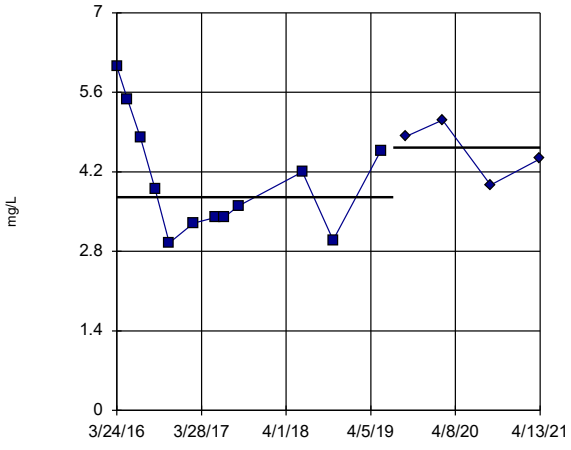
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Chloride Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-1



GN-GSA-MW-1 background

GN-GSA-MW-1 compliance

background median = 3.755

compliance median = 4.625

Z = 1.274 (two-tail)

Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Sulfate Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell

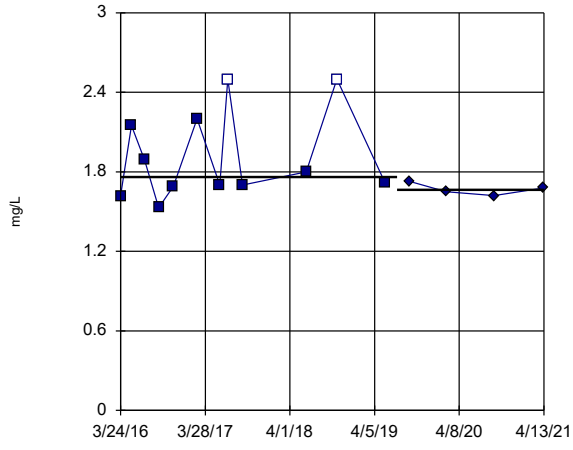
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-10



GN-GSA-MW-10 background

GN-GSA-MW-10 compliance

background median = 1.76

compliance median = 1.665

Z = -1.58 (two-tail)

Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

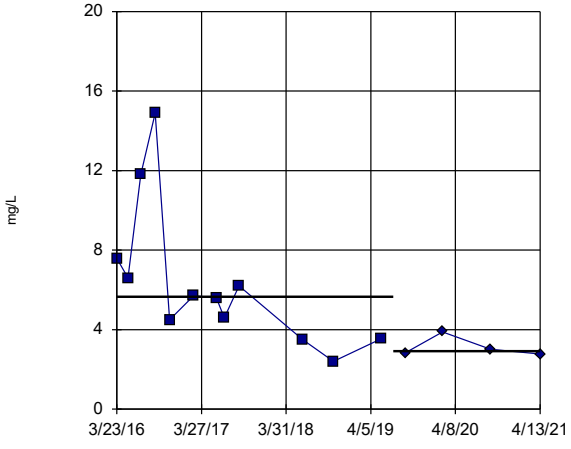
Constituent: Sulfate Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-11



GN-GSA-MW-11 background

GN-GSA-MW-11 compliance

background median = 5.65

compliance median = 2.92

Z = -2.243 (two-tail)

Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	No
0.01	2.576	No

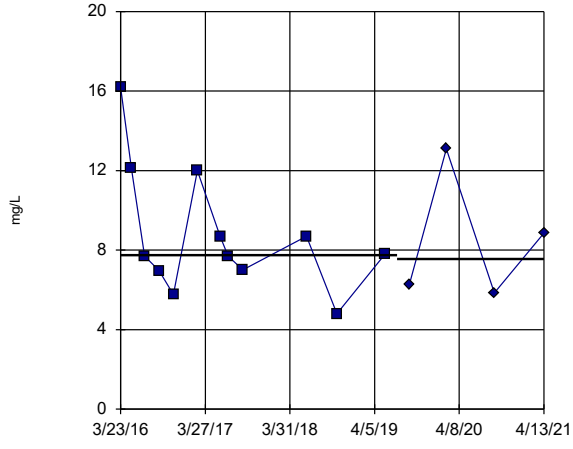
Constituent: Sulfate Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-12



GN-GSA-MW-12 background

GN-GSA-MW-12 compliance

background median = 7.755

compliance median = 7.555

Z = -0.06072 (two-tail)

Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No

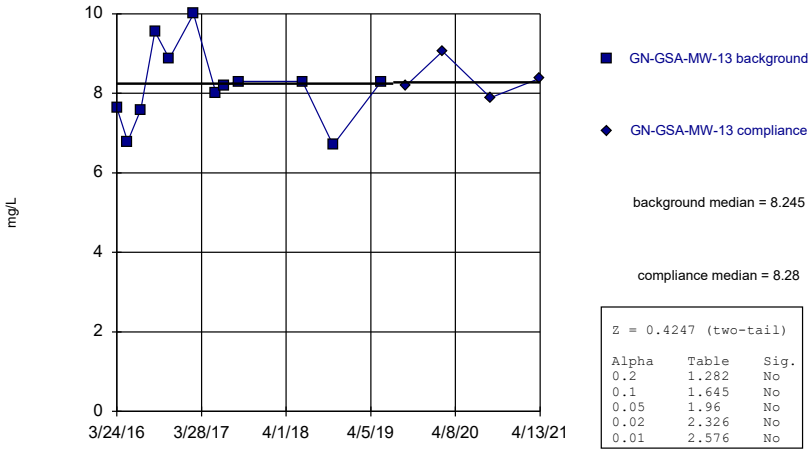
Constituent: Sulfate Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-13



Z = 0.4247 (two-tail)

Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

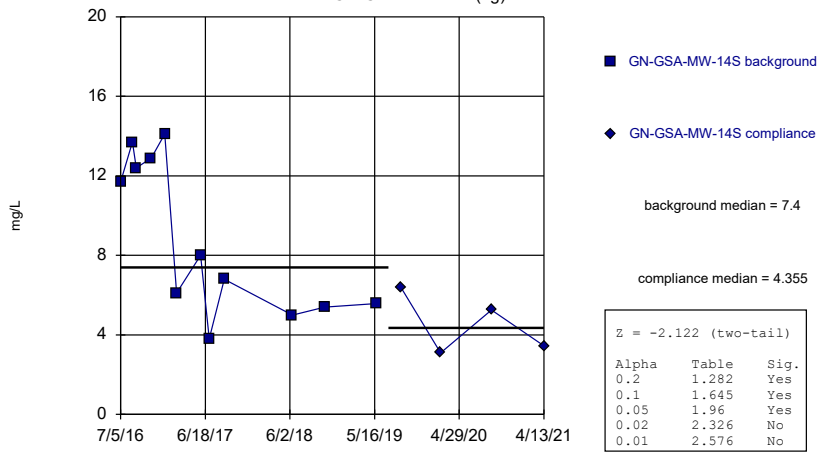
Constituent: Sulfate Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-14S (bg)



Z = -2.122 (two-tail)

Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	No
0.01	2.576	No

Constituent: Sulfate Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell

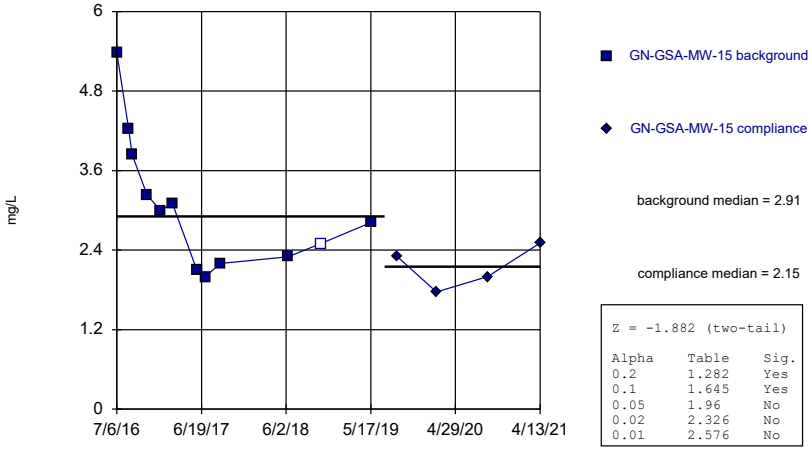
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-15 (bg)



Z = -1.882 (two-tail)

Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

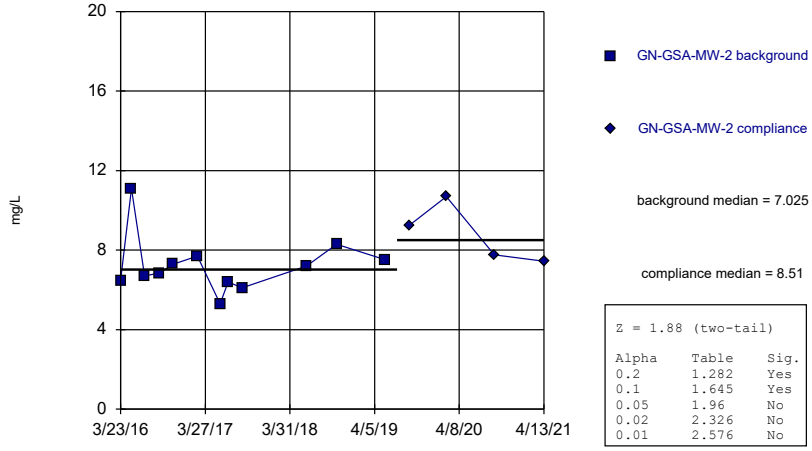
Constituent: Sulfate Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-2 (bg)



Z = 1.88 (two-tail)

Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

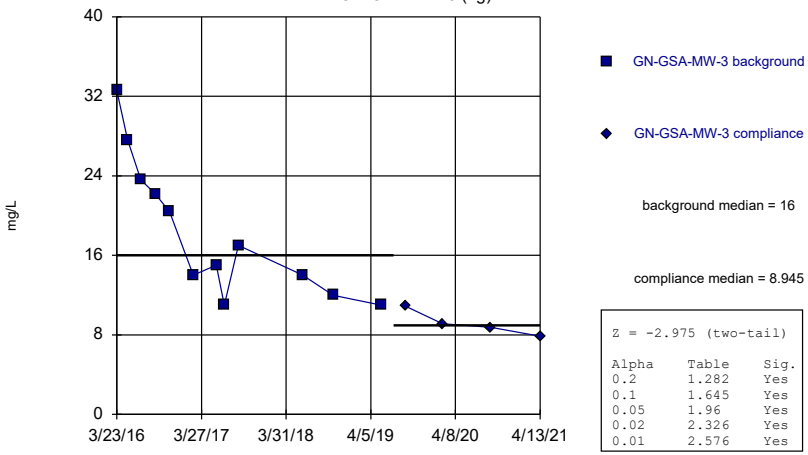
Constituent: Sulfate Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-3 (bg)



Z = -2.975 (two-tail)

Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

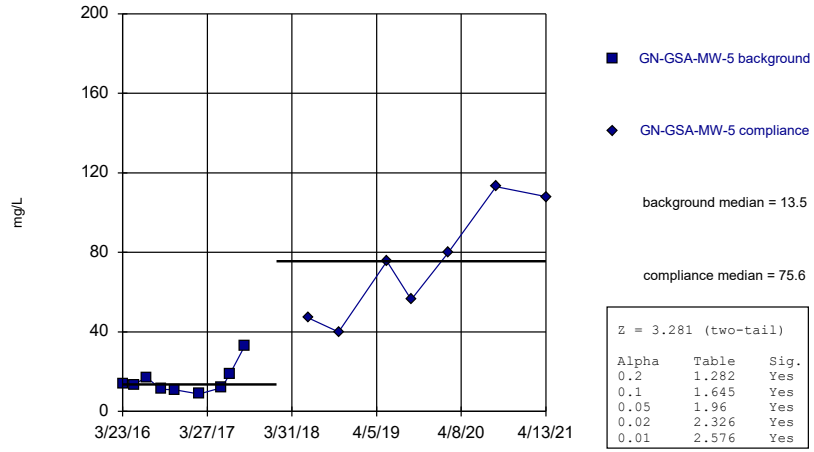
Constituent: Sulfate Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-5



Z = 3.281 (two-tail)

Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: Sulfate Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell

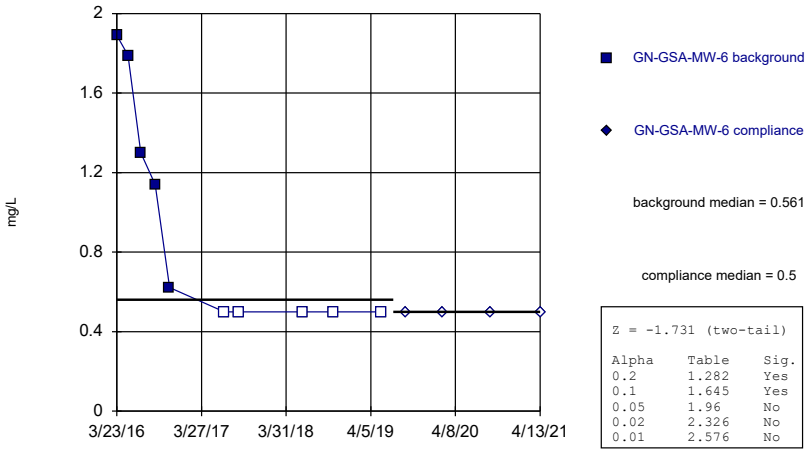
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-6



Z = -1.731 (two-tail)

Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

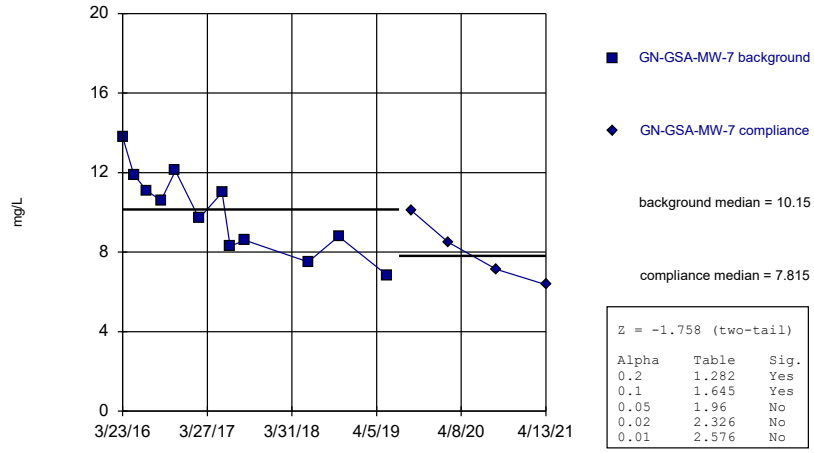
Constituent: Sulfate Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-7



Z = -1.758 (two-tail)

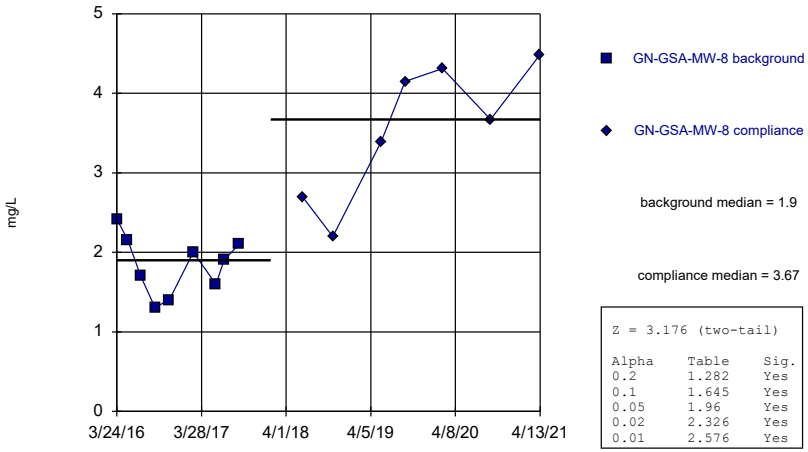
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Sulfate Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-8



Z = 3.176 (two-tail)

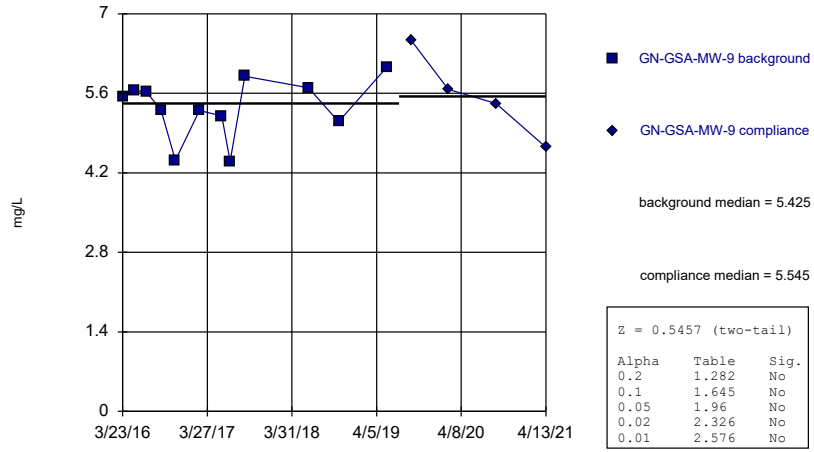
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: Sulfate Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-9



Z = 0.5457 (two-tail)

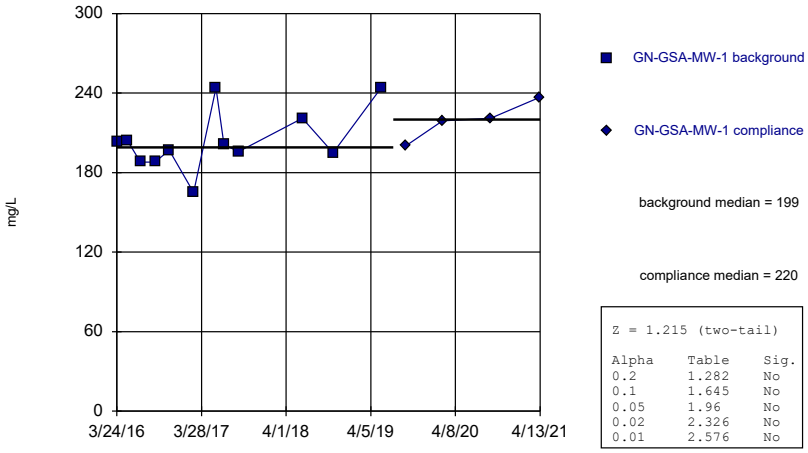
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Sulfate Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-1



Z = 1.215 (two-tail)

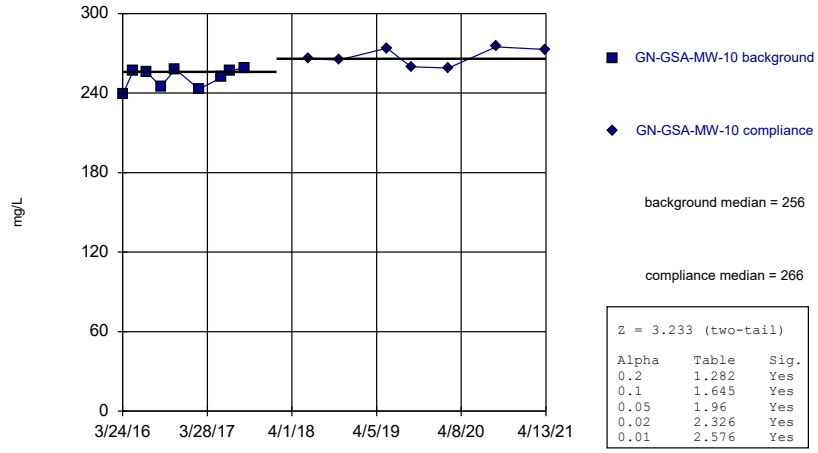
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: TDS Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-10



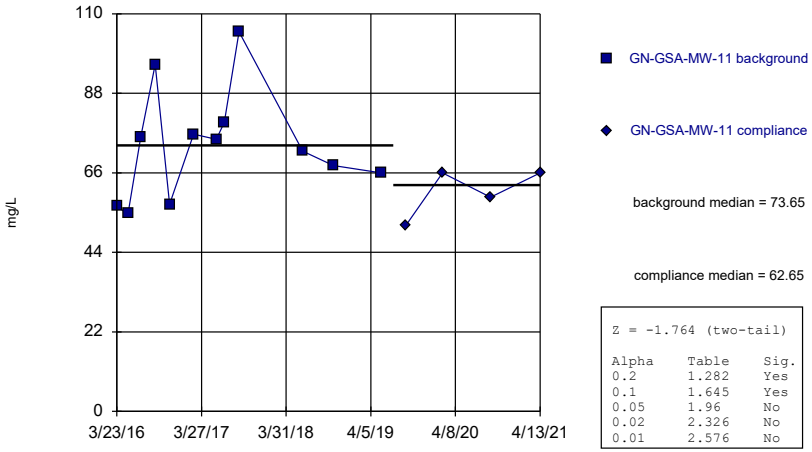
Z = 3.233 (two-tail)

Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: TDS Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-11



Z = -1.764 (two-tail)

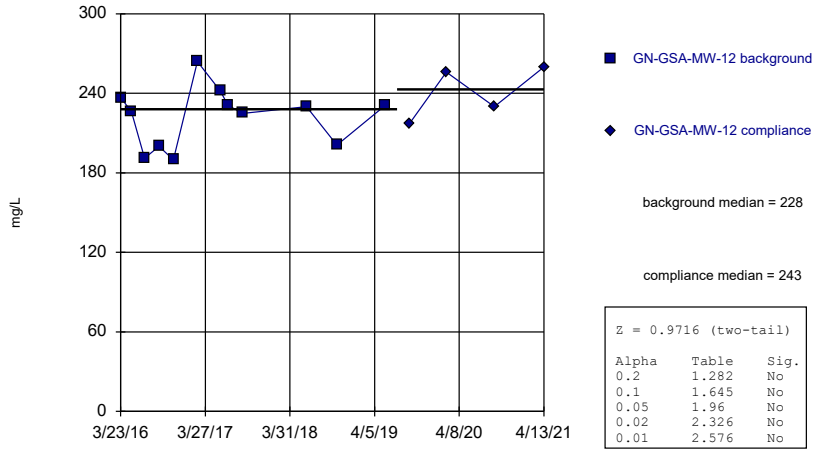
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: TDS Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-12



Z = 0.9716 (two-tail)

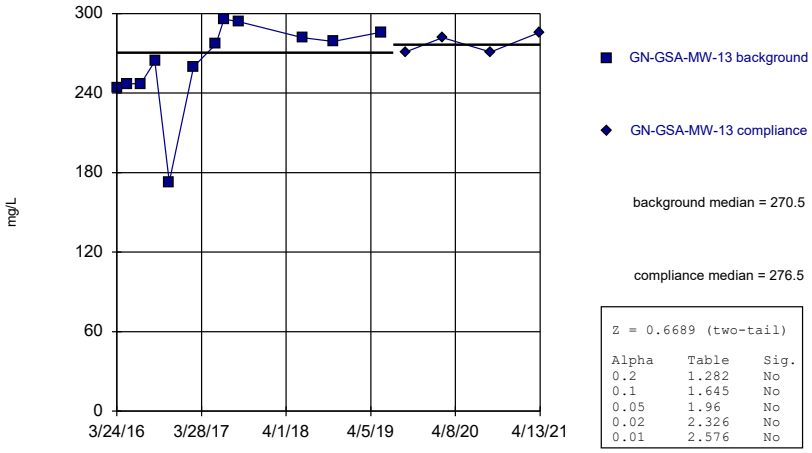
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: TDS Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-13



Z = 0.6689 (two-tail)

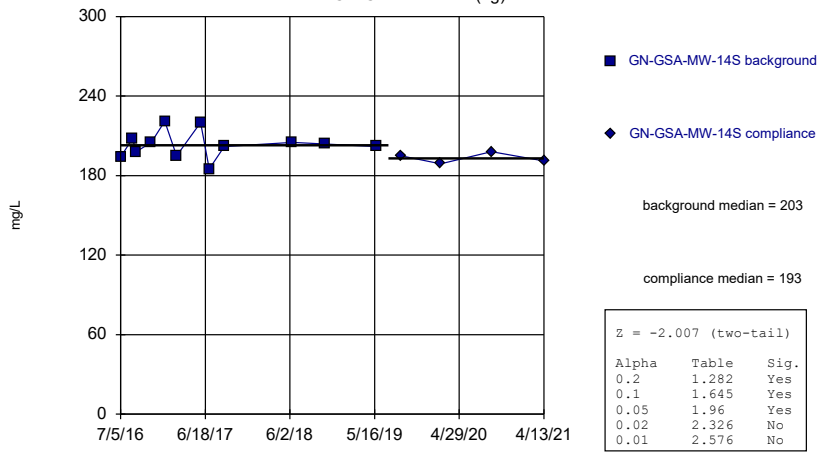
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: TDS Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-14S (bg)



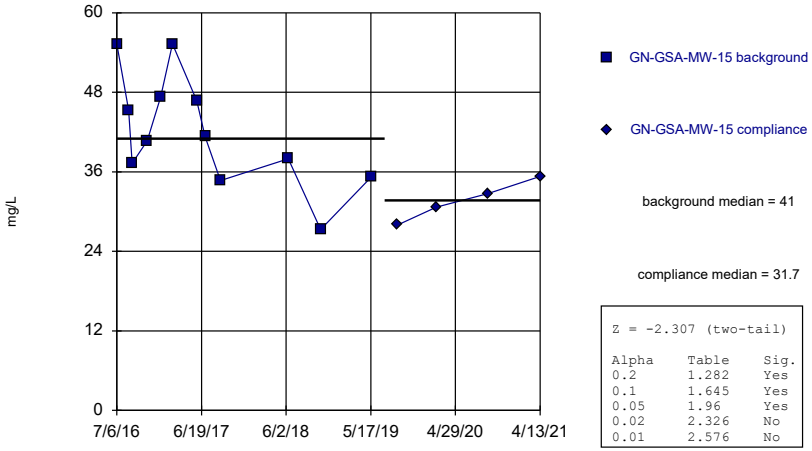
Z = -2.007 (two-tail)

Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	No
0.01	2.576	No

Constituent: TDS Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-15 (bg)



Z = -2.307 (two-tail)

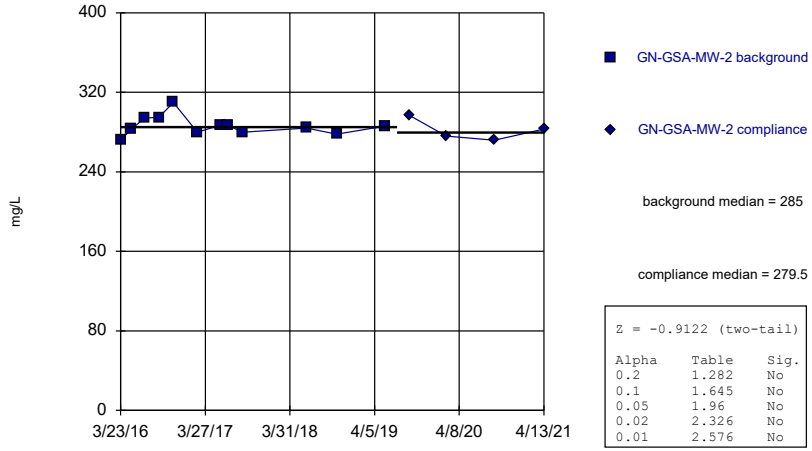
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	No
0.01	2.576	No

Constituent: TDS Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-2 (bg)



Z = -0.9122 (two-tail)

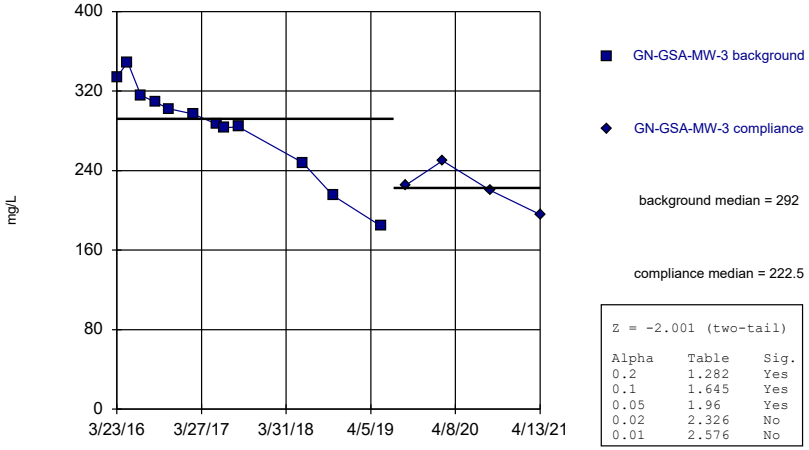
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: TDS Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-3 (bg)



Z = -2.001 (two-tail)

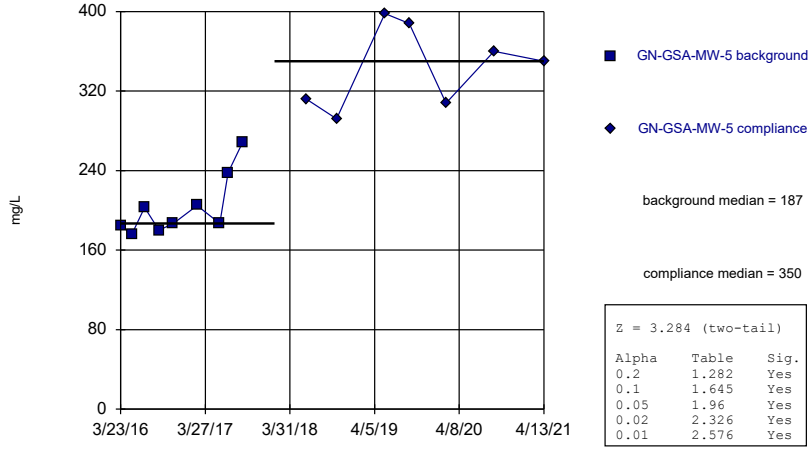
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	No
0.01	2.576	No

Constituent: TDS Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-5



Z = 3.284 (two-tail)

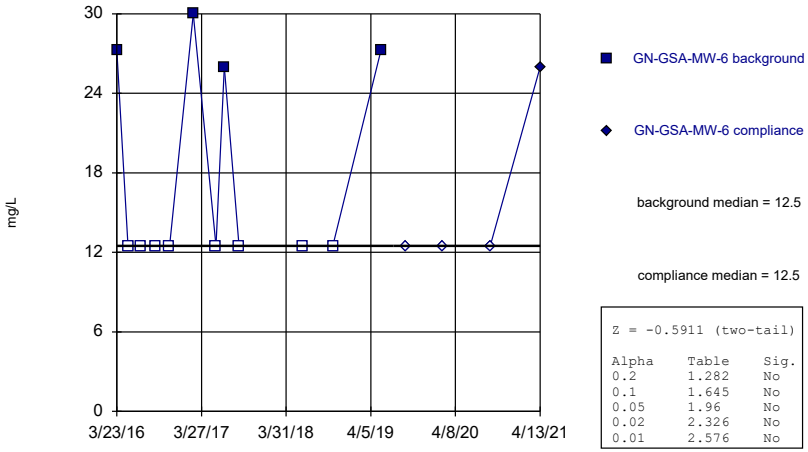
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: TDS Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-6



Z = -0.5911 (two-tail)

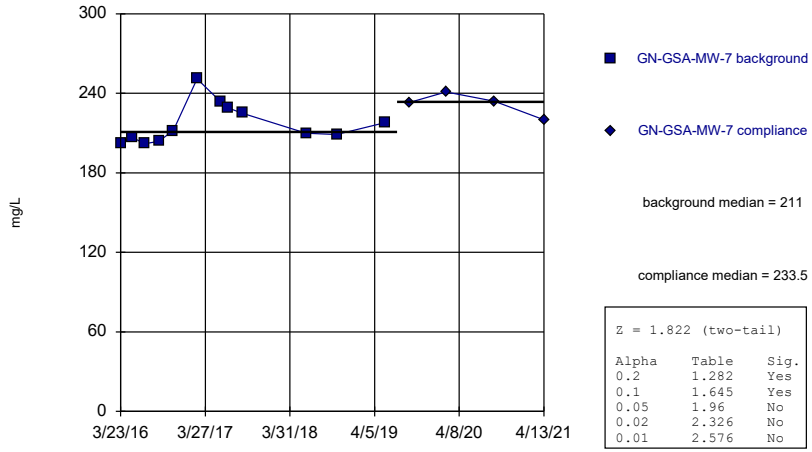
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: TDS Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-7



Z = 1.822 (two-tail)

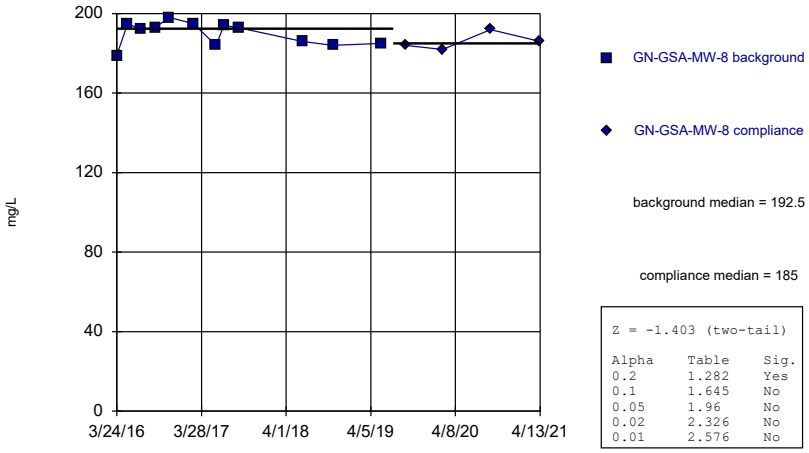
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: TDS Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-8



Z = -1.403 (two-tail)

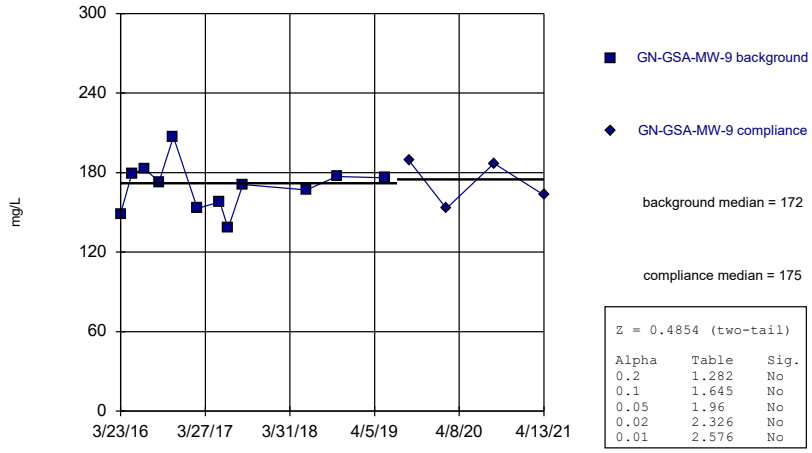
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: TDS Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.30 Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-9



Z = 0.4854 (two-tail)

Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: TDS Analysis Run 7/19/2021 1:54 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Calcium (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Calcium (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Calcium (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Calcium (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Calcium (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Calcium (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Calcium (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Calcium (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Calcium (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Calcium (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Calcium (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Calcium (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Calcium (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Calcium (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Chloride (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Chloride (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Chloride (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Chloride (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Chloride (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Chloride (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Chloride (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Chloride (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Chloride (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Chloride (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Chloride (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Chloride (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Chloride (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Chloride (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Sulfate (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Sulfate (mg/L) Analysis Run 7/19/2021 1:55 PM 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	<5	
9/7/2017	1.7 (J)	
6/12/2018	1.8 (J)	
10/24/2018	<5	
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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Sulfate (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Sulfate (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Sulfate (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Sulfate (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Sulfate (mg/L) Analysis Run 7/19/2021 1:55 PM 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	<5	
5/22/2019	2.82	
9/4/2019		2.3
2/12/2020		1.77
9/9/2020		2
4/13/2021		2.51

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Sulfate (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Sulfate (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Sulfate (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Sulfate (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Sulfate (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Sulfate (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Sulfate (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: TDS (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: TDS (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: TDS (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: TDS (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: TDS (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: TDS (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: TDS (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: TDS (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: TDS (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: TDS (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: TDS (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: TDS (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: TDS (mg/L) Analysis Run 7/19/2021 1:55 PM 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

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: TDS (mg/L) Analysis Run 7/19/2021 1:55 PM 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

FIGURE E.

Trend Tests - Upgradient Wells - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 1/11/2022, 10:24 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
pH (pH)	**GN-GSA-MW-15 (bg)**	**-0.05303**	**-86**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Trend Tests - Upgradient Wells - All Results

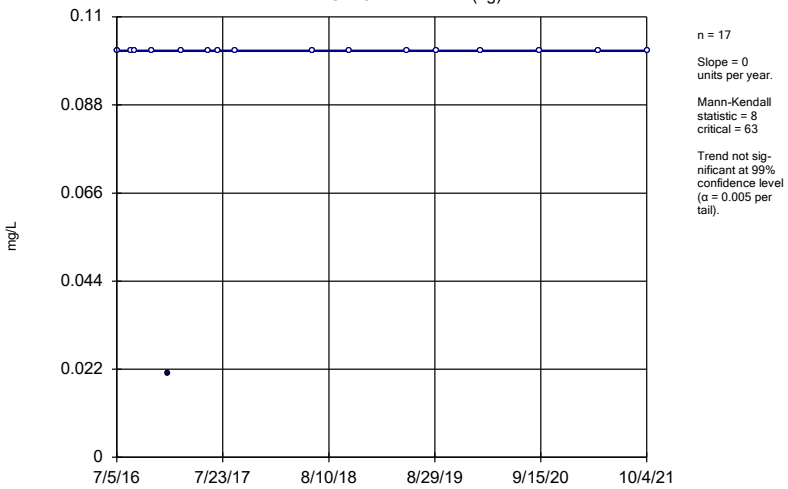
Plant Gaston Client: Southern Company Data: Gaston GSA Printed 1/11/2022, 10:24 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GN-GSA-MW-14S (bg)	0	8	63	No	17	94.12	n/a	n/a	0.01	NP
Boron (mg/L)	GN-GSA-MW-15 (bg)	0	0	63	No	17	100	n/a	n/a	0.01	NP
Boron (mg/L)	GN-GSA-MW-2 (bg)	0	0	63	No	17	100	n/a	n/a	0.01	NP
Boron (mg/L)	GN-GSA-MW-3 (bg)	0	0	63	No	17	100	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-14S (bg)	0.00005849	16	68	No	18	22.22	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-15 (bg)	0	42	68	No	18	72.22	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-2 (bg)	5.9e-10	32	68	No	18	50	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-3 (bg)	-0.0008696	-21	-68	No	18	5.556	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-14S (bg)	-0.01664	-34	-68	No	18	0	n/a	n/a	0.01	NP
pH (pH)	**GN-GSA-MW-15 (bg)**	**-0.05303**	**-86**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	GN-GSA-MW-2 (bg)	-0.0092	-37	-68	No	18	0	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-3 (bg)	-0.05422	-57	-68	No	18	0	n/a	n/a	0.01	NP

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-GSA-MW-14S (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = 8
critical = 63

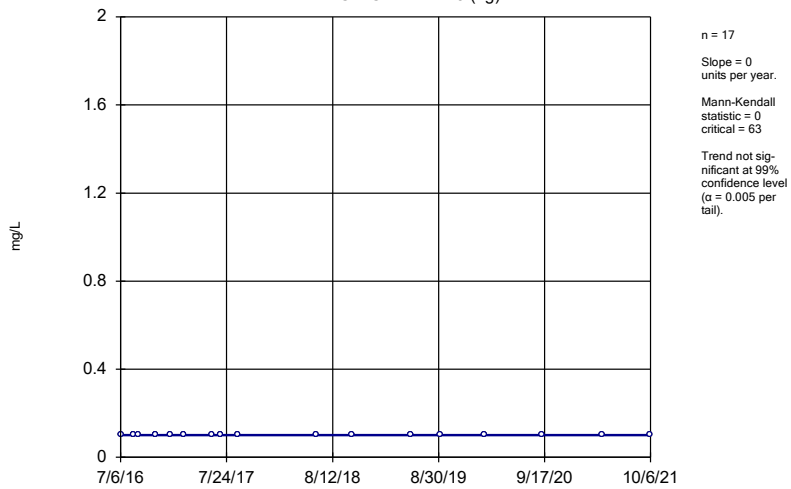
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/11/2022 10:23 PM View: Appendix III - Interwell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-GSA-MW-15 (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 63

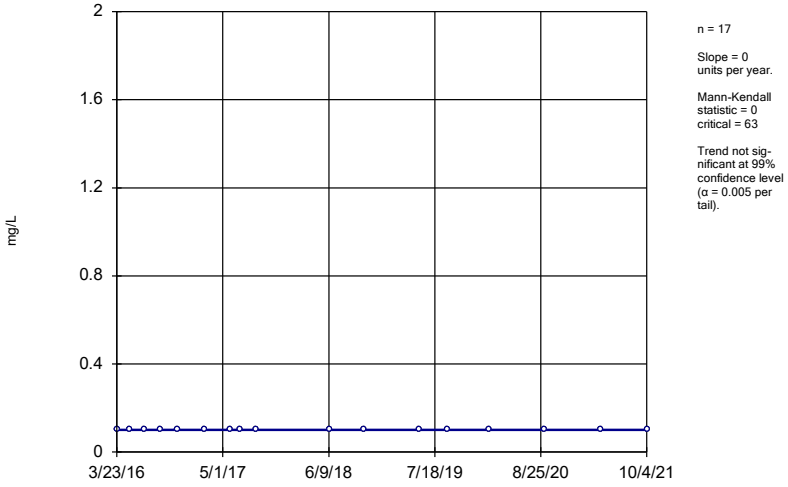
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/11/2022 10:23 PM View: Appendix III - Interwell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-GSA-MW-2 (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 63

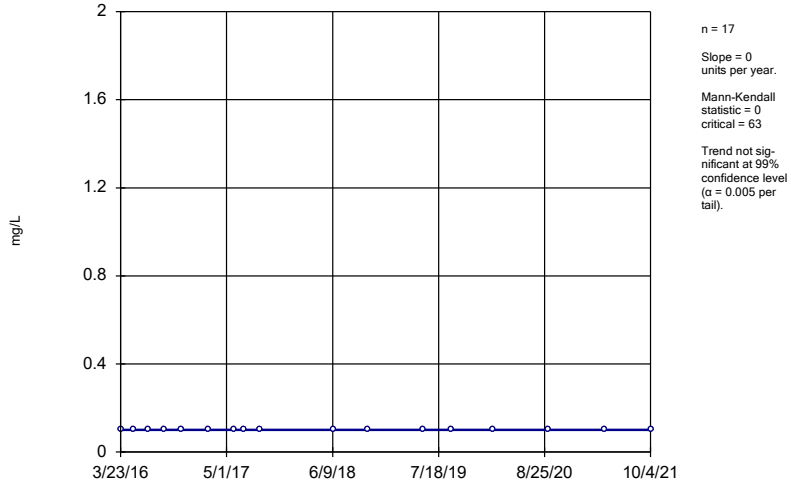
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/11/2022 10:23 PM View: Appendix III - Interwell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-GSA-MW-3 (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 63

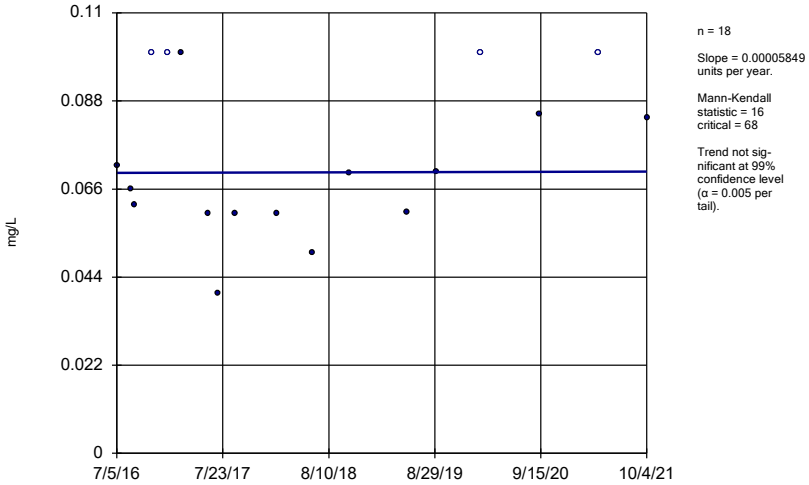
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/11/2022 10:23 PM View: Appendix III - Interwell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-GSA-MW-14S (bg)



n = 18

Slope = 0.00005849 units per year.

Mann-Kendall statistic = 16
critical = 68

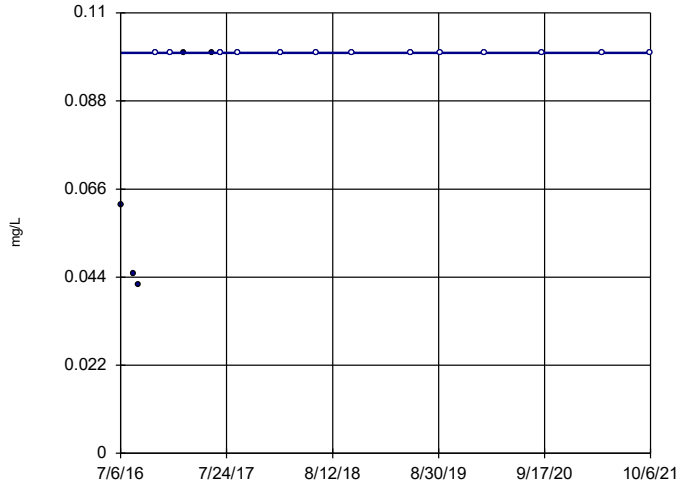
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 1/11/2022 10:23 PM View: Appendix III - Interwell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-GSA-MW-15 (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 42
critical = 68

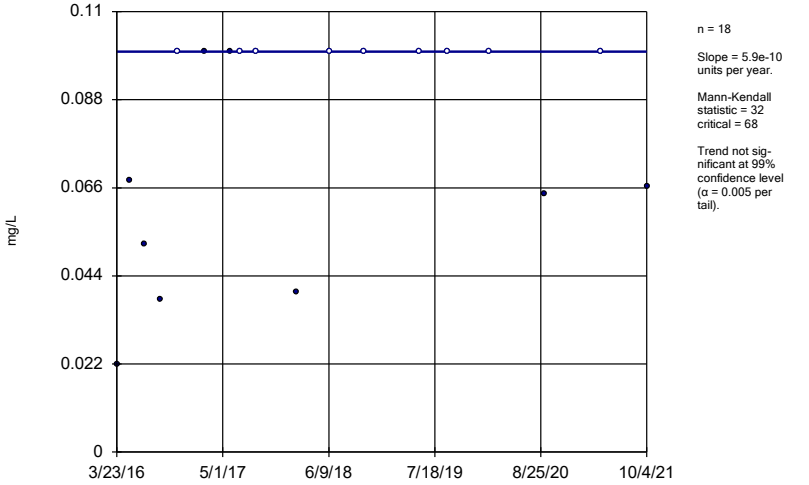
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 1/11/2022 10:24 PM View: Appendix III - Interwell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-GSA-MW-2 (bg)



n = 18

Slope = 5.9e-10 units per year.

Mann-Kendall statistic = 32
critical = 68

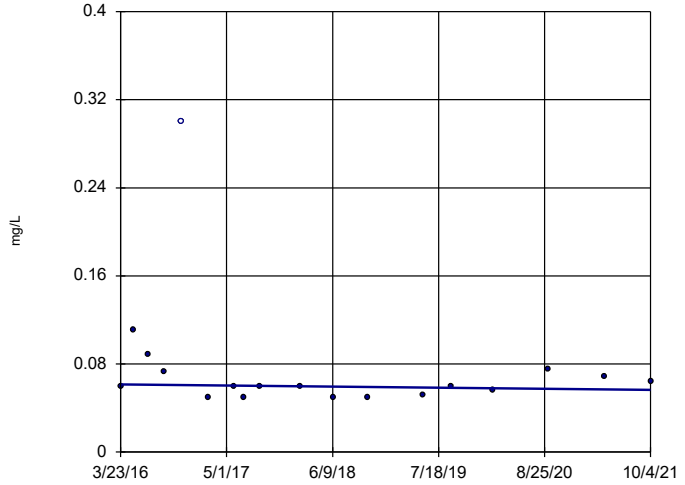
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 1/11/2022 10:24 PM View: Appendix III - Interwell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-GSA-MW-3 (bg)



n = 18

Slope = -0.0008696 units per year.

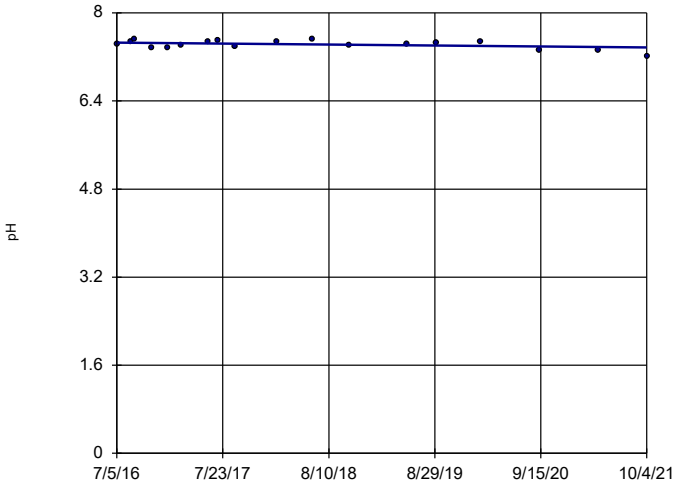
Mann-Kendall statistic = -21
critical = -68

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 1/11/2022 10:24 PM View: Appendix III - Interwell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sen's Slope Estimator

GN-GSA-MW-14S (bg)



n = 18

Slope = -0.01664 units per year.

Mann-Kendall statistic = -34
critical = -68

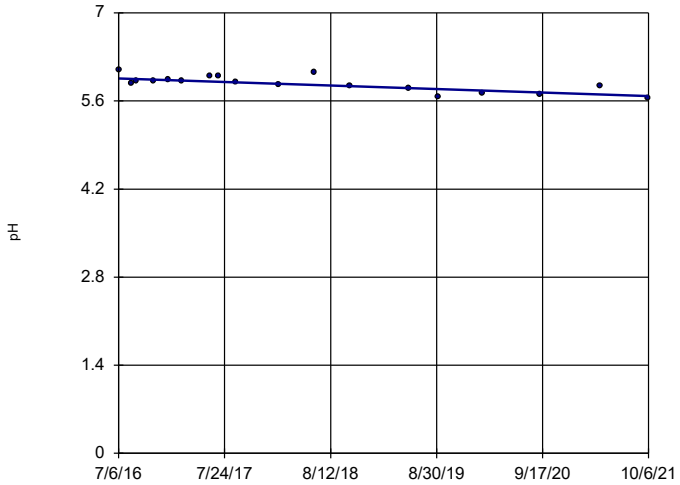
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 1/11/2022 10:24 PM View: Appendix III - Interwell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-15 (bg)



n = 18

Slope = -0.05303 units per year.

Mann-Kendall statistic = -86
critical = -68

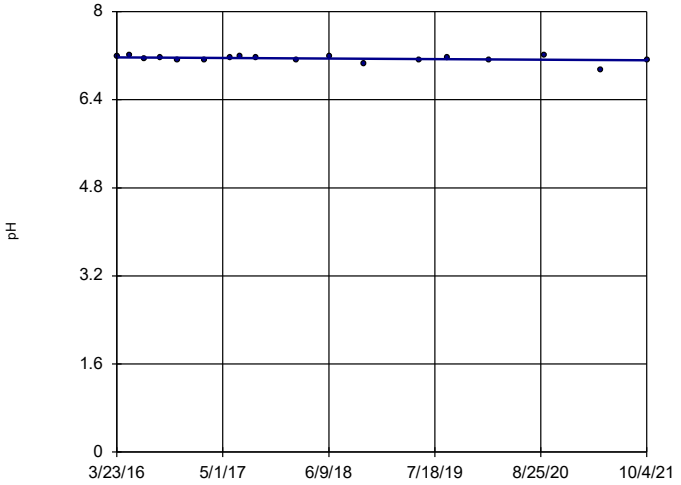
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 1/11/2022 10:24 PM View: Appendix III - Interwell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-2 (bg)



n = 18

Slope = -0.0092 units per year.

Mann-Kendall statistic = -37
critical = -68

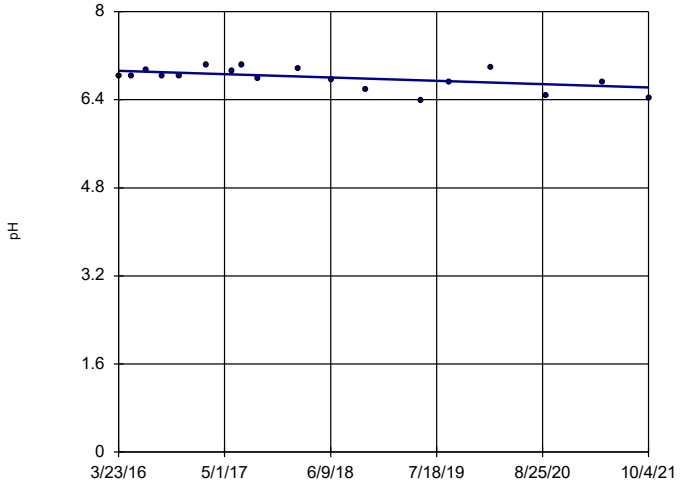
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 1/11/2022 10:24 PM View: Appendix III - Interwell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-3 (bg)



n = 18

Slope = -0.05422 units per year.

Mann-Kendall statistic = -57
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 1/11/2022 10:24 PM View: Appendix III - Interwell
Plant Gaston Client: Southern Company Data: Gaston GSA

FIGURE F.

Intrawell Prediction Limits - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 1/11/2022, 10:22 PM

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**	**10/5/2021**	**87.9**	**Yes**	**16**	**69.87**	**6.624**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
Calcium (mg/L)	**GN-GSA-MW-5**	**71.16**	**n/a**	**10/4/2021**	**81.6**	**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**	**10/5/2021**	**13.8**	**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**	**10/4/2021**	**115**	**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**	**10/4/2021**	**5.05**	**Yes**	**9**	**1.843**	**0.3686**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
TDS (mg/L)	**GN-GSA-MW-10**	**274**	**n/a**	**10/5/2021**	**293**	**Yes**	**9**	**251.8**	**7.496**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**
TDS (mg/L)	**GN-GSA-MW-5**	**295.1**	**n/a**	**10/4/2021**	**379**	**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**	**10/4/2021**	**32**	**Yes**	**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-8**	**202.5**	**n/a**	**10/4/2021**	**203**	**Yes**	**16**	**188.9**	**5.691**	**0**	**None**	**No**	**0.0007523**	**Param Intra 1 of 2**

Intrawell Prediction Limits - All Results

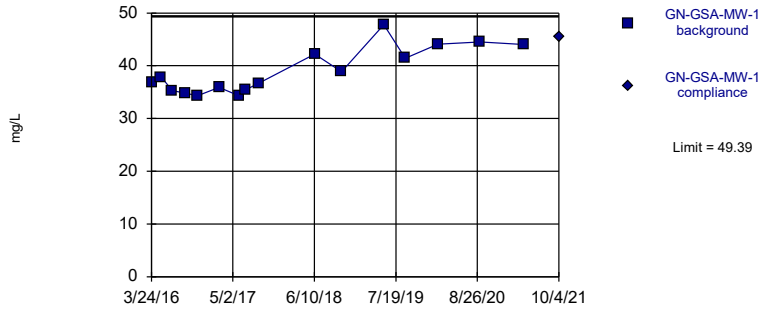
Plant Gaston Client: Southern Company Data: Gaston GSA Printed 1/11/2022, 10:22 PM

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	10/4/2021	45.4	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	10/5/2021	108	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	10/5/2021	13.8	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**	**10/5/2021**	**87.9**	**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	10/4/2021	92.2	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	10/4/2021	48	No	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	10/6/2021	4.62	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	10/4/2021	85	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	10/4/2021	43.7	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**	**10/4/2021**	**81.6**	**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	10/4/2021	0.53	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	10/4/2021	70.4	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	10/4/2021	55.1	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	10/5/2021	54.6	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	10/4/2021	2.58	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	10/5/2021	3.04	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**	**10/5/2021**	**13.8**	**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	10/5/2021	3.69	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	10/4/2021	3.37	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	10/4/2021	2.5	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	10/6/2021	2.07	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	10/4/2021	3.59	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	10/4/2021	2.88	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	10/4/2021	9.45	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	10/4/2021	3.61	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	10/4/2021	3.48	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	10/4/2021	1.76	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	10/5/2021	2.16	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	10/4/2021	4.08	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	10/5/2021	1.8	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	10/5/2021	2.86	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	10/5/2021	8.02	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	10/4/2021	7.18	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	10/4/2021	3.78	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	10/6/2021	2.15	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	10/4/2021	6.86	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	10/4/2021	8.09	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**	**10/4/2021**	**115**	**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	10/4/2021	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	10/4/2021	6.02	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**	**10/4/2021**	**5.05**	**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	10/5/2021	4.08	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	10/4/2021	221	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**	**10/5/2021**	**293**	**Yes**	**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	10/5/2021	92.7	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	10/5/2021	255	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	10/4/2021	277	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	10/4/2021	183	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	10/6/2021	12.5ND	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	10/4/2021	287	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	10/4/2021	168	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**	**10/4/2021**	**379**	**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**	**10/4/2021**	**32**	**Yes**	**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	10/4/2021	232	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**	**10/4/2021**	**203**	**Yes**	**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	10/5/2021	170	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 1/11/2022 10:19 PM View: Appendix III - Intrawell

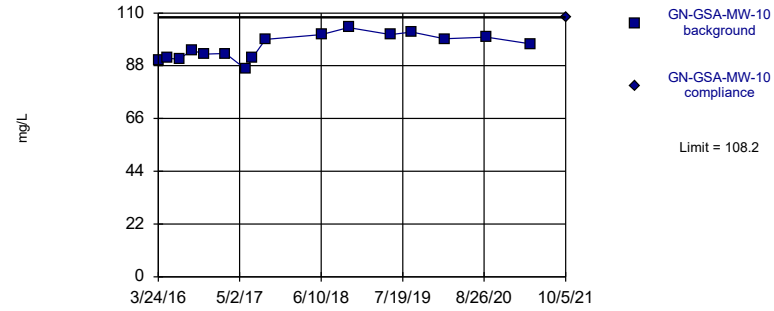
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 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 1/11/2022 10:19 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

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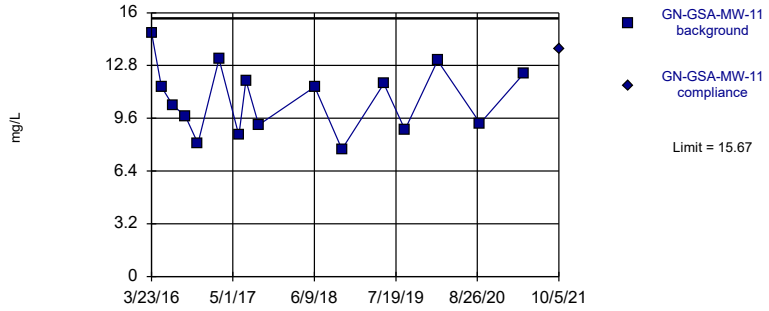
Within Limit

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 1/11/2022 10:19 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

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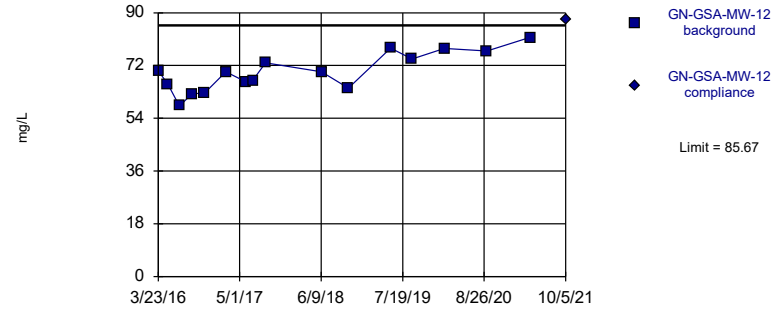
Exceeds Limit

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.

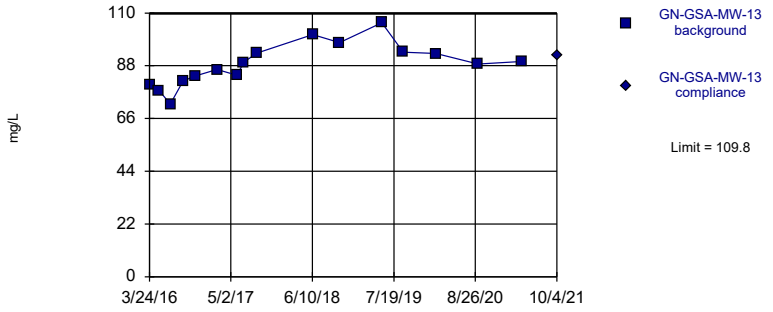
Constituent: Calcium Analysis Run 1/11/2022 10:19 PM View: Appendix III - Intrawell

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 1/11/2022 10:19 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

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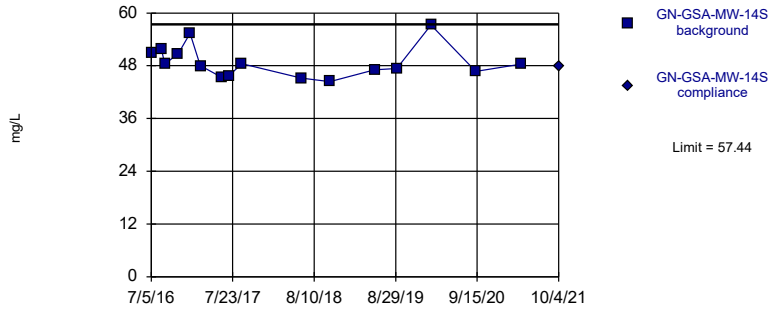
Within Limit

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.

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Plant Gaston Client: Southern Company Data: Gaston GSA

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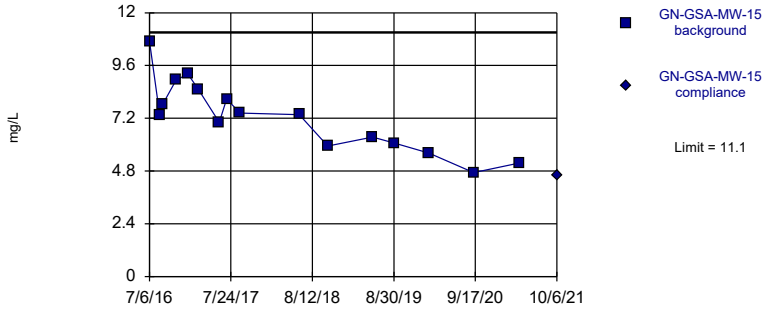
Within Limit

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 1/11/2022 10:19 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

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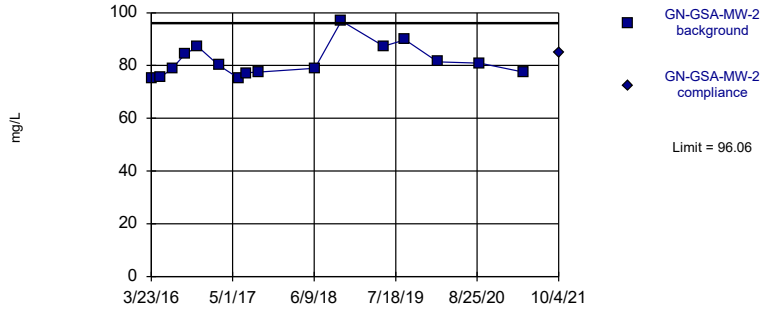
Within Limit

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.

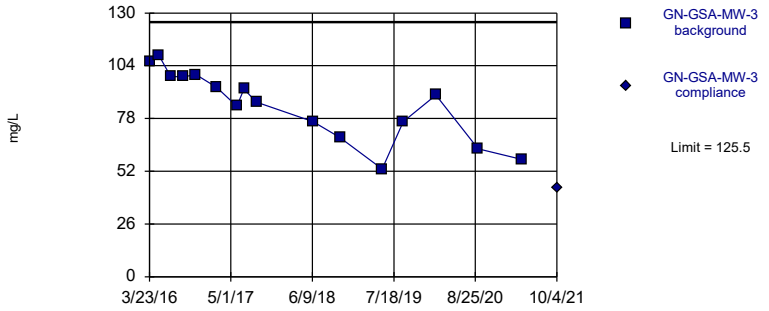
Constituent: Calcium Analysis Run 1/11/2022 10:19 PM View: Appendix III - Intrawell

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.

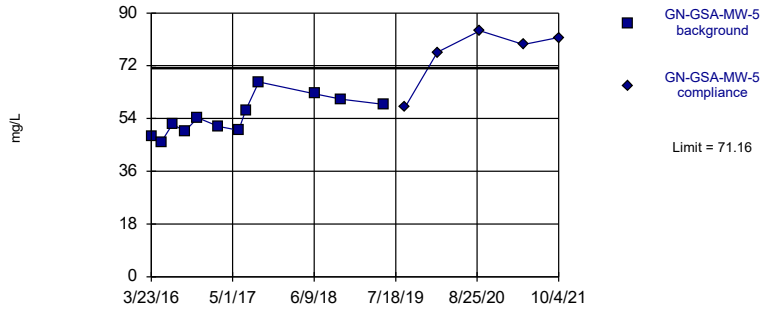
Constituent: Calcium Analysis Run 1/11/2022 10:19 PM View: Appendix III - Intrawell

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.

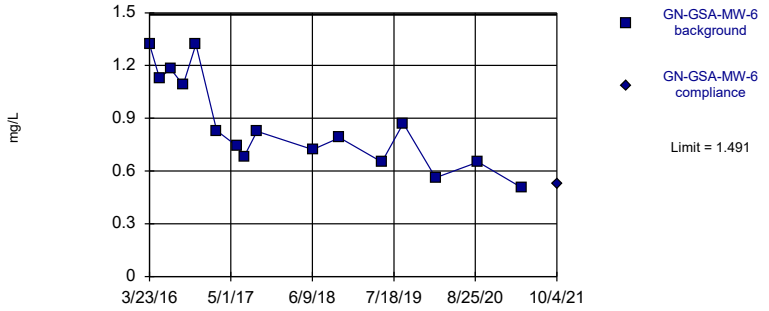
Constituent: Calcium Analysis Run 1/11/2022 10:19 PM View: Appendix III - Intrawell

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.

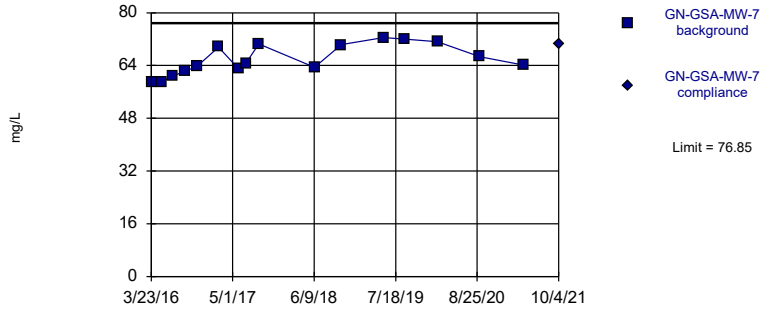
Constituent: Calcium Analysis Run 1/11/2022 10:19 PM View: Appendix III - Intrawell

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.

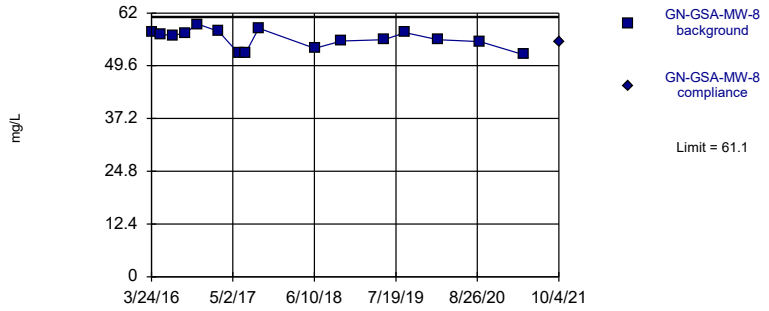
Constituent: Calcium Analysis Run 1/11/2022 10:19 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

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.

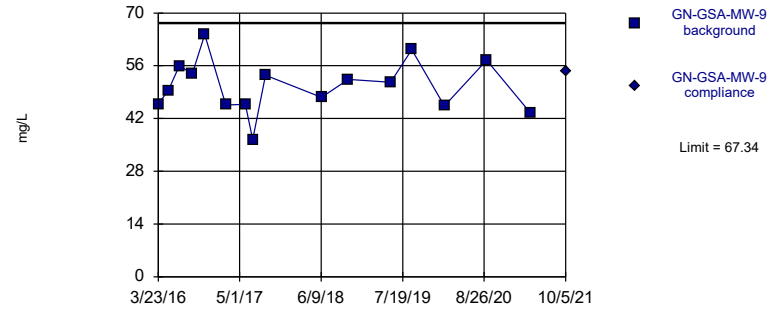
Constituent: Calcium Analysis Run 1/11/2022 10:19 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

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 1/11/2022 10:19 PM View: Appendix III - Intrawell

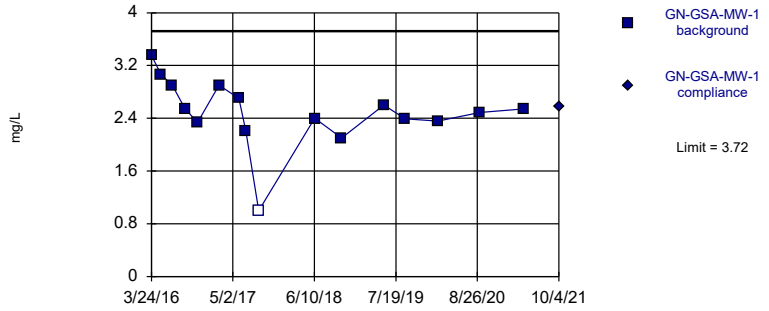
Plant Gaston Client: Southern Company Data: Gaston GSA

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=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 1/11/2022 10:19 PM View: Appendix III - Intrawell

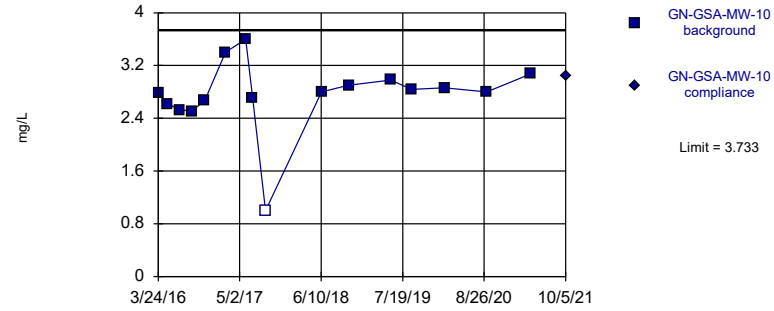
Plant Gaston Client: Southern Company Data: Gaston GSA

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on 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 1/11/2022 10:19 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

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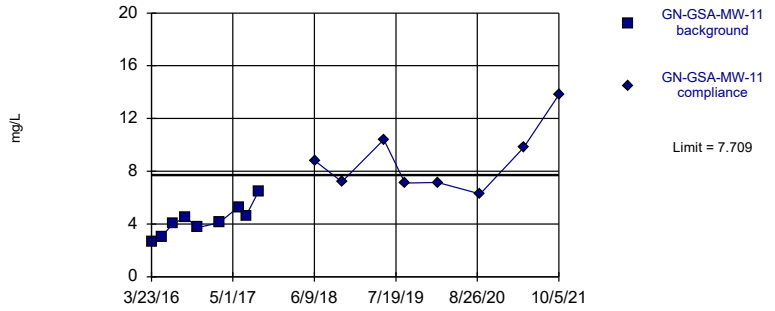
Exceeds Limit

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 1/11/2022 10:19 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

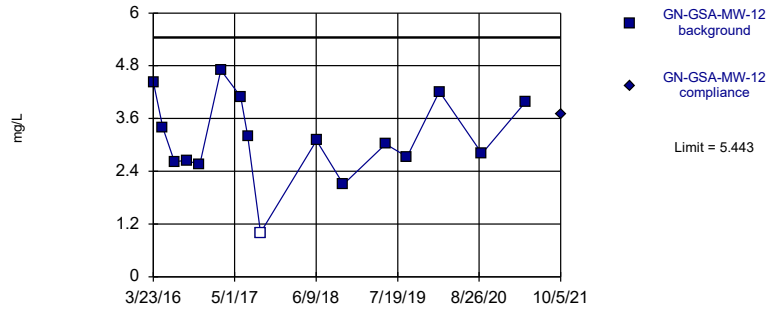
Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

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 1/11/2022 10:19 PM View: Appendix III - Intrawell

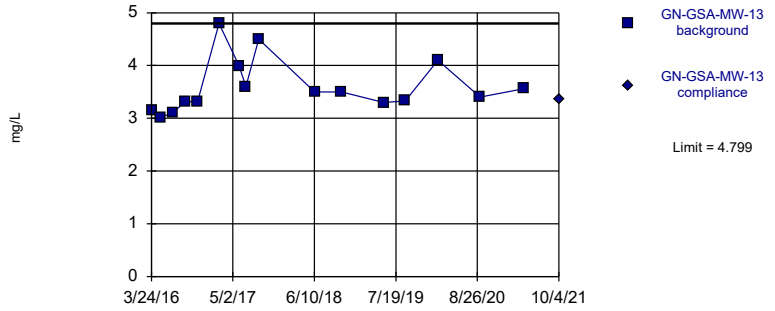
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

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 1/11/2022 10:19 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

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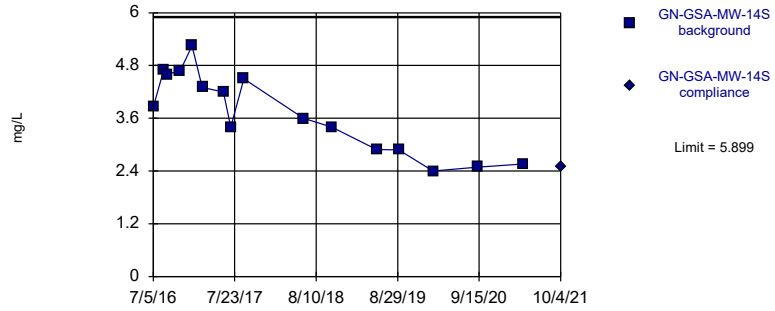
Within Limit

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 1/11/2022 10:19 PM View: Appendix III - Intrawell

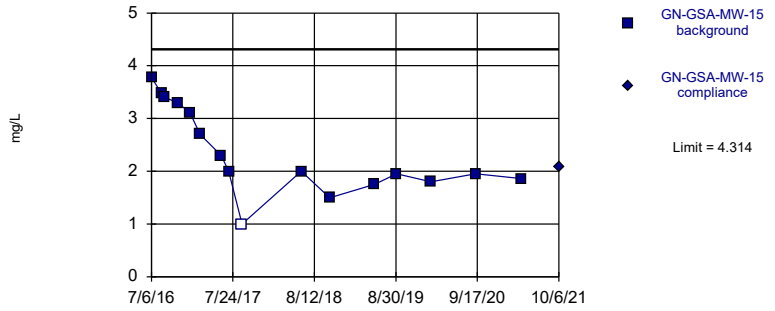
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 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 1/11/2022 10:19 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

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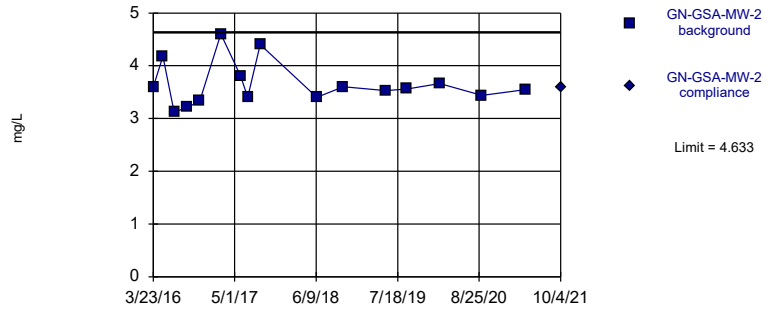
Within Limit

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.

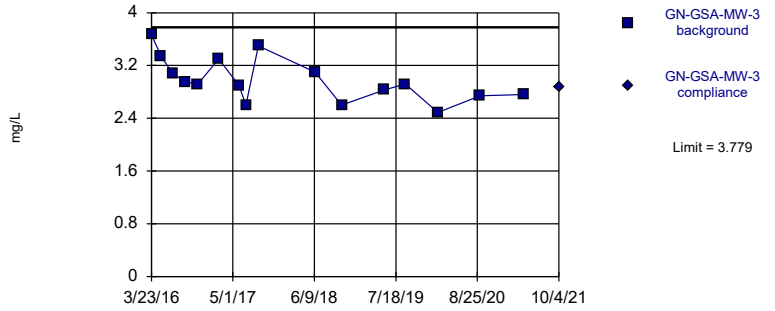
Constituent: Chloride Analysis Run 1/11/2022 10:19 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 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.

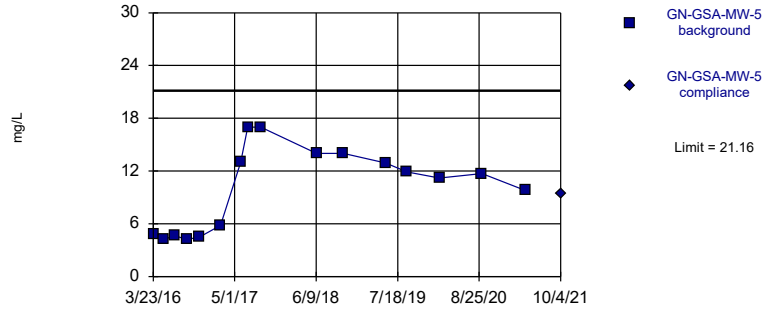
Constituent: Chloride Analysis Run 1/11/2022 10:19 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 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.

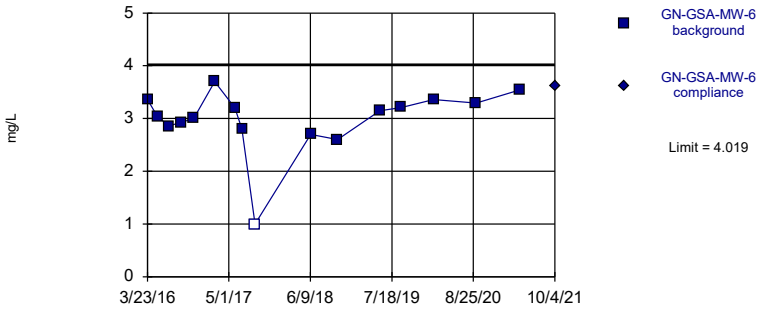
Constituent: Chloride Analysis Run 1/11/2022 10:19 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 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.

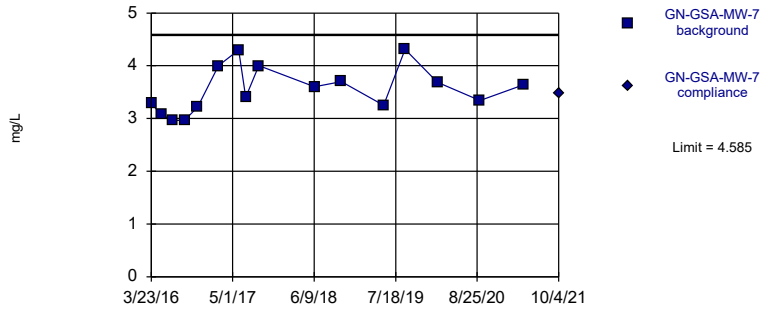
Constituent: Chloride Analysis Run 1/11/2022 10:19 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 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.

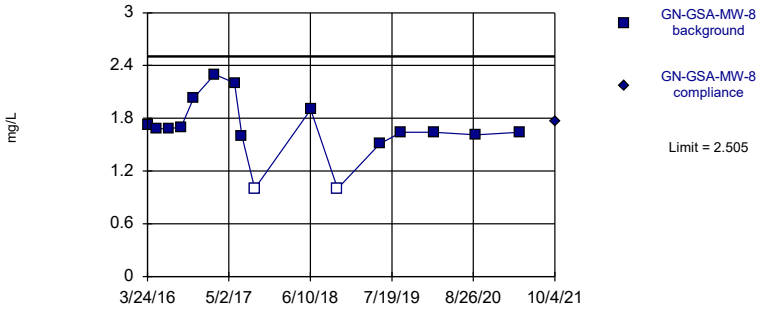
Constituent: Chloride Analysis Run 1/11/2022 10:20 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 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.

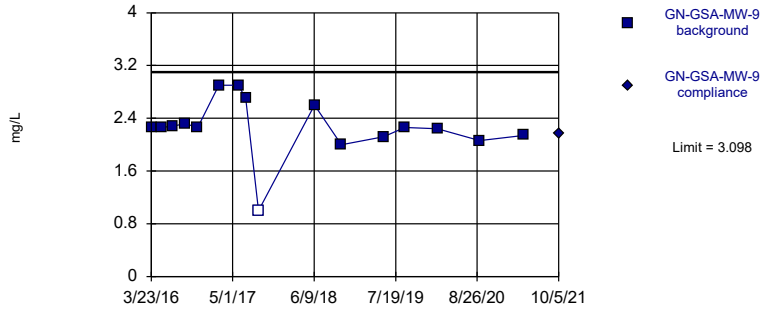
Constituent: Chloride Analysis Run 1/11/2022 10:20 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



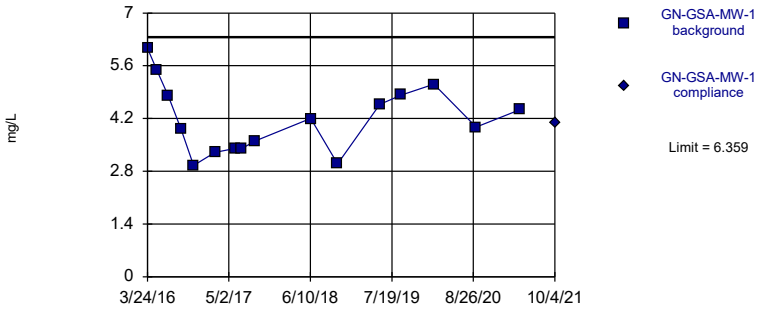
Background Data Summary (based on square transformation): Mean=5.326, Std. Dev.=1.791, n=16, 6.25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8883, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Chloride Analysis Run 1/11/2022 10:20 PM 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 1/11/2022 10:20 PM View: Appendix III - Intrawell

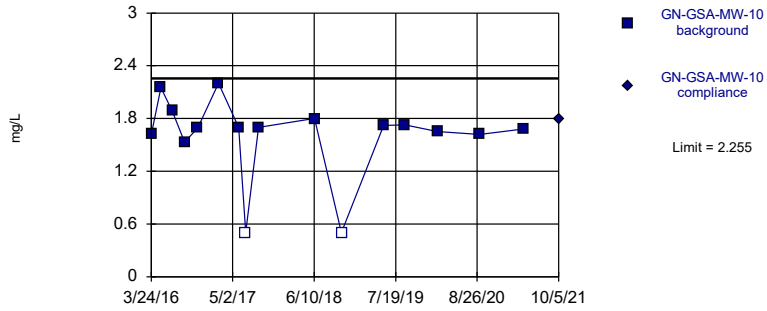
Plant Gaston Client: Southern Company Data: Gaston GSA

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.

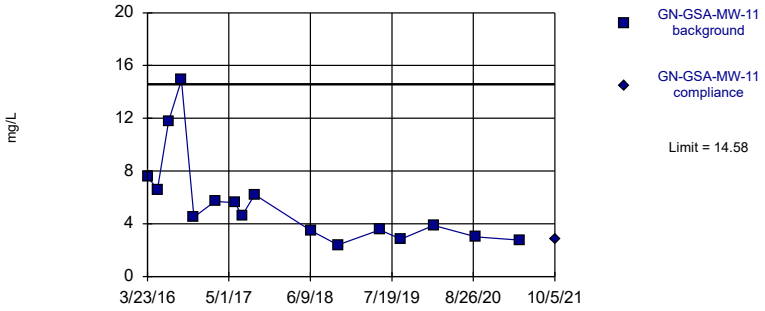
Constituent: Sulfate Analysis Run 1/11/2022 10:20 PM View: Appendix III - Intrawell

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.

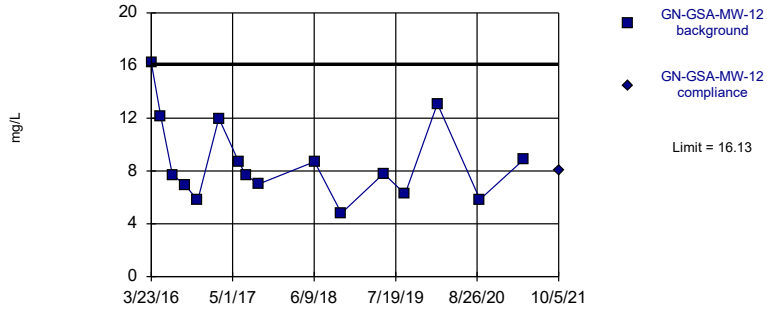
Constituent: Sulfate Analysis Run 1/11/2022 10:20 PM View: Appendix III - Intrawell

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 1/11/2022 10:20 PM View: Appendix III - Intrawell

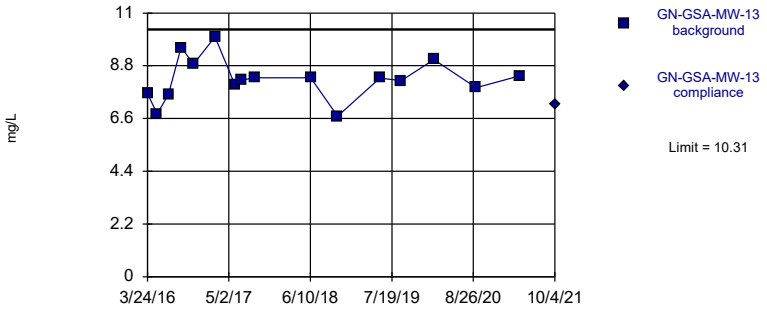
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 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 1/11/2022 10:20 PM View: Appendix III - Intrawell

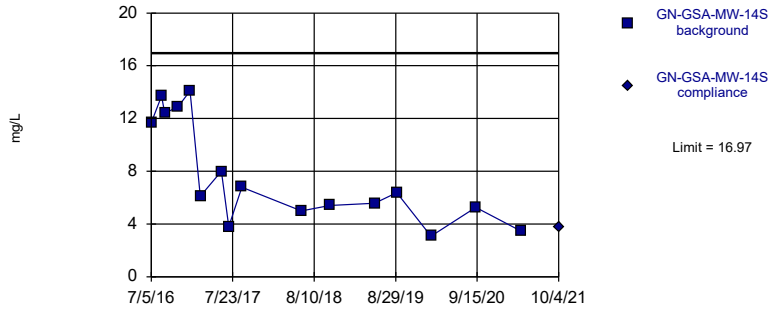
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 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 1/11/2022 10:20 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

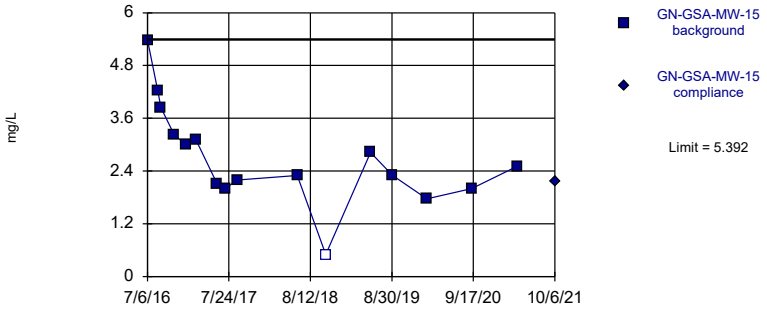
Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

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 1/11/2022 10:20 PM View: Appendix III - Intrawell

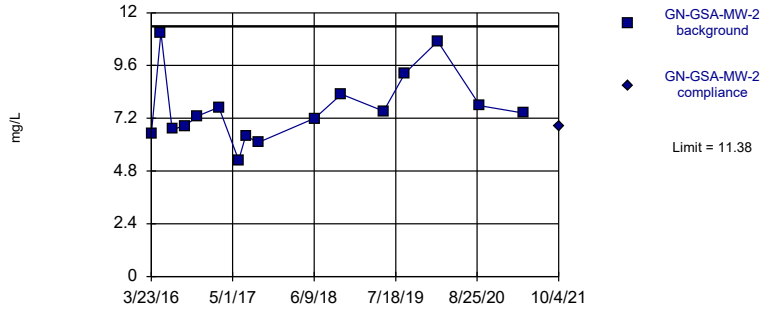
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 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.

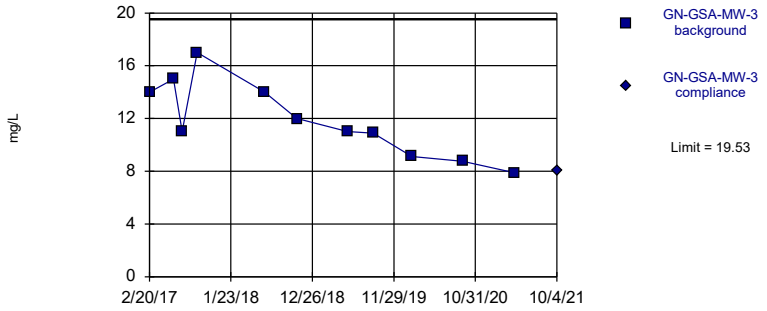
Constituent: Sulfate Analysis Run 1/11/2022 10:20 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

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.

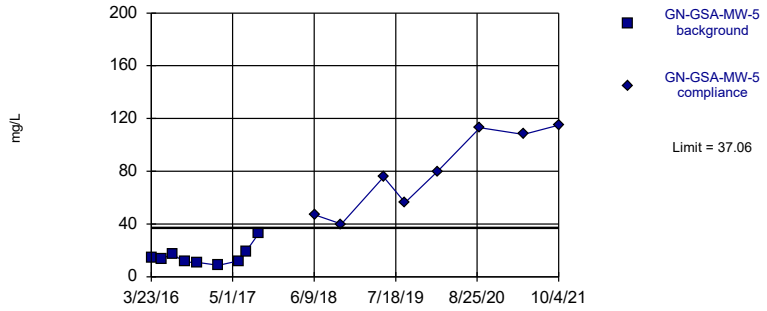
Constituent: Sulfate Analysis Run 1/11/2022 10:20 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

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 1/11/2022 10:20 PM View: Appendix III - Intrawell

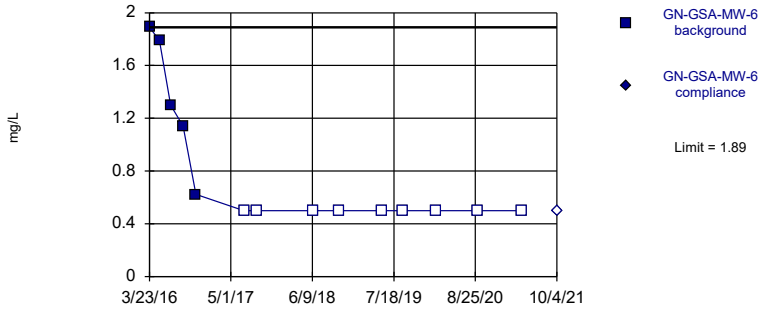
Plant Gaston Client: Southern Company Data: Gaston GSA

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).

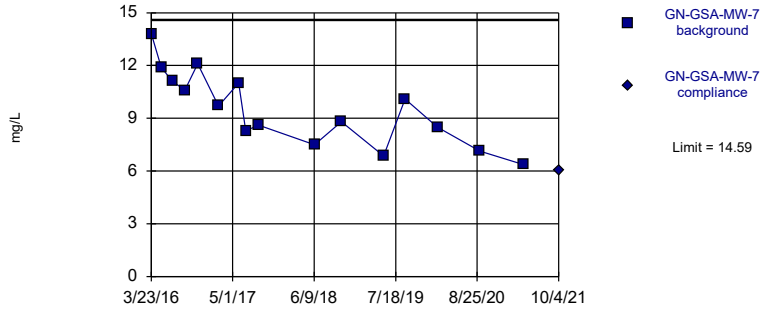
Constituent: Sulfate Analysis Run 1/11/2022 10:20 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

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.

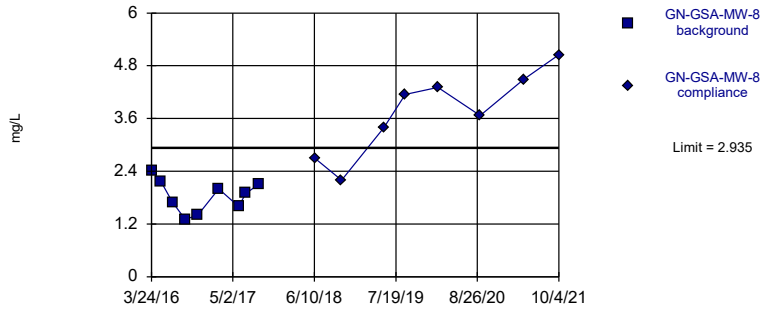
Constituent: Sulfate Analysis Run 1/11/2022 10:20 PM View: Appendix III - Intrawell

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.

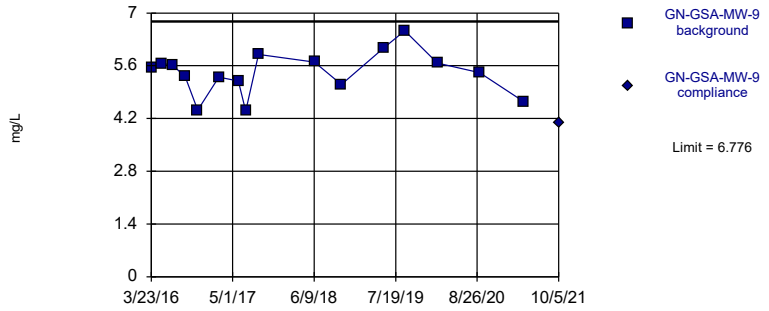
Constituent: Sulfate Analysis Run 1/11/2022 10:20 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

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.

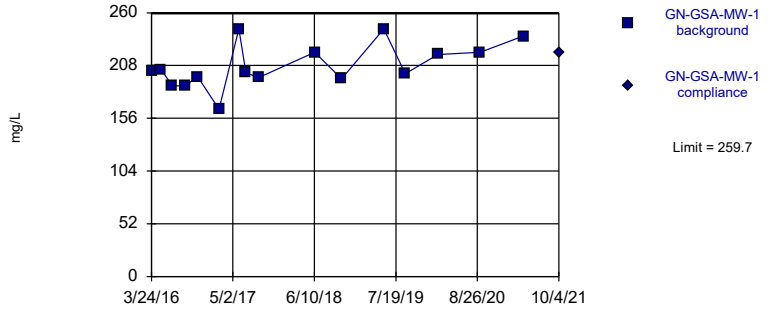
Constituent: Sulfate Analysis Run 1/11/2022 10:20 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

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.

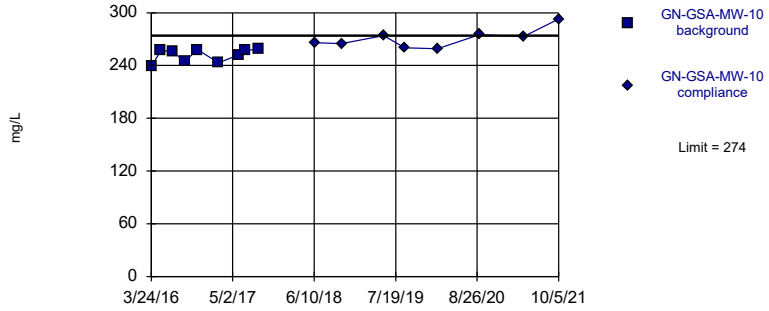
Constituent: TDS Analysis Run 1/11/2022 10:20 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Exceeds 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.

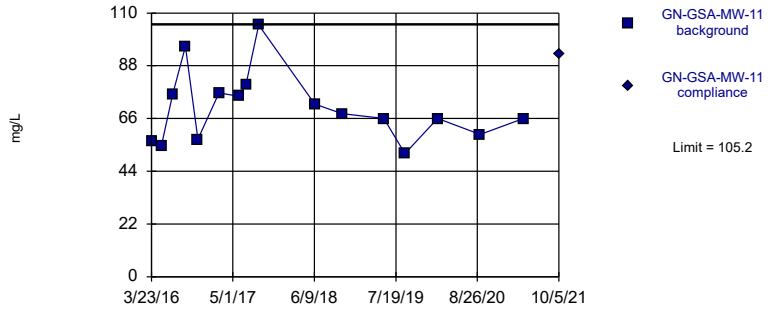
Constituent: TDS Analysis Run 1/11/2022 10:20 PM View: Appendix III - Intrawell

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 1/11/2022 10:20 PM View: Appendix III - Intrawell

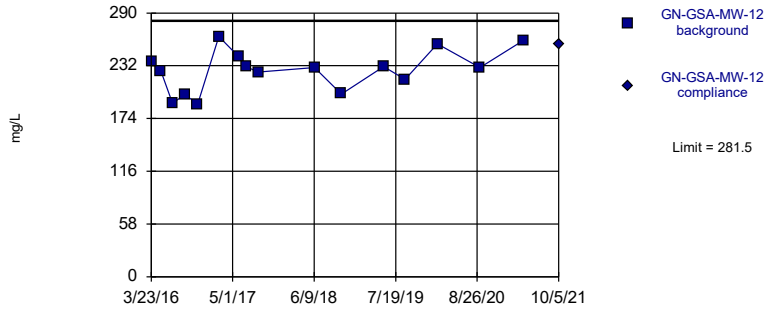
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 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 1/11/2022 10:20 PM View: Appendix III - Intrawell

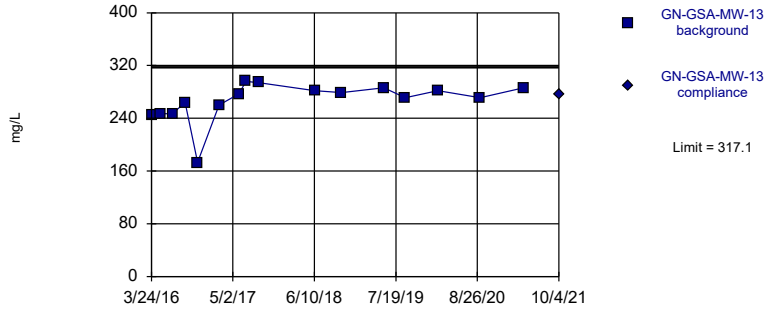
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 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 1/11/2022 10:20 PM View: Appendix III - Intrawell

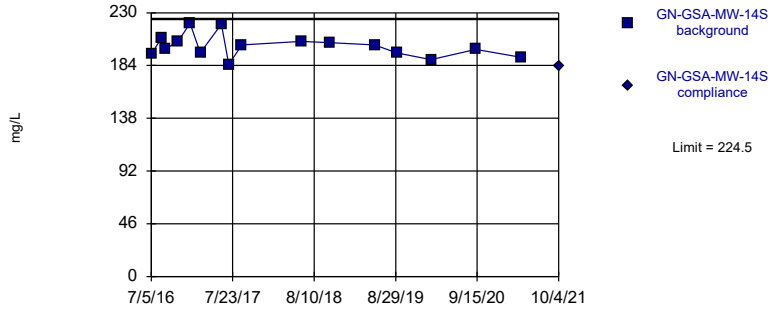
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 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 1/11/2022 10:20 PM View: Appendix III - Intrawell

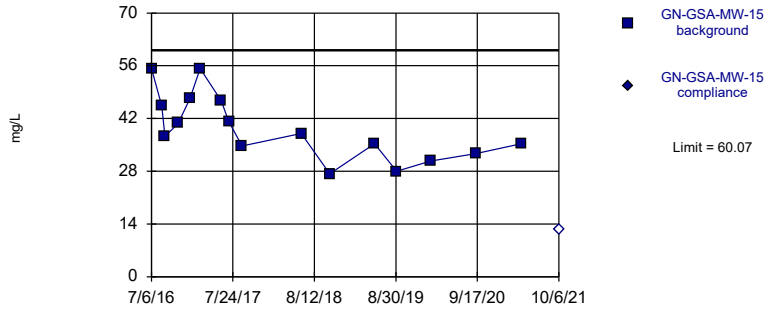
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 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.

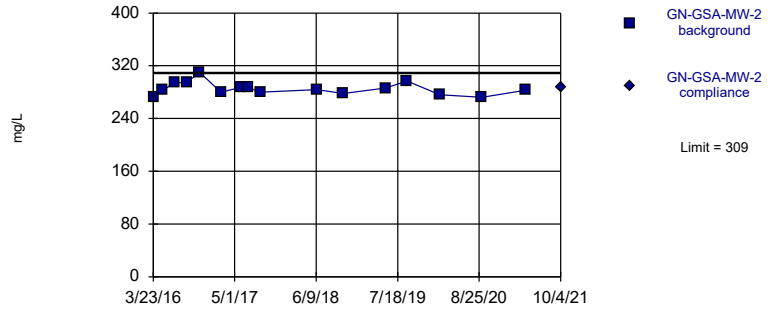
Constituent: TDS Analysis Run 1/11/2022 10:20 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 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.

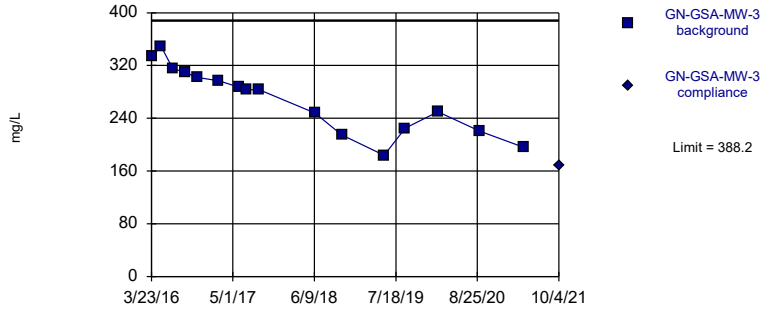
Constituent: TDS Analysis Run 1/11/2022 10:20 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 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.

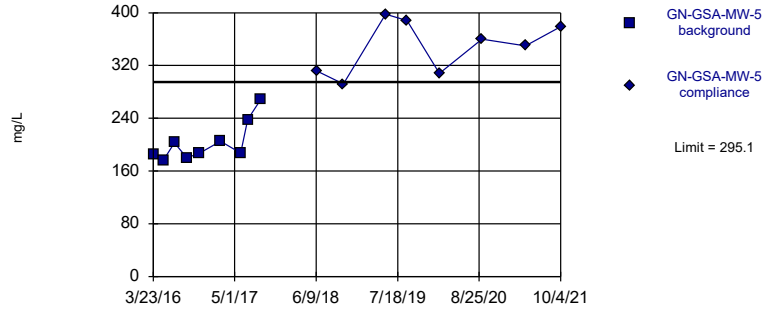
Constituent: TDS Analysis Run 1/11/2022 10:20 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 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 1/11/2022 10:20 PM View: Appendix III - Intrawell
Plant Gaston Client: Southern Company Data: Gaston GSA

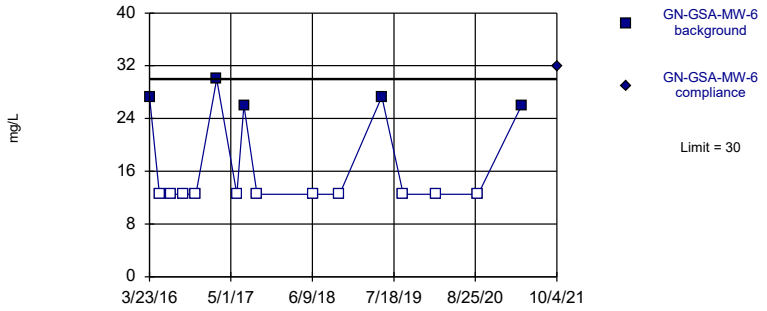
Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Exceeds 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 1/11/2022 10:20 PM View: Appendix III - Intrawell

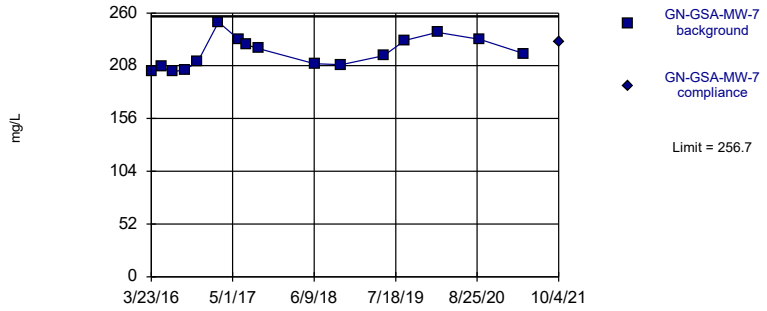
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 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 1/11/2022 10:20 PM View: Appendix III - Intrawell

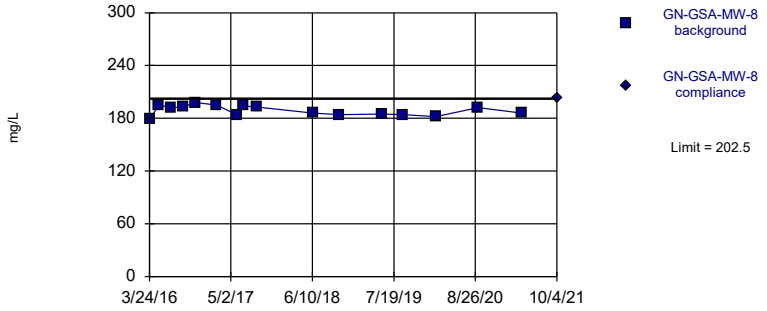
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Exceeds 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 1/11/2022 10:20 PM View: Appendix III - Intrawell

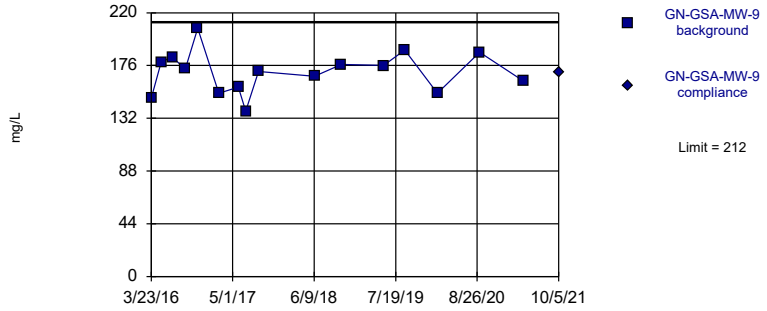
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 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 1/11/2022 10:20 PM View: Appendix III - Intrawell

Plant Gaston Client: Southern Company Data: Gaston GSA

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 1/11/2022 10:22 PM 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

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 1/11/2022 10:22 PM 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

FIGURE G.

Interwell Prediction Limits - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 1/11/2022, 10:25 PM

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**	**0.111**	**n/a**	**10/4/2021**	**0.376**	**Yes**	**72**	**n/a**	**n/a**	**37.5**	**n/a**	**n/a**	**0.0003671**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	**GN-GSA-MW-7**	**0.111**	**n/a**	**10/4/2021**	**0.12**	**Yes**	**72**	**n/a**	**n/a**	**37.5**	**n/a**	**n/a**	**0.0003671**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	**GN-GSA-MW-8**	**0.111**	**n/a**	**10/4/2021**	**0.134**	**Yes**	**72**	**n/a**	**n/a**	**37.5**	**n/a**	**n/a**	**0.0003671**	**NP Inter (normality) 1 of 2**
pH (pH)	**GN-GSA-MW-6**	**7.53**	**5.64**	**10/4/2021**	**4.86**	**Yes**	**72**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007343**	**NP Inter (normality) 1 of 2**
pH (pH)	**GN-GSA-MW-8**	**7.53**	**5.64**	**10/4/2021**	**7.82**	**Yes**	**72**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007343**	**NP Inter (normality) 1 of 2**

Interwell Prediction Limits - All Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 1/11/2022, 10:25 PM

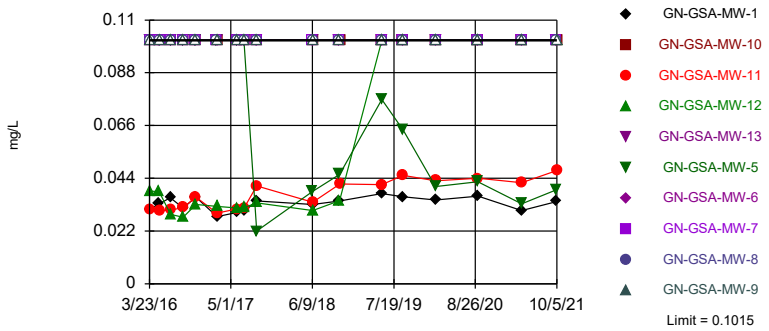
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GN-GSA-MW-1	0.1015	n/a	10/4/2021	0.0343J	No	68	n/a	n/a	98.53	n/a	n/a	0.0004111	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-10	0.1015	n/a	10/5/2021	0.1015ND	No	68	n/a	n/a	98.53	n/a	n/a	0.0004111	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-11	0.1015	n/a	10/5/2021	0.0472J	No	68	n/a	n/a	98.53	n/a	n/a	0.0004111	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-12	0.1015	n/a	10/5/2021	0.1015ND	No	68	n/a	n/a	98.53	n/a	n/a	0.0004111	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-13	0.1015	n/a	10/4/2021	0.1015ND	No	68	n/a	n/a	98.53	n/a	n/a	0.0004111	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-5	0.1015	n/a	10/4/2021	0.0392J	No	68	n/a	n/a	98.53	n/a	n/a	0.0004111	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-6	0.1015	n/a	10/4/2021	0.1015ND	No	68	n/a	n/a	98.53	n/a	n/a	0.0004111	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-7	0.1015	n/a	10/4/2021	0.1015ND	No	68	n/a	n/a	98.53	n/a	n/a	0.0004111	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-8	0.1015	n/a	10/4/2021	0.1015ND	No	68	n/a	n/a	98.53	n/a	n/a	0.0004111	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-9	0.1015	n/a	10/5/2021	0.1015ND	No	68	n/a	n/a	98.53	n/a	n/a	0.0004111	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	**GN-GSA-MW-1**	**0.111**	**n/a**	**10/4/2021**	**0.376**	**Yes**	**72**	**n/a**	**n/a**	**37.5**	**n/a**	**n/a**	**0.0003671**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	GN-GSA-MW-10	0.111	n/a	10/5/2021	0.1ND	No	72	n/a	n/a	37.5	n/a	n/a	0.0003671	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-11	0.111	n/a	10/5/2021	0.1ND	No	72	n/a	n/a	37.5	n/a	n/a	0.0003671	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-12	0.111	n/a	10/5/2021	0.1ND	No	72	n/a	n/a	37.5	n/a	n/a	0.0003671	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-13	0.111	n/a	10/4/2021	0.0748J	No	72	n/a	n/a	37.5	n/a	n/a	0.0003671	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-5	0.111	n/a	10/4/2021	0.1ND	No	72	n/a	n/a	37.5	n/a	n/a	0.0003671	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-6	0.111	n/a	10/4/2021	0.1ND	No	72	n/a	n/a	37.5	n/a	n/a	0.0003671	NP Inter (normality) 1 of 2
Fluoride (mg/L)	**GN-GSA-MW-7**	**0.111**	**n/a**	**10/4/2021**	**0.12**	**Yes**	**72**	**n/a**	**n/a**	**37.5**	**n/a**	**n/a**	**0.0003671**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	**GN-GSA-MW-8**	**0.111**	**n/a**	**10/4/2021**	**0.134**	**Yes**	**72**	**n/a**	**n/a**	**37.5**	**n/a**	**n/a**	**0.0003671**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	GN-GSA-MW-9	0.111	n/a	10/5/2021	0.1ND	No	72	n/a	n/a	37.5	n/a	n/a	0.0003671	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-1	7.53	5.64	10/4/2021	7.33	No	72	n/a	n/a	0	n/a	n/a	0.0007343	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-10	7.53	5.64	10/5/2021	7.12	No	72	n/a	n/a	0	n/a	n/a	0.0007343	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-11	7.53	5.64	10/5/2021	6.01	No	72	n/a	n/a	0	n/a	n/a	0.0007343	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-12	7.53	5.64	10/5/2021	7.25	No	72	n/a	n/a	0	n/a	n/a	0.0007343	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-13	7.53	5.64	10/4/2021	6.95	No	72	n/a	n/a	0	n/a	n/a	0.0007343	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-5	7.53	5.64	10/4/2021	6.66	No	72	n/a	n/a	0	n/a	n/a	0.0007343	NP Inter (normality) 1 of 2
pH (pH)	**GN-GSA-MW-6**	**7.53**	**5.64**	**10/4/2021**	**4.86**	**Yes**	**72**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007343**	**NP Inter (normality) 1 of 2**
pH (pH)	GN-GSA-MW-7	7.53	5.64	10/4/2021	6.96	No	72	n/a	n/a	0	n/a	n/a	0.0007343	NP Inter (normality) 1 of 2
pH (pH)	**GN-GSA-MW-8**	**7.53**	**5.64**	**10/4/2021**	**7.82**	**Yes**	**72**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007343**	**NP Inter (normality) 1 of 2**
pH (pH)	GN-GSA-MW-9	7.53	5.64	10/5/2021	6.96	No	72	n/a	n/a	0	n/a	n/a	0.0007343	NP Inter (normality) 1 of 2

Sanitas™ v.9.6.32 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 68 background values. 98.53% NDs. Annual per-constituent alpha = 0.00819. Individual comparison alpha = 0.0004111 (1 of 2). Comparing 10 points to limit.

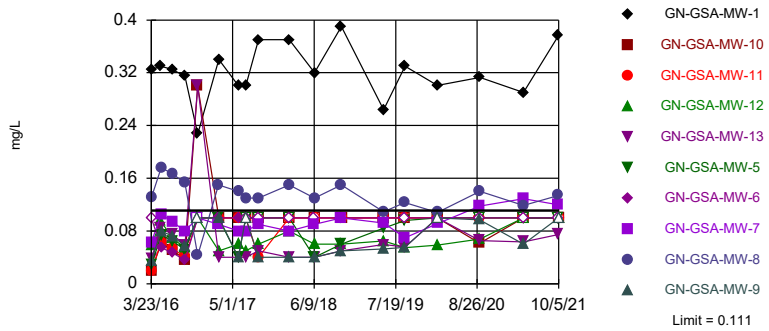
Constituent: Boron Analysis Run 1/11/2022 10:25 PM View: Appendix III - Interwell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Exceeds Limit: GN-GSA-MW-1, GN-GSA-MW-7, GN-GSA-MW-8

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 72 background values. 37.5% NDs. Annual per-constituent alpha = 0.007317. Individual comparison alpha = 0.0003671 (1 of 2). Comparing 10 points to limit.

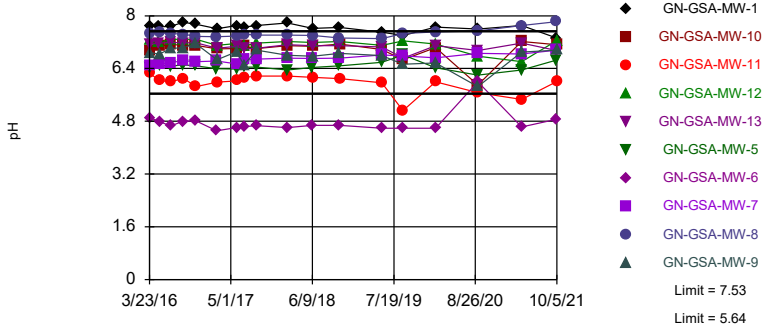
Constituent: Fluoride Analysis Run 1/11/2022 10:25 PM View: Appendix III - Interwell
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Exceeds Limits: GN-GSA-MW-6, GN-GSA-MW-8

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 72 background values. Annual per-constituent alpha = 0.01463. Individual comparison alpha = 0.0007343 (1 of 2). Comparing 10 points to limit.

Constituent: pH Analysis Run 1/11/2022 10:25 PM View: Appendix III - Interwell
Plant Gaston Client: Southern Company Data: Gaston GSA

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 1/11/2022 10:25 PM View: Appendix III - Interwell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-6	GN-GSA-MW-11	GN-GSA-MW-2 (bg)	GN-GSA-MW-7	GN-GSA-MW-12	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-9	GN-GSA-MW-8
3/23/2016	<0.1015	0.0309 (J)	<0.1015	<0.1015	0.0387 (J)	<0.1015	<0.1015	<0.1015	
3/24/2016									<0.1015
5/10/2016			<0.1015		0.0384 (J)	<0.1015			
5/11/2016	<0.1015	0.0306 (J)		<0.1015			<0.1015	<0.1015	<0.1015
7/5/2016			<0.1015						
7/6/2016	<0.1015	0.0307 (J)		<0.1015	0.029 (J)	<0.1015	<0.1015	<0.1015	<0.1015
8/23/2016									
9/6/2016	<0.1015		<0.1015	<0.1015	0.0278 (J)		<0.1015		<0.1015
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	<0.1015
11/9/2016		0.0362 (J)			0.0331 (J)				
1/3/2017									
2/20/2017	<0.1015			<0.1015		<0.1015	<0.1015		<0.1015
2/21/2017		0.0295 (J)	<0.1015		0.0323 (J)			<0.1015	
2/22/2017									
5/30/2017	<0.1015						<0.1015	<0.1015	<0.1015
5/31/2017		0.0312 (J)	<0.1015	<0.1015	0.0316 (J)	<0.1015			
7/5/2017	<0.1015	0.0315 (J)	<0.1015	<0.1015	0.0318 (J)	<0.1015	<0.1015	<0.1015	<0.1015
9/5/2017			<0.1015			<0.1015			
9/7/2017	<0.1015	0.0408 (J)		<0.1015	0.0338 (J)		0.022 (J)	<0.1015	<0.1015
6/11/2018	<0.1015			<0.1015			0.0386 (J)		
6/12/2018		0.034 (J)	<0.1015		0.0305 (J)	<0.1015		<0.1015	<0.1015
10/22/2018	<0.1015		<0.1015	<0.1015			0.0456 (J)	<0.1015	<0.1015
10/23/2018					0.0347 (J)	<0.1015			
10/24/2018		0.0416 (J)							
5/20/2019	<0.1015		<0.1015	<0.1015			0.0769 (J)		
5/21/2019		0.0413 (J)			<0.1015			<0.1015	<0.1015
5/22/2019						<0.1015			
9/3/2019		0.0452 (J)						<0.1015	<0.1015
9/4/2019	<0.1015		<0.1015	<0.1015	<0.1015	<0.1015	0.0641 (J)		
2/11/2020	<0.1015			<0.1015			0.0406 (J)		
2/12/2020		0.043 (J)	<0.1015		<0.1015	<0.1015		<0.1015	<0.1015
9/8/2020	<0.1015						0.0425 (J)	<0.1015	
9/9/2020		0.044 (J)	<0.1015	<0.1015	<0.1015	<0.1015			<0.1015
4/13/2021	<0.1015	0.0422 (J)	<0.1015	<0.1015	<0.1015	<0.1015	0.0333 (J)	<0.1015	<0.1015
10/4/2021	<0.1015		<0.1015	<0.1015		<0.1015	0.0392 (J)		<0.1015
10/5/2021		0.0472 (J)			<0.1015			<0.1015	
10/6/2021									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 1/11/2022 10:25 PM View: Appendix III - Interwell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-10	GN-GSA-MW-13	GN-GSA-MW-1	GN-GSA-MW-14S...GN-GSA-MW-15 ...	
3/23/2016					
3/24/2016	<0.1015	<0.1015	0.0311 (J)		
5/10/2016		<0.1015	0.0334 (J)		
5/11/2016	<0.1015				
7/5/2016			0.0359 (J)	<0.1015	
7/6/2016	<0.1015	<0.1015			<0.1015
8/23/2016				<0.1015	<0.1015
9/6/2016	<0.1015	<0.1015	0.0316 (J)		
9/7/2016				<0.1015	<0.1015
11/8/2016		<0.1015	0.0361 (J)	<0.1015	<0.1015
11/9/2016	<0.1015				
1/3/2017				0.0211 (J)	<0.1015
2/20/2017					<0.1015
2/21/2017	<0.1015			<0.1015	
2/22/2017		<0.1015	0.028 (J)		
5/30/2017					
5/31/2017	<0.1015	<0.1015	0.0297 (J)	<0.1015	<0.1015
7/5/2017	<0.1015	<0.1015	0.0302 (J)	<0.1015	<0.1015
9/5/2017				<0.1015	<0.1015
9/7/2017	<0.1015	<0.1015	0.0345 (J)		
6/11/2018					
6/12/2018	<0.1015	<0.1015	0.0331 (J)	<0.1015	<0.1015
10/22/2018					
10/23/2018		<0.1015	0.0345 (J)	<0.1015	<0.1015
10/24/2018	<0.1015				
5/20/2019					
5/21/2019	<0.1015	<0.1015	0.0376 (J)		
5/22/2019				<0.1015	<0.1015
9/3/2019	<0.1015				
9/4/2019		<0.1015	0.0363 (J)	<0.1015	<0.1015
2/11/2020					
2/12/2020	<0.1015	<0.1015	0.0349 (J)	<0.1015	<0.1015
9/8/2020	<0.1015				
9/9/2020		<0.1015	0.0366 (J)	<0.1015	<0.1015
4/13/2021	<0.1015	<0.1015	0.0306 (J)	<0.1015	<0.1015
10/4/2021		<0.1015	0.0343 (J)	<0.1015	
10/5/2021	<0.1015				
10/6/2021					<0.1015

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 1/11/2022 10:25 PM View: Appendix III - Interwell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-9	GN-GSA-MW-11	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-12	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-7	GN-GSA-MW-10
3/23/2016	0.035 (J)	0.02 (J)	0.028 (J)	<0.1	0.058 (J)	0.022 (J)	0.06 (J)	0.063 (J)	
3/24/2016									0.02 (J)
5/10/2016					0.095 (J)	0.068 (J)	0.111 (J)		
5/11/2016	0.08 (J)	0.063 (J)	0.074 (J)	0.055 (J)				0.105 (J)	0.062 (J)
7/5/2016						0.052 (J)			
7/6/2016	0.072 (J)	0.053 (J)	0.065 (J)	0.047 (J)	0.069 (J)		0.089 (J)	0.094 (J)	0.051 (J)
8/23/2016									
9/6/2016			0.052 (J)	0.036 (J)	0.055 (J)	0.038 (J)		0.08 (J)	0.037 (J)
9/7/2016	0.057 (J)	0.041 (J)					0.073 (J)		
11/8/2016	<0.1		<0.1	<0.1		<0.1	<0.1	<0.1	
11/9/2016		<0.1			<0.1				0.3 (U)
1/3/2017									
2/20/2017			0.1	0.1			0.05 (J)	0.09 (J)	
2/21/2017	0.1	0.1			0.05 (J)	0.1			0.1
2/22/2017									
5/30/2017	0.04 (J)		0.04 (J)	0.1					
5/31/2017		0.1			0.06 (J)	0.1	0.06 (J)	0.08 (J)	0.1
7/5/2017	<0.1	<0.1	<0.1	<0.1	0.05 (J)	<0.1	0.05 (J)	0.08 (J)	<0.1
9/5/2017						<0.1	0.06 (J)		
9/7/2017	0.04 (J)	0.04 (J)	<0.1	<0.1	0.06 (J)			0.09 (J)	<0.1
2/5/2018					0.08 (J)	0.04 (J)			
2/6/2018	0.04 (J)	<0.1	<0.1	<0.1			0.06 (J)	0.08 (J)	<0.1
2/7/2018									
6/11/2018			0.04 (J)	<0.1				0.09 (J)	
6/12/2018	0.04 (J)	<0.1			0.06 (J)	<0.1	0.05 (J)		<0.1
10/22/2018	0.05 (J)		0.06 (J)	<0.1		<0.1		0.1	
10/23/2018					0.06 (J)		0.05 (J)		
10/24/2018		<0.1							<0.1
5/20/2019			0.0842 (J)	<0.1		<0.1		0.0919 (J)	
5/21/2019	0.0526 (J)	<0.1			0.0649 (J)				<0.1
5/22/2019							0.0515 (J)		
9/3/2019	0.0554 (J)	<0.1							<0.1
9/4/2019			0.0962 (J)	<0.1	0.0547 (J)	<0.1	0.0594 (J)	0.07 (J)	
2/11/2020			<0.1	<0.1				0.0912 (J)	
2/12/2020	<0.1	<0.1			0.0586 (J)	<0.1	0.0566 (J)		<0.1
9/8/2020	0.097 (J)		<0.1	<0.1					0.0617 (J)
9/9/2020		<0.1			0.068 (J)	0.0644 (J)	0.0748 (J)	0.118	
4/13/2021	0.0602 (J)	<0.1	<0.1	<0.1	<0.1	<0.1	0.069 (J)	0.129	<0.1
10/4/2021			<0.1	<0.1		0.0664 (J)	0.0637 (J)	0.12	
10/5/2021	<0.1	<0.1			<0.1				<0.1
10/6/2021									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 1/11/2022 10:25 PM View: Appendix III - Interwell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-13	GN-GSA-MW-8	GN-GSA-MW-1	GN-GSA-MW-14S...GN-GSA-MW-15 ...	
3/23/2016					
3/24/2016	0.039 (J)	0.132 (J)	0.325		
5/10/2016	0.085 (J)		0.33		
5/11/2016		0.176 (J)			
7/5/2016			0.325	0.072 (J)	
7/6/2016	0.075 (J)	0.167 (J)			0.062 (J)
8/23/2016				0.066 (J)	0.045 (J)
9/6/2016	0.058 (J)	0.153 (J)	0.315		
9/7/2016				0.062 (J)	0.042 (J)
11/8/2016	0.3 (U)	0.043 (J)	0.227 (J)	<0.1	<0.1
11/9/2016					
1/3/2017				<0.1	<0.1
2/20/2017		0.15			0.1
2/21/2017				0.1	
2/22/2017	0.04 (J)		0.34		
5/30/2017		0.14			
5/31/2017	0.04 (J)		0.3	0.06 (J)	0.1
7/5/2017	0.04 (J)	0.13	0.3	0.04 (J)	<0.1
9/5/2017				0.06 (J)	<0.1
9/7/2017	0.05 (J)	0.13	0.37		
2/5/2018	0.04 (J)		0.37		
2/6/2018		0.15		0.06 (J)	
2/7/2018					<0.1
6/11/2018					
6/12/2018	0.04 (J)	0.13	0.32	0.05 (J)	<0.1
10/22/2018		0.15			
10/23/2018	0.05 (J)		0.39	0.07 (J)	<0.1
10/24/2018					
5/20/2019					
5/21/2019	0.0595 (J)	0.109	0.264		
5/22/2019				0.0601 (J)	<0.1
9/3/2019		0.123			
9/4/2019	0.0555 (J)		0.33	0.0703 (J)	<0.1
2/11/2020					
2/12/2020	<0.1	0.108	0.301	<0.1	<0.1
9/8/2020					
9/9/2020	0.0655 (J)	0.14	0.313	0.0847 (J)	<0.1
4/13/2021	0.0633 (J)	0.119	0.29	<0.1	<0.1
10/4/2021	0.0748 (J)	0.134	0.376	0.0838 (J)	
10/5/2021					
10/6/2021					<0.1

Prediction Limit

Constituent: pH (pH) Analysis Run 1/11/2022 10:25 PM View: Appendix III - Interwell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-9	GN-GSA-MW-11	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-12	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-7	GN-GSA-MW-10
3/23/2016	6.88	6.26	6.41	4.91	7.28	7.18	6.83	6.5	
3/24/2016									6.95
5/10/2016					7.19	7.2	6.84		
5/11/2016	6.84	6.04	6.5	4.79				6.54	7.07
7/5/2016						7.15			
7/6/2016	7.01	6	6.47	4.66	7.29		6.94	6.58	7.13
8/23/2016									
9/6/2016			6.51	4.8	7.29	7.17		6.64	7.1
9/7/2016	7.03	6.1					6.84		
11/8/2016	7.15		6.48	4.81		7.12	6.84	6.61	
11/9/2016		5.85			7.29				7.1
1/3/2017									
2/20/2017			6.39	4.51			7.04	6.63	
2/21/2017	6.67	5.99			7.1	7.12			7
2/22/2017									
5/30/2017	6.91		6.38	4.61					
5/31/2017		6.03			7.16	7.17	6.91	6.54	7.01
7/5/2017	6.51	6.13	6.44	4.64	7.08	7.18	7.02	6.67	7.07
9/5/2017						7.17	6.78		
9/7/2017	6.96	6.17	6.44	4.67	7.17			6.69	7.01
2/5/2018					7.22	7.12			
2/6/2018	6.8	6.17	6.36	4.61			6.96	6.71	7.09
2/7/2018									
6/11/2018			6.43	4.68				6.7	
6/12/2018	6.77	6.13			7.19	7.19	6.76		7.07
10/22/2018	6.86		6.48	4.68		7.06		6.71	
10/23/2018					7.22		6.59		
10/24/2018		6.09							7.14
5/20/2019			6.59	4.59		7.13		6.81	
5/21/2019	6.79	5.97			7.1				6.98
5/22/2019							6.38		
9/3/2019	6.53	5.12							6.67
9/4/2019			6.81	4.59	7.24	7.16	6.71	6.78	
2/11/2020			6.42	4.59				6.72	
2/12/2020	6.57	6			7.14	7.11	6.98		7.03
9/8/2020	5.85		6.2	6					5.9
9/9/2020		5.67			6.77	7.22	6.48	6.86	
4/13/2021	6.9	5.46	6.36	4.63	6.61	6.94	6.71	6.84	7.22
10/4/2021			6.66	4.86		7.13	6.43	6.96	
10/5/2021	6.96	6.01			7.25				7.12
10/6/2021									

Prediction Limit

Constituent: pH (pH) Analysis Run 1/11/2022 10:25 PM View: Appendix III - Interwell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-13	GN-GSA-MW-8	GN-GSA-MW-1	GN-GSA-MW-14S...GN-GSA-MW-15 ...	
3/23/2016					
3/24/2016	7.14	7.45	7.7		
5/10/2016	7.17		7.67		
5/11/2016		7.48			
7/5/2016			7.68	7.44	
7/6/2016	7.19	7.46			6.1
8/23/2016				7.47	5.87
9/6/2016	7.18	7.44	7.8		
9/7/2016				7.51	5.92
11/8/2016	7.18	7.37	7.74	7.37	5.91
11/9/2016					
1/3/2017				7.37	5.93
2/20/2017		7.36			5.91
2/21/2017				7.41	
2/22/2017	7.02		7.61		
5/30/2017		7.38			
5/31/2017	7.07		7.7	7.47	6
7/5/2017	7	7.44	7.66	7.5	6
9/5/2017				7.39	5.9
9/7/2017	7.02	7.41	7.7		
2/5/2018	7.12		7.78		
2/6/2018		7.41		7.47	
2/7/2018					5.86
6/11/2018					
6/12/2018	7.09	7.4	7.62	7.53	6.05
10/22/2018		7.33			
10/23/2018	7.09		7.65	7.4	5.84
10/24/2018					
5/20/2019					
5/21/2019	7.05	7.31	7.5		
5/22/2019				7.43	5.81
9/3/2019		7.46			
9/4/2019	6.71		7.4	7.45	5.67
2/11/2020					
2/12/2020	7.09	7.51	7.66	7.47	5.72
9/8/2020					
9/9/2020	6.95	7.54	7.6	7.32	5.71
4/13/2021	7.17	7.7	7.7	7.33	5.84
10/4/2021	6.95	7.82	7.33	7.21	
10/5/2021					
10/6/2021					5.64

FIGURE H.

Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 1/11/2022, 10:32 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	**GN-GSA-MW-12**	**3.811**	**85**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GN-GSA-MW-15 (bg)**	**-0.8934**	**-100**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GN-GSA-MW-3 (bg)**	**-10.53**	**-106**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GN-GSA-MW-5**	**6.006**	**98**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-11**	**1.401**	**100**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-14S (bg)**	**-0.5239**	**-95**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-15 (bg)**	**-0.3933**	**-80**	**-63**	**Yes**	**17**	**5.882**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-3 (bg)**	**-0.1173**	**-66**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	**GN-GSA-MW-15 (bg)**	**-0.05303**	**-86**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-14S (bg)**	**-1.774**	**-80**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-15 (bg)**	**-0.447**	**-72**	**-63**	**Yes**	**17**	**5.882**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-3 (bg)**	**-3.41**	**-120**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-5**	**19.34**	**98**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-8**	**0.5882**	**88**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GN-GSA-MW-10**	**5.726**	**92**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GN-GSA-MW-15 (bg)**	**-4.764**	**-78**	**-63**	**Yes**	**17**	**5.882**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GN-GSA-MW-3 (bg)**	**-29.28**	**-114**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GN-GSA-MW-5**	**39.87**	**99**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**

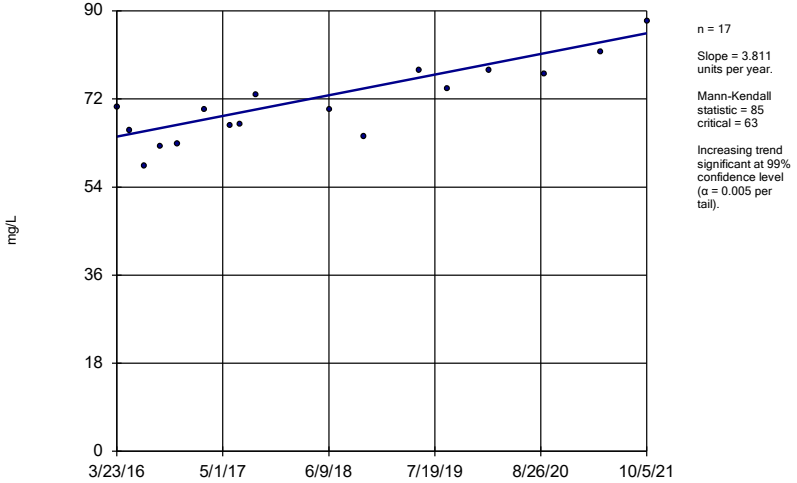
Trend Tests - Prediction Limit Exceedances - All Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 1/11/2022, 10:32 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	**GN-GSA-MW-12**	**3.811**	**85**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GN-GSA-MW-14S (bg)	-0.5261	-30	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GN-GSA-MW-15 (bg)**	**-0.8934**	**-100**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GN-GSA-MW-2 (bg)	1.33	43	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GN-GSA-MW-3 (bg)**	**-10.53**	**-106**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GN-GSA-MW-5**	**6.006**	**98**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-11**	**1.401**	**100**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-14S (bg)**	**-0.5239**	**-95**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-GSA-MW-15 (bg)**	**-0.3933**	**-80**	**-63**	**Yes**	**17**	**5.882**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	GN-GSA-MW-2 (bg)	0.01661	10	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**GN-GSA-MW-3 (bg)**	**-0.1173**	**-66**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	GN-GSA-MW-1	0	1	68	No	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-14S (bg)	0.00005849	16	68	No	18	22.22	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-15 (bg)	0	42	68	No	18	72.22	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-2 (bg)	5.9e-10	32	68	No	18	50	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-3 (bg)	-0.0008696	-21	-68	No	18	5.556	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-7	0.004872	40	68	No	18	5.556	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-8	-0.005615	-56	-68	No	18	0	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-14S (bg)	-0.01664	-34	-68	No	18	0	n/a	n/a	0.01	NP
pH (pH)	**GN-GSA-MW-15 (bg)**	**-0.05303**	**-86**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	GN-GSA-MW-2 (bg)	-0.0092	-37	-68	No	18	0	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-3 (bg)	-0.05422	-57	-68	No	18	0	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-6	-0.01111	-20	-68	No	18	0	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-8	0.02037	28	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GN-GSA-MW-14S (bg)**	**-1.774**	**-80**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-15 (bg)**	**-0.447**	**-72**	**-63**	**Yes**	**17**	**5.882**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GN-GSA-MW-2 (bg)	0.2139	30	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GN-GSA-MW-3 (bg)**	**-3.41**	**-120**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-5**	**19.34**	**98**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-GSA-MW-8**	**0.5882**	**88**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GN-GSA-MW-10**	**5.726**	**92**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GN-GSA-MW-14S (bg)	-3.003	-48	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GN-GSA-MW-15 (bg)**	**-4.764**	**-78**	**-63**	**Yes**	**17**	**5.882**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GN-GSA-MW-2 (bg)	-1.13	-16	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GN-GSA-MW-3 (bg)**	**-29.28**	**-114**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GN-GSA-MW-5**	**39.87**	**99**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GN-GSA-MW-6	0	13	63	No	17	64.71	n/a	n/a	0.01	NP
TDS (mg/L)	GN-GSA-MW-8	-0.7916	-17	-63	No	17	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

GN-GSA-MW-12



n = 17

Slope = 3.811 units per year.

Mann-Kendall statistic = 85
critical = 63

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/11/2022 10:27 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

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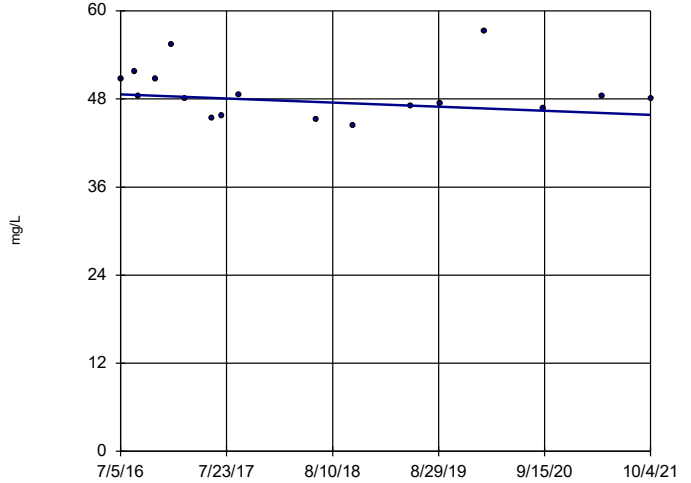
Sen's Slope Estimator

GN-GSA-MW-14S (bg)



n = 17

Slope = -0.5261 units per year.

Mann-Kendall statistic = -30
critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/11/2022 10:27 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

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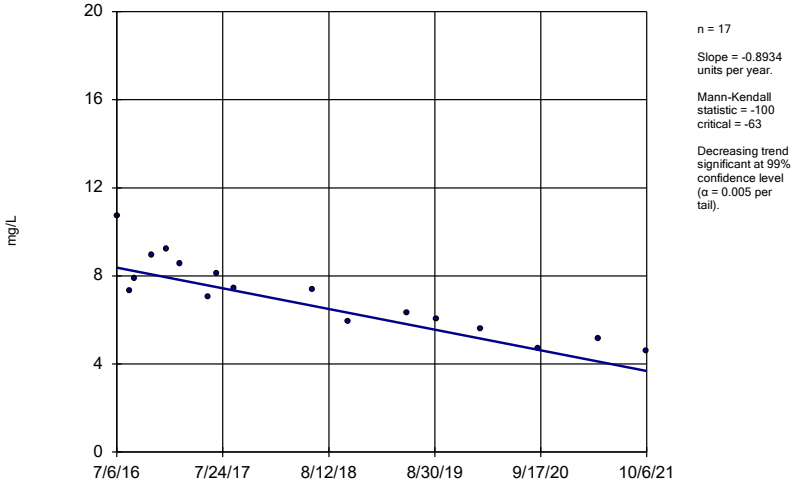
Sen's Slope Estimator

GN-GSA-MW-15 (bg)



n = 17

Slope = -0.8934 units per year.

Mann-Kendall statistic = -100
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/11/2022 10:27 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

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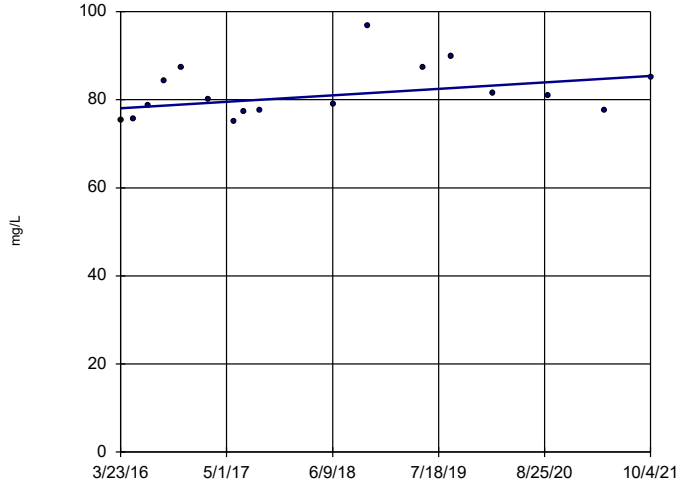
Sen's Slope Estimator

GN-GSA-MW-2 (bg)



n = 17

Slope = 1.33 units per year.

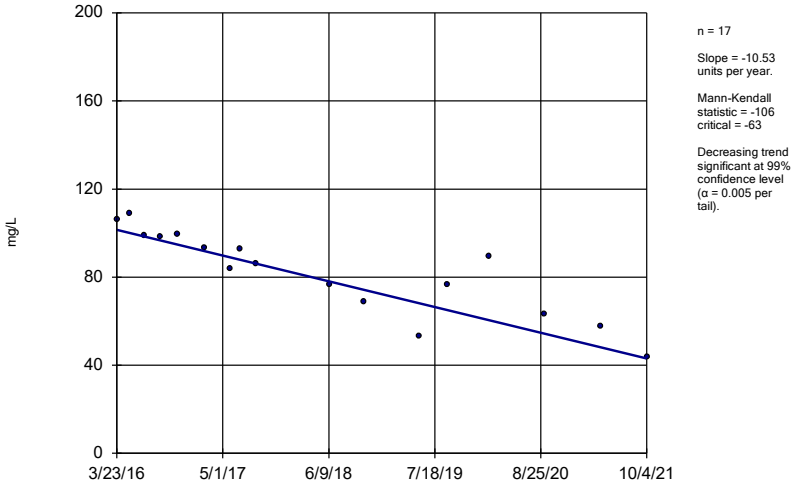
Mann-Kendall statistic = 43
critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/11/2022 10:27 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sen's Slope Estimator

GN-GSA-MW-3 (bg)



n = 17

Slope = -10.53 units per year.

Mann-Kendall statistic = -106
critical = -63

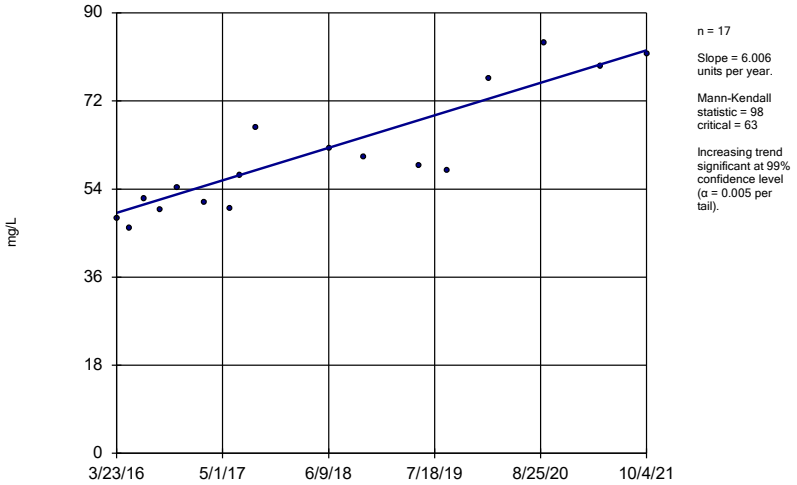
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/11/2022 10:27 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-5



n = 17

Slope = 6.006 units per year.

Mann-Kendall statistic = 98
critical = 63

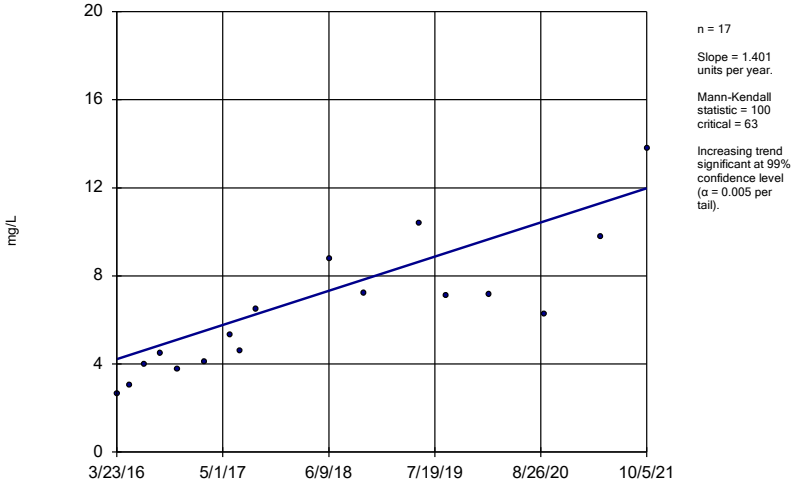
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/11/2022 10:27 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-11



n = 17

Slope = 1.401 units per year.

Mann-Kendall statistic = 100
critical = 63

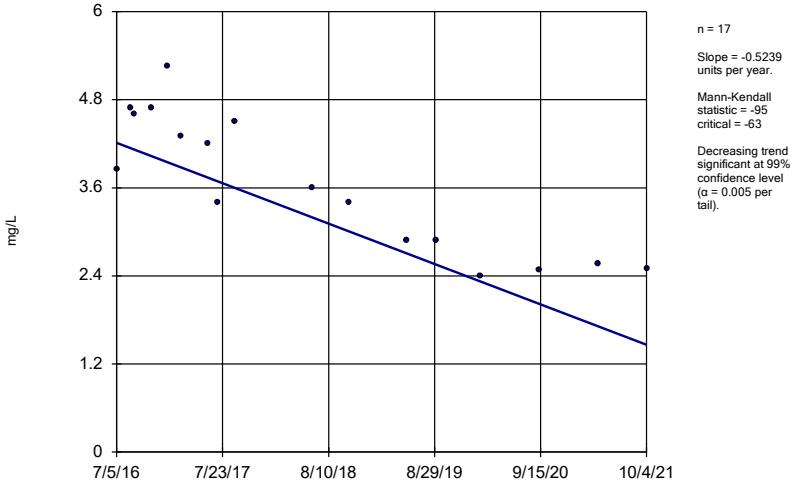
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 1/11/2022 10:27 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-14S (bg)



n = 17

Slope = -0.5239 units per year.

Mann-Kendall statistic = -95
critical = -63

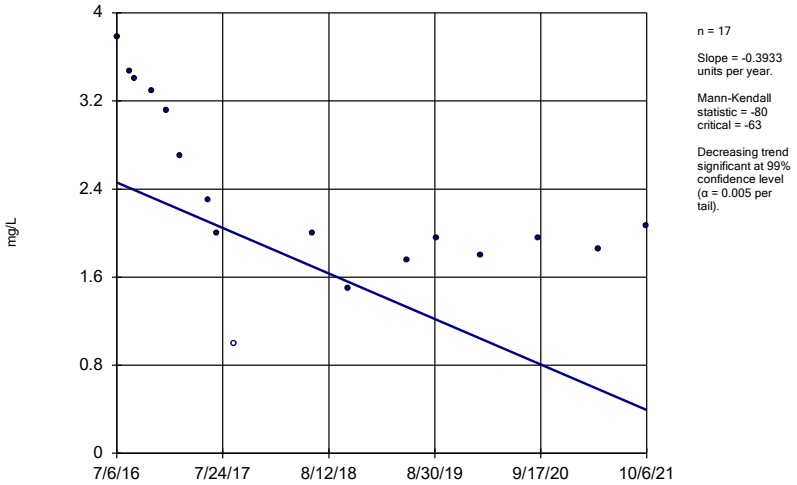
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 1/11/2022 10:27 PM 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 = 17

Slope = -0.3933 units per year.

Mann-Kendall statistic = -80 critical = -63

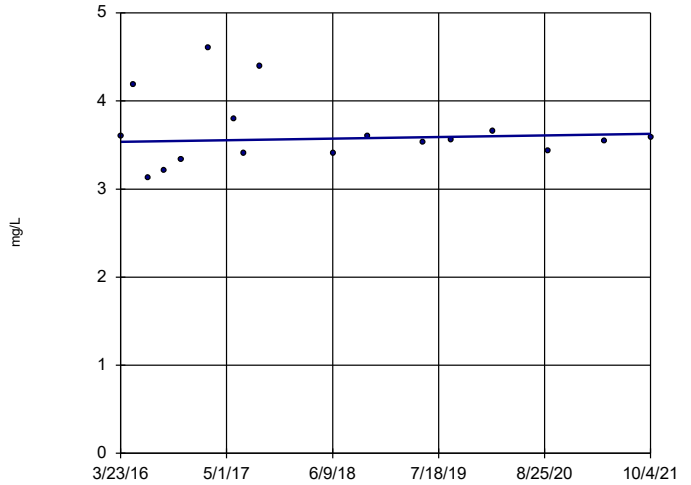
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 1/11/2022 10:27 PM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston GSA

Sen's Slope Estimator

GN-GSA-MW-2 (bg)



n = 17

Slope = 0.01661 units per year.

Mann-Kendall statistic = 10 critical = 63

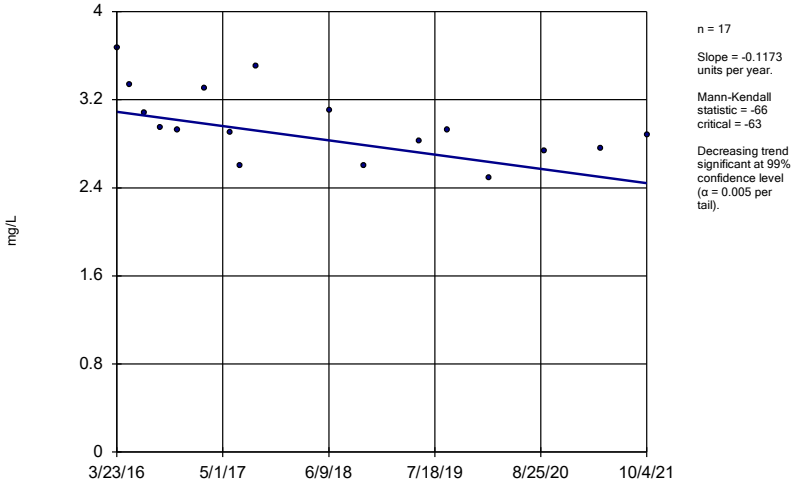
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 1/11/2022 10:27 PM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston GSA

Sen's Slope Estimator

GN-GSA-MW-3 (bg)



n = 17

Slope = -0.1173 units per year.

Mann-Kendall statistic = -66 critical = -63

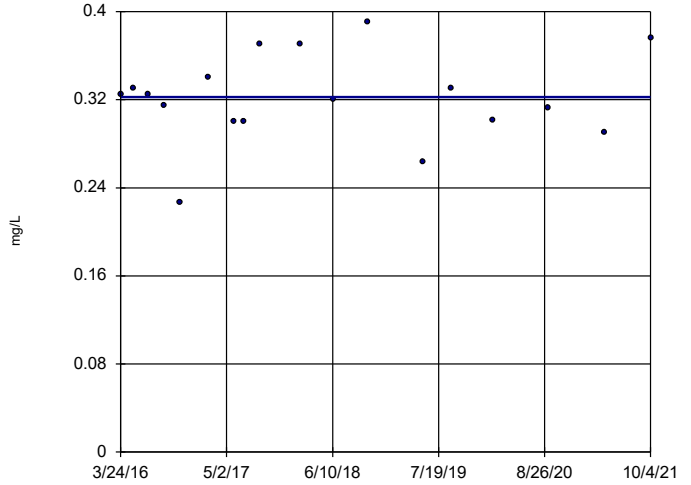
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 1/11/2022 10:27 PM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston GSA

Sen's Slope Estimator

GN-GSA-MW-1



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 1 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

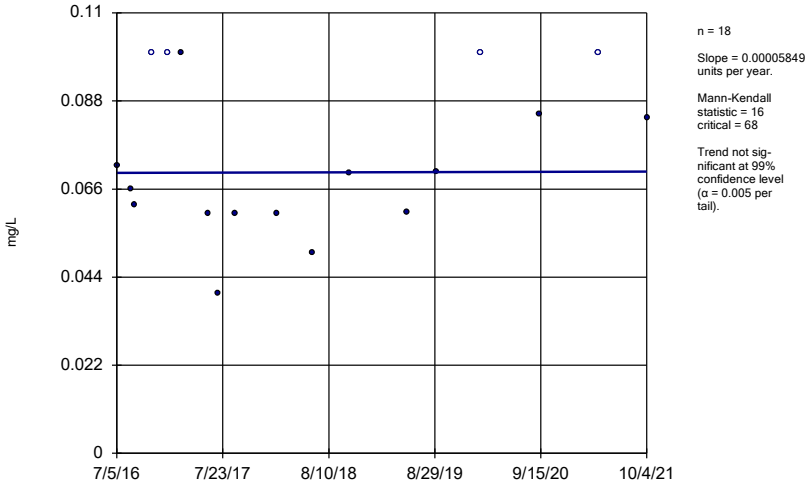
Constituent: Fluoride Analysis Run 1/11/2022 10:27 PM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-GSA-MW-14S (bg)



n = 18

Slope = 0.00005849 units per year.

Mann-Kendall statistic = 16
critical = 68

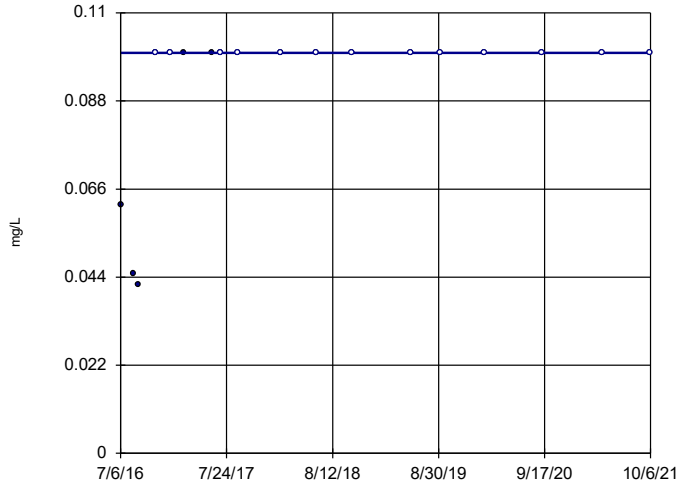
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 1/11/2022 10:27 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-GSA-MW-15 (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 42
critical = 68

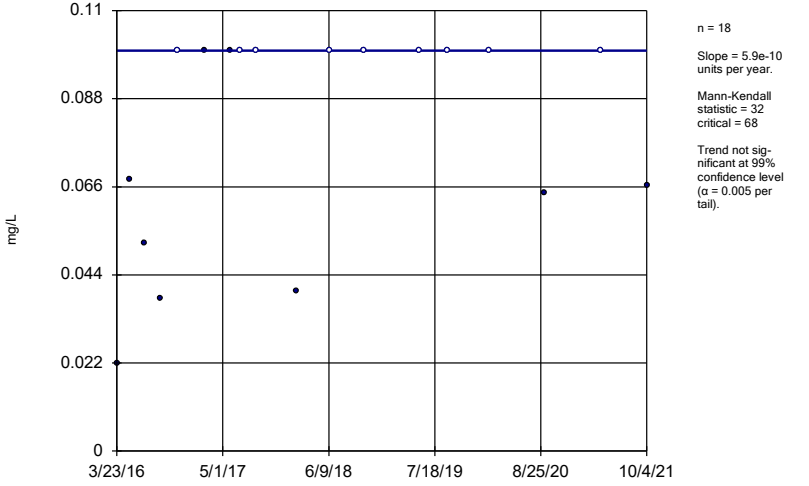
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 1/11/2022 10:27 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-GSA-MW-2 (bg)



n = 18

Slope = 5.9e-10 units per year.

Mann-Kendall statistic = 32
critical = 68

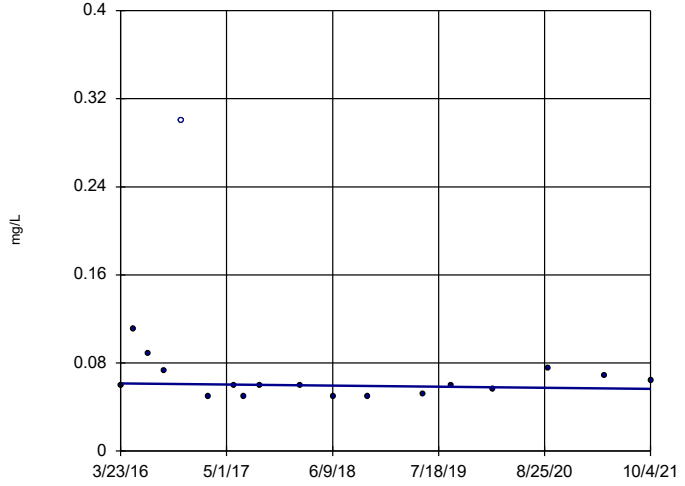
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 1/11/2022 10:27 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-GSA-MW-3 (bg)



n = 18

Slope = -0.0008696 units per year.

Mann-Kendall statistic = -21
critical = -68

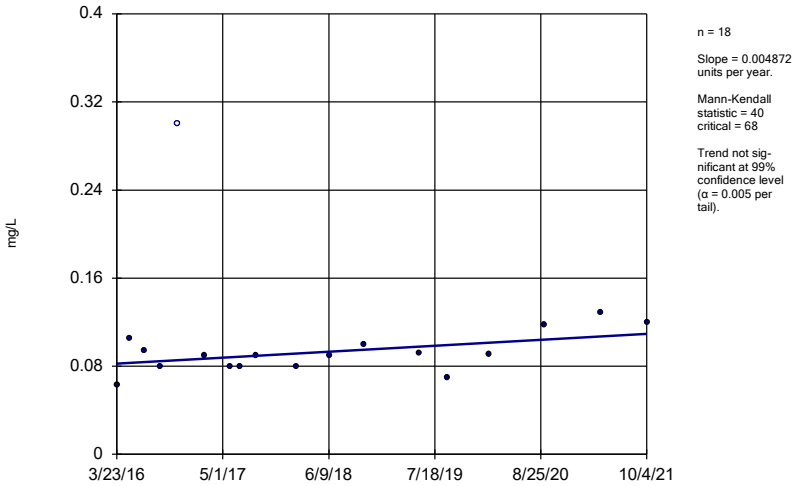
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 1/11/2022 10:27 PM 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-7



n = 18

Slope = 0.004872 units per year.

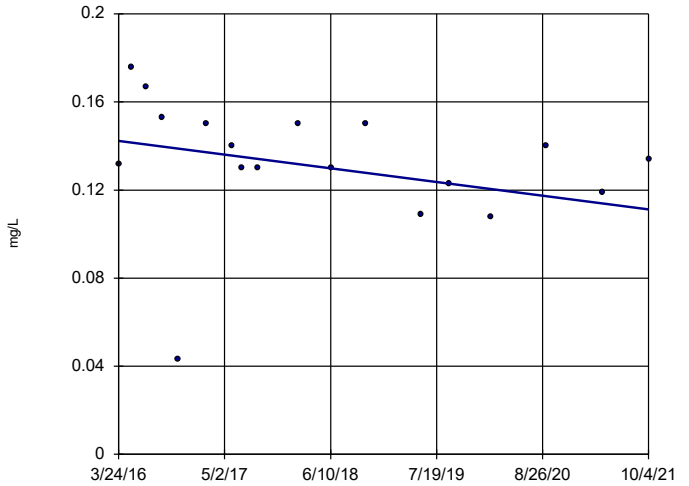
Mann-Kendall statistic = 40
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 1/11/2022 10:27 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sen's Slope Estimator

GN-GSA-MW-8



n = 18

Slope = -0.005615 units per year.

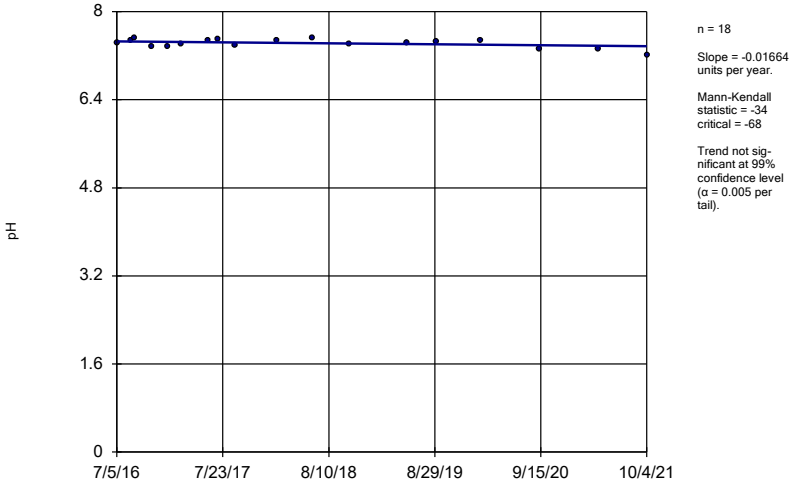
Mann-Kendall statistic = -56
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 1/11/2022 10:27 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sen's Slope Estimator

GN-GSA-MW-14S (bg)



n = 18

Slope = -0.01664 units per year.

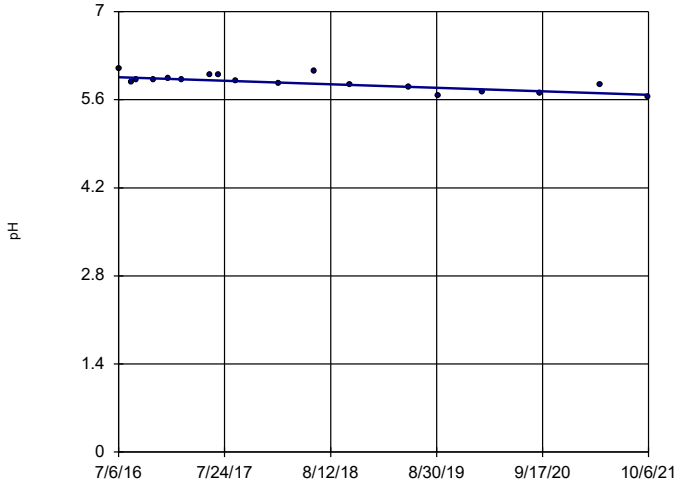
Mann-Kendall statistic = -34
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 1/11/2022 10:27 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sen's Slope Estimator

GN-GSA-MW-15 (bg)



n = 18

Slope = -0.05303 units per year.

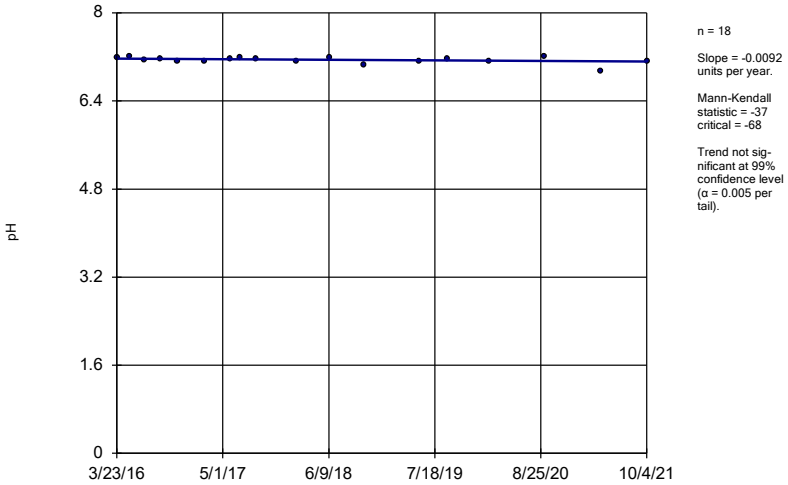
Mann-Kendall statistic = -86
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 1/11/2022 10:27 PM 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 = -0.0092 units per year.

Mann-Kendall statistic = -37
critical = -68

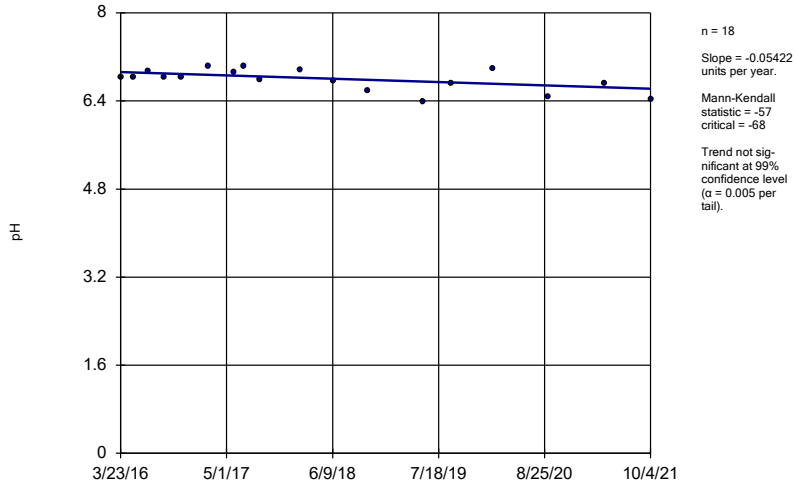
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 1/11/2022 10:27 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-3 (bg)



n = 18

Slope = -0.05422 units per year.

Mann-Kendall statistic = -57
critical = -68

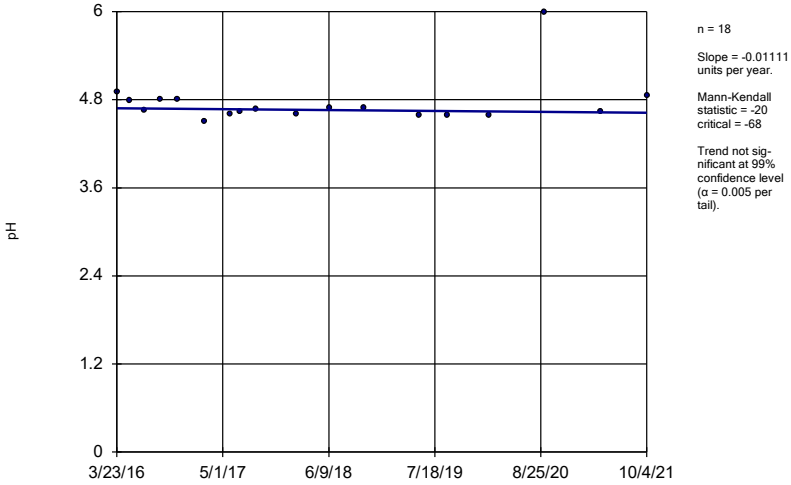
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 1/11/2022 10:27 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-6



n = 18

Slope = -0.01111 units per year.

Mann-Kendall statistic = -20
critical = -68

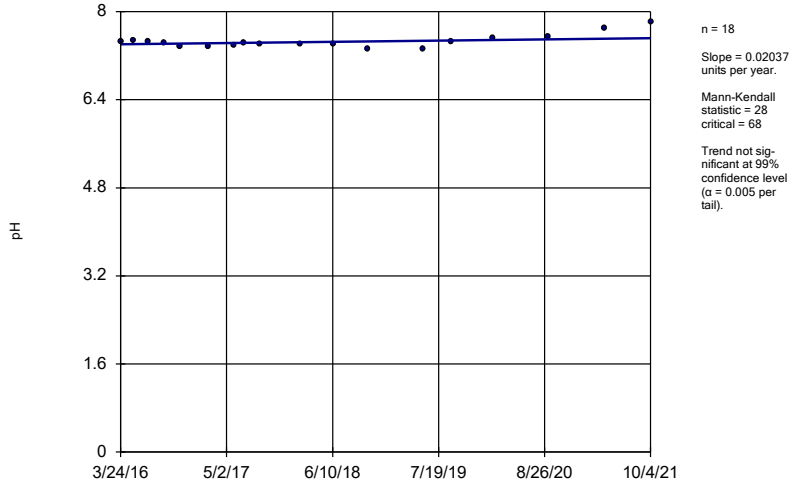
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 1/11/2022 10:27 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-8



n = 18

Slope = 0.02037 units per year.

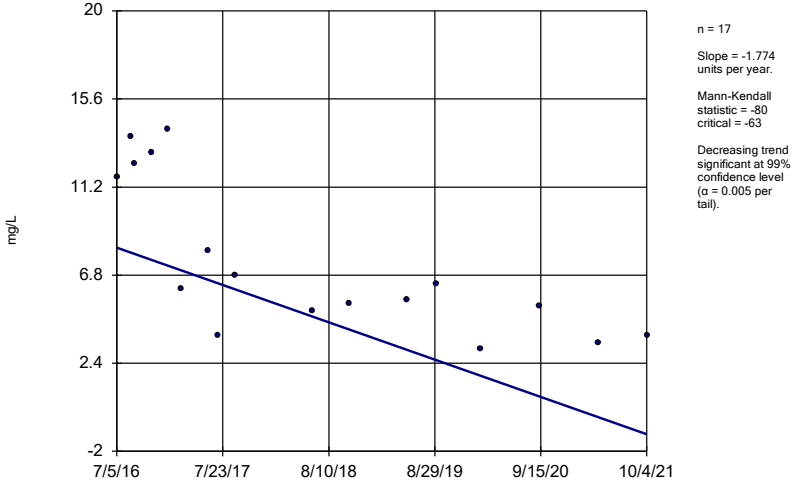
Mann-Kendall statistic = 28
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 1/11/2022 10:27 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sen's Slope Estimator

GN-GSA-MW-14S (bg)



n = 17

Slope = -1.774 units per year.

Mann-Kendall statistic = -80 critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

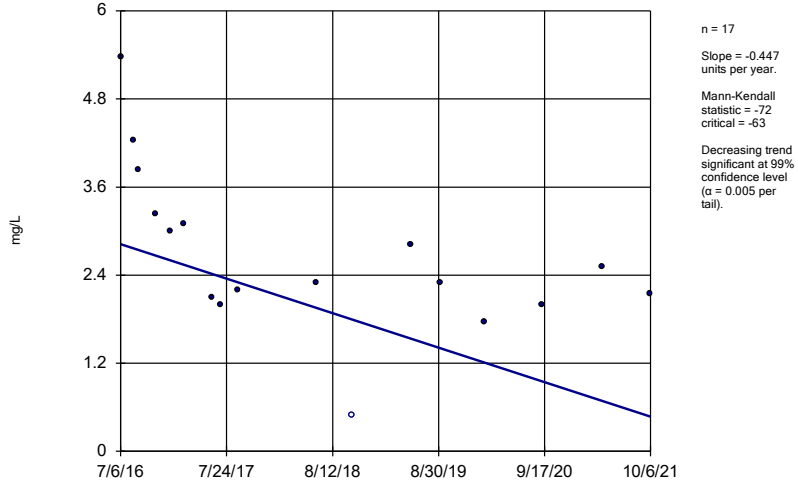
Constituent: Sulfate Analysis Run 1/11/2022 10:27 PM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston GSA

Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-GSA-MW-15 (bg)



n = 17

Slope = -0.447 units per year.

Mann-Kendall statistic = -72 critical = -63

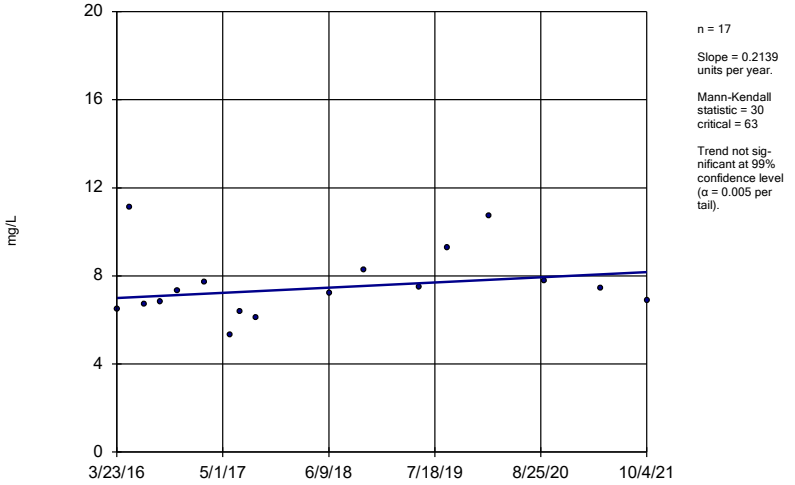
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 1/11/2022 10:27 PM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston GSA

Sen's Slope Estimator

GN-GSA-MW-2 (bg)



n = 17

Slope = 0.2139 units per year.

Mann-Kendall statistic = 30 critical = 63

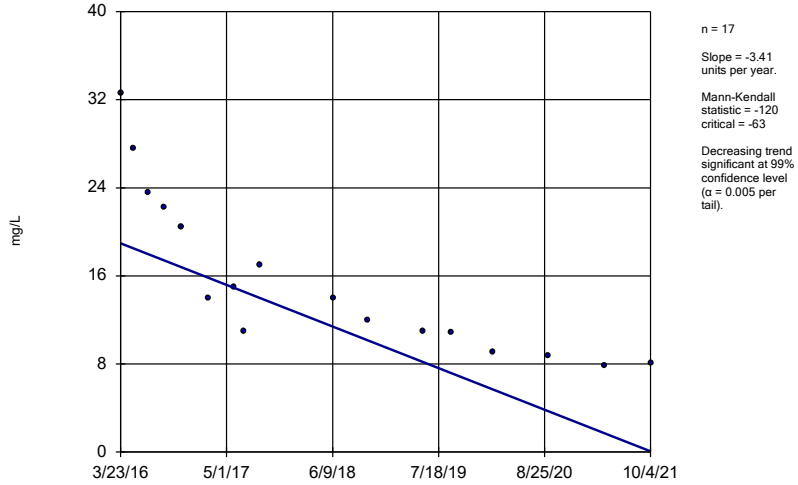
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 1/11/2022 10:27 PM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston GSA

Sen's Slope Estimator

GN-GSA-MW-3 (bg)



n = 17

Slope = -3.41 units per year.

Mann-Kendall statistic = -120 critical = -63

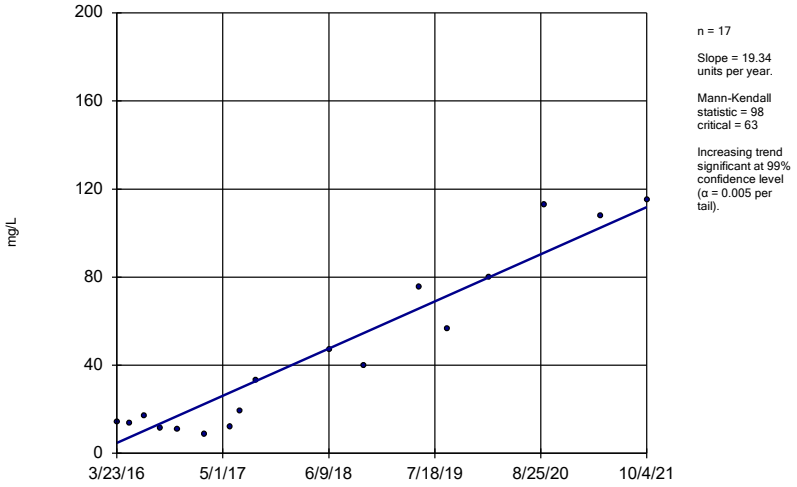
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 1/11/2022 10:27 PM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston GSA

Sen's Slope Estimator

GN-GSA-MW-5



n = 17

Slope = 19.34 units per year.

Mann-Kendall statistic = 98
critical = 63

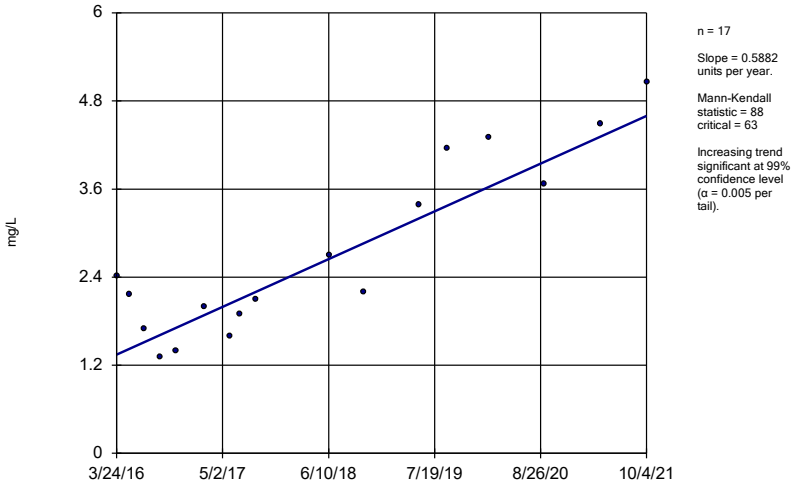
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 1/11/2022 10:27 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-8



n = 17

Slope = 0.5882 units per year.

Mann-Kendall statistic = 88
critical = 63

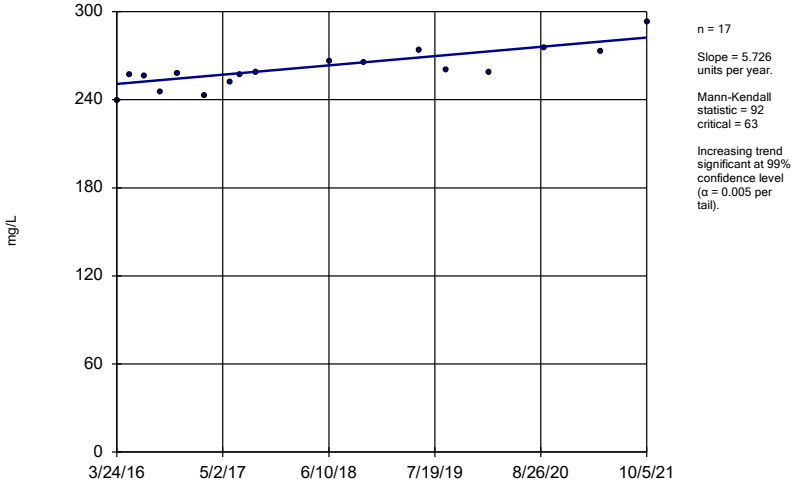
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 1/11/2022 10:27 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-10



n = 17

Slope = 5.726 units per year.

Mann-Kendall statistic = 92
critical = 63

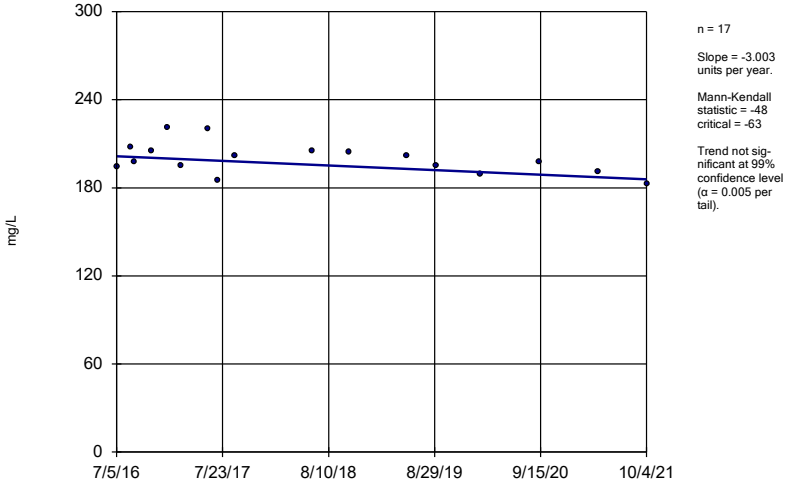
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 1/11/2022 10:27 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-GSA-MW-14S (bg)



n = 17

Slope = -3.003 units per year.

Mann-Kendall statistic = -48
critical = -63

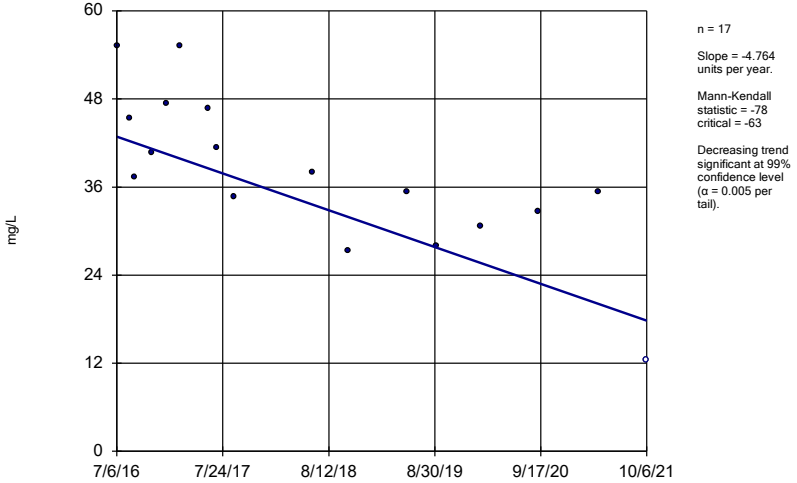
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 1/11/2022 10:27 PM 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 = 17

Slope = -4.764 units per year.

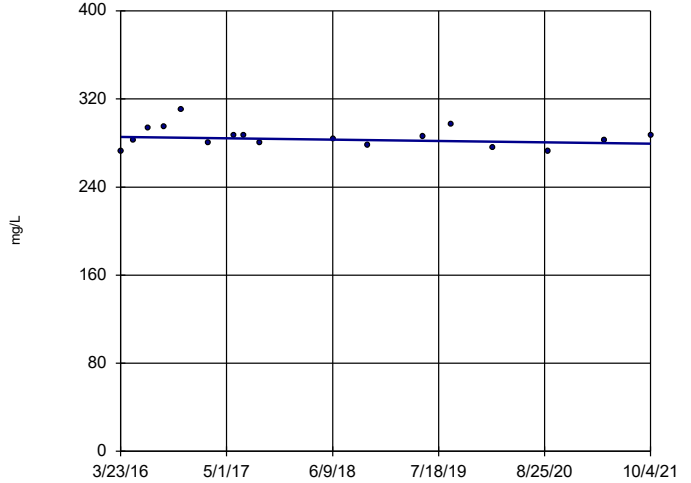
Mann-Kendall statistic = -78
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 1/11/2022 10:27 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sen's Slope Estimator

GN-GSA-MW-2 (bg)



n = 17

Slope = -1.13 units per year.

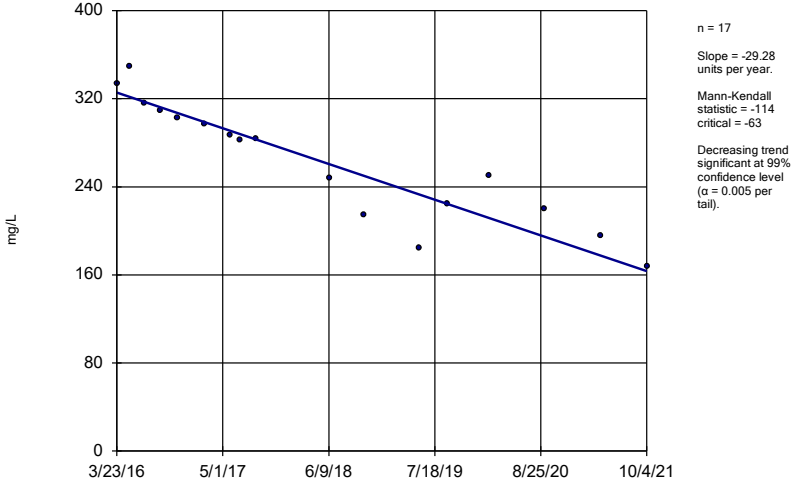
Mann-Kendall statistic = -16
critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 1/11/2022 10:27 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sen's Slope Estimator

GN-GSA-MW-3 (bg)



n = 17

Slope = -29.28 units per year.

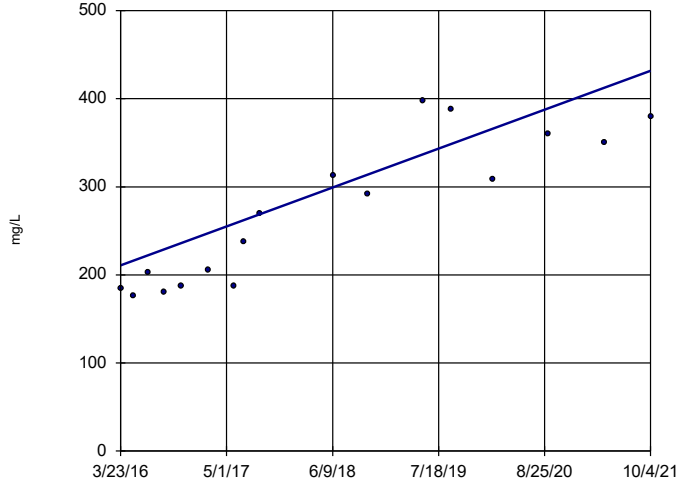
Mann-Kendall statistic = -114
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 1/11/2022 10:27 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

Sen's Slope Estimator

GN-GSA-MW-5



n = 17

Slope = 39.87 units per year.

Mann-Kendall statistic = 99
critical = 63

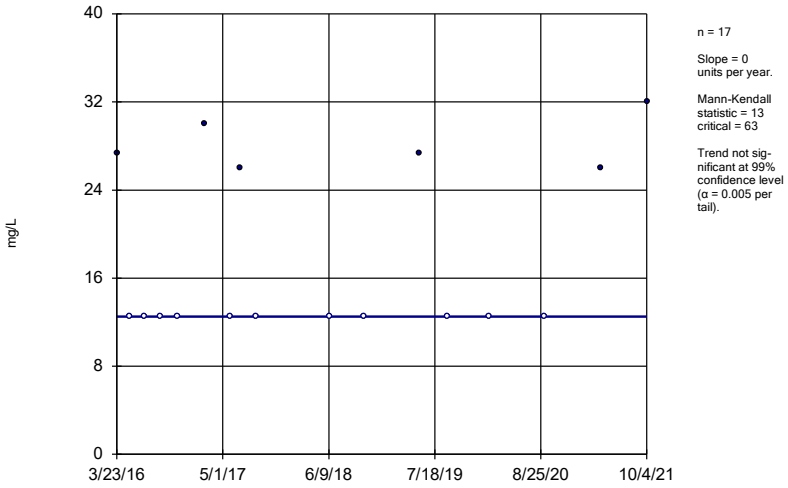
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 1/11/2022 10:27 PM 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-6



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = 13
critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 1/11/2022 10:27 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

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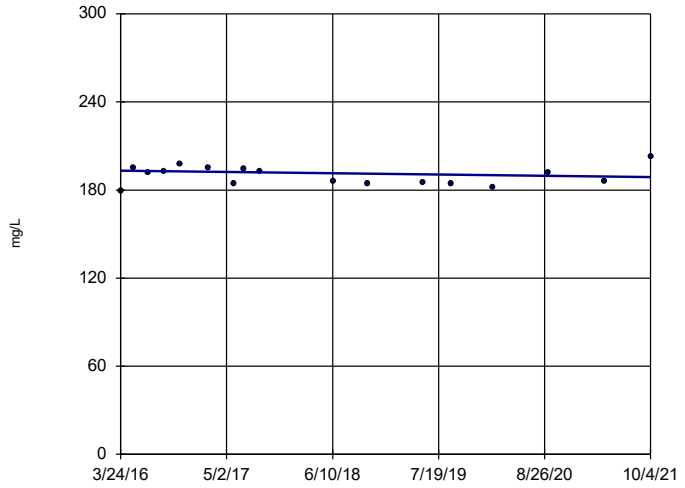
Sen's Slope Estimator

GN-GSA-MW-8



n = 17

Slope = -0.7916 units per year.

Mann-Kendall statistic = -17
critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 1/11/2022 10:27 PM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston GSA

FIGURE I.

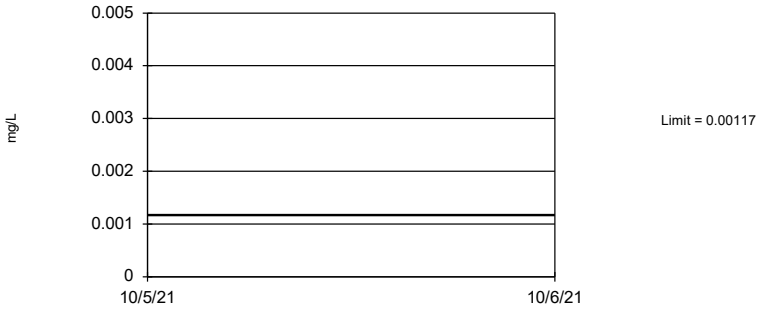
Upper Tolerance Limits - Summary Table

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

Tolerance Limit

Interwell Non-parametric



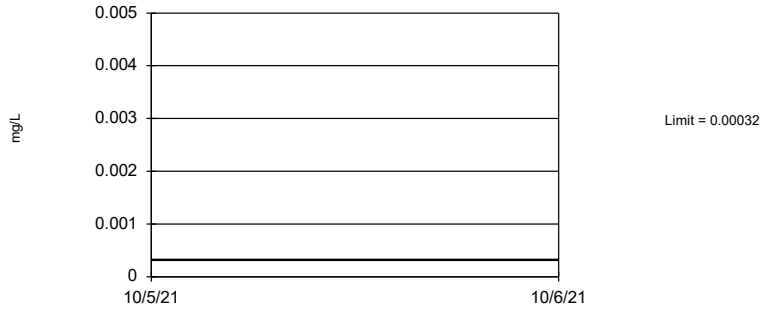
NP test selected by user. Limit is highest of 68 background values. 95.59% NDs. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

Constituent: Antimony Analysis Run 1/11/2022 10:38 PM View: Appendix IV - UTLs
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



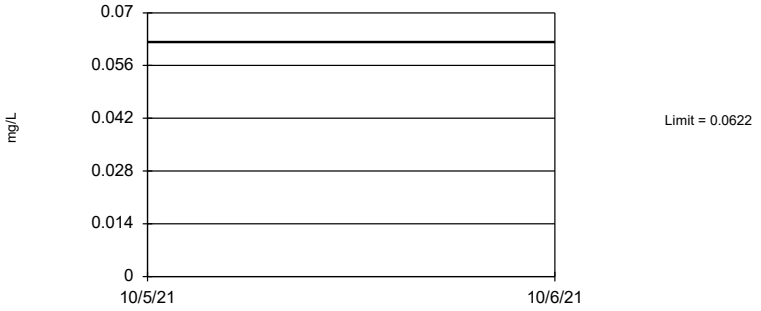
NP test selected by user. Limit is highest of 68 background values. 89.71% NDs. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

Constituent: Arsenic Analysis Run 1/11/2022 10:38 PM View: Appendix IV - UTLs
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



NP test selected by user. Limit is highest of 68 background values. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

Constituent: Barium Analysis Run 1/11/2022 10:38 PM View: Appendix IV - UTLs
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Tolerance Limit

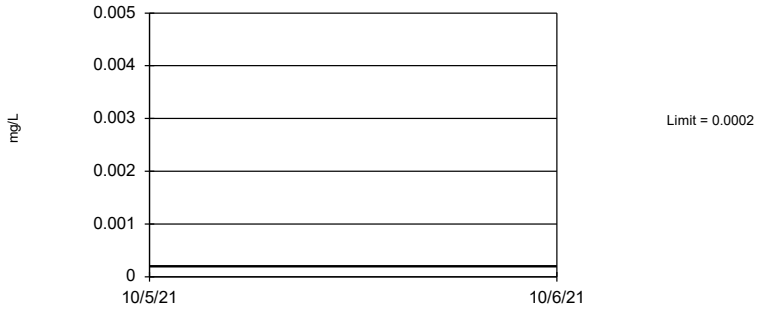
Interwell Non-parametric

NP test selected by user. All background values were censored; limit is most recent reporting limit. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

Constituent: Beryllium Analysis Run 1/11/2022 10:38 PM View: Appendix IV - UTLs
Plant Gaston Client: Southern Company Data: Gaston GSA

Tolerance Limit

Interwell Non-parametric



NP test selected by user. All background values were censored; limit is most recent reporting limit. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

Constituent: Cadmium Analysis Run 1/11/2022 10:38 PM View: Appendix IV - UTLs

Plant Gaston Client: Southern Company Data: Gaston GSA

Tolerance Limit

Interwell Non-parametric

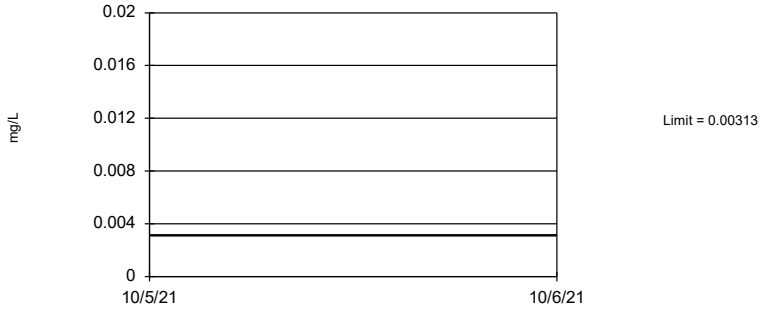
NP test selected by user. Limit is highest of 68 background values. 89.71% NDs. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

Constituent: Chromium Analysis Run 1/11/2022 10:38 PM View: Appendix IV - UTLs

Plant Gaston Client: Southern Company Data: Gaston GSA

Tolerance Limit

Interwell Non-parametric



NP test selected by user. Limit is highest of 68 background values. 94.12% NDs. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

Constituent: Cobalt Analysis Run 1/11/2022 10:38 PM View: Appendix IV - UTLs

Plant Gaston Client: Southern Company Data: Gaston GSA

Tolerance Limit

Interwell Non-parametric

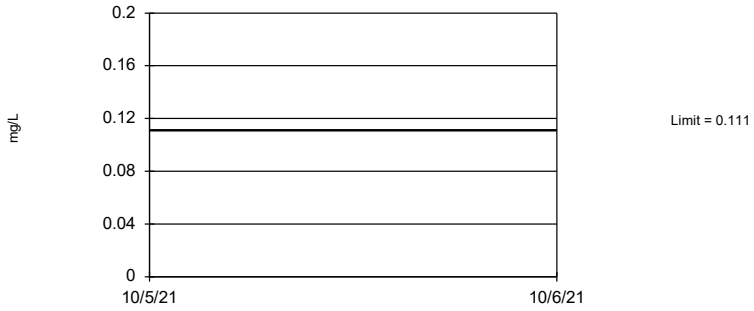
NP test selected by user. Limit is highest of 68 background values. 2.941% NDs. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

Constituent: Combined Radium 226 + 228 Analysis Run 1/11/2022 10:38 PM View: Appendix IV - UTLs

Plant Gaston Client: Southern Company Data: Gaston GSA

Tolerance Limit

Interwell Non-parametric



NP test selected by user. Limit is highest of 72 background values. 37.5% NDs. 93.95% coverage at alpha=0.01; 95.9% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.02489.

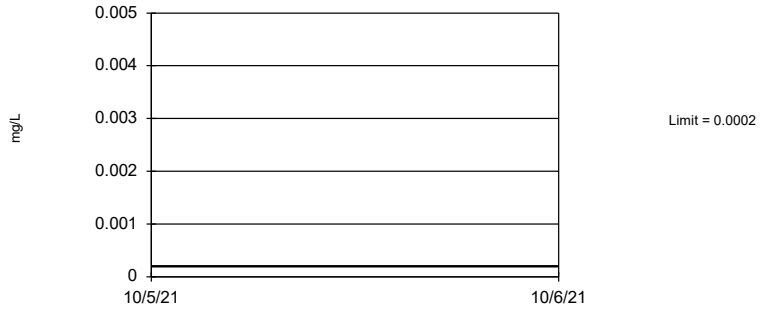
Constituent: Fluoride Analysis Run 1/11/2022 10:38 PM View: Appendix IV - UTLs

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



NP test selected by user. All background values were censored; limit is most recent reporting limit. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

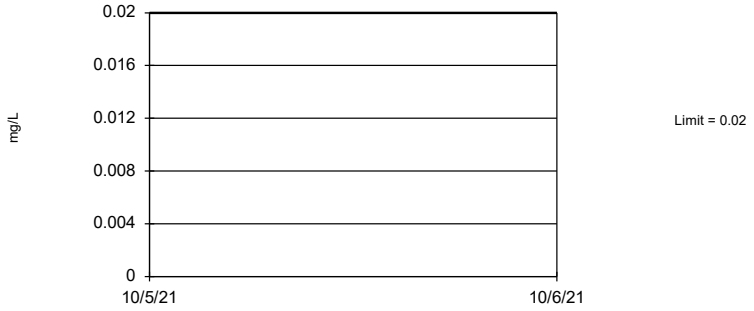
Constituent: Lead Analysis Run 1/11/2022 10:38 PM View: Appendix IV - UTLs

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



NP test selected by user. All background values were censored; limit is most recent reporting limit. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

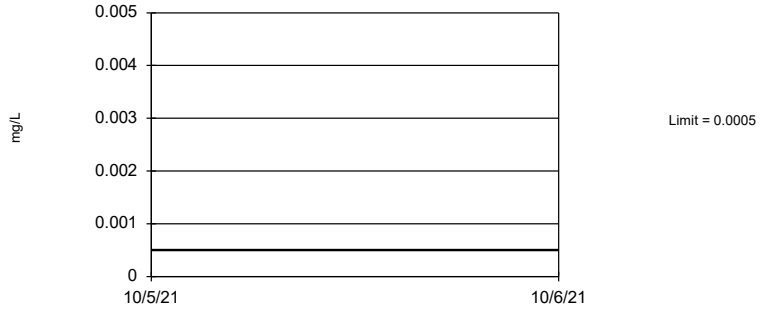
Constituent: Lithium Analysis Run 1/11/2022 10:38 PM View: Appendix IV - UTLs

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



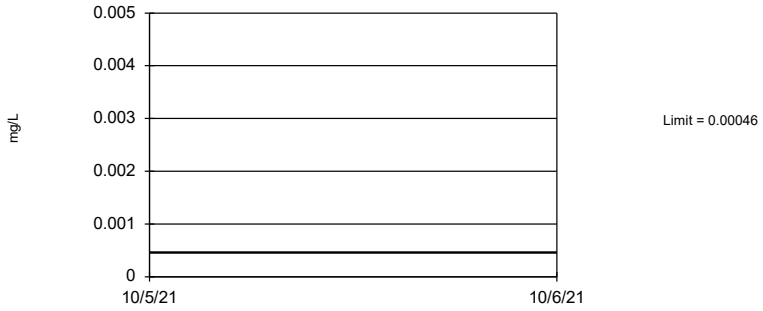
NP test selected by user. All background values were censored; limit is most recent reporting limit. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

Constituent: Mercury Analysis Run 1/11/2022 10:38 PM View: Appendix IV - UTLs

Plant Gaston Client: Southern Company Data: Gaston GSA

Tolerance Limit

Interwell Non-parametric



NP test selected by user. Limit is highest of 68 background values. 92.65% NDs. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

Constituent: Molybdenum Analysis Run 1/11/2022 10:38 PM View: Appendix IV - UTLs

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric

NP test selected by user. Limit is highest of 68 background values. 98.53% NDs. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

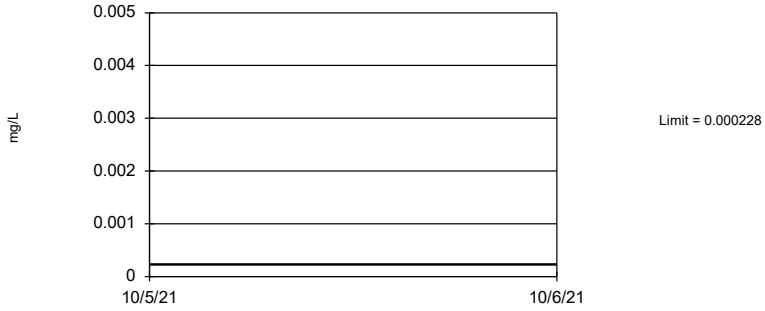
Constituent: Selenium Analysis Run 1/11/2022 10:38 PM View: Appendix IV - UTLs

Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



NP test selected by user. Limit is highest of 68 background values. 98.53% NDs. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

Constituent: Thallium Analysis Run 1/11/2022 10:38 PM View: Appendix IV - UTLs

Plant Gaston Client: Southern Company Data: Gaston GSA

FIGURE J.

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.

FIGURE K.

Confidence Intervals Summary Table - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 1/11/2022, 10:50 PM

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**	**2.491**	**2.007**	**2**	**Yes**	**8**	**2.249**	**0.2282**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Intervals Summary Table - All Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 1/11/2022, 10:50 PM

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	0.008927	0.00364	0.01	No	8	0.006284	0.002494	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-GSA-MW-10	0.005	0.00007	0.01	No	8	0.00377	0.002278	75	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-11	0.005	0.0000935	0.01	No	8	0.003775	0.002267	75	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-12	0.005	0.00023	0.01	No	8	0.00382	0.002185	75	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-13	0.005	0.00012	0.01	No	8	0.003599	0.00219	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-5	0.00265	0.0006386	0.01	No	8	0.002483	0.001785	25	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	GN-GSA-MW-6	0.005	0.00008	0.01	No	8	0.003772	0.002273	75	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-7	0.005	0.00029	0.01	No	8	0.003345	0.002293	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-8	0.001415	0.001183	0.01	No	8	0.001299	0.0001095	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-GSA-MW-9	0.005	0.00014	0.01	No	8	0.003797	0.002227	75	None	No	0.004	NP (NDs)
Barium (mg/L)	**GN-GSA-MW-1**	**2.491**	**2.007**	**2**	**Yes**	**8**	**2.249**	**0.2282**	**0**	**None**	**No**	**0.01**	**Param.**
Barium (mg/L)	GN-GSA-MW-10	0.03811	0.03294	2	No	8	0.03553	0.002437	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-11	0.007439	0.004738	2	No	8	0.006089	0.001274	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-12	0.02365	0.01868	2	No	8	0.02116	0.002342	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-13	0.0697	0.0369	2	No	8	0.04574	0.01031	0	None	No	0.004	NP (normality)
Barium (mg/L)	GN-GSA-MW-5	0.07284	0.04504	2	No	8	0.05894	0.01312	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-6	0.01797	0.01558	2	No	8	0.01678	0.00113	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-7	0.0229	0.01557	2	No	8	0.01924	0.003455	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-8	0.0314	0.0257	2	No	8	0.02794	0.002508	0	None	No	0.004	NP (normality)
Barium (mg/L)	GN-GSA-MW-9	0.02654	0.02226	2	No	8	0.0244	0.002016	0	None	No	0.01	Param.
Cadmium (mg/L)	GN-GSA-MW-10	0.000203	0.00008	0.005	No	8	0.0001876	0.00004349	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-1	0.001015	0.00021	0.1	No	8	0.0009144	0.0002846	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-10	0.001015	0.00023	0.1	No	8	0.0009169	0.0002775	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-11	0.001015	0.0003	0.1	No	8	0.0009256	0.0002528	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-12	0.001015	0.00029	0.1	No	8	0.0009244	0.0002563	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-13	0.002	0.000518	0.1	No	8	0.001018	0.0004525	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-5	0.001015	0.00028	0.1	No	8	0.0009231	0.0002599	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-6	0.001015	0.00025	0.1	No	8	0.0008246	0.0003525	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-7	0.001015	0.000361	0.1	No	8	0.0008764	0.0002621	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-8	0.001015	0.000291	0.1	No	8	0.0008439	0.0003176	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-9	0.001015	0.00021	0.1	No	8	0.000822	0.0003578	75	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-11	0.005	0.00212	0.006	No	8	0.002831	0.0009252	12.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-GSA-MW-12	0.005	0.000218	0.006	No	8	0.00383	0.002168	75	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-13	0.005	0.0001	0.006	No	8	0.003782	0.002255	75	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-5	0.005013	-0.002871	0.006	No	8	0.00403	0.001738	25	Kaplan-Meier	x^6	0.01	Param.
Cobalt (mg/L)	GN-GSA-MW-6	0.005	0.00065	0.006	No	8	0.003916	0.002006	75	Kaplan-Meier	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-7	0.005	0.00033	0.006	No	8	0.003534	0.002088	62.5	Kaplan-Meier	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-8	0.005	0.000123	0.006	No	8	0.003783	0.002254	75	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-9	0.005	0.0000816	0.006	No	8	0.003811	0.002203	75	None	No	0.004	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-1	1.75	0.8521	5	No	8	1.291	0.4859	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-10	2.244	0.1179	5	No	8	1.139	1.659	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-11	1.795	0.07763	5	No	8	0.8739	1.091	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-12	1.412	0.2587	5	No	8	0.8353	0.544	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-13	2.362	0.007491	5	No	8	0.924	1.258	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-5	1.081	0.06555	5	No	8	0.5733	0.479	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-6	1.25	0.1395	5	No	8	0.6946	0.5237	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-7	0.9814	0.1448	5	No	8	0.5631	0.3946	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-8	0.8297	0.08983	5	No	8	0.4598	0.349	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-9	0.8515	0.1487	5	No	8	0.4841	0.3661	0	None	sqrt(x)	0.01	Param.

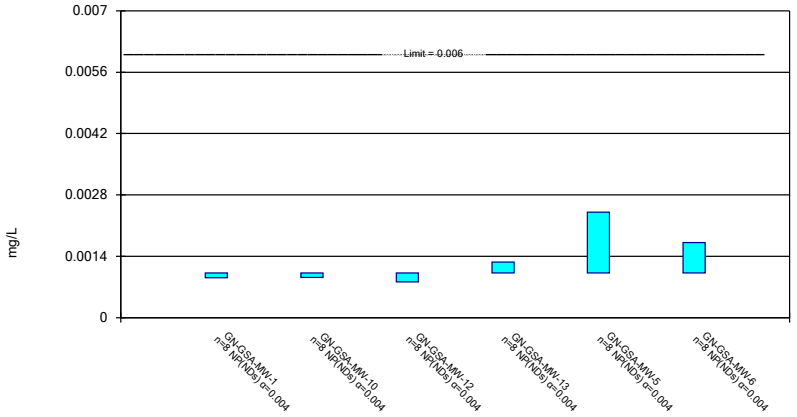
Confidence Intervals Summary Table - All Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 1/11/2022, 10:50 PM

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	0.3678	0.2782	4	No	8	0.323	0.04227	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-GSA-MW-10	0.1	0.0617	4	No	8	0.09521	0.01354	87.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-GSA-MW-11	0.1	0.1	4	No	8	0.1	0	100	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-GSA-MW-12	0.1	0.0547	4	No	8	0.07078	0.01847	25	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-GSA-MW-13	0.0827	0.04445	4	No	8	0.06358	0.01804	12.5	None	No	0.01	Param.
Fluoride (mg/L)	GN-GSA-MW-5	0.1	0.04	4	No	8	0.08505	0.02292	50	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-GSA-MW-7	0.1221	0.08046	4	No	8	0.1013	0.01962	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-GSA-MW-8	0.1422	0.111	4	No	8	0.1266	0.01474	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-GSA-MW-9	0.07574	0.04279	4	No	8	0.0694	0.02518	25	Kaplan-Meier	ln(x)	0.01	Param.
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	0.00031	0.0002	0.015	No	8	0.0002269	0.00004978	75	None	No	0.004	NP (NDs)
Lithium (mg/L)	GN-GSA-MW-1	0.02	0.00953	0.04	No	8	0.01616	0.005306	62.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-GSA-MW-1	0.005939	0.003664	0.1	No	8	0.004801	0.001073	0	None	No	0.01	Param.
Molybdenum (mg/L)	GN-GSA-MW-12	0.01	0.000298	0.1	No	8	0.007578	0.004484	75	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-GSA-MW-13	0.01	0.00016	0.1	No	8	0.007542	0.004552	75	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-GSA-MW-5	0.01	0.00009	0.1	No	8	0.007523	0.004587	75	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-GSA-MW-7	0.01	0.00025	0.1	No	8	0.007566	0.004507	75	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-GSA-MW-8	0.004107	0.003151	0.1	No	8	0.003629	0.0004511	0	None	No	0.01	Param.
Molybdenum (mg/L)	GN-GSA-MW-9	0.01	0.000207	0.1	No	8	0.007566	0.004507	75	None	No	0.004	NP (NDs)

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

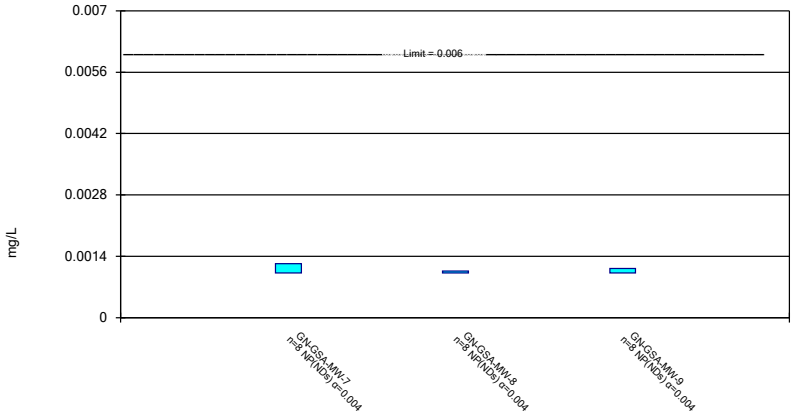


Constituent: Antimony Analysis Run 1/11/2022 10:49 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

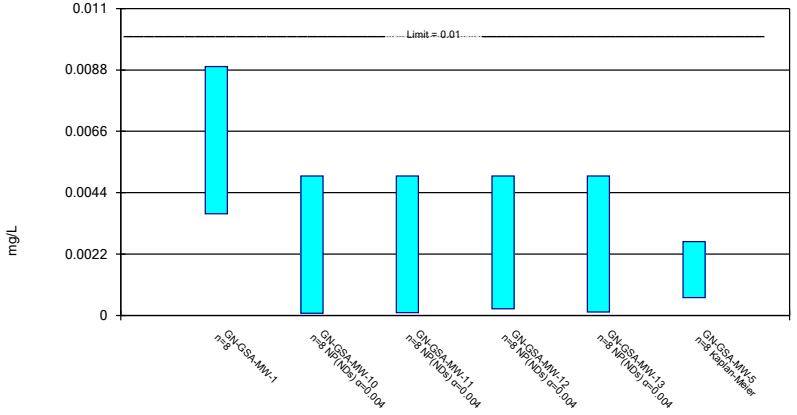


Constituent: Antimony Analysis Run 1/11/2022 10:49 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 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.

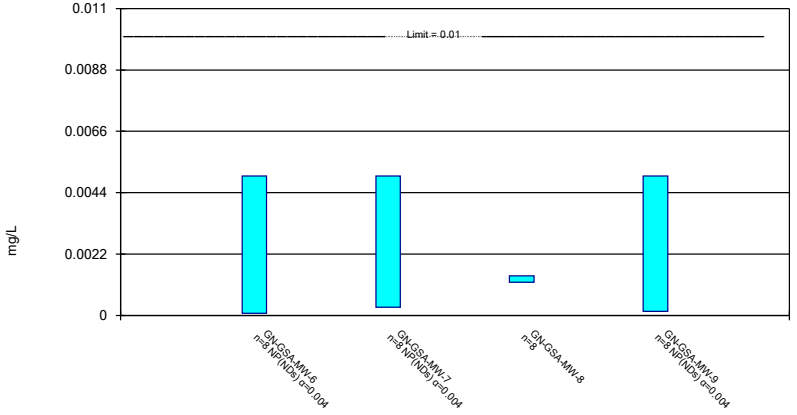


Constituent: Arsenic Analysis Run 1/11/2022 10:49 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

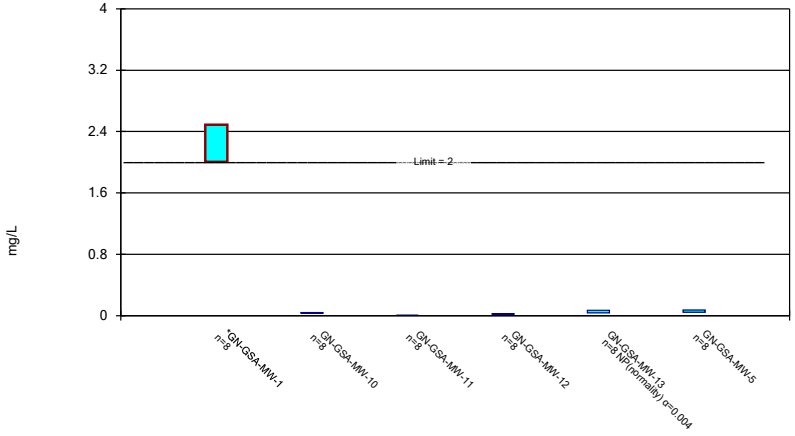
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 1/11/2022 10:49 PM 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.

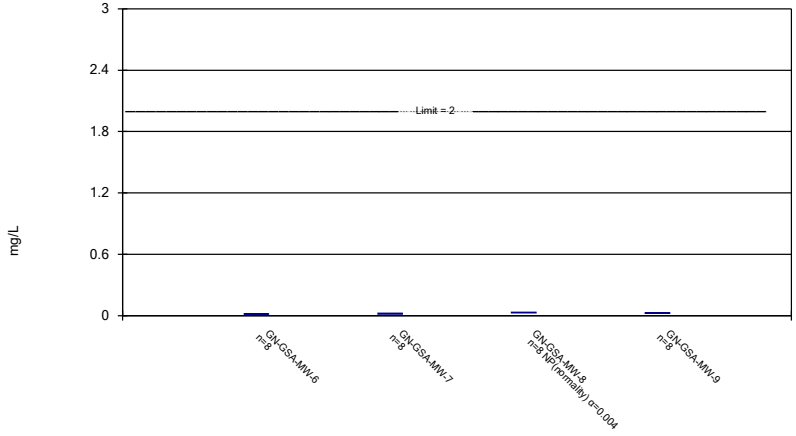


Constituent: Barium Analysis Run 1/11/2022 10:49 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 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.

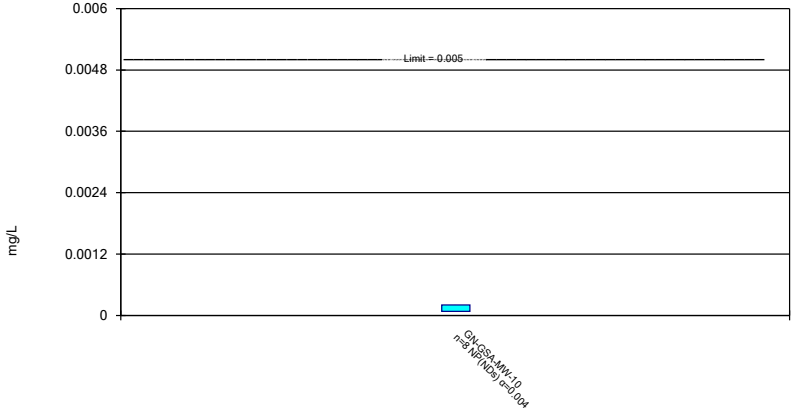


Constituent: Barium Analysis Run 1/11/2022 10:49 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

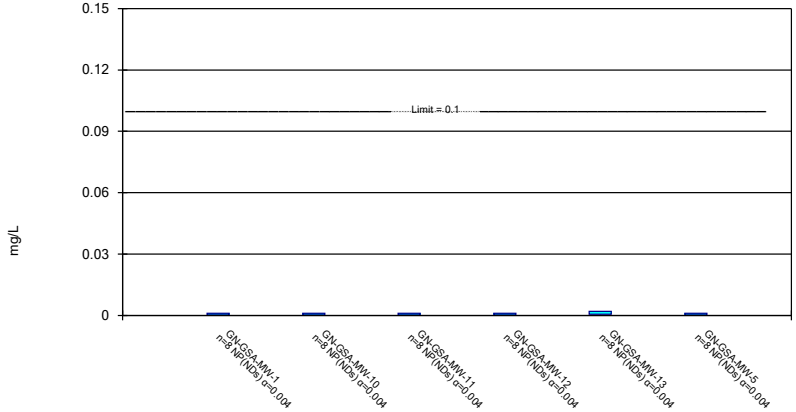


Constituent: Cadmium Analysis Run 1/11/2022 10:49 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Sanitas™ v.9.6.32 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

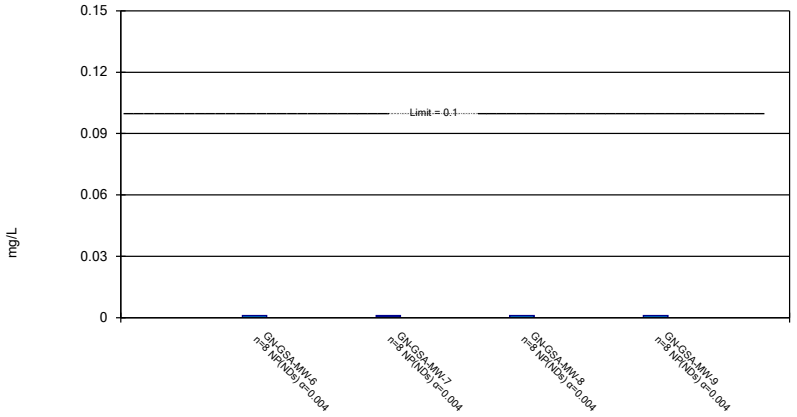
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 1/11/2022 10:49 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Non-Parametric Confidence Interval

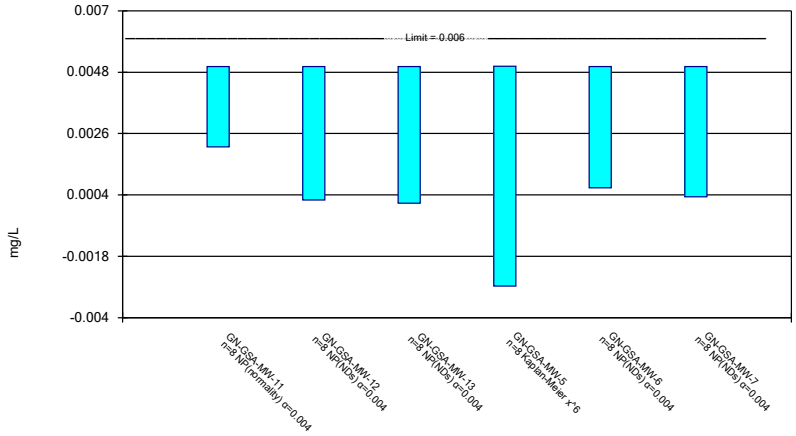
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 1/11/2022 10:49 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Parametric and Non-Parametric (NP) Confidence Interval

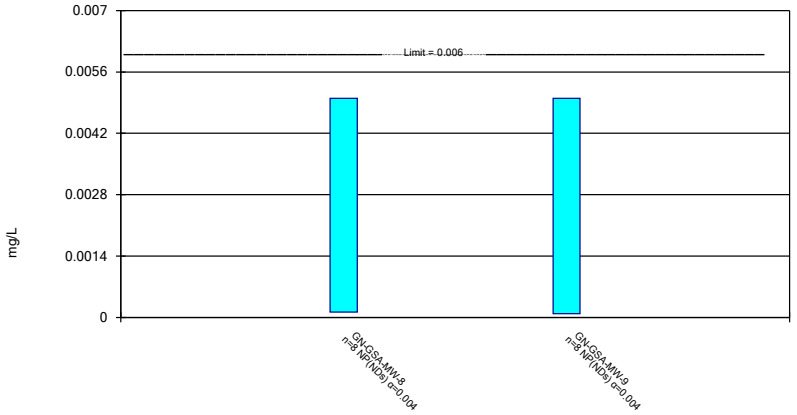
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 1/11/2022 10:49 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Non-Parametric Confidence Interval

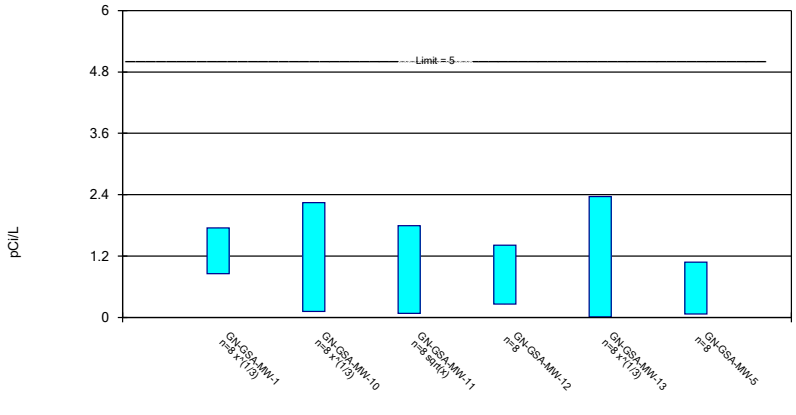
Compliance Limit is not exceeded.



Constituent: Cobalt Analysis Run 1/11/2022 10:49 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Parametric Confidence Interval

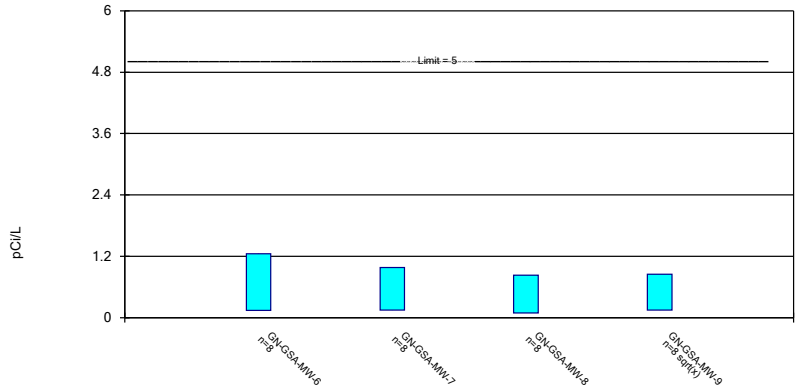
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 1/11/2022 10:49 PM 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.

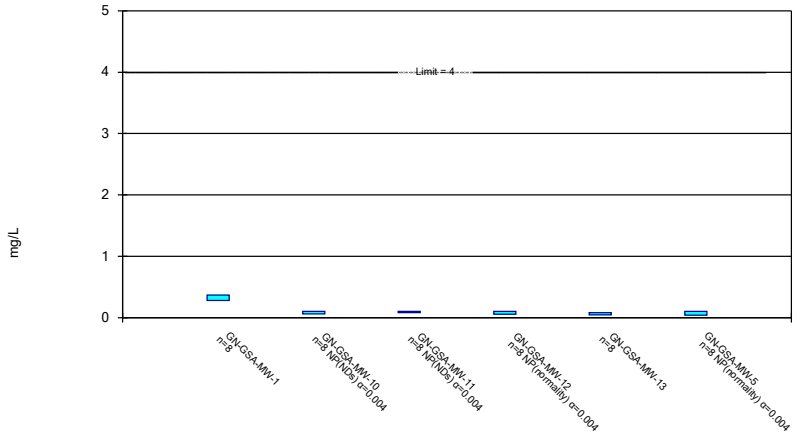


Constituent: Combined Radium 226 + 228 Analysis Run 1/11/2022 10:49 PM View: Appendix IV

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.

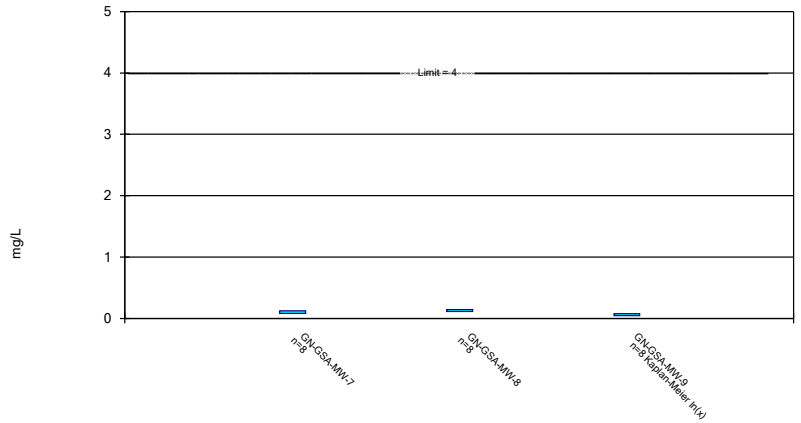


Constituent: Fluoride Analysis Run 1/11/2022 10:49 PM View: Appendix IV

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.

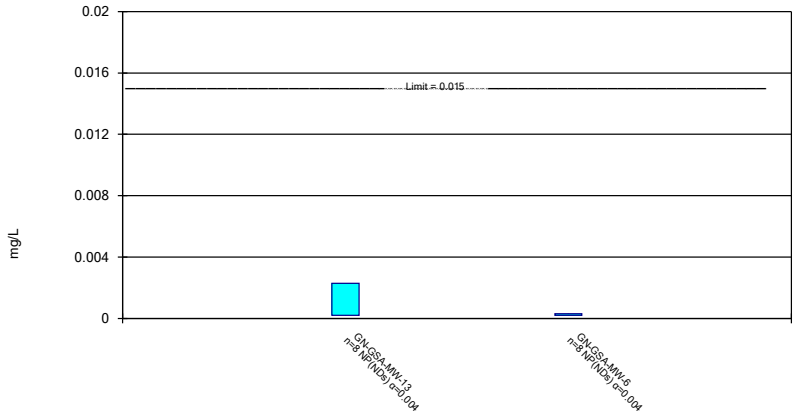


Constituent: Fluoride Analysis Run 1/11/2022 10:49 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

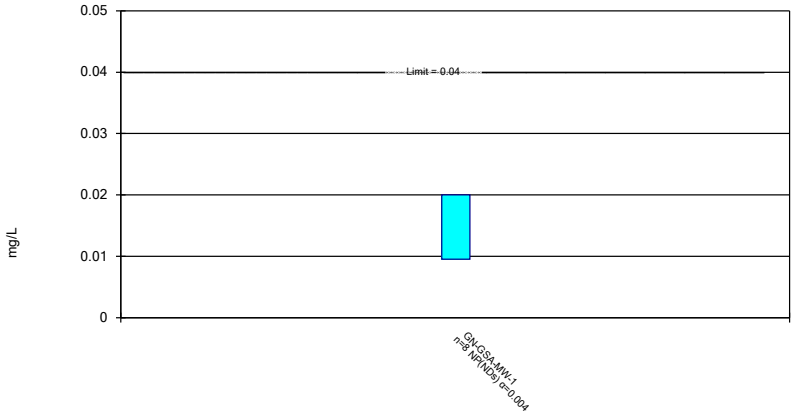


Constituent: Lead Analysis Run 1/11/2022 10:49 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

Non-Parametric Confidence Interval

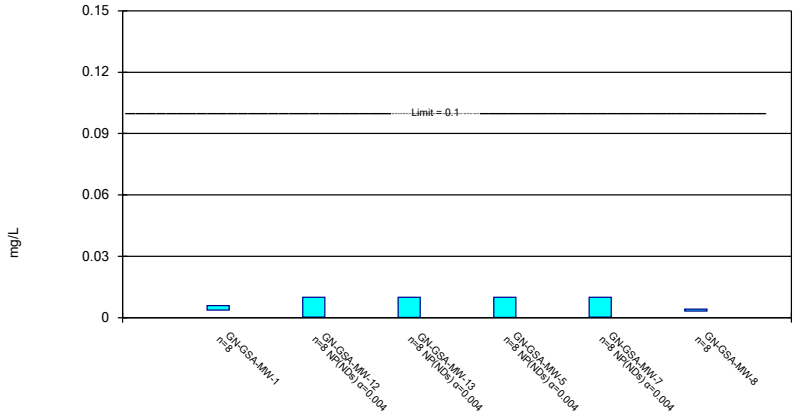
Compliance Limit is not exceeded.



Constituent: Lithium Analysis Run 1/11/2022 10:49 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Parametric and Non-Parametric (NP) Confidence Interval

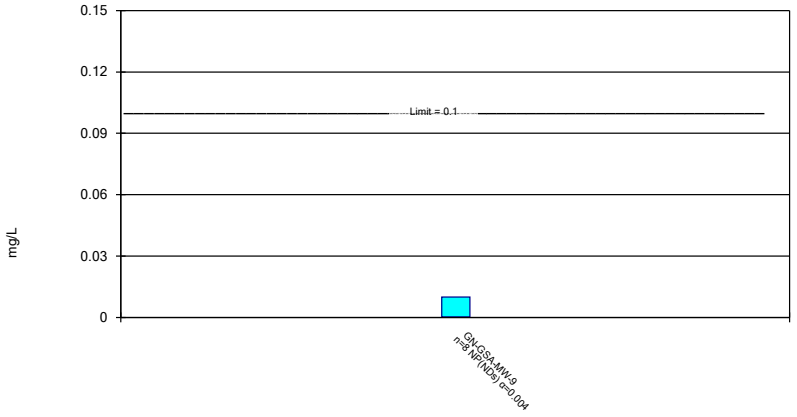
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 1/11/2022 10:49 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Molybdenum Analysis Run 1/11/2022 10:49 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston GSA

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 1/11/2022 10:50 PM 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
6/11/2018					<0.00102	<0.00102
6/12/2018	<0.00102	<0.00102	<0.00102	<0.00102		
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			
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 1/11/2022 10:50 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
6/11/2018	<0.00102		
6/12/2018		<0.00102	<0.00102
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
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 1/11/2022 10:50 PM 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
6/11/2018						0.00119 (J)
6/12/2018	0.011	<0.005	<0.005	<0.005	<0.005	
10/22/2018						0.00188 (J)
10/23/2018	0.00829			<0.005	<0.005	
10/24/2018		<0.005	<0.005			
5/20/2019						0.00259 (J)
5/21/2019	0.00722	<0.005	<0.005	<0.005	0.00348 (J)	
9/3/2019		<0.005	<0.005			
9/4/2019	0.00534			<0.005	<0.005	0.00305 (J)
2/11/2020						<0.005
2/12/2020	0.0062	<0.005	<0.005	<0.005	<0.005	
9/8/2020		<0.005				<0.005
9/9/2020	0.0046 (J)		<0.005	<0.005	<0.005	
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		
Mean	0.006284	0.00377	0.003775	0.00382	0.003599	0.002483
Std. Dev.	0.002494	0.002278	0.002267	0.002185	0.00219	0.001785
Upper Lim.	0.008927	0.005	0.005	0.005	0.005	0.00265
Lower Lim.	0.00364	7E-05	9.35E-05	0.00023	0.00012	0.0006386

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 1/11/2022 10:50 PM 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
6/11/2018	<0.005	<0.005		
6/12/2018			0.00115 (J)	<0.005
10/22/2018	<0.005	<0.005	0.0015 (J)	<0.005
5/20/2019	<0.005	<0.005		
5/21/2019			0.00128 (J)	<0.005
9/3/2019			0.00118 (J)	<0.005
9/4/2019	<0.005	<0.005		
2/11/2020	<0.005	0.001 (J)		
2/12/2020			0.00133 (J)	<0.005
9/8/2020	<0.005			<0.005
9/9/2020		<0.005	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)
Mean	0.003772	0.003345	0.001299	0.003797
Std. Dev.	0.002273	0.002293	0.0001095	0.002227
Upper Lim.	0.005	0.005	0.001415	0.005
Lower Lim.	8E-05	0.00029	0.001183	0.00014

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 1/11/2022 10:50 PM 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
6/11/2018						0.056
6/12/2018	2.32	0.0342	0.00637 (J)	0.023	0.0469	
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		
Mean	2.249	0.03553	0.006089	0.02116	0.04574	0.05894
Std. Dev.	0.2282	0.002437	0.001274	0.002342	0.01031	0.01312
Upper Lim.	2.491	0.03811	0.007439	0.02365	0.0697	0.07284
Lower Lim.	2.007	0.03294	0.004738	0.01868	0.0369	0.04504

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 1/11/2022 10:50 PM 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
6/11/2018	0.0155	0.0196		
6/12/2018			0.0299	0.0259
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
Mean	0.01678	0.01924	0.02794	0.0244
Std. Dev.	0.00113	0.003455	0.002508	0.002016
Upper Lim.	0.01797	0.0229	0.0314	0.02654
Lower Lim.	0.01558	0.01557	0.0257	0.02226

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 1/11/2022 10:50 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-10
6/12/2018	<0.000203
10/24/2018	<0.000203
5/21/2019	<0.000203
9/3/2019	<0.000203
2/12/2020	<0.000203
9/8/2020	<0.000203
4/13/2021	<0.000203
10/5/2021	8E-05 (J)
Mean	0.0001876
Std. Dev.	4.349E-05
Upper Lim.	0.000203
Lower Lim.	8E-05

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 1/11/2022 10:50 PM 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
6/11/2018						<0.001015
6/12/2018	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
10/22/2018						<0.001015
10/23/2018	<0.001015			<0.001015	<0.001015	
10/24/2018		<0.001015	<0.001015			
5/20/2019						<0.001015
5/21/2019	<0.001015	<0.001015	<0.001015	<0.001015	0.002 (J)	
9/3/2019		<0.001015	<0.001015			
9/4/2019	<0.001015			<0.001015	<0.001015	<0.001015
2/11/2020						<0.001015
2/12/2020	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
9/8/2020		<0.001015				<0.001015
9/9/2020	<0.001015		<0.001015	<0.001015	<0.001015	
4/13/2021	<0.001015	<0.001015	<0.001015	<0.001015	0.000518 (J)	<0.001015
10/4/2021	0.00021 (J)				0.00055 (J)	0.00028 (J)
10/5/2021		0.00023 (J)	0.0003 (J)	0.00029 (J)		
Mean	0.0009144	0.0009169	0.0009256	0.0009244	0.001018	0.0009231
Std. Dev.	0.0002846	0.0002775	0.0002528	0.0002563	0.0004525	0.0002599
Upper Lim.	0.001015	0.001015	0.001015	0.001015	0.002	0.001015
Lower Lim.	0.00021	0.00023	0.0003	0.00029	0.000518	0.00028

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 1/11/2022 10:50 PM 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
6/11/2018	<0.001015	<0.001015		
6/12/2018			<0.001015	<0.001015
10/22/2018	<0.001015	<0.001015	<0.001015	<0.001015
5/20/2019	<0.001015	<0.001015		
5/21/2019			<0.001015	<0.001015
9/3/2019			<0.001015	<0.001015
9/4/2019	<0.001015	<0.001015		
2/11/2020	<0.001015	<0.001015		
2/12/2020			<0.001015	<0.001015
9/8/2020	<0.001015			<0.001015
9/9/2020		<0.001015	<0.001015	
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)
Mean	0.0008246	0.0008764	0.0008439	0.000822
Std. Dev.	0.0003525	0.0002621	0.0003176	0.0003578
Upper Lim.	0.001015	0.001015	0.001015	0.001015
Lower Lim.	0.00025	0.000361	0.000291	0.00021

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 1/11/2022 10:50 PM 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
2/5/2018			<0.005			
6/11/2018				0.00472 (J)	<0.005	<0.005
6/12/2018	0.00251 (J)	<0.005	<0.005			
10/22/2018				0.0049 (J)	<0.005	<0.005
10/23/2018		<0.005	<0.005			
10/24/2018	0.00286 (J)					
5/20/2019				0.00489 (J)	<0.005	<0.005
5/21/2019	0.00245 (J)	<0.005	0.0578 (o)			
9/3/2019	0.00298 (J)					
9/4/2019		<0.005	<0.005	0.00527	<0.005	0.00217 (J)
2/11/2020				<0.005	<0.005	<0.005
2/12/2020	<0.005	<0.005	<0.005			
9/8/2020				<0.005	<0.005	
9/9/2020	0.00256 (J)	<0.005	<0.005			<0.005
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				
Mean	0.002831	0.00383	0.003782	0.00403	0.003916	0.003534
Std. Dev.	0.0009252	0.002168	0.002255	0.001738	0.002006	0.002088
Upper Lim.	0.005	0.005	0.005	0.005013	0.005	0.005
Lower Lim.	0.00212	0.000218	0.0001	-0.002871	0.00065	0.00033

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 1/11/2022 10:50 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-8	GN-GSA-MW-9
6/12/2018	<0.005	<0.005
10/22/2018	<0.005	<0.005
5/21/2019	<0.005	<0.005
9/3/2019	<0.005	<0.005
2/12/2020	<0.005	<0.005
9/8/2020		<0.005
9/9/2020	<0.005	
4/13/2021	0.000123 (J)	8.16E-05 (J)
10/4/2021	0.00014 (J)	
10/5/2021		0.00041
Mean	0.003783	0.003811
Std. Dev.	0.002254	0.002203
Upper Lim.	0.005	0.005
Lower Lim.	0.000123	8.16E-05

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/11/2022 10:50 PM 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
6/11/2018						0.577
6/12/2018	0.89	0.218 (U)	0.569	0.321 (U)	-0.0382 (U)	
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		
Mean	1.291	1.139	0.8739	0.8353	0.924	0.5733
Std. Dev.	0.4859	1.659	1.091	0.544	1.258	0.479
Upper Lim.	1.75	2.244	1.795	1.412	2.362	1.081
Lower Lim.	0.8521	0.1179	0.07763	0.2587	0.007491	0.06555

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/11/2022 10:50 PM 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
6/11/2018	0.436	0.199 (U)		
6/12/2018			0.324 (U)	0.141 (U)
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)
Mean	0.6946	0.5631	0.4598	0.4841
Std. Dev.	0.5237	0.3946	0.349	0.3661
Upper Lim.	1.25	0.9814	0.8297	0.8515
Lower Lim.	0.1395	0.1448	0.08983	0.1487

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 1/11/2022 10:50 PM 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
6/11/2018						0.04 (J)
6/12/2018	0.32	<0.1	<0.1	0.06 (J)	0.04 (J)	
10/22/2018						0.06 (J)
10/23/2018	0.39			0.06 (J)	0.05 (J)	
10/24/2018		<0.1	<0.1			
5/20/2019						0.0842 (J)
5/21/2019	0.264	<0.1	<0.1	0.0649 (J)	0.0595 (J)	
9/3/2019		<0.1	<0.1			
9/4/2019	0.33			0.0547 (J)	0.0555 (J)	0.0962 (J)
2/11/2020						<0.1
2/12/2020	0.301	<0.1	<0.1	0.0586 (J)	<0.1	
9/8/2020		0.0617 (J)				<0.1
9/9/2020	0.313		<0.1	0.068 (J)	0.0655 (J)	
4/13/2021	0.29	<0.1	<0.1	<0.1	0.0633 (J)	<0.1
10/4/2021	0.376				0.0748 (J)	<0.1
10/5/2021		<0.1	<0.1	<0.1		
Mean	0.323	0.09521	0.1	0.07078	0.06358	0.08505
Std. Dev.	0.04227	0.01354	0	0.01847	0.01804	0.02292
Upper Lim.	0.3678	0.1	0.1	0.1	0.0827	0.1
Lower Lim.	0.2782	0.0617	0.1	0.0547	0.04445	0.04

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 1/11/2022 10:50 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
6/11/2018	0.09 (J)		
6/12/2018		0.13	0.04 (J)
10/22/2018	0.1	0.15	0.05 (J)
5/20/2019	0.0919 (J)		
5/21/2019		0.109	0.0526 (J)
9/3/2019		0.123	0.0554 (J)
9/4/2019	0.07 (J)		
2/11/2020	0.0912 (J)		
2/12/2020		0.108	<0.1
9/8/2020			0.097 (J)
9/9/2020	0.118	0.14	
4/13/2021	0.129	0.119	0.0602 (J)
10/4/2021	0.12	0.134	
10/5/2021			<0.1
Mean	0.1013	0.1266	0.0694
Std. Dev.	0.01962	0.01474	0.02518
Upper Lim.	0.1221	0.1422	0.07574
Lower Lim.	0.08046	0.111	0.04279

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 1/11/2022 10:50 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-13	GN-GSA-MW-6
6/11/2018		<0.0002
6/12/2018	<0.0002	
10/22/2018		<0.0002
10/23/2018	<0.0002	
5/20/2019		<0.0002
5/21/2019	0.00228 (J)	
9/4/2019	<0.0002	<0.0002
2/11/2020		<0.0002
2/12/2020	<0.0002	
9/8/2020		<0.0002
9/9/2020	<0.0002	
4/13/2021	<0.0002	0.000305
10/4/2021	<0.0002	0.00031
Mean	0.00046	0.0002269
Std. Dev.	0.0007354	4.978E-05
Upper Lim.	0.00228	0.00031
Lower Lim.	0.0002	0.0002

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 1/11/2022 10:50 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1
6/12/2018	<0.02
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)
Mean	0.01616
Std. Dev.	0.005306
Upper Lim.	0.02
Lower Lim.	0.00953

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 1/11/2022 10:50 PM 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
6/11/2018				<0.01	<0.01	
6/12/2018	0.00655 (J)	<0.01	<0.01			0.00325 (J)
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				
Mean	0.004801	0.007578	0.007542	0.007523	0.007566	0.003629
Std. Dev.	0.001073	0.004484	0.004552	0.004587	0.004507	0.0004511
Upper Lim.	0.005939	0.01	0.01	0.01	0.01	0.004107
Lower Lim.	0.003664	0.000298	0.00016	9E-05	0.00025	0.003151

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 1/11/2022 10:50 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-9
6/12/2018	<0.01
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
Mean	0.007566
Std. Dev.	0.004507
Upper Lim.	0.01
Lower Lim.	0.000207