

**2023 ANNUAL GROUNDWATER MONITORING AND  
CORRECTIVE ACTION REPORT**

**ALABAMA POWER COMPANY  
PLANT GASTON  
GYPSUM POND**

**January 31, 2024**

Prepared for

Alabama Power Company  
Birmingham, Alabama

By

Southern Company Services  
Earth Science and Environmental Engineering



## CERTIFICATION STATEMENT

This 2023 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.



01/31/2024

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## **EXECUTIVE SUMMARY**

In accordance with the United States Environmental Protection Agency (EPA) coal combustion residual (CCR) rule (40 CFR Part 257, Subpart D) and the State of Alabama Department of Environmental Management (ADEM) Admin. Code Ch. 335-13-15, this 2023 Annual Groundwater Monitoring and Corrective Action Report has been prepared to document groundwater monitoring activities at the Plant Gaston Gypsum Pond and to satisfy the requirements of 40 CFR § 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 40 CFR § 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 40 CFR § 257.95 and ADEM Admin. Code r. 335-13-15-.06(6). Statistically significant increases (SSI) 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 (SSL) of the Appendix IV parameter barium was first identified during the second semi-annual groundwater monitoring event of 2021 in well GN-GSA-MW-1. Statistical evaluation of assessment monitoring data collected from the first 2023 semi-annual sampling event did not identify barium as an SSL. However, statistical evaluation of assessment monitoring data collected from the second 2023 semi-annual sampling event did identify barium as an SSL in well GN-GSA-MW-1. An Alternate Source Demonstration (ASD) for barium was performed and submitted to ADEM in June 2022 to demonstrate that the Gypsum Pond is not the source of barium in well GN-GSA-MW-1.

The following summarizes results and activities conducted during the first and second 2023 semi-annual monitoring periods:

- Submitted the 2022 Annual Groundwater Monitoring and Corrective Action Report to ADEM on January 31, 2023.
- Completed the first semi-annual assessment groundwater monitoring event between January 17, 2023, and January 18, 2023.
- Submitted the 2023 Semi-Annual Groundwater Monitoring and Corrective Action Report to ADEM on July 31, 2023.

- Completed the second semi-annual assessment groundwater monitoring event between July 10, 2023, and July 12, 2023.
- Maintained and evaluated incoming data from the multi-parameter groundwater monitoring instrumentation at select well locations. The instrumentation, installed from October to December 2022, is used as a tool for evaluating groundwater elevation fluctuations and field parameters between sampling events.

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

- Perform the first semi-annual assessment monitoring event in the spring of 2024 and submit the Semi-Annual Groundwater Monitoring and Corrective Action Report to ADEM by July 31, 2024.

Design plans have been established for the closure construction of the Plant Gaston Gypsum Storage Area. This is a “closure by removal” approach where stored gypsum is excavated from each designated cell along with bottom-liner system removal and any piping, utilities, and on-Site structures. Civil sitework design is scheduled for completion by the end of 2024. The design includes conceptual layout, as-built survey and drawings, site grading plan, excavation plan, erosion control plan, stormwater management, and final restoration grading plans. Physical closure construction activities and excavation at the Site are to be determined and are dependent on closure design and permit approval.

Pursuant to 40 CFR § 257.90(e)(6), an **Executive Summary Table** has been prepared to describe the status of groundwater monitoring and corrective action during the monitoring period for this report.

**Executive Summary Table  
Monitoring Period Summary  
Plant Gaston Gypsum Storage Area**

Assessment Monitoring Initiated: January 15, 2018  
 Monitoring Period: January 1 - December 31, 2023  
 Beginning Status: Assessment  
 Ending Status: Assessment

**Statistical Analysis Results \***

**Appendix III SSIs**

<b>Parameter</b>	<b>Wells</b>
Boron	None.
Calcium	GN-GSA-MW-5.
Chloride	GN-GSA-MW-11.
Fluoride	GN-GSA-MW-1.
pH	GN-GSA-MW-1, GN-GSA-MW-6.
Sulfate	GN-GSA-MW-5, GN-GSA-MW-8, GN-GSA-MW-15.
TDS	GN-GSA-MW-5.

**Appendix IV SSLs**

<b>Parameter</b>	<b>Wells</b>
Barium	GN-GSA-MW-1.

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

**Alternate Source Demonstrations**

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

**Assessment of Corrective Measures & Groundwater Remedy**

**Assessment of Corrective Measures**

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

**Groundwater Remedy**

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

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## ABBREVIATIONS

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	United States Geological Survey
UTLs	Upper Tolerance Limits

## **1.0 INTRODUCTION**

In accordance with the United States Environmental Protection Agency (EPA) coal combustion residual (CCR) rule (40 CFR Part 257, Subpart D) and the State of Alabama Department of Environmental Management (ADEM) Admin. Code Ch. 335-13-15, this 2023 Annual Groundwater Monitoring and Corrective Action Report has been prepared to document the first and second 2023 semi-annual assessment groundwater monitoring activities at the Plant Gaston Gypsum Pond and to satisfy the requirements of 40 CFR § 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 40 CFR § 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 40 CFR § 257.94(e) and ADEM Admin. Code r. 335-13-15-.06(5)(e), APC implemented assessment monitoring in January 2018. Appendix III statistically significant increases (SSI) were identified at the Plant Gaston Gypsum Pond during sampling events conducted in 2018 and the Site has remained in assessment monitoring. Statistically significant levels (SSL) of the Appendix IV parameter, barium, were first identified during the second semi-annual monitoring event of 2021 in well GN-GSA-MW-1.

An Alternate Source Demonstration (ASD) for barium was performed and submitted to ADEM in June 2022 to demonstrate that the Gypsum Pond is not the source of barium in well GN-GSA-MW-1. Statistical evaluations of assessment monitoring data from the January 2023 semi-annual monitoring event did not identify the presence of Appendix IV SSL. However, during the July 2023 semi-annual monitoring event, barium at well GN-GSA-MW-1 was identified as an SSL from statistical evaluations of assessment monitoring data.

### 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. 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 plant is on a portion of the Valley and Ridge province known as the Coosa deformed belt, which is a long, sinuous, structurally complex zone that can be subdivided laterally into three segments by two lateral offsets (GSA, 2010b). The Coosa deformed belt is situated on the Yellowleaf thrust sheet, which is a shallowly detached structural complex with small-scale, commonly isoclinal parasitic folding (McIntyre, *et al.*, 2010). Two lateral offsets subdivide the belt: the Harpersville offset and the Reeds Mill offset. The Harpersville offset is located on the southwest end of the Coosa deformed belt and lies just northeast of the plant. The boundaries of the Coosa deformed belt are delineated by the Coosa synclinorium to the north and the Pell City thrust fault to the south. Most structures in the belt trend

northeast-southwest, although a northwest-southeast trend is encountered in the plant area. **Figure 3, Site Geologic Map** illustrates the surface geology at the Site and neighboring areas.

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 composed of yellow-brown, clayey sand with zones of clay and gravelly fines.

The underlying Newala Limestone typically occurs between elevations 400 and 375 feet MSL with higher elevations in areas to the north and northeast. The Newala is 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'**, illustrate 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 groundwater (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 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 uppermost aquifer can be found at depths between 30 and 40 feet BGS at the Site.

Within northern areas of the Site, groundwater is more likely to be observed in shallow rock due to thinner or more clay-rich overburden materials. 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 the 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 the area could be a discrete network of fractures from other monitoring wells.

Major ions analyzed using Piper plots indicated that groundwater is generally a calcium-bicarbonate water type or geochemical facies. This typically indicates younger groundwater or water interacting with carbonate-rich aquifer materials such as the Newala Limestone and overburden derived from weathered Newala Limestone.

### **3.2.2 Flow Interpretation**

Groundwater flow at the Site is generally from north to the south and southeast, and towards Yellowleaf Creek. Groundwater flow is primarily driven by porous 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.

There was a minor change in the interpretation of groundwater flow near the southern boundary of the gypsum pond following the April 2022 monitoring period. GN-GSA-MW-9, which is located in a topographic high, demonstrates flow northward towards the Gypsum Pond. This results in a convergence of groundwater flow along an axis from wells GN-GSA-MW-8 to GN-GSA-MW-11 as well as an apparent groundwater mound exhibiting radial flow in all directions. The interpreted potentiometric contour lines shown on groundwater contour maps suggest the potential (1) presence of a small-scale no-flow boundary and (2) periodic or seasonal shift from downgradient to upgradient in the direct vicinity of GN-GSA-MW-9. This occurrence near the southern boundary does not consistently appear in semi-annual sampling events. It varies seasonally and is likely dependent on localized precipitation.

Another variation in flow interpretation was revealed with the addition of the water-level only piezometers GN-GSA-GS2-1 and GN-GSA-GS2-4 located just northeast of the gypsum pond boundary. Both piezometers exhibit groundwater elevations slightly higher than the nearby compliance wells GN-GSA-MW-1 and GN-GSA-MW-2 to the west. As a result, shallow groundwater flows towards the gypsum pond to the west, creating a flow convergence near the northeastern area of the pond. The general hydraulic gradient within this area remains unchanged, with major flow dominated in a south and southeast direction.

### **3.3 GROUNDWATER MONITORING SYSTEM**

Pursuant to 40 CFR § 257.91 and ADEM Admin. Code r. 335-13-15-.06(2), Plant Gaston has installed a groundwater monitoring well network to monitor groundwater quality within the uppermost aquifer. The certified groundwater monitoring system for the Plant Gaston Gypsum Pond is designed to monitor groundwater passing the waste boundary of the CCR unit. Wells were sited to serve as upgradient or downgradient monitoring locations based on groundwater flow direction as determined by the potentiometric surface elevation contour maps. All groundwater monitoring wells were designed and constructed using “Design and Installation of Groundwater Monitoring Wells in Aquifers,” ASTM Subcommittee D18.21, as a guideline.

#### **3.3.1 Monitoring Wells**

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

Well or piezometer locations GN-GSA-PZ-4, GN-GSA-MW-3, GN-GSA-MW-2, GN-GSA-MW-1, GN-GSA-MW-12, GN-GSA-MW-13, and GN-GSA-MW-15 are screened in the Newala Limestone or across the overburden to Newala Limestone transition. The remaining well locations are generally screened across more coarse fractions of the overlying overburden. These wells monitor the uppermost aquifer, which can generally be associated with the Valley and Ridge aquifer system and are designed to detect potential impacts from the lined Gypsum Pond.

##### **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 the 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 (screened from 113 to 123 feet), which is significantly deeper than other upgradient and downgradient wells that 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. Locations GN-GSA-GS2-1 and GN-GSA-GS2-4 are also used as water-level only piezometers. These two locations were installed in 2014 and 2015, respectively, as part of a landfill siting investigation near the Gypsum Pond. GN-GSA-GS2-1 and GN-GSA-GS2-4 are not permitted as part of the compliance well network for the Gaston Gypsum Pond. **Table 1b, Piezometer Well Network Details**, summarizes well construction details for these locations.

### **3.3.1.4 Monitoring Well Replacement and Abandonment**

Monitoring well replacement or abandonment activities were not performed during the 2023 annual groundwater monitoring period.



### **3.4 GROUNDWATER MONITORING HISTORY**

In accordance with 40 CFR § 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 from 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 are 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, Analytical Data Summary**.

#### **3.4.2 Historical Groundwater Flow**

Historical potentiometric data from the Site show that groundwater flow is generally from north to south and southeast, and towards Yellowleaf Creek. Groundwater flow is accomplished by porous 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 ADEM 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 in: (1) late winter to mid-spring and (2) early to late fall. The temporal spacing between sampling events is sufficient to ensure sampling events yield independent groundwater samples that generally represent different climatic or meteorological seasons that present 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.

The following subsections summarize the sequential steps and process for the sampling, handling and 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 40 CFR § 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, an AquaTROLL instrument was used to monitor and record field parameters. All downhole groundwater sampling equipment was calibrated prior to sample collection per the manufacturer’s specifications outlined in the Alabama Power Environmental Affairs (EA) Water and Field Group (WFG) Technical Standard Operating Procedure, dated December 14, 2021.

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 in 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) in Greensburg, Pennsylvania. Both APCEL and Pace are accredited by National Environmental Laboratory Accreditation Program (NELAP) and maintain a NELAP certification for all parameters analyzed. **Table 2, Parameters and Reporting Limits**, lists assessment monitoring constituents analyzed from Site groundwater samples. Groundwater data and chain of custody records for the monitoring event are presented in **Appendix C**.

### **3.5.5 Monitoring Period Sampling Events**

As required by 40 CFR § 257.90(e) and ADEM Admin. Code r. 335-13-15-.06(1)(f), the following describes monitoring-related activities performed during the preceding annual monitoring period. The first

2023 semi-annual Assessment Monitoring sampling event was performed from January 17, 2023, to January 18, 2023. The second 2023 semi-annual Assessment Monitoring sampling event was performed from July 10, 2023, to July 12, 2023.

Groundwater samples were analyzed for the full list of Appendix III and Appendix IV parameters during the Assessment Monitoring events. 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 are included as **Appendix C** in accordance with the requirements of 40 CFR § 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 groundwater sampling event, groundwater elevations ranged from 396.96 to 414.40 feet NAVD88 (feet above reference 1988 North American Vertical Datum). **Figure 6A, Potentiometric Surface Contour Map (January 17, 2023)**, depicts groundwater elevations and inferred groundwater flow direction from higher elevation to lower.

During the second semi-annual groundwater sampling event, groundwater elevations ranged from 397.06 to 415.01 feet NAVD88 (feet above reference 1988 North American Vertical Datum). **Figure 6B, Potentiometric Surface Contour Map (July 10, 2023)**, depicts groundwater elevations and inferred groundwater flow direction from higher elevation to lower.

Groundwater elevation data from the recent annual sampling events have been tabulated and included in **Table 3, Groundwater Elevations Summary**. It should be noted that locations GN-GSA-PZ-4, GN-GSA-MW-3, GN-GSA-MW-2, GN-GSA-MW-1, GN-GSA-MW-12, GN-GSA-MW-13, and GN-GSA-MW-14 are screened in the Newala Limestone or across the transition zone from overburden to rock (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.

To facilitate further understanding of trends and correlating relationships, AquaTROLL multi-parameter sonde instrumentation is being used at select key Site observation and monitoring well locations for the near-continuous monitoring of groundwater elevation and field parameter data. These additional data will provide a better understanding of fluctuations in groundwater levels and geochemistry driven by the response of site flow systems and possible correlations or changes noted in semi-annual monitoring data.

AquaTROLL instrumentation was installed at the Gypsum Pond from October to December 2022 in the following site compliance monitoring wells:

- GN-GSA-MW-3.
- GN-GSA-MW-5.
- GN-GSA-MW-6.
- GN-GSA-MW-10.

#### 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  $2.321 \times 10^{-5}$  cm/sec and  $2.74 \times 10^{-4}$  cm/sec with an average of  $1.49 \times 10^{-4}$  cm/sec or 0.42 ft/day at the Gypsum Pond. An estimated effective porosity of 15% is used in the flow rate calculations. The hydraulic gradient was calculated between well pairs chosen for each sampling event. Well pairs demonstrating reasonably straight-line flow paths are typically selected, but if absent, interpreted potentiometric contours can be more representative.

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

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

Where:

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

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

$i$  = Horizontal hydraulic gradient

$n_e$  = Effective porosity

Using this equation, horizontal groundwater flow velocity is calculated for the Site and is tabulated in **Appendix D, Horizontal Groundwater Flow Velocity Calculations**. **Appendix D** presents estimated horizontal flow velocities calculated using groundwater elevation data from the first and second 2023 semi-annual groundwater sampling events.

## 5.0 EVALUATION OF GROUNDWATER QUALITY DATA

During each sampling event, quality assurance/quality control samples (QA/QC) were collected at an interval of one sample per group of 10 well locations. 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 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 (RPD) Calculations** provides the RPD for sample and sample duplicates during the first and second semi-annual groundwater monitoring events of 2023. All RPDs were below 20% during the 2023 annual groundwater monitoring period.

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 first and second semi-annual monitoring events. 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.

Validated flags do not have an impact on possible statistical analyses due to: (1) low-level concentrations flagged during validation or (2) constituents flagged are not Site COI. One blank detection for barium was reported for QC samples (equipment blank) collected in the field during the first 2023 semi-annual monitoring event. Equipment of field blank detections was not reported for QC samples collected during second 2023 semi-annual monitoring event.

## 5.2 STATISTICAL METHODOLOGY AND TESTS

Sanitas statistical software is used to perform the statistical analyses on Site analytical 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 (SSI) 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 (UTL) 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 2023 annual groundwater monitoring period were statistically analyzed in accordance with the Professional Engineer (PE)-certified Statistical Analysis Plan (October 2017; updated August 2020) and were analyzed by Groundwater Stats Consulting. Appendix III statistical analysis was performed to determine if constituents have returned to background levels. Appendix IV assessment monitoring parameters were evaluated to determine if concentrations statistically exceeded the established groundwater protection standard.

#### 5.3.1 Appendix III Constituents

Based on review of the Appendix III statistical analysis presented in **Appendix E, Statistical Analysis**, Appendix III constituents have not returned to background levels. A review of the Sanitas results, presented in **Appendix E**, identified the following Appendix III SSIs during the first 2023 semi-annual monitoring event:

- GN-GSA-MW-1: Fluoride, pH.
- GN-GSA-MW-2: Chloride.
- GN-GSA-MW-5: Calcium, Sulfate, TDS.
- GN-GSA-MW-6: pH.
- GN-GSA-MW-8: Sulfate, pH.
- GN-GSA-MW-11: Chloride.
- GN-GSA-MW-12: Chloride.

A review of the Sanitas results, presented in **Appendix E**, identified the following Appendix III SSI during the second 2023 semi-annual monitoring event:

- GN-GSA-MW-1: Fluoride, pH.
- GN-GSA-MW-5: Calcium, Sulfate, TDS.
- GN-GSA-MW-6: pH.
- GN-GSA-MW-8: Sulfate.
- GN-GSA-MW-11: Chloride.
- GN-GSA-MW-15: Sulfate.

Because the Site is currently performing assessment monitoring, no further action is required regarding these SSI.

### **5.3.2 Appendix IV Constituents**

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

#### **5.3.2.1 First Semi-Annual Groundwater Monitoring Event**

A review of the Sanitas results presented in **Appendix E** did not identify the presence of Appendix IV SSL during the first 2023 semi-annual groundwater monitoring event:

**Table 6, First Semi-Annual Monitoring Event Analytical Results Summary**, provides a summary of all constituent concentrations for the first semi-annual sampling event of 2023.

#### **5.3.2.2 Second Semi-Annual Groundwater Monitoring Event**

A review of the Sanitas results presented in **Appendix E** identified the presence of SSL of the Appendix IV, barium, at well GN-GSA-MW-1 during the second 2023 semi-annual groundwater monitoring event:

**Table 7, Second Semi-Annual Monitoring Event Analytical Results Summary**, provides a summary of all constituent concentrations for the second semi-annual sampling event of 2023.

## **6.0 ALTERNATE SOURCE DEMONSTRATION**

40 CFR § 257.95(g)(3)(ii) and ADEM Admin. Code r. 335-13-15-.06(6)(g)4.(ii) allow the owner or operator to demonstrate that a source other than the CCR unit caused an SSL and that the SSL was the result of an alternate source, or that the SSL resulted from errors in sampling, analysis or statistical evaluation, or from the occurrences of natural variation in groundwater quality. Alternate Source Demonstrations (ASD) were prepared for arsenic and barium at the GN-GSA-MW-1 well location and submitted to ADEM in December 2018 and June 2022, respectively. A detailed summary of each demonstration conducted for well GN-GSA-MW-1 are presented in the following sections.

### **6.1 ARSENIC AT GN-GSA-MW-1**

An ASD was submitted for GN-GSA-MW-1 as a part of the 2018 Annual Groundwater Monitoring and Corrective Action Report. Since the submittal of the ASD report for Arsenic in 2018, concentrations detected during semi-annual monitoring events have steadily declined, and have not been identified as Appendix IV SSL. The ASD satisfies Federal rules and precludes the need to complete an ACM under 40 CFR § 257.96.

### **6.2 BARIUM AT GN-GSA-MW-1**

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

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

During the first 2023 assessment monitoring event, barium at GN-GSA-MW-1 was not identified as an SSL. Statistical evaluations of analytical data from the most recent event (July 2023) identified an SSL for barium at well GN-GSA-MW-1. Concentrations at well GN-GSA-MW-1 will be closely monitored and statistically analyzed during future groundwater monitoring events.

## 7.0 SUMMARY AND CONCLUSIONS

Statistically significant levels (SSL) of Appendix IV parameters were not identified during the first semi-annual groundwater monitoring event of 2023. Statistical evaluations of assessment monitoring data from the second 2023 semi-annual groundwater monitoring event identified barium as an SSL at well GN-GSA-MW-1.

The following summarizes results and activities conducted during the 2023 annual assessment monitoring period:

- Submitted the 2022 Annual Groundwater Monitoring and Corrective Action Report to ADEM on January 31, 2023.
- Completed the first semi-annual assessment groundwater monitoring event between January 17, 2023, and January 18, 2023.
- Submitted the 2023 Semi-Annual Groundwater Monitoring and Corrective Action Report to ADEM on July 31, 2023.
- Completed the second semi-annual assessment groundwater monitoring event between July 10, 2023, and July 12, 2023.
- Maintained and evaluated incoming data from the multi-parameter groundwater monitoring instrumentation at select well locations. The instrumentation, installed from October to December 2022, is used to evaluate groundwater elevation fluctuations and field parameters between sampling events.

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

- Perform the first 2024 semi-annual assessment monitoring event in the spring and submit the Semi-Annual Groundwater Monitoring and Corrective Action Report to ADEM by July 31, 2024.

Design plans have been established for the closure construction of the Plant Gaston Gypsum Storage Area. This is a “closure by removal” approach where stored gypsum is excavated from each designated cell along with bottom-liner system removal and any piping, utilities, and structures on-Site. Civil sitework design is scheduled for completion by the end of 2024. The design includes conceptual layout, as-built survey and drawings, site grading plan, excavation plan, erosion control plan, stormwater management, and final

restoration grading plans. Physical closure construction activities and excavation at the Site are to be determined and are dependent on closure design and permit approval.

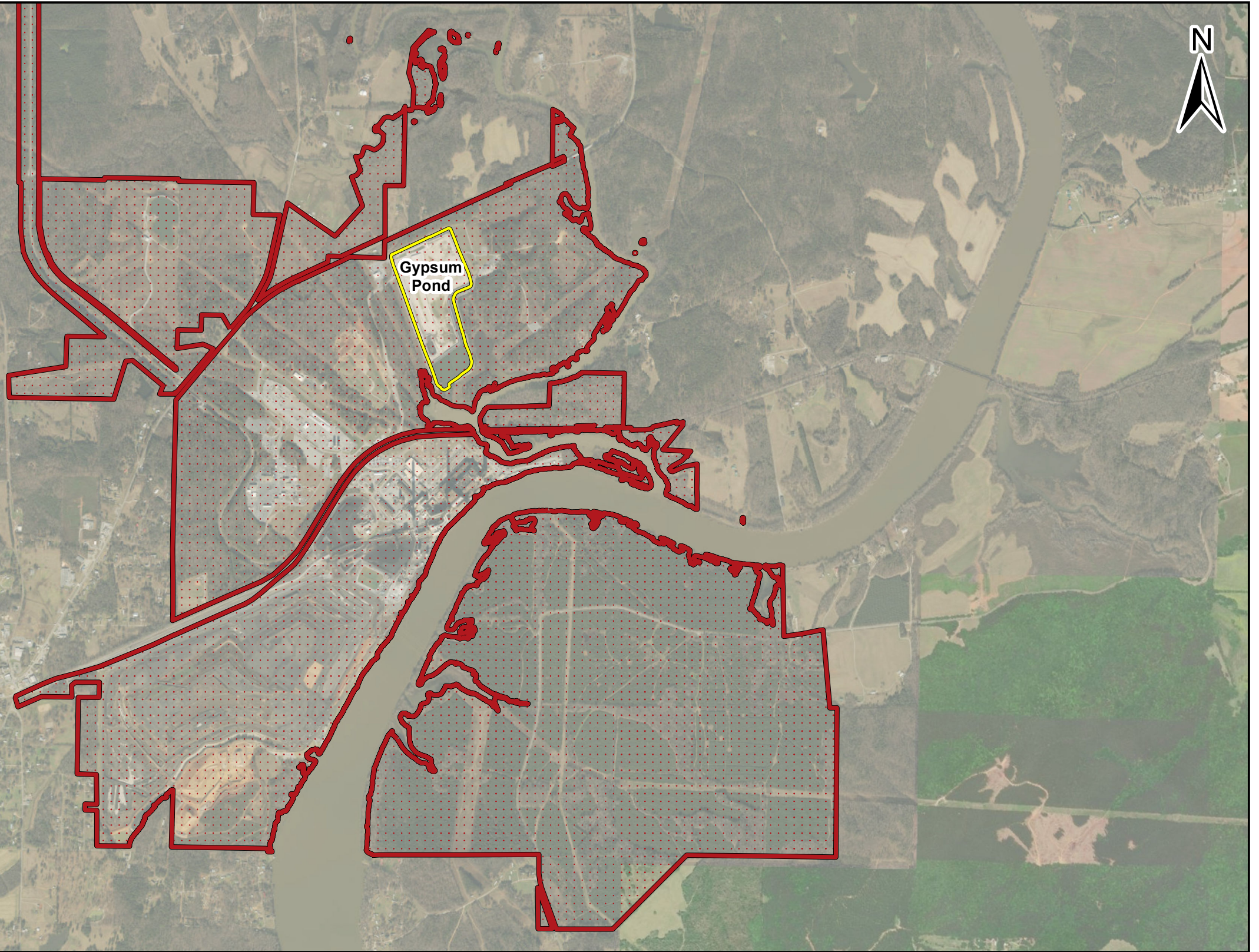
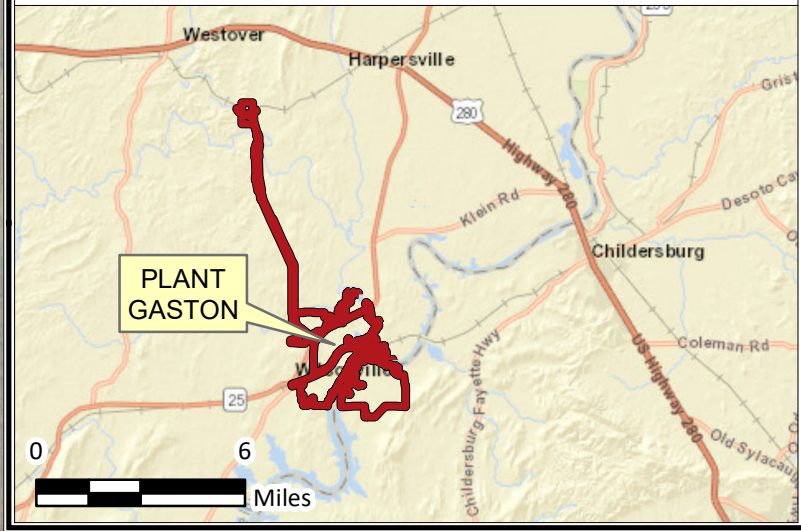
## 8.0 REFERENCES

- Alabama Department of Environmental Management (ADEM), 2018, Solid Waste Program, Division 13, ADEM Admin. Code r. 335-13-15.
- Alabama Power Company (APC) Environmental Affairs (EA) Water and Field Group (WFG), 2021, Technical Standard Operating Procedure.
- ASTM Standard D5092, 2004(2010)e1, Standard Practice for Design and Installation of Groundwater Monitoring Wells, ASTM International, West Conshohocken, PA, DOI 10.1520/D5092-04R10E01, [www.astm.org](http://www.astm.org).
- Frings, D.M., 1980. Report on the Geology of E.C. Gaston Steam Plant Dry Ash Disposal System. Provided by Southern Company Services, December, 2010.
- Frings, D.M., 1981. Report on the Geology of E.C. Gaston Steam Plant Office Annex Addition. Provided by Southern Company Services, December, 2010.
- Geological Survey of Alabama (GSA), 2010b, Digital Geologic Map of Alabama, URL:<http://www.gsa.state.al.us>, accessed November, 2010.
- Kopaska-Merkel, David C., Lewis S. Dean, and James D. Moore, 2005. Hydrogeology and Vulnerability to Contamination of Major Aquifers in Alabama: Area 4. Geological Survey of Alabama Circular 199D.
- McIntyre, M.R., J.C. Pashin, and G.M. McKinney, III, 2010. Report on Plant Geology, Prepared for Southern Company Services by the Geological Survey of Alabama.
- Sapp, C.D., and Emplaincourt, J., 1975, Physiographic regions of Alabama, Special Map 168, Geological Survey of Alabama
- USEPA. 2009. Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance
- USEPA. 2015. Federal Register. Volume 80. No. 74. Friday April 17, 2015. Part II. Environmental Protection Agency. *40 CFR Parts 257 and 261. Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule*. [EPA-HQ-RCRA-2009-0640; FRL-9919-44-OSWER]. RIN-2050-AE81. April.
- United States Geological Survey (USGS), 1980b. Wilsonville, Alabama Quadrangle, 7.5 Minute Series Topographic Map.
- United States Geological Survey (USGS), 2005. Alabama Water Science Center, Water use by County in Alabama, Shelby County. URL: <http://ga2.er.usgs.gov/alabama/waterusecounty.cfm?code=117>. Accessed December, 2010.

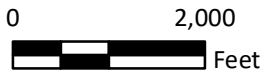


# Figures

# OVERVIEW MAP



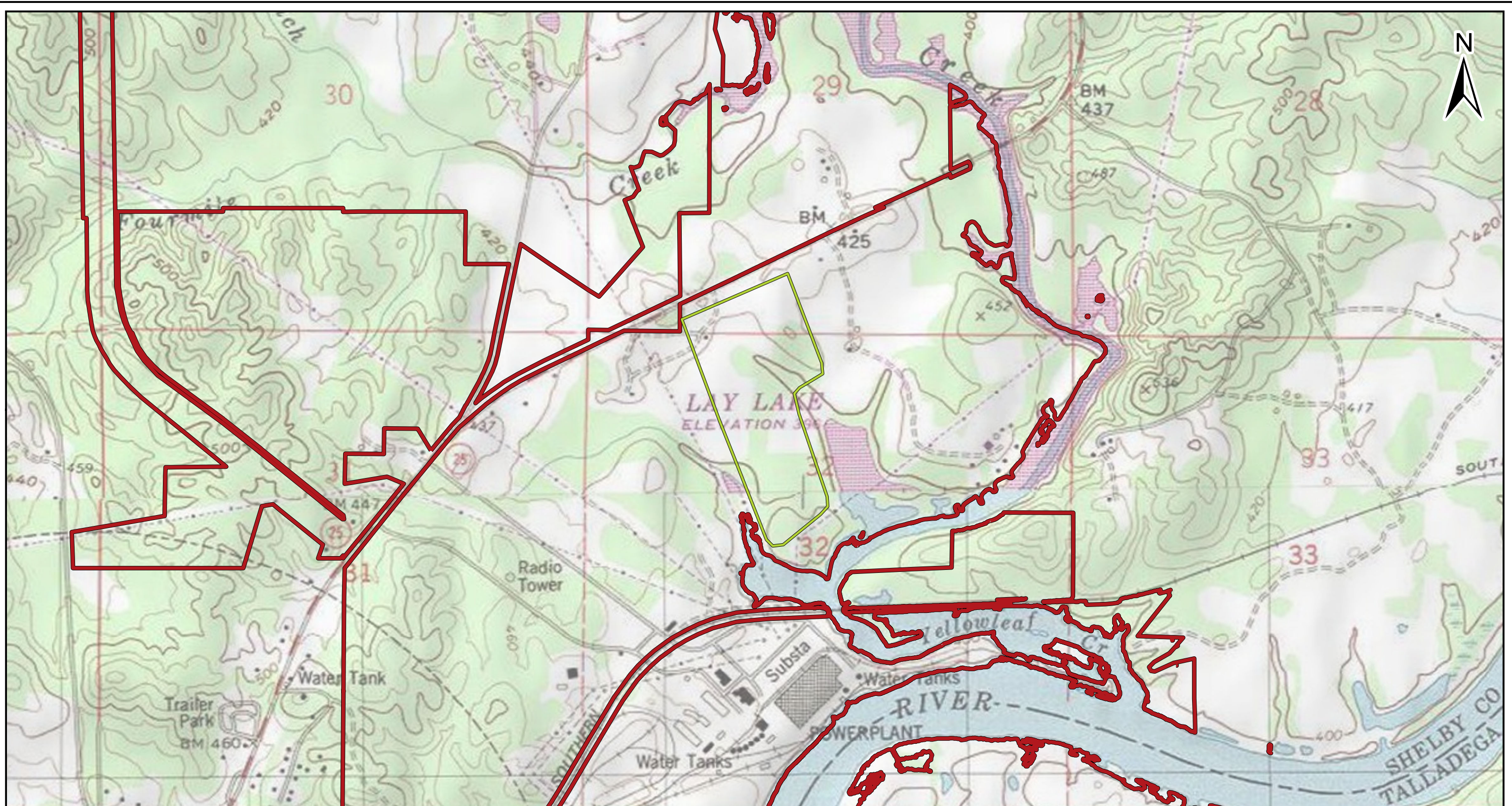
- LEGEND**
- Gypsum\_Pond
  - Property Boundary (Approximate)



Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet  
 Base Map: G-Squared LLC, Shelby County 2022, 1/11/2022 (west);  
 Maxar Vivid Standard, 4/27/2019 (east)

SCALE	1:24,000
DATE	10/18/2023
DRAWN BY	KAR
CHECKED BY	ACP

DRAWING TITLE: <b>SITE LOCATION MAP PLANT GASTON GYPSUM POND</b>	
FIGURE NO. <b>FIGURE 1</b>	



- LEGEND**
- Gypsum Pond Boundary
  - Property Boundary (Approximate)



Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet  
 Base Map: Wilsonville, Alabama 1986 U.S. Geological Survey 7.5'  
 Topographic Quadrangle

SCALE	1:12,366.45
DATE	10/18/2023
DRAWN BY	KWR
CHECKED BY	AWH

DRAWING TITLE:  
**SITE TOPOGRAPHIC MAP  
 PLANT GASTON GYPSUM POND**

FIGURE NO.  
**FIGURE 2**





**LEGEND**

Gypsum Pond Boundary

Property Boundary (Approximate)

**Geologic Units**

Knox Group undifferentiated (Ock)

Newala Limestone (On)

Parkwood Formation and Floyd Shale undifferentiated (PMpwf)

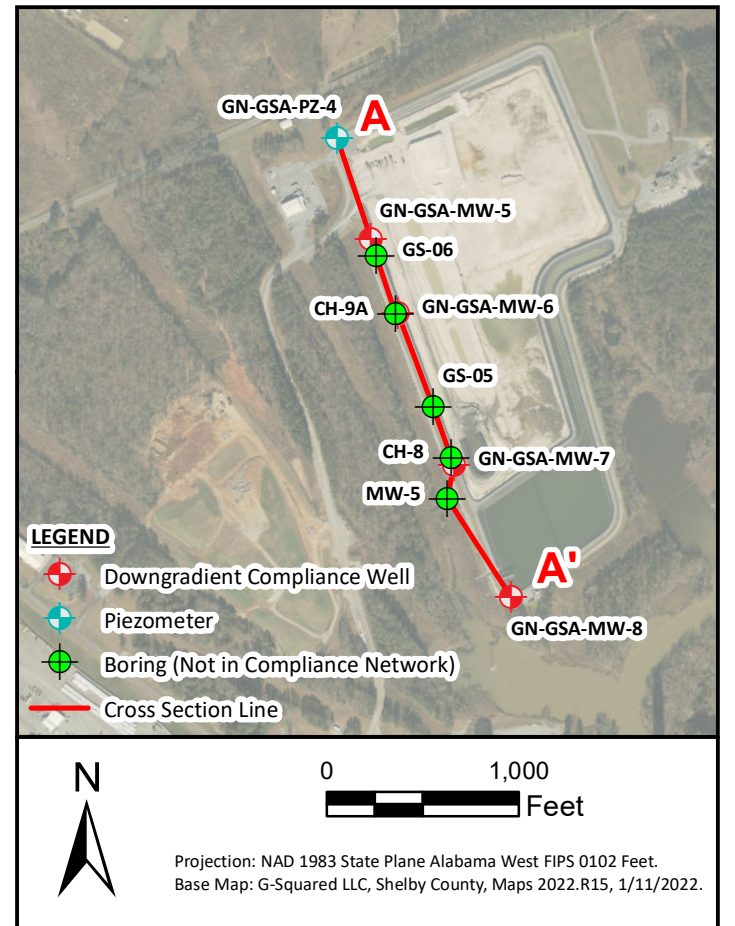
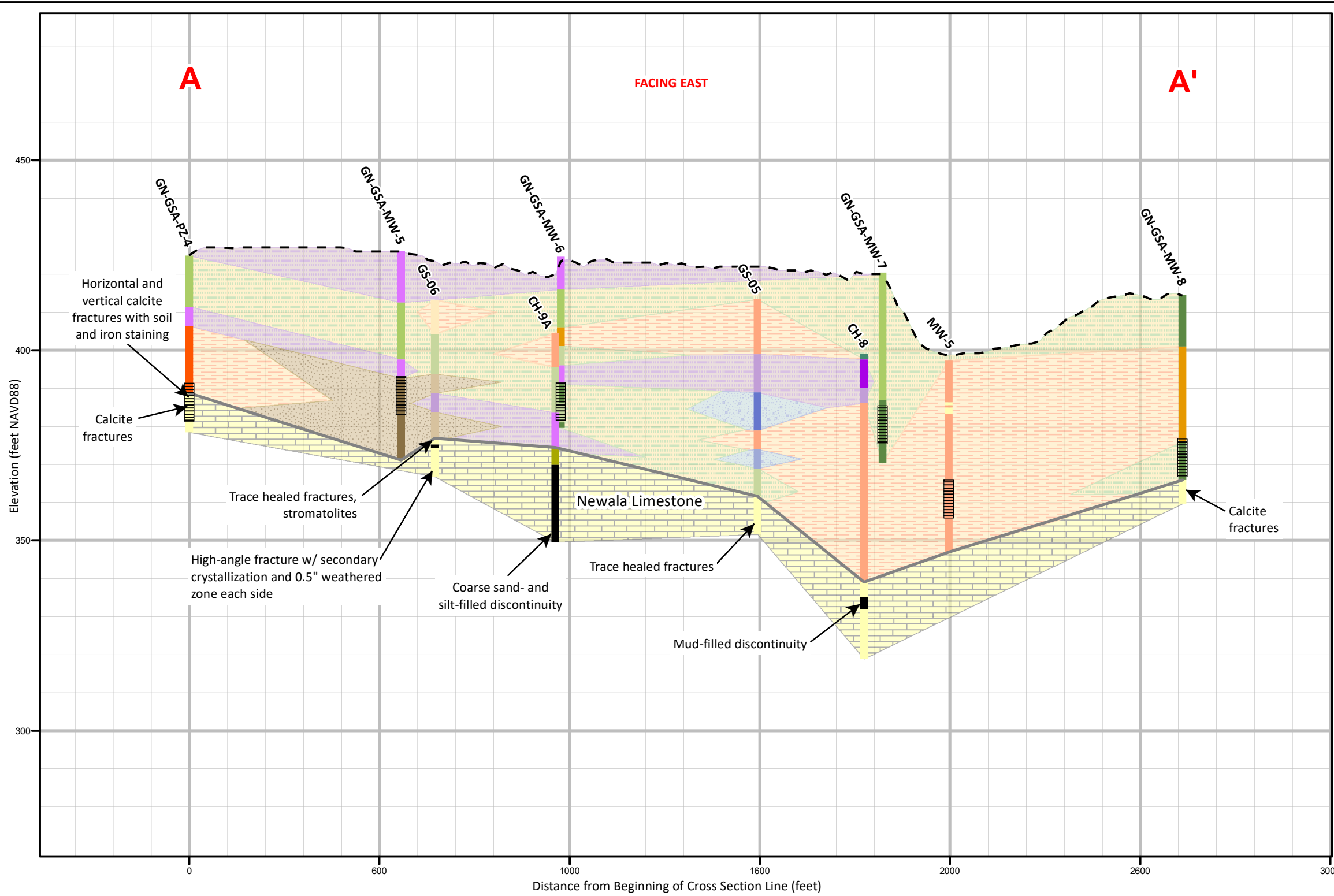
Tuscomb Limestone and Fort Payne Chert undifferentiated (Mtfp)



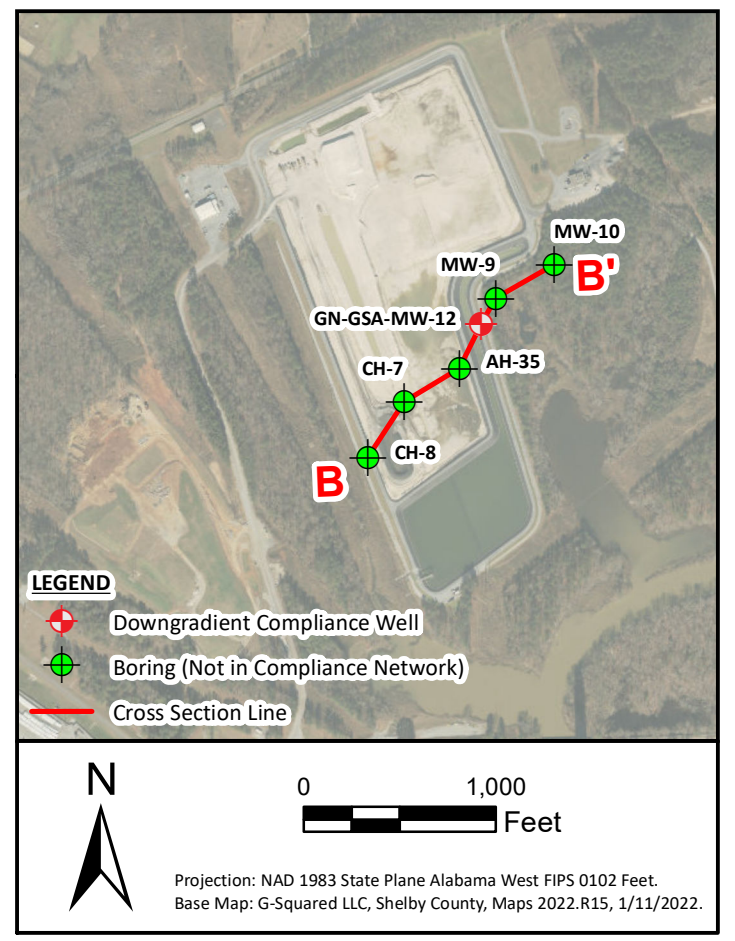
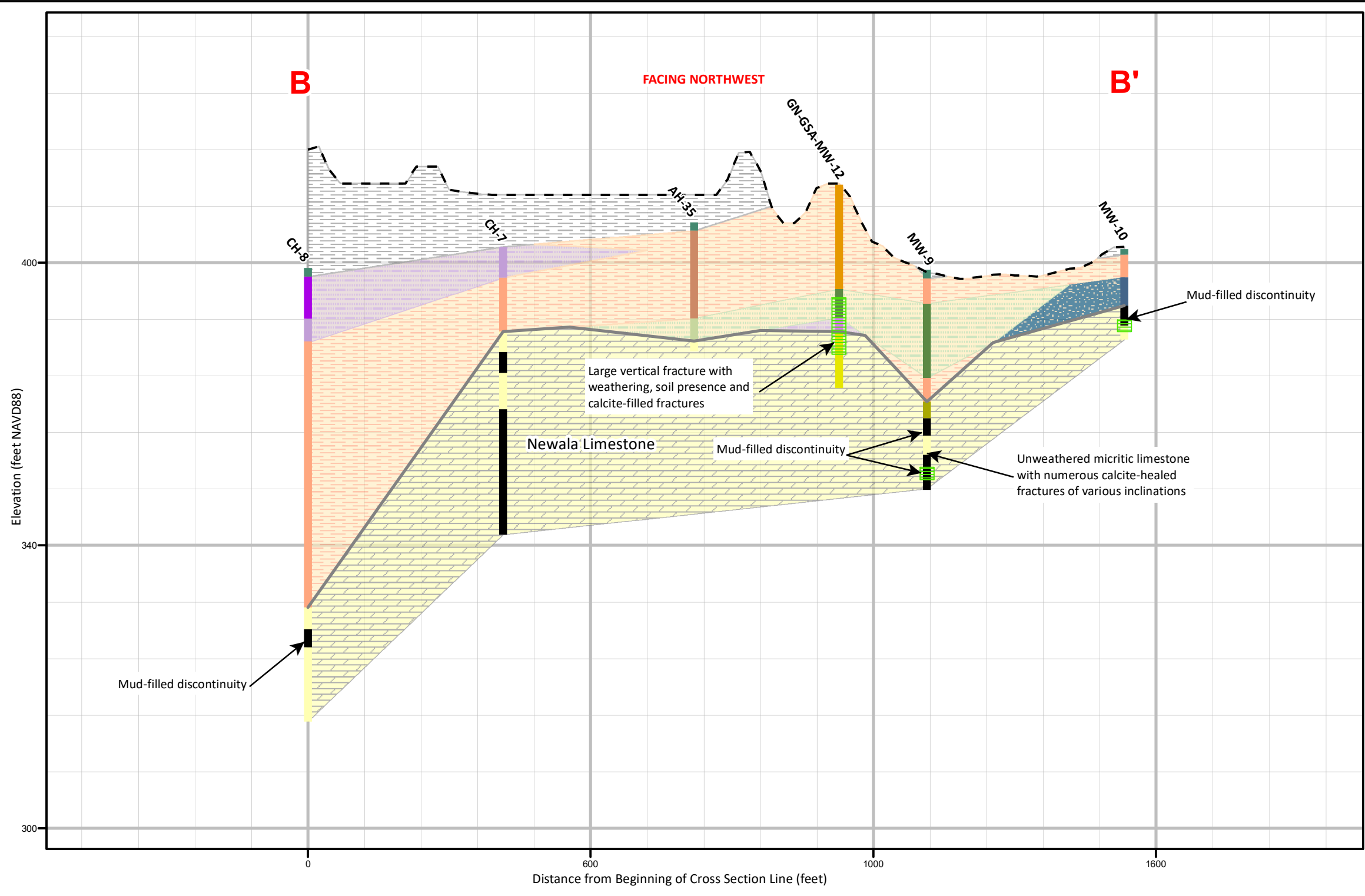
Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet  
 Base Map: Maxar Vivid Advanced, 10/21/2022

SCALE	1:12,000
DATE	10/18/2023
DRAWN BY	KAR
CHECKED BY	AWH

DRAWING TITLE:	<b>SITE GEOLOGIC MAP PLANT GASTON GYPSUM POND</b>
FIGURE NO.	
Southern Company	

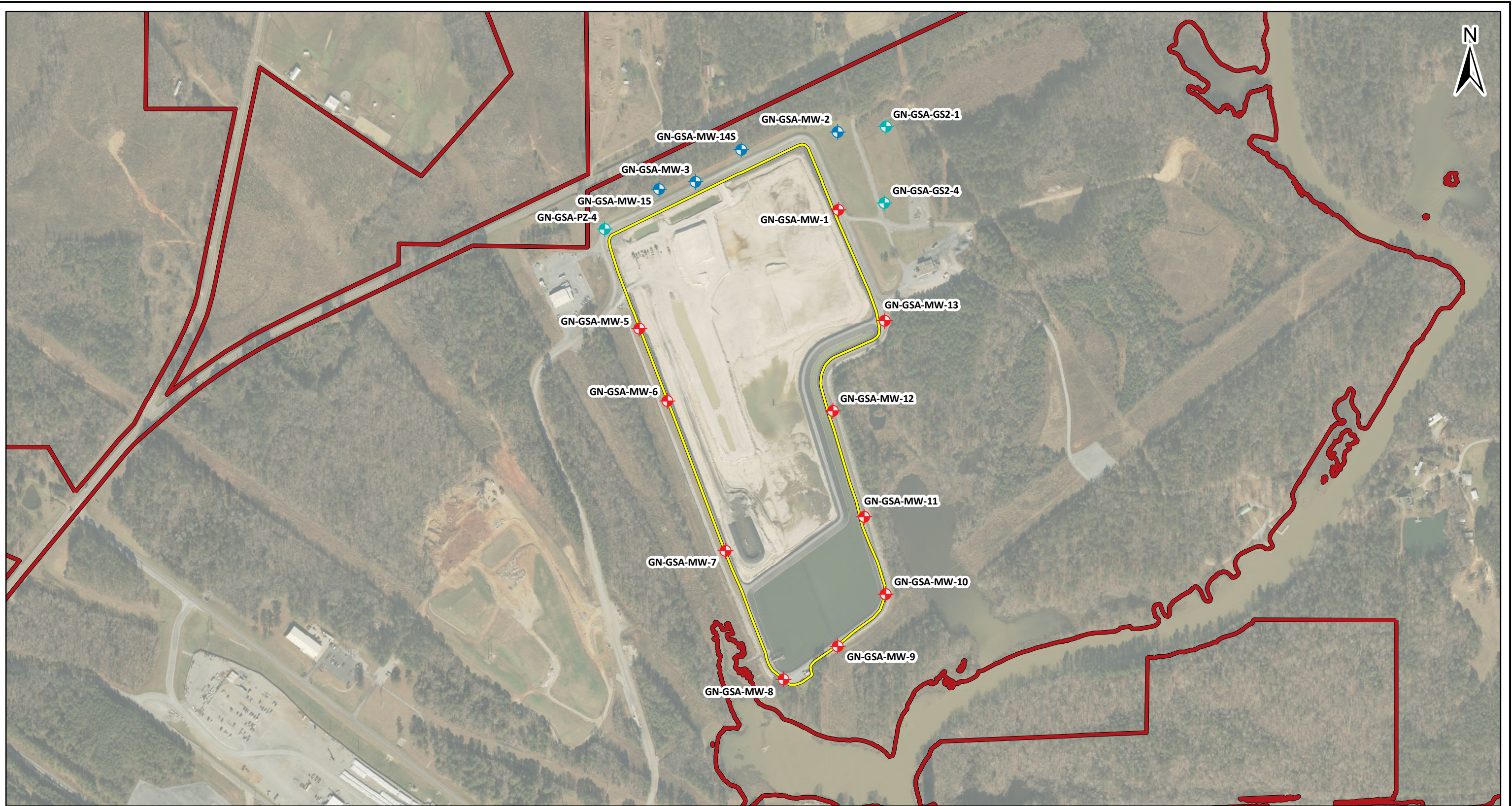


<b>LEGEND</b> Screen Interval Ground Surface Elevation Unit Boundary	<b>Borehole Descriptions</b> Discontinuity Topsoil Fat Clay Lean Clay Silty Clay Sandy Fat Clay Silt Sandy Silt Gravelly Silt Clayey Sand Clayey Silty Sand Silty Sand			<b>Geologic Units</b> Sand Well-graded Sand Clayey Gravel Well-graded Gravel Limestone Dolomite Clays Silts Sands Clayey Silty Sand Gravels Limestone			SCALE AS SHOWN	DRAWING TITLE <b>GEOLOGIC CROSS SECTION A - A'          PLANT GASTON GYPSUM POND</b>	
	DATE 11/03/2023			DRAWN BY KAR	FIGURE NO FIGURE 4A				
	CHECKED BY ACP								

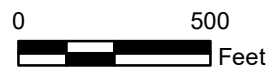


Notes: 1. Source of ground surface elevation data: Lidar  
2. NAVD88 indicates North American Vertical Datum of 1988.

<b>LEGEND</b>			<b>Borehole Descriptions</b>			<b>Geologic Units</b>			SCALE AS SHOWN	DRAWING TITLE <b>GEOLOGIC CROSS SECTION B - B' PLANT GASTON GYPSUM POND</b>	
	Screen Interval		Discontinuity		Silt		Clayey Gravel		Dike Fill	DATE 11/03/2023	FIGURE NO <b>FIGURE 4B</b>
	Ground Surface Elevation		Topsoil		Sandy Silt		Well-graded Gravel		Clays	DRAWN BY KAR	
	Unit Boundary		Lean Clay		Gravelly Silt		Sandstone		Silts	CHECKED BY ACP	
			Silty Clay		Clayey Sand		Limestone		Sands		
			Clayey Silt to Silty Clay		Clayey Silty Sand		Dolomitic Limestone		Clayey Silty Sand		
					Silty Sand		Dolomite		Gravels		
									Sandstone		
									Limestone/Dolomite		



- LEGEND**
- ◆ Downgradient Compliance Well
  - ◆ Upgradient Compliance Well
  - ◆ Piezometer
  - Gypsum Pond Boundary
  - Property Boundary (Approximate)



Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet  
 Base Map: G-Squared LLC, Shelby County 2022, 1/11/2022.

SCALE	1:6,000
DATE	11/03/2023
DRAWN BY	KAR
CHECKED BY	ACP

DRAWING TITLE: <b>MONITORING WELL LOCATION MAP PLANT GASTON GYPSUM POND</b>	
FIGURE NO.	<b>FIGURE 5</b>





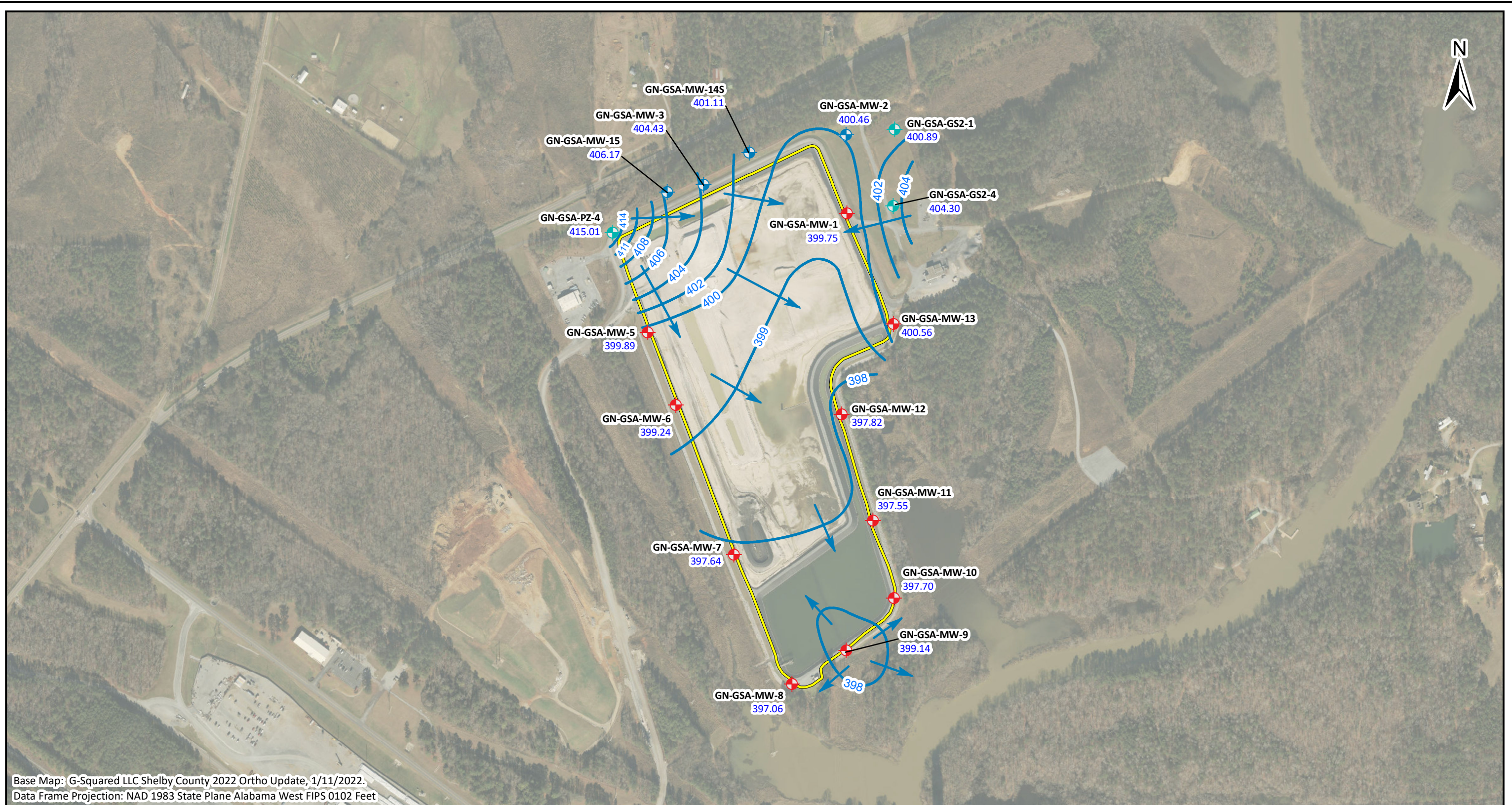
LEGEND	
	Downgradient Compliance Well
	Upgradient Compliance Well
	Piezometer
	Potentiometric Surface Contours
	5-foot interval (NAVD88)
	1-foot interval (NAVD88)
	Approximate Groundwater Flow Direction
	Gypsum Storage Area Boundary
<b>GN-GSA-MW-1</b>	Well ID
399.98	Groundwater Elevation

0 500 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	1:6,000	DRAWING TITLE: <b>POTENTIOMETRIC SURFACE CONTOUR MAP JANUARY 17, 2023 PLANT GASTON GYPSUM POND</b>
DATE	6/14/2023	
DRAWN BY	KWR	FIGURE NO.
CHECKED BY	GBD	<b>FIGURE 6A</b>
		Southern Company





Base Map: G-Squared LLC Shelby County 2022 Ortho Update, 1/11/2022.  
 Data Frame Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet

**LEGEND**

- Downgradient Compliance Well
- Upgradient Compliance Well
- Piezometer
- Potentiometric Surface Contour (ft NAVD88)
- Approximate Groundwater Flow Direction
- Gypsum Storage Area Boundary

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



**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	1:6,000	DRAWING TITLE:	
DATE	10/18/2023	<b>POTENTIOMETRIC SURFACE CONTOUR MAP</b>	
DRAWN BY	KAR	<b>JULY 10, 2023</b>	
CHECKED BY	ACP	<b>PLANT GASTON GYPSUM POND</b>	
		FIGURE NO.	
		FIGURE 6B	

# Tables



**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
<b>WELL NETWORK</b>											
GN-GSA-MW-2	Upgradient	Newala LS (Shallow)	33.25654	-86.4583	417.63	421.19	55.0	373.03	363.03	10	10/28/2015
GN-GSA-MW-3	Upgradient	Newala LS (Shallow)	33.25584	-86.46076	421.84	425.30	54.3	378.84	368.84	10	10/21/2015
GN-GSA-MW-14S	Upgradient	Overburden (Clayey-Sand)	33.2562	-86.45986	420.32	424.06	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	426.19	46.3	386.62	376.62	10	5/5/2016
GN-GSA-MW-1	Downgradient	Newala LS (Deep)	33.25541	-86.4583	423.21	426.73	168.5	310.21	300.21	10	11/5/2015
GN-GSA-MW-5	Downgradient	Overburden (Sand)	33.25371	-86.46175	426.08	429.49	55.0	393.08	383.08	10	11/19/2015
GN-GSA-MW-6	Downgradient	Overburden (Silty-Sand)	33.25265	-86.46128	424.55	427.64	45.0	391.55	381.55	10	11/17/2015
GN-GSA-MW-7	Downgradient	Overburden (Silty-Sand)	33.25047	-86.4603	420.38	423.79	50.0	385.38	375.38	10	11/10/2015
GN-GSA-MW-8	Downgradient	Overburden (Silty-Sand)	33.24859	-86.45932	414.51	417.58	54.9	376.71	366.71	10	10/28/2015
GN-GSA-MW-9	Downgradient	Overburden (Gravelly-Silt)	33.24907	-86.45838	414.76	417.68	44.0	381.96	371.96	10	10/29/2015
GN-GSA-MW-10	Downgradient	Overburden (Silty-Sand)	33.24982	-86.45755	414.78	418.04	40.0	387.18	377.18	10	12/9/2015
GN-GSA-MW-11	Downgradient	Overburden (Silty-Sand)	33.25095	-86.4579	414.81	417.69	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	417.10	36.0	393.80	383.80	10	10/29/2015
GN-GSA-MW-13	Downgradient	Newala LS (Shallow)	33.25379	-86.45751	419.82	422.74	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 WGS 84 from NAD 27/83, State Plane, Alabama, feet.  
 (2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD) 1988.  
 (3) Total well depth accounts for sump if data provided on well construction logs.



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

Well ID	Hydraulic Location	Geologic Unit	Latitude	Longitude	Ground Surface Elevation (ft NAVD)	Top Of Casing Elevation (ft NAVD)	Well Depth (ft BTOC)	Top Of Screen Elevation (ft NAVD)	Bottom Of Screen Elevation (ft NAVD)	Screen Length (ft)	Date Of Installation
<b>WELL NETWORK</b>											
GN-GSA-PZ-4	Piezometer	Newala LS (Shallow)	33.25516	-86.46234	424.87	427.71	46.5	391.37	381.37	10	10/27/2015
GN-GSA-GS2-1	Piezometer	Newala LS (Shallow)	33.2566	-86.45745	415.28	418.46	24.4	400.88	390.88	10	10/12/2014
GN-GSA-GS2-4	Piezometer	Newala LS (Shallow)	33.25549	-86.45749	414.47	417.52	24.2	400.27	390.27	10	10/27/2015

**Notes:**

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

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

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

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

## Table 2. Parameters And Reporting Limits

Plant Gaston Gypsum Storage Area  
07/10/2023 - 07/12/2023

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	1-2	mg/L
Fluoride	SM4500F G 2017	0.125	mg/L
pH_Field	Field Sampling	NA	SU
Sulfate	SM4500SO4 E 2011	2-20	mg/L
TDS	NA	NA	mg/L
Appendix IV Parameters			
Parameters	Analytical Methods	Reporting Limits	Units of Measure
Antimony	EPA 200.8	0.001015	mg/L
Arsenic	EPA 200.8	0.000203	mg/L
Barium	EPA 200.8	0.001015-0.005075	mg/L
Beryllium	EPA 200.8	0.001015	mg/L
Cadmium	EPA 200.8	0.000203	mg/L
Chromium	EPA 200.8	0.001015	mg/L
Cobalt	EPA 200.8	0.000203	mg/L
Fluoride	SM4500F G 2017	0.125	mg/L
Lead	EPA 200.8	0.000203	mg/L
Lithium	EPA 200.7	0.02	mg/L
Mercury	EPA 245.1	0.0005	mg/L
Molybdenum	EPA 200.7	0.01015	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	0.879-1.41	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



### Table 3. Groundwater Elevations Summary

Plant Gaston Gypsum Storage Area  
01/17/2023 - 07/10/2023

Measurement Date		01/17/2023		07/10/2023	
Well	TOC Elevation (ft. NAVD)	Depth To Water (ft. BTOC)	Groundwater Elevation (ft. NAVD)	Depth To Water (ft. BTOC)	Groundwater Elevation (ft. NAVD)
GN-GSA-GS2-1	418.46	16.26	402.20	16.63	401.83
GN-GSA-GS2-4	417.52	13.64	403.88	14.16	403.36
GN-GSA-MW-1	426.73	26.75	399.98	26.98	399.75
GN-GSA-MW-10	418.04	20.47	397.57	20.34	397.70
GN-GSA-MW-11	417.69	20.06	397.63	20.14	397.55
GN-GSA-MW-12	417.10	18.59	398.51	19.28	397.82
GN-GSA-MW-13	422.74	22.82	399.92	22.18	400.56
GN-GSA-MW-14S	424.06	22.57	401.49	22.95	401.11
GN-GSA-MW-15	426.19	17.29	408.90	20.02	406.17
GN-GSA-MW-2	421.19	19.49	401.70	20.73	400.46
GN-GSA-MW-3	425.30	21.57	403.73	20.87	404.43
GN-GSA-MW-5	429.49	28.98	400.51	29.60	399.89
GN-GSA-MW-6	427.64	27.64	400.00	28.40	399.24
GN-GSA-MW-7	423.79	25.64	398.15	26.15	397.64
GN-GSA-MW-8	417.58	20.62	396.96	20.52	397.06
GN-GSA-MW-9	417.68	19.11	398.57	18.54	399.14
GN-GSA-PZ-4	427.71	13.31	414.40	12.70	415.01

Notes:

ft. = feet; ft. NAVD = elevation in feet, referenced to North American Vertical Datum (1988); TOC = top of casing; BTOC = below top of casing; N/A = Not Acquired



## Table 4a. Relative Percent Difference (RPD) Calculations

Plant Gaston Gypsum Storage Area  
01/18/2023 - 01/18/2023

GN-GSA-MW-5				
Sample Date = 1/18/2023				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Calcium	mg/L	85.6	86.9	1.51%
Chloride	mg/L	9.67	9.6	0.73%
Sulfate	mg/L	121	118	2.51%
Arsenic	mg/L	0.00084	0.00084	0.36%
Barium	mg/L	0.0635	0.0593	6.84%
Cobalt	mg/L	0.00293	0.00284	3.12%

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 4a. Relative Percent Difference (RPD) Calculations

Plant Gaston Gypsum Storage Area  
07/11/2023 - 07/12/2023

GN-GSA-MW-14S				
Sample Date = 7/12/2023				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Calcium	mg/L	54	61.6	13.15%
Chloride	mg/L	2.36	2.43	2.92%
Sulfate	mg/L	2.79	2.72	2.54%
Barium	mg/L	0.0258	0.0252	2.35%
GN-GSA-MW-10				
Sample Date = 7/11/2023				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Calcium	mg/L	103	112	8.37%
Chloride	mg/L	2.82	2.9	2.80%
Barium	mg/L	0.0381	0.0369	3.20%

**Notes:**

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





## Table 4b. - Field QC: Blank Detections

Plant Gaston Gypsum Storage Area  
01/18/2023 - 01/18/2023

Parameters Detected Above MDL					
Sample Date	QC Location	Parameter	Blank Concentration	Units	MDL
01/18/2023	EB-1	Barium	0.00067 J	mg/L	0.00051

Notes:

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



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

### Plant Gaston Gypsum Storage Area

Appendix IV Analytes			
Analyte	Units	Background	GWPS
Antimony	mg/L	0.00195	0.006
Arsenic	mg/L	0.00032	0.01
Barium	mg/L	0.0622	2
Beryllium	mg/L	0.001015	0.004
Cadmium	mg/L	0.000203	0.005
Chromium	mg/L	0.00102	0.1
Cobalt	mg/L	0.00313	0.01
Fluoride	mg/L	0.125	4
Lead	mg/L	0.00023	0.015
Lithium	mg/L	0.02	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.01015	0.1
Selenium	mg/L	0.001015	0.05
Thallium	mg/L	0.000228	0.002
Combined Radium 226 + 228	pCi/L	2.36	5

Notes:

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

## Table 6. First Semi-Annual Monitoring Event

### Analytical Results Summary Plant Gaston Gypsum Storage Area 01/17/2023 - 01/18/2023

Field Parameters								
Hydraulic Location	Well	Sample Date	Turbidity NTU	Field Temperature C	Conductivity uS/cm	DO mg/L	ORP mv	pH_Field SU
Upgradient	GN-GSA-MW-14S	01/17/2023	2.51	19.57	342.55	1.68	-14.88	7.43
Upgradient	GN-GSA-MW-15	01/17/2023	3.52	19.63	39.2	1	197.22	5.74
Upgradient	GN-GSA-MW-2	01/17/2023	1.98	19.24	492.94	3.93	7.27	7.14
Upgradient	GN-GSA-MW-3	01/18/2023	9.31	19.01	425.08	1.12	-34.87	6.99
Downgradient	GN-GSA-MW-1	01/17/2023	2.57	19.69	356.74	0.08	-174.46	7.69
Downgradient	GN-GSA-MW-10	01/18/2023	4.77	20.84	485.76	0.2	-17.32	7.08
Downgradient	GN-GSA-MW-11	01/18/2023	0.3	21.44	129.91	0.51	214.63	5.77
Downgradient	GN-GSA-MW-12	01/18/2023	0.5	20.59	483.51	0.23	70.86	7.11
Downgradient	GN-GSA-MW-13	01/18/2023	2.12	19.72	488.29	0.53	43.29	7.13
Downgradient	GN-GSA-MW-5	01/18/2023	4.19	19.6	600.29	0.14	-9.88	6.38
Downgradient	GN-GSA-MW-6	01/18/2023	6.18	20.16	28.98	0.13	254.95	4.75
Downgradient	GN-GSA-MW-7	01/17/2023	1.43	20.05	425.58	0.65	49.26	6.78
Downgradient	GN-GSA-MW-8	01/18/2023	3.02	19.74	306.64	0.86	-88.01	7.54
Downgradient	GN-GSA-MW-9	01/18/2023	2.2	19.57	256.24	0.21	103.9	6.71

**Notes:**

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

## Table 6. First Semi-Annual Monitoring Event

### Analytical Results Summary Plant Gaston Gypsum Storage Area 01/17/2023 - 01/18/2023

EPA Appendix III Set								
Hydraulic Location	Well	Sample Date	Boron mg/L	Calcium mg/L	Chloride mg/L	Fluoride mg/L	pH_Field SU	Sulfate mg/L
Upgradient	GN-GSA-MW-14S	01/17/2023	<0.03	54.1	2.58	<0.06	7.43	2.83
Upgradient	GN-GSA-MW-15	01/17/2023	<0.03	4.39	2.11	<0.06	5.74	1.99 J
Upgradient	GN-GSA-MW-2	01/17/2023	<0.03	83.4	4.76	<0.06	7.14	6.01
Upgradient	GN-GSA-MW-3	01/18/2023	<0.03	87.9	2.84	0.0687 J	6.99	7.56
Downgradient	GN-GSA-MW-1	01/17/2023	0.035 J	43.5	2.31	0.358	7.69	4.25
Downgradient	GN-GSA-MW-10	01/18/2023	<0.03	103	3.09	<0.06	7.08	1.96 J
Downgradient	GN-GSA-MW-11	01/18/2023	0.0603 J	13.8	14.6	<0.06	5.77	2.95
Downgradient	GN-GSA-MW-12	01/18/2023	<0.03	83.3	5.68	0.0913 J	7.11	15.6
Downgradient	GN-GSA-MW-13	01/18/2023	<0.03	93.7	3.8	<0.06	7.13	8.51
Downgradient	GN-GSA-MW-5	01/18/2023	0.0416 J	85.6	9.67	<0.06	6.38	121
Downgradient	GN-GSA-MW-6	01/18/2023	<0.03	0.583	3.69	<0.06	4.75	<0.6
Downgradient	GN-GSA-MW-7	01/17/2023	<0.03	66.8	3.65	0.1 J	6.78	6.1
Downgradient	GN-GSA-MW-8	01/18/2023	<0.03	53.8	1.71	0.105 J	7.54	3.71
Downgradient	GN-GSA-MW-9	01/18/2023	<0.03	48.8	2.01	<0.06	6.71	3.93

**Notes:**

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

## Table 6. First Semi-Annual Monitoring Event

### Analytical Results Summary Plant Gaston Gypsum Storage Area 01/17/2023 - 01/18/2023

EPA Appendix IV Set										
Hydraulic Location	Well	Sample Date	Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Cadmium mg/L	Chromium mg/L	Cobalt mg/L	Fluoride mg/L
Upgradient	GN-GSA-MW-14S	01/17/2023	<0.000508	0.000122 J	0.0201	<0.000406	<6.8e-005	0.000606 J	7.04e-005 J	<0.06
Upgradient	GN-GSA-MW-15	01/17/2023	<0.000508	0.000172 J	0.00718	<0.000406	<6.8e-005	0.000279 J	0.000272	<0.06
Upgradient	GN-GSA-MW-2	01/17/2023	<0.000508	0.000132 J	0.0363	<0.000406	<6.8e-005	0.000325 J	<6.8e-005	<0.06
Upgradient	GN-GSA-MW-3	01/18/2023	0.00195	0.000116 J	0.0213	<0.000406	<6.8e-005	0.000409 J	0.000528	0.0687 J
Downgradient	GN-GSA-MW-1	01/17/2023	<0.000508	0.00221	2.22	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.358
Downgradient	GN-GSA-MW-10	01/18/2023	0.000552 J	0.000215	0.0354	<0.000406	<6.8e-005	0.000283 J	0.000912	<0.06
Downgradient	GN-GSA-MW-11	01/18/2023	<0.000508	0.000103 J	0.0106	<0.000406	<6.8e-005	<0.000203	0.00237	<0.06
Downgradient	GN-GSA-MW-12	01/18/2023	<0.000508	0.000254	0.0223	<0.000406	<6.8e-005	<0.000203	0.000168 J	0.0913 J
Downgradient	GN-GSA-MW-13	01/18/2023	<0.000508	0.000122 J	0.0351	<0.000406	<6.8e-005	0.000417 J	8.63e-005 J	<0.06
Downgradient	GN-GSA-MW-5	01/18/2023	<0.000508	0.000836	0.0635	<0.000406	<6.8e-005	0.000262 J	0.00293	<0.06
Downgradient	GN-GSA-MW-6	01/18/2023	0.000644 J	0.000157 J	0.0176	<0.000406	<6.8e-005	0.000264 J	0.000709	<0.06
Downgradient	GN-GSA-MW-7	01/17/2023	<0.000508	0.000711	0.018	<0.000406	<6.8e-005	<0.000203	0.00128	0.1 J
Downgradient	GN-GSA-MW-8	01/18/2023	<0.000508	0.00111	0.0257	<0.000406	<6.8e-005	0.000358 J	0.00017 J	0.105 J
Downgradient	GN-GSA-MW-9	01/18/2023	<0.000508	0.000121 J	0.0217	<0.000406	<6.8e-005	0.000219 J	<6.8e-005	<0.06

Notes:

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

## Table 6. First Semi-Annual Monitoring Event

### Analytical Results Summary Plant Gaston Gypsum Storage Area 01/17/2023 - 01/18/2023

EPA Appendix IV Set									
Hydraulic Location	Well	Sample Date	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Selenium mg/L	Thallium mg/L	Combined Radium 226 + 228 pCi/L
Upgradient	GN-GSA-MW-14S	01/17/2023	<6.8e-005	<0.007105	<0.0003	0.000322	<0.000508	<6.8e-005	0.551 U
Upgradient	GN-GSA-MW-15	01/17/2023	0.000176 J	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005	0.493 U
Upgradient	GN-GSA-MW-2	01/17/2023	<6.8e-005	<0.007105	<0.0003	0.000294	<0.000508	<6.8e-005	0.8 U
Upgradient	GN-GSA-MW-3	01/18/2023	0.000121 J	<0.007105	<0.0003	0.000144 J	<0.000508	<6.8e-005	0.199 U
Downgradient	GN-GSA-MW-1	01/17/2023	0.000345	0.00981 J	<0.0003	0.00329	<0.000508	<6.8e-005	1.4
Downgradient	GN-GSA-MW-10	01/18/2023	8.01e-005 J	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005	0.632 U
Downgradient	GN-GSA-MW-11	01/18/2023	<6.8e-005	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005	0.167 U
Downgradient	GN-GSA-MW-12	01/18/2023	<6.8e-005	<0.007105	<0.0003	0.000234	<0.000508	<6.8e-005	0.305 U
Downgradient	GN-GSA-MW-13	01/18/2023	<6.8e-005	<0.007105	<0.0003	0.000285	<0.000508	<6.8e-005	0.376 U
Downgradient	GN-GSA-MW-5	01/18/2023	<6.8e-005	<0.007105	<0.0003	0.000113 J	<0.000508	<6.8e-005	0.299 U
Downgradient	GN-GSA-MW-6	01/18/2023	0.000353	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005	0.389 U
Downgradient	GN-GSA-MW-7	01/17/2023	<6.8e-005	<0.007105	<0.0003	0.000328	<0.000508	<6.8e-005	0.24 U
Downgradient	GN-GSA-MW-8	01/18/2023	<6.8e-005	<0.007105	<0.0003	0.00321	<0.000508	<6.8e-005	1.63
Downgradient	GN-GSA-MW-9	01/18/2023	<6.8e-005	<0.007105	<0.0003	0.000232	<0.000508	<6.8e-005	0.418 U

**Notes:**

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3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

**Analytical Results Summary  
Plant Gaston Gypsum Storage Area  
01/17/2023 - 01/18/2023**

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Iron Total mg/L	Potassium mg/L	Magnesium Total mg/L	Manganese Total mg/L	Sodium mg/L	Silica mg/L	Silicon mg/L	Carbon, Total Organic mg/L
Upgradient	GN-GSA-MW-14S	01/17/2023	0.0436	0.759	9.9	0.0158	10.5	10.3	4.79	<1
Upgradient	GN-GSA-MW-15	01/17/2023	0.0796	0.262 J	0.296 J	0.0305	0.949	9.93	4.64	<1
Upgradient	GN-GSA-MW-2	01/17/2023	0.00907 J	0.471 J	19.9	0.00101 J	2.34	11.7	5.46	<1
Upgradient	GN-GSA-MW-3	01/18/2023	0.0281 J	6.3	2.75	0.109	4.44	7.64	3.57	<1
Downgradient	GN-GSA-MW-1	01/17/2023	0.199	1.07	21.3	0.00584	9.21	20.5	9.56	<1
Downgradient	GN-GSA-MW-10	01/18/2023	0.0636	0.227 J	1.92	0.0918	2.03	9.89	4.62	<1
Downgradient	GN-GSA-MW-11	01/18/2023	0.0192 J	0.253 J	2.38	0.282	5.64	7.83	3.66	<1
Downgradient	GN-GSA-MW-12	01/18/2023	0.0208 J	0.284 J	10.9	0.0828	4.29	8.02	3.75	<1
Downgradient	GN-GSA-MW-13	01/18/2023	<0.00812	0.836	11.5	0.00132	3.12	9.99	4.67	<1
Downgradient	GN-GSA-MW-5	01/18/2023	2.95	0.382 J	19.8	0.718	8.87	10.8	5.03	<1
Downgradient	GN-GSA-MW-6	01/18/2023	0.0672	0.196 J	0.378 J	0.00897	2.84	9.44	4.41	<1
Downgradient	GN-GSA-MW-7	01/17/2023	0.143	0.682	9.29	0.624	5.71	7.51	3.51	1.19 J
Downgradient	GN-GSA-MW-8	01/18/2023	0.417	1.46	10.9	0.123	1.38	8.8	4.11	<1
Downgradient	GN-GSA-MW-9	01/18/2023	0.0453	0.737	6.12	0.0106	2.86	9.97	4.66	<1

Notes:

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4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

## Table 6. First Semi-Annual Monitoring Event

### Analytical Results Summary Plant Gaston Gypsum Storage Area 01/17/2023 - 01/18/2023

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Alkalinity Total as CaCO3 mg CaCO3/L	Carbonate Alkalinity as CaCO3 mg CaCO3/L	Bicarbonate Alkalinity as CaCO3 mg CaCO3/L	Calcium mg/L	Aluminum mg/L	Chloride mg/L	Nitrate Nitrite mg/L as N	Sulfate mg/L
Upgradient	GN-GSA-MW-14S	01/17/2023	181	1.72	179	54.1	0.0341 J	2.58	0.255 J	2.83
Upgradient	GN-GSA-MW-15	01/17/2023	9.72	0.00182	9.72	4.39	0.126	2.11	<0.2	1.99 J
Upgradient	GN-GSA-MW-2	01/17/2023	270	1.52	268	83.4	<0.00609	4.76	0.375	6.01
Upgradient	GN-GSA-MW-3	01/18/2023	223	0.794	222	87.9	0.0766	2.84	<0.2	7.56
Downgradient	GN-GSA-MW-1	01/17/2023	197	1.64	195	43.5	0.00763 J	2.31	<0.2	4.25
Downgradient	GN-GSA-MW-10	01/18/2023	256	1.38	255	103	0.116	3.09	<0.2	1.96 J
Downgradient	GN-GSA-MW-11	01/18/2023	34.2	0.0109	34.2	13.8	0.00819 J	14.6	<0.2	2.95
Downgradient	GN-GSA-MW-12	01/18/2023	228	1.34	227	83.3	0.0127 J	5.68	<0.2	15.6
Downgradient	GN-GSA-MW-13	01/18/2023	250	1.47	248	93.7	<0.00609	3.8	0.377	8.51
Downgradient	GN-GSA-MW-5	01/18/2023	167	NC	167	85.6	0.0711	9.67	0.263 J	121
Downgradient	GN-GSA-MW-6	01/18/2023	1.94	NC	1.94	0.583	0.141	3.69	<0.2	<0.6
Downgradient	GN-GSA-MW-7	01/17/2023	199	NC	199	66.8	0.00963 J	3.65	<0.2	6.1
Downgradient	GN-GSA-MW-8	01/18/2023	167	1.82	165	53.8	0.0135 J	1.71	<0.2	3.71
Downgradient	GN-GSA-MW-9	01/18/2023	134	NC	134	48.8	0.013 J	2.01	<0.2	3.93

Notes:

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4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation



## Table 6. First Semi-Annual Monitoring Event

### Analytical Results Summary Plant Gaston Gypsum Storage Area 01/17/2023 - 01/18/2023

General Chemistry and MNA Parameters			
Hydraulic Location	Well	Sample Date	Sulfide mg/L
Upgradient	GN-GSA-MW-14S	01/17/2023	0
Upgradient	GN-GSA-MW-15	01/17/2023	0
Upgradient	GN-GSA-MW-2	01/17/2023	0
Upgradient	GN-GSA-MW-3	01/18/2023	0
Downgradient	GN-GSA-MW-1	01/17/2023	0
Downgradient	GN-GSA-MW-10	01/18/2023	0
Downgradient	GN-GSA-MW-11	01/18/2023	0
Downgradient	GN-GSA-MW-12	01/18/2023	0
Downgradient	GN-GSA-MW-13	01/18/2023	0
Downgradient	GN-GSA-MW-5	01/18/2023	0
Downgradient	GN-GSA-MW-6	01/18/2023	0
Downgradient	GN-GSA-MW-7	01/17/2023	0
Downgradient	GN-GSA-MW-8	01/18/2023	0
Downgradient	GN-GSA-MW-9	01/18/2023	0

#### Notes:

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

## Table 7. Second Semi-Annual Monitoring Event

### Analytical Results Summary Plant Gaston Gypsum Storage Area 07/10/2023 - 07/12/2023

Field Parameters								
Hydraulic Location	Well	Sample Date	Turbidity NTU	Field Temperature C	pH_Field SU	ORP mv	DO mg/L	Conductivity uS/cm
Upgradient	GN-GSA-MW-14S	07/12/2023	3.07	20.22	6.68	29.89	1.66	329.93
Upgradient	GN-GSA-MW-15	07/12/2023	8.04	20.95	5.38	178.26	2.86	30.52
Upgradient	GN-GSA-MW-2	07/11/2023	2.24	24.13	7.04	28.58	2.77	507.59
Upgradient	GN-GSA-MW-3	07/12/2023	9.94	21.46	6.21	228.77	1.01	359.76
Downgradient	GN-GSA-MW-1	07/11/2023	1.88	21.67	7.58	-119.08	0.88	372.42
Downgradient	GN-GSA-MW-10	07/11/2023	3.78	21.59	6.89	88.45	0.18	461.59
Downgradient	GN-GSA-MW-11	07/11/2023	2.03	21.53	5.33	247.49	0.49	139.68
Downgradient	GN-GSA-MW-12	07/11/2023	2	20.89	6.79	180.86	0.15	444.78
Downgradient	GN-GSA-MW-13	07/11/2023	1.61	20.74	6.62	183.8	0.91	494.28
Downgradient	GN-GSA-MW-5	07/10/2023	8.68	19.88	6.3	-11.66	0.25	647.55
Downgradient	GN-GSA-MW-6	07/10/2023	2.17	20.89	4.4	335.23	0.14	28.26
Downgradient	GN-GSA-MW-7	07/10/2023	1.89	24.79	6.66	516.63	2.02	388.38
Downgradient	GN-GSA-MW-8	07/11/2023	4.69	21.78	7.32	-34.5	1	320.77
Downgradient	GN-GSA-MW-9	07/11/2023	2.7	20.47	6.23	129.43	0.42	276.2

**Notes:**

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4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

## Table 7. Second Semi-Annual Monitoring Event

### Analytical Results Summary Plant Gaston Gypsum Storage Area 07/10/2023 - 07/12/2023

EPA Appendix III Set								
Hydraulic Location	Well	Sample Date	Boron mg/L	Calcium mg/L	Chloride mg/L	Fluoride mg/L	pH_Field SU	Sulfate mg/L
Upgradient	GN-GSA-MW-14S	07/12/2023	<0.03	54	2.36	<0.06	6.68	2.79
Upgradient	GN-GSA-MW-15	07/12/2023	<0.03	3.81	2.04	<0.06	5.38	8.91
Upgradient	GN-GSA-MW-2	07/11/2023	<0.03	79.7	3.58	<0.06	7.04	6.77
Upgradient	GN-GSA-MW-3	07/12/2023	<0.03	78.4	2.79	0.0634 J	6.21	8.92
Downgradient	GN-GSA-MW-1	07/11/2023	0.0346 J	47.2	2.18	0.3	7.58	4.01
Downgradient	GN-GSA-MW-10	07/11/2023	<0.03	103	2.82	<0.06	6.89	1.85 J
Downgradient	GN-GSA-MW-11	07/11/2023	0.0659 J	14.7	21.4	<0.06	5.33	1.97 J
Downgradient	GN-GSA-MW-12	07/11/2023	<0.03	81.1	3.84	<0.06	6.79	9.46
Downgradient	GN-GSA-MW-13	07/11/2023	<0.03	105	3.69	0.103 J	6.62	9.4
Downgradient	GN-GSA-MW-5	07/10/2023	0.0436 J	85	8.17	0.099 J	6.3	191
Downgradient	GN-GSA-MW-6	07/10/2023	<0.03	0.589	3.44	<0.06	4.4	0.94 J
Downgradient	GN-GSA-MW-7	07/10/2023	<0.03	65.6	3.33	0.1 J	6.66	5.64
Downgradient	GN-GSA-MW-8	07/11/2023	<0.03	55	1.56	0.0857 J	7.32	4.37
Downgradient	GN-GSA-MW-9	07/11/2023	<0.03	48.1	1.87	<0.06	6.23	4.18

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4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

## Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary  
Plant Gaston Gypsum Storage Area  
07/10/2023 - 07/12/2023

EPA Appendix IV Set										
Hydraulic Location	Well	Sample Date	Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Cadmium mg/L	Chromium mg/L	Cobalt mg/L	Fluoride mg/L
Upgradient	GN-GSA-MW-14S	07/12/2023	<0.00071	<0.000112	0.0258	<0.000406	<6.8e-005	0.000639 J	<6.8e-005	<0.06
Upgradient	GN-GSA-MW-15	07/12/2023	<0.00071	0.000216	0.00706	<0.000406	<6.8e-005	0.000272 J	0.000541	<0.06
Upgradient	GN-GSA-MW-2	07/11/2023	<0.00071	0.000148 J	0.0359	<0.000406	<6.8e-005	0.00056 J	<6.8e-005	<0.06
Upgradient	GN-GSA-MW-3	07/12/2023	0.00123	0.000127 J	0.0279	<0.000406	<6.8e-005	0.000378 J	0.000386	0.0634 J
Downgradient	GN-GSA-MW-1	07/11/2023	<0.00071	0.00179	2.43	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.3
Downgradient	GN-GSA-MW-10	07/11/2023	<0.00071	<0.000112	0.0381	<0.000406	7.92e-005 J	<0.000203	0.000174 J	<0.06
Downgradient	GN-GSA-MW-11	07/11/2023	<0.00071	<0.000112	0.0152	<0.000406	<6.8e-005	0.000239 J	0.00288	<0.06
Downgradient	GN-GSA-MW-12	07/11/2023	<0.00071	0.000124 J	0.0227	<0.000406	<6.8e-005	0.000361 J	7.47e-005 J	<0.06
Downgradient	GN-GSA-MW-13	07/11/2023	<0.00071	0.000131 J	0.0426	<0.000406	<6.8e-005	0.000446 J	7.37e-005 J	0.103 J
Downgradient	GN-GSA-MW-5	07/10/2023	<0.00071	0.0013	0.0839	<0.000406	<6.8e-005	0.000239 J	0.0035	0.099 J
Downgradient	GN-GSA-MW-6	07/10/2023	<0.00071	<0.000112	0.0195	<0.000406	<6.8e-005	0.000217 J	0.000713	<0.06
Downgradient	GN-GSA-MW-7	07/10/2023	<0.00071	0.000416	0.0165	<0.000406	<6.8e-005	0.000299 J	0.000572	0.1 J
Downgradient	GN-GSA-MW-8	07/11/2023	<0.00071	0.00119	0.0271	<0.000406	<6.8e-005	0.000371 J	0.000144 J	0.0857 J
Downgradient	GN-GSA-MW-9	07/11/2023	<0.00071	<0.000112	0.0241	<0.000406	<6.8e-005	0.000207 J	7.3e-005 J	<0.06

Notes:

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- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- NC = value not detected with alkalinity calculation

## Table 7. Second Semi-Annual Monitoring Event

### Analytical Results Summary Plant Gaston Gypsum Storage Area 07/10/2023 - 07/12/2023

EPA Appendix IV Set									
Hydraulic Location	Well	Sample Date	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Selenium mg/L	Thallium mg/L	Combined Radium 226 + 228 pCi/L
Upgradient	GN-GSA-MW-14S	07/12/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005	1.29 U
Upgradient	GN-GSA-MW-15	07/12/2023	0.000122 J	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005	0.553 U
Upgradient	GN-GSA-MW-2	07/11/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005	0.382 U
Upgradient	GN-GSA-MW-3	07/12/2023	0.000187 J	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005	1.14 U
Downgradient	GN-GSA-MW-1	07/11/2023	<6.8e-005	0.00982 J	<0.0003	<0.005075	<0.000508	<6.8e-005	1.57
Downgradient	GN-GSA-MW-10	07/11/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005	1.51
Downgradient	GN-GSA-MW-11	07/11/2023	0.000108 J	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005	0.673 U
Downgradient	GN-GSA-MW-12	07/11/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005	0.707 U
Downgradient	GN-GSA-MW-13	07/11/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005	0.716 U
Downgradient	GN-GSA-MW-5	07/10/2023	9.25e-005 J	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005	1.43
Downgradient	GN-GSA-MW-6	07/10/2023	0.000324	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005	0.941 U
Downgradient	GN-GSA-MW-7	07/10/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005	1.09
Downgradient	GN-GSA-MW-8	07/11/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005	1.2
Downgradient	GN-GSA-MW-9	07/11/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005	0.712 U

Notes:

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4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

## Table 7. Second Semi-Annual Monitoring Event

### Analytical Results Summary Plant Gaston Gypsum Storage Area 07/10/2023 - 07/12/2023

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Sulfide mg/L	Potassium mg/L	Chloride mg/L	Nitrate Nitrite mg/L as N	Sulfate mg/L	Aluminum mg/L	Calcium mg/L	Iron Total mg/L
Upgradient	GN-GSA-MW-14S	07/12/2023	0	0.837	2.36	0.272 J	2.79	0.0283 J	54	0.0346 J
Upgradient	GN-GSA-MW-15	07/12/2023	0	0.257 J	2.04	0.237 J	8.91	0.068	3.81	0.245
Upgradient	GN-GSA-MW-2	07/11/2023	0	0.566	3.58	0.467	6.77	<0.009135	79.7	0.0595
Upgradient	GN-GSA-MW-3	07/12/2023	0	7.82	2.79	<0.2	8.92	0.0667	78.4	0.0396 J
Downgradient	GN-GSA-MW-1	07/11/2023	0	1.22	2.18	<0.2	4.01	<0.009135	47.2	0.189
Downgradient	GN-GSA-MW-10	07/11/2023	0	0.214 J	2.82	<0.2	1.85 J	0.0291 J	103	0.0156 J
Downgradient	GN-GSA-MW-11	07/11/2023	0	0.315 J	21.4	<0.2	1.97 J	0.0156 J	14.7	0.0237 J
Downgradient	GN-GSA-MW-12	07/11/2023	0	0.302 J	3.84	<0.2	9.46	0.0134 J	81.1	0.011 J
Downgradient	GN-GSA-MW-13	07/11/2023	0	0.943	3.69	0.389	9.4	<0.009135	105	<0.00812
Downgradient	GN-GSA-MW-5	07/10/2023	0	0.465 J	8.17	<0.2	191	0.0671	85	4.99
Downgradient	GN-GSA-MW-6	07/10/2023	0	0.196 J	3.44	0.217 J	0.94 J	0.109	0.589	0.0483
Downgradient	GN-GSA-MW-7	07/10/2023	0	0.763	3.33	<0.2	5.64	<0.009135	65.6	0.0552
Downgradient	GN-GSA-MW-8	07/11/2023	0	1.58	1.56	<0.2	4.37	0.0155 J	55	0.432
Downgradient	GN-GSA-MW-9	07/11/2023	0	0.792	1.87	<0.2	4.18	0.0233 J	48.1	0.0917

Notes:

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

## Table 7. Second Semi-Annual Monitoring Event

### Analytical Results Summary Plant Gaston Gypsum Storage Area 07/10/2023 - 07/12/2023

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Magnesium Total mg/L	Manganese Total mg/L	Sodium mg/L	Silica mg/L	Silicon mg/L	Carbon, Total Organic mg/L	Alkalinity Total as CaCO3 mg CaCO3/L	Carbonate Alkalinity as CaCO3 mg CaCO3/L
Upgradient	GN-GSA-MW-14S	07/12/2023	9.06	0.0141	8.6	10.4	4.87	<1	182	1.73
Upgradient	GN-GSA-MW-15	07/12/2023	0.279 J	0.054	1.07	9.42	4.4	<1	8.43	NC
Upgradient	GN-GSA-MW-2	07/11/2023	20.3	0.00247	2.17	11.7	5.48	<1	267	0.908
Upgradient	GN-GSA-MW-3	07/12/2023	2.68	0.0584	4.36	7.83	3.66	<1	203	1.14
Downgradient	GN-GSA-MW-1	07/11/2023	20.8	0.0059	8.97	20.1	9.4	<1	199	2.08
Downgradient	GN-GSA-MW-10	07/11/2023	1.84	0.0304	2	9.42	4.4	<1	247	0.699
Downgradient	GN-GSA-MW-11	07/11/2023	2.66	0.19	6.18	7.45	3.48	<1	31.6	NC
Downgradient	GN-GSA-MW-12	07/11/2023	9.76	0.0591	2.7	8.07	3.77	<1	228	1.15
Downgradient	GN-GSA-MW-13	07/11/2023	11.5	0.00109	2.82	10.1	4.73	<1	254	0.585
Downgradient	GN-GSA-MW-5	07/10/2023	21.6	0.896	18.8	11.1	5.21	1.29 J	164	NC
Downgradient	GN-GSA-MW-6	07/10/2023	0.397 J	0.00955	2.9	8.95	4.18	<1	4.3	NC
Downgradient	GN-GSA-MW-7	07/10/2023	9.04	0.257	5	7.17	3.35	1.07 J	198	NC
Downgradient	GN-GSA-MW-8	07/11/2023	10.4	0.105	1.33	8.67	4.05	<1	170	1.18
Downgradient	GN-GSA-MW-9	07/11/2023	6.52	0.00982	2.8	9.52	4.45	<1	146	NC

Notes:

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

### Analytical Results Summary Plant Gaston Gypsum Storage Area 07/10/2023 - 07/12/2023

General Chemistry and MNA Parameters			
Hydraulic Location	Well	Sample Date	Bicarbonate Alkalinity as CaCO <sub>3</sub> mg CaCO <sub>3</sub> /L
Upgradient	GN-GSA-MW-14S	07/12/2023	180
Upgradient	GN-GSA-MW-15	07/12/2023	8.42
Upgradient	GN-GSA-MW-2	07/11/2023	266
Upgradient	GN-GSA-MW-3	07/12/2023	202
Downgradient	GN-GSA-MW-1	07/11/2023	197
Downgradient	GN-GSA-MW-10	07/11/2023	246
Downgradient	GN-GSA-MW-11	07/11/2023	31.6
Downgradient	GN-GSA-MW-12	07/11/2023	227
Downgradient	GN-GSA-MW-13	07/11/2023	253
Downgradient	GN-GSA-MW-5	07/10/2023	164
Downgradient	GN-GSA-MW-6	07/10/2023	4.3
Downgradient	GN-GSA-MW-7	07/10/2023	198
Downgradient	GN-GSA-MW-8	07/11/2023	169
Downgradient	GN-GSA-MW-9	07/11/2023	146

**Notes:**

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



# Appendix A



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		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
<b>Appendix III</b>										
Boron	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Calcium	mg/L	75.3	75.7	78.8	84.3	87.2	80	75.2	77.2	77.5
Chloride	mg/L	3.6	4.18	3.12	3.21	3.33	4.6	3.8	3.4	4.4
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
pH_Field	SU	--	--	--	--	--	--	--	--	--
Sulfate	mg/L	6.48	11.1	6.7	6.85	7.3	7.7	5.3	6.4	6.1
TDS	mg/L	272	283	294	295	310	280	287	287	280
<b>Appendix IV</b>										
Antimony	mg/L	<0.0006	0.000616 J	<0.0006	0.00073 J	<0.0006	<0.0006	<0.0006	<0.0006	--
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--
Barium	mg/L	0.0389	0.0552	0.0329	0.0297	0.0313	0.0396	0.0301	0.0274	--
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--
Combined Radium	pCi/L	3 U	0.24 U	0.225 U	0.0553 U	0.614 U	1.6	0.0999 U	0.241 U	--
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-2								
		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
<b>Appendix III</b>										
Boron	mg/L	--	<0.02	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	--	78.9	96.9	87.3	89.8	81.4	80.9	77.5	85
Chloride	mg/L	--	3.4	3.6	3.53	3.56	3.66	3.44	3.55	3.59
Fluoride	mg/L	0.04 J	<0.032	<0.032	<0.05	<0.05	<0.05	0.0644 J	<0.06	0.0664 J
pH_Field	SU	--	--	--	7.13	7.16	7.11	7.22	6.94	7.13
Sulfate	mg/L	--	7.2	8.3	7.52	9.25	10.7	7.77	7.44	6.86
TDS	mg/L	--	284	278	286	297	276	272	--	--
<b>Appendix IV</b>										
Antimony	mg/L	<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	0.000123 J	0.000168 J
Barium	mg/L	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	<0.000406	<0.000406
Cadmium	mg/L	<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	0.000517 J	0.000605 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005
Combined Radium	pCi/L	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	<6.8e-005	<6.8e-005
Lithium	mg/L	<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	<0.0003	<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	0.000307	0.000338

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-2				GN-GSA-MW-3				
		04/12/2022	08/16/2022	01/17/2023	07/11/2023	03/23/2016	05/10/2016	07/06/2016	09/07/2016	11/08/2016
<b>Appendix III</b>										
Boron	mg/L	<0.03	<0.03	<0.03	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02
Calcium	mg/L	87.1	96.3	83.4	79.7	106	109	98.7	98.6	99.7
Chloride	mg/L	3.23	3.66	4.76	3.58	3.67	3.34	3.08	2.95	2.92
Fluoride	mg/L	<0.06	0.0865 J	<0.06	<0.06	0.06 J	0.111 J	0.089 J	0.073 J	<0.01
pH_Field	SU	6.48	7.04	7.14	7.04	--	--	--	--	--
Sulfate	mg/L	8.36	8.31	6.01	6.77	32.6	27.6	23.6	22.2	20.4
TDS	mg/L	--	--	--	--	334	349	316	309	302
<b>Appendix IV</b>										
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.00071	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Arsenic	mg/L	0.000102 J	8.24e-005 J	0.000132 J	0.000148 J	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	0.034	0.0314	0.0363	0.0359	0.0597	0.0622	0.0512	0.0453	0.0423
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chromium	mg/L	0.000518 J	0.000633 J	0.000325 J	0.00056 J	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.00232 J	<0.002	<0.002	<0.002	<0.002
Combined Radium	pCi/L	0.535 U	0.346 U	0.8 U	0.382 U	3 U	0.94	0.878	1.45	1.48
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	0.000259	0.00037	0.000294	<0.005075	<0.002	<0.002	<0.002	<0.002	<0.002

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-3								
		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
<b>Appendix III</b>										
Boron	mg/L	<0.02	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.03	<0.03
Calcium	mg/L	93.4	84.1	92.6	86.1	--	76.5	68.8	53.1	76.4
Chloride	mg/L	3.3	2.9	2.6	3.5	--	3.1	2.6	2.83	2.92
Fluoride	mg/L	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
pH_Field	SU	--	--	--	--	--	--	--	6.38	6.71
Sulfate	mg/L	14	15	11	17	--	14	12	11	10.9
TDS	mg/L	297	287	283	284	--	248	215	184	225
<b>Appendix IV</b>										
Antimony	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008
Arsenic	mg/L	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	0.0306	0.0347	0.0287	--	0.0341	0.0323	0.035	0.0271	0.0358
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002
Combined Radium	pCi/L	0.755	0.91	0.154 U	--	0.111 U	0.289 U	0.879	0.643 U	2.36
Lead	mg/L	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury	mg/L	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-3								GN-GSA-MW-
		02/12/2020	09/09/2020	04/13/2021	10/04/2021	04/12/2022	08/16/2022	01/18/2023	07/12/2023	07/05/2016
<b>Appendix III</b>										
Boron	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.02
Calcium	mg/L	89.6	63.1	57.8	43.7	55.1	50.5	87.9	78.4	50.8
Chloride	mg/L	2.49	2.74	2.76	2.88	2.67	3.08	2.84	2.79	3.86
Fluoride	mg/L	0.0566 J	0.0748 J	0.069 J	0.0637 J	<0.06	<0.06	0.0687 J	0.0634 J	0.072 J
pH_Field	SU	6.98	6.48	6.71	6.43	5.57	6.25	6.99	6.21	--
Sulfate	mg/L	9.13	8.76	7.88	8.09	7.36	7.79	7.56	8.92	11.7
TDS	mg/L	250	220	--	--	--	--	--	--	194
<b>Appendix IV</b>										
Antimony	mg/L	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	0.00195	0.00123	<0.0006
Arsenic	mg/L	<0.001	<0.001	0.00011 J	<6.8e-005	<8.1e-005	<8.1e-005	0.000116 J	0.000127 J	<0.001
Barium	mg/L	0.0257	0.0273	0.0259	0.0232	0.0309	0.025	0.0213	0.0279	0.0375
Beryllium	mg/L	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006
Cadmium	mg/L	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002
Chromium	mg/L	<0.002	<0.002	0.000337 J	0.000455 J	0.000249 J	0.000408 J	0.000409 J	0.000378 J	<0.002
Cobalt	mg/L	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000528	0.000386	<0.002
Combined Radium	pCi/L	0.444 U	1.02	0.652 U	1.22 U	0.319 U	0.877 U	0.199 U	1.14 U	0.385 U
Lead	mg/L	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000121 J	0.000187 J	<0.001
Lithium	mg/L	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.01
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025
Molybdenum	mg/L	<0.002	<0.002	7.49e-005 J	<6.8e-005	<0.000102	<0.000102	0.000144 J	<0.005075	<0.002

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-14S								
		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
<b>Appendix III</b>										
Boron	mg/L	<0.02	<0.02	<0.02	0.0211 J	<0.02	<0.02	<0.02	<0.02	--
Calcium	mg/L	51.7	48.4	50.7	55.4	48	45.4	45.7	48.5	--
Chloride	mg/L	4.69	4.6	4.68	5.25	4.3	4.2	3.4	4.5	--
Fluoride	mg/L	0.066 J	0.062 J	<0.01	<0.01	0.1	0.06 J	0.04 J	0.06 J	0.06 J
pH_Field	SU	--	--	--	--	--	--	--	--	--
Sulfate	mg/L	13.7	12.4	12.9	14.1	6.1	8	3.8 J	6.8	--
TDS	mg/L	208	198	205	221	195	220	185	202	--
<b>Appendix IV</b>										
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001
Barium	mg/L	0.0353	0.0365	0.0393	0.0373	0.0262	0.0305	0.0245	--	0.034
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002
Combined Radium	pCi/L	0.411 U	0.88	0.791	0.412 U	0.746	0.115 U	0.152 U	--	0.308 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-14S								
		06/12/2018	10/23/2018	05/22/2019	09/04/2019	02/12/2020	09/09/2020	04/13/2021	10/04/2021	04/13/2022
<b>Appendix III</b>										
Boron	mg/L	<0.02	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	45.2	44.4	47.1	47.4	57.3	46.7	48.4	48	58.9
Chloride	mg/L	3.6	3.4	2.89	2.88	2.4	2.49	2.56	2.5	2.42
Fluoride	mg/L	0.05 J	0.07 J	0.0601 J	0.0703 J	<0.05	0.0847 J	<0.06	0.0838 J	<0.06
pH_Field	SU	--	--	7.43	7.45	7.47	7.32	7.33	7.21	7.4
Sulfate	mg/L	5	5.4	5.57	6.37	3.09	5.26	3.45	3.78	2.44
TDS	mg/L	205	204	202	195	189	198	--	--	--
<b>Appendix IV</b>										
Antimony	mg/L	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000187 J	0.000158 J	0.000143 J
Barium	mg/L	0.0291	0.032	0.0257	0.0303	0.0239	0.0262	0.0217	0.024	0.0217
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000697 J	0.000653 J	0.000699 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium	pCi/L	0.672	0.248 U	0.24 U	2.02	0.79	0.453 U	0.788 U	0.573 U	0.127 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000334	0.000456	0.000247

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.





**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-14S			GN-GSA-MW-15					
		08/16/2022	01/17/2023	07/12/2023	07/06/2016	08/23/2016	09/07/2016	11/08/2016	01/03/2017	02/20/2017
<b>Appendix III</b>										
Boron	mg/L	<0.03	<0.03	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Calcium	mg/L	52.1	54.1	61.6	10.7	7.34	7.86	8.94	9.21	8.53
Chloride	mg/L	2.54	2.58	2.36	3.78	3.47	3.4	3.29	3.11	2.7
Fluoride	mg/L	<0.06	<0.06	<0.06	0.062 J	0.045 J	0.042 J	<0.01	<0.01	0.1
pH_Field	SU	6.96	7.43	6.68	--	--	--	--	--	--
Sulfate	mg/L	4.71	2.83	2.79	5.38	4.23	3.84	3.23	3	3.1 J
TDS	mg/L	--	--	--	55.3	45.3	37.3	40.7	47.3	55.3
<b>Appendix IV</b>										
Antimony	mg/L	<0.000508	<0.000508	<0.00071	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Arsenic	mg/L	0.00014 J	0.000122 J	<0.000112	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	0.0251	0.0201	0.0252	0.014	0.00858 J	0.00994 J	0.0108	0.00989 J	0.00932 J
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chromium	mg/L	0.000574 J	0.000606 J	0.000639 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	0.000124 J	7.04e-005 J	<6.8e-005	0.00313 J	<0.002	<0.002	<0.002	<0.002	<0.002
Combined Radium	pCi/L	0.753 U	0.551 U	1.29 U	0.563	0.352 U	1.08	0.908	0.661	0.155 U
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	0.000334	0.000322	<0.005075	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-15								
		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
<b>Appendix III</b>										
Boron	mg/L	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.03	<0.03	<0.03
Calcium	mg/L	7.02	8.08	7.44	--	7.37	5.94	6.34	6.07	5.62
Chloride	mg/L	2.3	2	2.5	--	2	1.5 J	1.75	1.95	1.8
Fluoride	mg/L	0.1	<0.032	<0.032	<0.032	<0.032	<0.032	<0.05	<0.05	<0.05
pH_Field	SU	--	--	--	--	--	--	5.81	5.67	5.72
Sulfate	mg/L	2.1 J	2 J	2.2 J	--	2.3 J	<1.4	2.82	2.3	1.77
TDS	mg/L	46.7	41.3	34.7	--	38	27.3	35.3	28	30.7
<b>Appendix IV</b>										
Antimony	mg/L	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008
Arsenic	mg/L	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	0.00876 J	0.00935 J	--	0.00897 J	0.0112	0.00948 J	0.00958 J	0.00964 J	0.0088 J
Beryllium	mg/L	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Combined Radium	pCi/L	-0.105 U	0.372	--	0.0874 U	0.446	0.829	0.588	1.06	0.297 U
Lead	mg/L	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury	mg/L	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<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

**Notes:**

1. mg/L - Milligrams per Liter
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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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
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5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
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**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-15							GN-GSA-MW-1	
		09/09/2020	04/13/2021	10/06/2021	04/12/2022	08/16/2022	01/17/2023	07/12/2023	03/24/2016	05/10/2016
<b>Appendix III</b>										
Boron	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.0311 J	0.0334 J
Calcium	mg/L	4.73	5.17	4.62	4.59	4.13	4.39	3.81	36.9	37.9
Chloride	mg/L	1.95	1.86	2.07	1.88	2.27	2.11	2.04	3.35	3.06
Fluoride	mg/L	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	0.325	0.33
pH_Field	SU	5.71	5.84	5.64	5.25	5.37	5.74	5.38	--	--
Sulfate	mg/L	2	2.51	2.15	1.76 J	3.73	1.99 J	8.91	6.06	5.47
TDS	mg/L	32.7	--	--	--	--	--	--	203	204
<b>Appendix IV</b>										
Antimony	mg/L	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	0.00116 J	0.000629 J
Arsenic	mg/L	<0.001	0.000134 J	0.000319	0.000281	0.000298	0.000172 J	0.000216	0.0444	0.041
Barium	mg/L	0.00706 J	0.00801	0.00769	0.00927	0.0074	0.00718	0.00706	1.43	1.83
Beryllium	mg/L	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006
Cadmium	mg/L	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002
Chromium	mg/L	<0.002	0.000375 J	<0.000203	0.000234 J	0.000374 J	0.000279 J	0.000272 J	<0.002	<0.002
Cobalt	mg/L	<0.002	0.00046	0.000501	0.000658	0.000587	0.000272	0.000541	<0.002	<0.002
Combined Radium	pCi/L	0.258 U	0.452 U	1.33	0.336 U	0.703 U	0.493 U	0.553 U	3 U	0.904
Lead	mg/L	<0.001	<6.8e-005	<6.8e-005	0.000226	0.000115 J	0.000176 J	0.000122 J	<0.001	<0.001
Lithium	mg/L	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025
Molybdenum	mg/L	<0.002	<6.8e-005	<6.8e-005	<0.000102	<0.000102	<0.000102	<0.005075	0.0241	0.0239

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
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5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-1								
		07/05/2016	09/06/2016	11/08/2016	02/22/2017	03/01/2017	05/31/2017	07/05/2017	09/07/2017	02/05/2018
<b>Appendix III</b>										
Boron	mg/L	0.0359 J	0.0316 J	0.0361 J	0.028 J	--	0.0297 J	0.0302 J	0.0345 J	--
Calcium	mg/L	35.3	34.8	34.3	35.9	--	34.3	35.5	36.7	--
Chloride	mg/L	2.9	2.54	2.34	2.9	--	2.7	2.2	2.9	--
Fluoride	mg/L	0.325	0.315	0.227 J	0.34	--	0.3	0.3	0.37	0.37
pH_Field	SU	--	--	--	--	--	--	--	--	--
Sulfate	mg/L	4.8	3.91	2.95	3.3 J	--	3.4 J	3.4 J	3.6 J	--
TDS	mg/L	188	188	197	165	--	244	201	196	--
<b>Appendix IV</b>										
Antimony	mg/L	0.000718 J	0.000833 J	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006
Arsenic	mg/L	0.0333	0.0289	0.0241	0.0192	--	0.0154	0.0155	--	0.014
Barium	mg/L	1.71	1.65	1.6	1.53	--	1.66	1.66	--	1.8
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002
Combined Radium	pCi/L	0.971	1.09	1.13	--	0.736	0.961	1.1	--	0.596
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025
Molybdenum	mg/L	0.0176	0.0138	0.0102	0.0102	--	0.00805 J	0.009 J	--	0.00908 J

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-1								
		06/12/2018	10/23/2018	05/21/2019	09/04/2019	02/12/2020	09/09/2020	04/13/2021	10/04/2021	02/08/2022
<b>Appendix III</b>										
Boron	mg/L	0.0331 J	0.0345 J	0.0376 J	0.0363 J	0.0349 J	0.0366 J	0.0306 J	0.0343 J	0.0355 J
Calcium	mg/L	42.2	38.9	47.8	41.4	44.1	44.5	44	45.4	42.3
Chloride	mg/L	2.4	2.1	2.6	2.39	2.36	2.49	2.54	2.58	2.4
Fluoride	mg/L	0.32	0.39	0.264	0.33	0.301	0.313	0.29	0.376	0.282
pH_Field	SU	--	--	7.5	7.4	7.66	7.6	7.7	7.33	7.64
Sulfate	mg/L	4.2 J	3 J	4.58	4.82	5.11	3.97	4.43	4.08	4.41
TDS	mg/L	221	195	244	200	219	221	--	--	--
<b>Appendix IV</b>										
Antimony	mg/L	<0.0006	<0.0008	0.000909 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.011	0.00829	0.00722	0.00534	0.0062	0.0046 J	0.00427	0.00335	0.00275
Barium	mg/L	2.32	2.22	2.51	1.96	2.15	2.5	2.41	1.92	2.43
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000203	0.000207 J	<0.000203
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium	pCi/L	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	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	0.0101 J	0.00953 J	0.00963 J	0.00909 J
Mercury	mg/L	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00655 J	0.006 J	0.00504 J	0.00504 J	0.00448 J	0.00405 J	0.00353	0.00372	0.00355

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-1				GN-GSA-MW-5				
		04/13/2022	08/18/2022	01/17/2023	07/11/2023	03/23/2016	05/11/2016	07/06/2016	09/06/2016	11/08/2016
<b>Appendix III</b>										
Boron	mg/L	0.0353 J	<0.03	0.035 J	0.0346 J	<0.02	<0.02	<0.02	<0.02	<0.02
Calcium	mg/L	47.5	53.5	43.6	47.2	48.1	46	52.1	49.7	54.3
Chloride	mg/L	2.17	2.3	2.38	2.18	4.84	4.19	4.67	4.23	4.51
Fluoride	mg/L	0.307	0.327	0.299	0.3	0.028 J	0.074 J	0.065 J	0.052 J	<0.01
pH_Field	SU	7.5	7.46	7.69	7.58	--	--	--	--	--
Sulfate	mg/L	4.24	4.84	4.25	4.01	14.1	13.5	17.1	11.2	10.9
TDS	mg/L	--	--	--	--	185	176	203	180	187
<b>Appendix IV</b>										
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.00071	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Arsenic	mg/L	0.00248	0.00199	0.00221	0.00179	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	2.68	2.23	2.19	2.43	0.0333	0.0378	0.0456	0.0378	0.039
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chromium	mg/L	<0.000203	<0.000203	<0.000203	<0.000203	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.00403 J	0.00289 J	0.00485 J	0.00281 J	0.0035 J
Combined Radium	pCi/L	1.31	0.975	1.4	1.57	3 U	0.0157 U	0.648	0.633	0.67
Lead	mg/L	<6.8e-005	<6.8e-005	0.000345	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	0.00966 J	0.00965 J	0.00984 J	0.00982 J	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	0.0033	0.00295	0.00351	<0.005075	<0.002	<0.002	<0.002	<0.002	<0.002

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-5								
		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
<b>Appendix III</b>										
Boron	mg/L	<0.02	<0.02	<0.02	0.022 J	--	0.0386 J	0.0456 J	0.0769 J	0.0641 J
Calcium	mg/L	51.3	50	56.9	66.5	--	62.4	60.6	58.8	57.9
Chloride	mg/L	5.8	13	17	17	--	14	14	12.9	11.9
Fluoride	mg/L	0.1	0.04 J	<0.032	<0.032	<0.032	0.04 J	0.06 J	0.0842 J	0.0962 J
pH_Field	SU	--	--	--	--	--	--	--	6.59	6.81
Sulfate	mg/L	8.8	12	19	33	--	47	40	75.6	56.3
TDS	mg/L	205	187	238	269	--	312	292	398	388
<b>Appendix IV</b>										
Antimony	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	0.00241 J	<0.0008
Arsenic	mg/L	<0.001	<0.001	<0.001	--	<0.001	0.00119 J	0.00188 J	0.00259 J	0.00305 J
Barium	mg/L	0.0337	0.0374	0.0361	--	0.0418	0.056	0.0711	0.0671	0.0824
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	<0.002	<0.002	<0.002	--	0.00274 J	0.00472 J	0.0049 J	0.00489 J	0.00527
Combined Radium	pCi/L	0.073 U	0.646	0.16 U	--	0.0645 U	0.577	1.16	-0.251 U	1.05
Lead	mg/L	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury	mg/L	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
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5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-5								GN-GSA-MW-6
		02/11/2020	09/08/2020	04/13/2021	10/04/2021	04/12/2022	08/16/2022	01/18/2023	07/10/2023	03/23/2016
<b>Appendix III</b>										
Boron	mg/L	0.0406 J	0.0425 J	0.0333 J	0.0392 J	0.0481 J	0.0382 J	0.0416 J	0.0436 J	<0.02
Calcium	mg/L	76.6	83.9	79.2	81.6	94.1	94.8	85.6	85	1.32
Chloride	mg/L	11.2	11.7	9.78	9.52	7.35	9.72	9.6	8.17	3.36
Fluoride	mg/L	<0.05	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	0.099 J	<0.01
pH_Field	SU	6.42	6.2	6.36	6.66	6.32	6.28	6.38	6.3	--
Sulfate	mg/L	79.7	113	108	112	145	146	121	191	1.89
TDS	mg/L	308	360	--	--	--	--	--	--	27.3
<b>Appendix IV</b>										
Antimony	mg/L	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	<0.0006
Arsenic	mg/L	<0.001	<0.001	0.000587	0.000571	0.000896	0.00136	0.000839	0.0013	<0.001
Barium	mg/L	0.0513	0.0464	0.0478	0.0494	0.0666	0.0747	0.0635	0.0839	0.0149
Beryllium	mg/L	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006
Cadmium	mg/L	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002
Chromium	mg/L	<0.002	<0.002	<0.000203	0.000277 J	0.000287 J	0.000271 J	<0.000203	0.000239 J	<0.002
Cobalt	mg/L	<0.002	<0.002	0.00104	0.00142	0.00215	0.0039	0.00284	0.0035	<0.002
Combined Radium	pCi/L	0.585	0.921	0.434 U	0.11 U	0.739 U	0.734 U	0.299 U	1.43	3 U
Lead	mg/L	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	9.25e-005 J	<0.001
Lithium	mg/L	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.01
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025
Molybdenum	mg/L	<0.002	<0.002	9.4e-005 J	8.8e-005 J	0.000121 J	0.000131 J	0.000113 J	<0.005075	<0.002

**Notes:**

1. mg/L - Milligrams per Liter
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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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.





**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-6								
		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
<b>Appendix III</b>										
Boron	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	--
Calcium	mg/L	1.13	1.18	1.09	1.32	0.829	0.743	0.68	0.825	--
Chloride	mg/L	3.04	2.86	2.92	3.01	3.7	3.2	2.8	3	--
Fluoride	mg/L	0.055 J	0.047 J	0.036 J	<0.01	0.1	0.1	<0.032	<0.032	<0.032
pH_Field	SU	--	--	--	--	--	--	--	--	--
Sulfate	mg/L	1.79	1.3	1.14	0.622 J	5	5	<1.4	<1.4	--
TDS	mg/L	--	--	--	--	30	--	26	--	--
<b>Appendix IV</b>										
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001
Barium	mg/L	0.0168	0.0166	0.0144	0.015	0.0126	0.0146	0.0143	--	0.0156
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002
Combined Radium	pCi/L	0.222 U	0.375 U	0.607 U	1.36	0.524	-0.1 U	0.376 U	--	-0.14 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002

**Notes:**

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**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-6								
		06/11/2018	10/22/2018	05/20/2019	09/04/2019	02/11/2020	09/08/2020	04/13/2021	10/04/2021	04/12/2022
<b>Appendix III</b>										
Boron	mg/L	<0.02	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	0.722	0.79	0.652	0.872	0.562	0.652	0.505	0.53	0.516
Chloride	mg/L	2.7	2.6	3.15	3.21	3.36	3.29	3.54	3.61	3.38
Fluoride	mg/L	<0.032	<0.032	<0.05	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06
pH_Field	SU	--	--	4.59	4.59	4.59	6	4.63	4.86	4.38
Sulfate	mg/L	<1.4	<1.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.6
TDS	mg/L	--	--	27.3	--	--	--	--	--	--
<b>Appendix IV</b>										
Antimony	mg/L	<0.0006	<0.0008	0.00171 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	9.88e-005 J	7.81e-005 J	0.000109 J
Barium	mg/L	0.0155	0.0185	0.0156	0.0176	0.0175	0.0159	0.0175	0.0161	0.0214
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000257 J	0.000245 J	0.000221 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000682	0.000651	0.000665
Combined Radium	pCi/L	0.436	1.07	0.498	0.608	0.743	-0.109 U	0.611 U	1.7	0.157 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000305	0.000314	0.000396
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.000102

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-6			GN-GSA-MW-7					
		08/16/2022	01/18/2023	07/10/2023	03/23/2016	05/11/2016	07/06/2016	09/06/2016	11/08/2016	02/20/2017
<b>Appendix III</b>										
Boron	mg/L	<0.03	<0.03	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Calcium	mg/L	0.516	0.583	0.589	59.1	58.9	60.8	62.2	63.9	69.6
Chloride	mg/L	3.64	3.69	3.44	3.28	3.08	2.96	2.97	3.22	4
Fluoride	mg/L	<0.06	<0.06	<0.06	0.063 J	0.105 J	0.094 J	0.08 J	<0.01	0.09 J
pH_Field	SU	4.58	4.75	4.4	--	--	--	--	--	--
Sulfate	mg/L	<0.6	<0.6	0.94 J	13.8	11.9	11.1	10.6	12.1	9.7
TDS	mg/L	--	--	--	202	207	202	204	212	251
<b>Appendix IV</b>										
Antimony	mg/L	<0.000508	0.000644 J	<0.00071	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Arsenic	mg/L	<8.1e-005	0.000157 J	<0.000112	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	0.0178	0.0176	0.0195	0.02	0.0221	0.0227	0.0204	0.0208	0.0193
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chromium	mg/L	<0.000203	0.000264 J	0.000217 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	0.000713	0.000709	0.000713	0.00656 J	0.00505 J	0.00515 J	0.0037 J	0.00375 J	0.00263 J
Combined Radium	pCi/L	1.06 U	0.389 U	0.941 U	3 U	0.329 U	-0.129 U	0.858	0.49 U	0.506
Lead	mg/L	0.000318	0.000353	0.000324	<0.001	<0.001	<0.001	<0.001	0.00229 J	<0.001
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	<0.000102	<0.000102	<0.005075	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-7								
		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
<b>Appendix III</b>										
Boron	mg/L	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.03	<0.03	<0.03
Calcium	mg/L	63	64.6	70.5	--	63.5	70.3	72.5	72	71.2
Chloride	mg/L	4.3	3.4	4	--	3.6	3.7	3.25	4.31	3.69
Fluoride	mg/L	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
pH_Field	SU	--	--	--	--	--	--	6.81	6.78	6.72
Sulfate	mg/L	11	8.3	8.6	--	7.5	8.8	6.85	10.1	8.5
TDS	mg/L	234	229	225	--	210	209	218	233	241
<b>Appendix IV</b>										
Antimony	mg/L	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	0.00123 J	<0.0008	<0.0008
Arsenic	mg/L	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.001 J
Barium	mg/L	0.0201	0.0181	--	0.0183	0.0196	0.0228	0.0163	0.0256	0.0194
Beryllium	mg/L	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	0.00287 J	<0.002	--	<0.002	<0.002	<0.002	<0.002	0.00217 J	<0.002
Combined Radium	pCi/L	0.272 U	0.216 U	--	0.168 U	0.199 U	1.03	0.465	1.28	0.513 U
Lead	mg/L	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury	mg/L	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<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

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-7						GN-GSA-MW-8		
		09/09/2020	04/13/2021	10/04/2021	04/12/2022	08/16/2022	01/17/2023	07/10/2023	03/24/2016	05/11/2016
<b>Appendix III</b>										
Boron	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.02	<0.02
Calcium	mg/L	66.7	64.1	70.4	71.2	82.2	66.8	65.6	57.4	57
Chloride	mg/L	3.34	3.64	3.48	3.29	3.8	3.65	3.33	1.73	1.68
Fluoride	mg/L	0.118	0.129	0.12	0.0724 J	0.112 J	0.1 J	0.1 J	0.132 J	0.176 J
pH_Field	SU	6.86	6.84	6.96	6.73	6.7	6.78	6.66	--	--
Sulfate	mg/L	7.13	6.37	6.02	5.75	6.63	6.1	5.64	2.42	2.16
TDS	mg/L	234	--	--	--	--	--	--	179	195
<b>Appendix IV</b>										
Antimony	mg/L	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	<0.0006	<0.0006
Arsenic	mg/L	<0.001	0.000469	0.000286	0.000431	0.000335	0.000711	0.000416	0.00112 J	<0.001
Barium	mg/L	0.0161	0.016	0.0181	0.0192	0.0175	0.018	0.0165	0.0249	0.0291
Beryllium	mg/L	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006
Cadmium	mg/L	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002
Chromium	mg/L	<0.002	0.000361 J	0.000563 J	<0.000203	0.0004 J	<0.000203	0.000299 J	<0.002	<0.002
Cobalt	mg/L	<0.002	0.00077	0.000326	0.000601	0.000415	0.00128	0.000572	<0.002	<0.002
Combined Radium	pCi/L	0.382 U	0.492 U	0.144 U	0.0248 U	0.537 U	0.24 U	1.09	3 U	0.202 U
Lead	mg/L	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001
Lithium	mg/L	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025
Molybdenum	mg/L	<0.002	0.000276	0.000248	0.000272	0.000232	0.000328	<0.005075	0.00317 J	0.00424 J

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-8								
		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
<b>Appendix III</b>										
Boron	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	--	<0.02
Calcium	mg/L	56.7	57.3	59.4	57.7	52.5	52.7	58.4	--	53.7
Chloride	mg/L	1.68	1.7	2.03	2.3	2.2	1.6 J	2.4	--	1.9 J
Fluoride	mg/L	0.167 J	0.153 J	0.043 J	0.15	0.14	0.13	0.13	0.15	0.13
pH_Field	SU	--	--	--	--	--	--	--	--	--
Sulfate	mg/L	1.7	1.31	1.4	2 J	1.6 J	1.9 J	2.1 J	--	2.7 J
TDS	mg/L	192	193	198	195	184	194	193	--	186
<b>Appendix IV</b>										
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006
Arsenic	mg/L	0.00124 J	0.00137 J	0.00162 J	0.00127 J	0.00129 J	0.00116 J	--	0.00131 J	0.00115 J
Barium	mg/L	0.0317	0.0312	0.0349	0.0264	0.027	0.0245	--	0.0248	0.0299
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002
Combined Radium	pCi/L	0.291 U	-0.0526 U	0.364 U	0.174 U	0.368 U	0.224 U	--	-0.011 U	0.324 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025
Molybdenum	mg/L	0.00489 J	0.00466 J	0.00422 J	0.00422 J	0.00344 J	0.00369 J	--	0.00331 J	0.00325 J

**Notes:**

1. mg/L - Milligrams per Liter
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5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-8								
		10/22/2018	05/21/2019	09/03/2019	02/12/2020	09/09/2020	04/13/2021	10/04/2021	04/12/2022	08/16/2022
<b>Appendix III</b>										
Boron	mg/L	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	55.4	55.7	57.4	55.7	55.3	52.2	55.1	54.4	58.4
Chloride	mg/L	<1.4	1.51	1.64	1.64	1.61	1.64	1.76	1.54	1.69
Fluoride	mg/L	0.15	0.109	0.123	0.108	0.14	0.119	0.134	0.0621 J	0.0979 J
pH_Field	SU	--	7.31	7.46	7.51	7.54	7.7	7.82	7.22	6.98
Sulfate	mg/L	2.2 J	3.39	4.15	4.31	3.67	4.49	5.05	3.13	5.27
TDS	mg/L	184	185	184	182	192	--	--	--	--
<b>Appendix IV</b>										
Antimony	mg/L	<0.0008	0.00106 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	0.0015 J	0.00128 J	0.00118 J	0.00133 J	0.00126 J	0.00134	0.00135	0.00124	0.00116
Barium	mg/L	0.0314	0.0264	0.0314	0.0257	0.026	0.0262	0.0265	0.0294	0.0275
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	0.000291 J	0.000365 J	0.000346 J	0.000437 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	0.000123 J	0.000137 J	7.46e-005 J	0.000133 J
Combined Radium	pCi/L	0.748	0.21 U	0.983	-0.0587 U	0.287 U	0.391 U	0.794 U	0.367 U	0.78 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00359 J	0.00379 J	0.00437 J	0.00322 J	0.00418 J	0.00318	0.00345	0.00347	0.00356

**Notes:**

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**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-8		GN-GSA-MW-9						
		01/18/2023	07/11/2023	03/23/2016	05/11/2016	07/06/2016	09/07/2016	11/08/2016	02/21/2017	05/30/2017
<b>Appendix III</b>										
Boron	mg/L	<0.03	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Calcium	mg/L	53.8	55	45.9	49.4	56	53.8	64.3	45.6	45.8
Chloride	mg/L	1.71	1.56	2.26	2.26	2.28	2.32	2.26	2.9	2.9
Fluoride	mg/L	0.105 J	0.0857 J	0.035 J	0.08 J	0.072 J	0.057 J	<0.01	0.1	0.04 J
pH_Field	SU	7.54	7.32	--	--	--	--	--	--	--
Sulfate	mg/L	3.71	4.37	5.54	5.66	5.62	5.31	4.42	5.3	5.2
TDS	mg/L	--	--	149	179	183	173	207	153	158
<b>Appendix IV</b>										
Antimony	mg/L	<0.000508	<0.00071	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Arsenic	mg/L	0.00111	0.00119	<0.001	<0.001	<0.001	0.00101 J	0.00121 J	<0.001	<0.001
Barium	mg/L	0.0257	0.0271	0.0252	0.0327	0.0342	0.0292	0.0281	0.0235	0.0214
Beryllium	mg/L	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chromium	mg/L	0.000358 J	0.000371 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	0.00017 J	0.000144 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Combined Radium	pCi/L	1.63	1.2	3 U	0.903 U	0.19 U	0.458 U	1.25	0.657	0.373 U
Lead	mg/L	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury	mg/L	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	0.00321	<0.005075	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.





**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-9								
		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
<b>Appendix III</b>										
Boron	mg/L	<0.02	<0.02	--	<0.02	<0.02	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	36.4	53.5	--	47.6	52.4	51.6	60.3	45.3	57.5
Chloride	mg/L	2.7	2.8	--	2.6	2	2.12	2.26	2.24	2.06
Fluoride	mg/L	<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
pH_Field	SU	--	--	--	--	--	6.79	6.53	6.57	5.85
Sulfate	mg/L	4.4 J	5.9	--	5.7	5.1	6.07	6.53	5.67	5.42
TDS	mg/L	138	171	--	167	177	176	189	153	187
<b>Appendix IV</b>										
Antimony	mg/L	<0.0006	--	<0.0006	<0.0006	<0.0008	0.00112 J	<0.0008	<0.0008	<0.0008
Arsenic	mg/L	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	0.0213	--	0.0232	0.0259	0.0265	0.0249	0.0271	0.0214	0.0234
Beryllium	mg/L	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Chromium	mg/L	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Combined Radium	pCi/L	0.415	--	0.328 U	0.141 U	0.21 U	0.289 U	0.994	0.377 U	1.07
Lead	mg/L	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury	mg/L	<0.00025	--	<0.00025	<0.00025	<0.00025	<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

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-9						GN-GSA-MW-10		
		04/13/2021	10/05/2021	04/12/2022	08/17/2022	01/18/2023	07/11/2023	03/24/2016	05/11/2016	07/06/2016
<b>Appendix III</b>										
Boron	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.02	<0.02	<0.02
Calcium	mg/L	43.5	54.6	49.4	67.7	48.8	48.1	90.3	91.1	90.7
Chloride	mg/L	2.14	2.16	1.91	2.13	2.01	1.87	2.78	2.62	2.53
Fluoride	mg/L	0.0602 J	<0.06	<0.06	<0.06	<0.06	<0.06	0.02 J	0.062 J	0.051 J
pH_Field	SU	6.9	6.96	6.22	6.84	6.71	6.23	--	--	--
Sulfate	mg/L	4.65	4.08	4.09	4.58	3.93	4.18	1.62	2.15	1.89
TDS	mg/L	--	--	--	--	--	--	2240	257	256
<b>Appendix IV</b>										
Antimony	mg/L	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	<0.0006	<0.0006	<0.0006
Arsenic	mg/L	0.000237	0.000144 J	0.000122 J	8.55e-005 J	0.000121 J	<0.000112	<0.001	<0.001	<0.001
Barium	mg/L	0.0226	0.0234	0.0252	0.0237	0.0217	0.0241	0.0339	0.0375	0.0374
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002
Chromium	mg/L	0.000276 J	0.000208 J	0.00022 J	<0.000203	0.000219 J	0.000207 J	<0.002	<0.002	<0.002
Cobalt	mg/L	8.16e-005 J	0.000406	<6.8e-005	0.000132 J	<6.8e-005	7.3e-005 J	<0.002	<0.002	<0.002
Combined Radium	pCi/L	0.592 U	0.2 U	0.191 U	1.25	0.418 U	0.712 U	3 U	0.197 U	-0.0714 U
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	0.000207	0.000319	0.000237	0.000338	0.000232	<0.005075	<0.002	<0.002	<0.002

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-10								
		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
<b>Appendix III</b>										
Boron	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	--	<0.02	<0.02
Calcium	mg/L	94.5	92.9	93.1	86.6	91.5	99	--	101	104
Chloride	mg/L	2.51	2.67	3.4	3.6	2.7	3.9	--	2.8	2.9
Fluoride	mg/L	0.037 J	<0.01	0.1	0.1	<0.032	<0.032	<0.032	<0.032	<0.032
pH_Field	SU	--	--	--	--	--	--	--	--	--
Sulfate	mg/L	1.53	1.69	2.2 J	1.7 J	<1.4	1.7 J	--	1.8 J	<1.4
TDS	mg/L	245	258	243	252	257	259	--	266	265
<b>Appendix IV</b>										
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001
Barium	mg/L	0.0331	0.0367	0.0335	0.0314	0.0321	--	0.0337	0.0342	0.0393
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002
Combined Radium	pCi/L	0.59 U	0.621 U	1.01	0.191 U	0.166 U	--	0.275 U	0.218 U	1.4
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002

**Notes:**

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**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-10								
		05/21/2019	09/03/2019	02/12/2020	09/08/2020	04/13/2021	10/05/2021	04/13/2022	08/17/2022	01/18/2023
<b>Appendix III</b>										
Boron	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	101	102	99.2	99.9	97.1	108	104	118	103
Chloride	mg/L	2.98	2.84	2.86	2.8	3.07	3.04	2.77	3.11	3.09
Fluoride	mg/L	<0.05	<0.05	<0.05	0.0617 J	<0.06	<0.06	<0.06	<0.06	<0.06
pH_Field	SU	6.98	6.67	7.03	5.9	7.22	7.12	6.85	6.97	7.08
Sulfate	mg/L	1.72	1.73	1.65	1.62	1.68	1.8	1.68 J	2.24	1.96 J
TDS	mg/L	274	260	259	275	--	--	--	--	--
<b>Appendix IV</b>										
Antimony	mg/L	0.000916 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	0.000552 J
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	8.71e-005 J	7.29e-005 J	<8.1e-005	<8.1e-005	0.000215
Barium	mg/L	0.0323	0.0377	0.0344	0.0331	0.0373	0.0359	0.0403	0.0361	0.0354
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	8.16e-005 J	<6.8e-005	0.000143 J	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.000203	0.000234 J	<0.000203	0.000266 J	0.000283 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000912
Combined Radium	pCi/L	5.12 U	0.793	0.13 U	0.65 U	0.531 U	0.269 U	0.551 U	0.934 U	0.632 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	8.01e-005 J
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<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
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.000102	<0.000102	<0.000102

**Notes:**

1. mg/L - Milligrams per Liter
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**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-	GN-GSA-MW-11							
		07/11/2023	03/23/2016	05/11/2016	07/06/2016	09/07/2016	11/09/2016	02/21/2017	05/31/2017	07/05/2017
<b>Appendix III</b>										
Boron	mg/L	<0.03	0.0309 J	0.0306 J	0.0307 J	0.0319 J	0.0362 J	0.0295 J	0.0312 J	0.0315 J
Calcium	mg/L	112	14.8	11.5	10.4	9.73	8.07	13.2	8.56	11.9
Chloride	mg/L	2.82	2.64	3.02	4.01	4.51	3.74	4.1	5.3	4.6
Fluoride	mg/L	<0.06	0.02 J	0.063 J	0.053 J	0.041 J	<0.01	0.1	0.1	<0.032
pH_Field	SU	6.89	--	--	--	--	--	--	--	--
Sulfate	mg/L	1.88 J	7.59	6.6	11.8	14.9	4.5	5.7	5.6	4.6 J
TDS	mg/L	--	56.7	54.7	76	96	57.3	76.7	75.3	80
<b>Appendix IV</b>										
Antimony	mg/L	<0.00071	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Arsenic	mg/L	<0.000112	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	0.0369	0.00756 J	0.00769 J	0.00975 J	0.0101	0.00934 J	0.00713 J	0.00552 J	0.00664 J
Beryllium	mg/L	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	7.92e-005 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chromium	mg/L	0.00022 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	0.00019 J	0.00454 J	0.00407 J	0.00654 J	0.00737 J	0.00732 J	0.00315 J	0.0023 J	0.00303 J
Combined Radium	pCi/L	1.51	3 U	0.0833 U	0.0827 U	2.13	0.419 U	1.19	0.215 U	0.289 U
Lead	mg/L	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury	mg/L	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	<0.005075	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

**Notes:**

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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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
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**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-11								
		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
<b>Appendix III</b>										
Boron	mg/L	0.0408 J	--	0.034 J	0.0416 J	0.0413 J	0.0452 J	0.043 J	0.044 J	0.0422 J
Calcium	mg/L	9.2	--	11.5	7.73	11.7	8.9	13.1	9.3	12.3
Chloride	mg/L	6.5	--	8.8	7.2	10.4	7.1	7.16	6.27	9.8
Fluoride	mg/L	0.04 J	<0.032	<0.032	<0.032	<0.05	<0.05	<0.05	<0.06	<0.06
pH_Field	SU	--	--	--	--	5.97	5.12	6	5.67	5.46
Sulfate	mg/L	6.2	--	3.5 J	2.4 J	3.55	2.83	3.89	3.01	2.77
TDS	mg/L	105	--	72	68	66	51.3	66	59.3	--
<b>Appendix IV</b>										
Antimony	mg/L	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507
Arsenic	mg/L	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	9.35e-005 J
Barium	mg/L	--	0.00614 J	0.00637 J	0.00522 J	0.0056 J	0.00656 J	0.00444 J	0.00545 J	0.00636
Beryllium	mg/L	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406
Cadmium	mg/L	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005
Chromium	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000203
Cobalt	mg/L	--	0.00324 J	0.00251 J	0.00286 J	0.00245 J	0.00298 J	<0.002	0.00256 J	0.00212
Combined Radium	pCi/L	--	-0.183 U	0.569	0.898	0.0995 U	3.47	0.0433 U	0.798	0.589 U
Lead	mg/L	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005
Lithium	mg/L	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105
Mercury	mg/L	--	<0.00025	<0.00025	<0.00025	<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	<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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-11					GN-GSA-MW-12			
		10/05/2021	04/13/2022	08/17/2022	01/18/2023	07/11/2023	03/23/2016	05/10/2016	07/06/2016	09/06/2016
<b>Appendix III</b>										
Boron	mg/L	0.0472 J	0.0565 J	0.0528 J	0.0603 J	0.0659 J	0.0387 J	0.0384 J	0.029 J	0.0278 J
Calcium	mg/L	13.8	15	12.6	13.8	14.7	70.2	65.6	58.2	62.3
Chloride	mg/L	13.8	19.6	19.5	14.6	21.4	4.43	3.38	2.62	2.65
Fluoride	mg/L	<0.06	<0.06	<0.06	<0.06	<0.06	0.058 J	0.095 J	0.069 J	0.055 J
pH_Field	SU	6.01	5.29	5.6	5.77	5.33	--	--	--	--
Sulfate	mg/L	2.86	2.73	2.29	2.95	1.97 J	16.2	12.1	7.7	6.97
TDS	mg/L	--	--	--	--	--	237	226	191	200
<b>Appendix IV</b>										
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	<0.0006	<0.0006	<0.0006	<0.0006
Arsenic	mg/L	0.000111 J	8.77e-005 J	0.000109 J	0.000103 J	<0.000112	0.0013 J	0.00107 J	0.00113 J	0.00169 J
Barium	mg/L	0.00871	0.0162	0.0131	0.0106	0.0152	0.0224	0.0232	0.0199	0.0195
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002
Chromium	mg/L	0.000303 J	<0.000203	<0.000203	<0.000203	0.000239 J	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	0.00217	0.00324	0.00278	0.00237	0.00288	<0.002	<0.002	<0.002	<0.002
Combined Radium	pCi/L	0.524 U	0.453 U	0.33 U	0.167 U	0.673 U	3 U	0.0311 U	0.359 U	1.03 U
Lead	mg/L	<6.8e-005	0.000106 J	7.84e-005 J	<6.8e-005	0.000108 J	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	<6.8e-005	<0.000102	<0.000102	<0.000102	<0.005075	<0.002	<0.002	<0.002	<0.002

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-12								
		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
<b>Appendix III</b>										
Boron	mg/L	0.0331 J	0.0323 J	0.0316 J	0.0318 J	0.0338 J	--	0.0305 J	0.0347 J	<0.03
Calcium	mg/L	62.7	69.9	66.5	66.9	72.9	--	69.9	64.3	77.9
Chloride	mg/L	2.55	4.7	4.1	3.2	3.5	--	3.1	2.1	3.02
Fluoride	mg/L	<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
pH_Field	SU	--	--	--	--	--	--	--	--	7.1
Sulfate	mg/L	5.77	12	8.7	7.7	7	--	8.7	4.8 J	7.81
TDS	mg/L	190	264	242	231	225	--	230	201	231
<b>Appendix IV</b>										
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	0.000813 J
Arsenic	mg/L	0.00168 J	<0.001	0.00102 J	0.00117 J	--	0.00127 J	<0.001	<0.001	<0.001
Barium	mg/L	0.017	0.0214	0.0223	0.022	--	0.0254	0.023	0.0176	0.0214
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002
Combined Radium	pCi/L	1.22	0.0581 U	0.186 U	0.245 U	--	0.321 U	0.321 U	0.723	0.376 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.





**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-12								
		09/04/2019	02/12/2020	09/09/2020	04/13/2021	10/05/2021	04/13/2022	08/18/2022	01/18/2023	07/11/2023
<b>Appendix III</b>										
Boron	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	74.2	77.8	77	81.6	87.9	88	110	83.3	81.1
Chloride	mg/L	2.73	4.21	2.8	3.97	3.69	3.76	3.53	5.68	3.84
Fluoride	mg/L	0.0547 J	0.0586 J	0.068 J	<0.06	<0.06	<0.06	<0.06	0.0913 J	<0.06
pH_Field	SU	7.24	7.14	6.77	6.61	7.25	6.74	6.82	7.11	6.79
Sulfate	mg/L	6.25	13.1	5.85	8.86	8.02	8.25	6.66	15.6	9.46
TDS	mg/L	217	256	230	--	--	--	--	--	--
<b>Appendix IV</b>										
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071
Arsenic	mg/L	<0.001	<0.001	<0.001	0.00033	0.000232	0.00021	0.000189 J	0.000254	0.000124 J
Barium	mg/L	0.0205	0.024	0.0182	0.0234	0.0212	0.0272	0.0204	0.0223	0.0227
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.000203	0.00029 J	0.00021 J	<0.000203	<0.000203	0.000361 J
Cobalt	mg/L	<0.002	<0.002	<0.002	0.000218	0.000417	0.000155 J	0.000296	0.000168 J	7.47e-005 J
Combined Radium	pCi/L	0.534	0.836	1.88	0.592 U	1.42	0.257 U	0.607 U	0.305 U	0.707 U
Lead	mg/L	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<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
Molybdenum	mg/L	<0.002	<0.002	<0.002	0.000298	0.000325	0.00031	0.000207	0.000234	<0.005075

**Notes:**

1. mg/L - Milligrams per Liter
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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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		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
<b>Appendix III</b>										
Boron	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Calcium	mg/L	79.9	77.6	72	81.6	83.8	86.4	84.1	89.5	93.2
Chloride	mg/L	3.16	3.02	3.1	3.31	3.32	4.8	4	3.6	4.5
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
pH_Field	SU	--	--	--	--	--	--	--	--	--
Sulfate	mg/L	7.64	6.79	7.59	9.56	8.87	10	8	8.2	8.3
TDS	mg/L	244	247	247	264	173	260	277	296	294
<b>Appendix IV</b>										
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--
Arsenic	mg/L	0.00157 J	0.00182 J	0.00152 J	0.00197 J	<0.001	0.0011 J	<0.001	<0.001	--
Barium	mg/L	0.0432	0.0609	0.0542	0.0544	0.0491	0.0537	0.0452	0.0461	--
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--
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	--
Combined Radium	pCi/L	3 U	-0.0573 U	0.607	0.47 U	0.177 U	0.783	0.153 U	0.444	--
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--

**Notes:**

1. mg/L - Milligrams per Liter
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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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
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**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-13								
		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
<b>Appendix III</b>										
Boron	mg/L	--	<0.02	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	--	101	97.6	106	93.7	93.1	88.7	89.8	92.2
Chloride	mg/L	--	3.5	3.5	3.3	3.33	4.1	3.4	3.56	3.39
Fluoride	mg/L	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
pH_Field	SU	--	--	--	7.05	6.71	7.09	6.95	7.17	6.95
Sulfate	mg/L	--	8.3	6.7	8.29	8.18	9.06	7.89	8.38	7.23
TDS	mg/L	--	282	279	286	271	282	271	--	--
<b>Appendix IV</b>										
Antimony	mg/L	<0.0006	<0.0006	<0.0008	0.00127 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	0.00348 J	<0.001	<0.001	<0.001	0.000189 J	0.000126 J
Barium	mg/L	0.0469	0.0469	0.0457	0.0697	0.0455	0.0419	0.039	0.0403	0.0369
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406
Cadmium	mg/L	<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 J	<0.002	<0.002	<0.002	0.000518 J	0.000547 J
Cobalt	mg/L	<0.002	<0.002	<0.002	0.0578	<0.002	<0.002	<0.002	0.000158 J	0.000102 J
Combined Radium	pCi/L	-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	0.00228 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	<0.007105	<0.007105
Mercury	mg/L	<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	0.000175 J	0.000154 J

**Notes:**

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**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS				
		GN-GSA-MW-13				GN-GSA-GS2-4
		04/13/2022	08/16/2022	01/18/2023	07/11/2023	04/12/2022
<b>Appendix III</b>						
Boron	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	91.8	107	93.7	105	90.7
Chloride	mg/L	3.01	3.45	3.8	3.69	4.92
Fluoride	mg/L	<0.06	0.0614 J	<0.06	0.103 J	0.0798 J
pH_Field	SU	6.84	6.92	7.13	6.62	6.29
Sulfate	mg/L	7.27	8.54	8.51	9.4	23.2
TDS	mg/L	--	--	--	--	--
<b>Appendix IV</b>						
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.00071	--
Arsenic	mg/L	0.000141 J	0.000131 J	0.000122 J	0.000131 J	--
Barium	mg/L	0.0415	0.0383	0.0351	0.0426	0.0789
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	--
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	--
Chromium	mg/L	0.000523 J	0.000427 J	0.000417 J	0.000446 J	--
Cobalt	mg/L	<6.8e-005	9.76e-005 J	8.63e-005 J	7.37e-005 J	--
Combined Radium	pCi/L	0.357 U	0.98	0.376 U	0.716 U	--
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	--
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	--
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	--
Molybdenum	mg/L	0.00021	0.000197 J	0.000285	<0.005075	--

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		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
<b>Appendix IV</b>										
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-2								
		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
<b>Appendix IV</b>										
Selenium	mg/L	<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	<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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-2				GN-GSA-MW-3				
		04/12/2022	08/16/2022	01/17/2023	07/11/2023	03/23/2016	05/10/2016	07/06/2016	09/07/2016	11/08/2016
<b>Appendix IV</b>										
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000228 J	<0.0002	<0.0002	<0.0002	<0.0002

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-3								
		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
<b>Appendix IV</b>										
Selenium	mg/L	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.





**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-3								GN-GSA-MW-
		02/12/2020	09/09/2020	04/13/2021	10/04/2021	04/12/2022	08/16/2022	01/18/2023	07/12/2023	07/05/2016
<b>Appendix IV</b>										
Selenium	mg/L	<0.002	<0.002	<0.000507	0.000598 J	0.00051 J	0.000556 J	<0.000508	<0.000508	<0.002
Thallium	mg/L	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-14S								
		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
<b>Appendix IV</b>										
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-14S								
		06/12/2018	10/23/2018	05/22/2019	09/04/2019	02/12/2020	09/09/2020	04/13/2021	10/04/2021	04/13/2022
<b>Appendix IV</b>										
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-14S			GN-GSA-MW-15					
		08/16/2022	01/17/2023	07/12/2023	07/06/2016	08/23/2016	09/07/2016	11/08/2016	01/03/2017	02/20/2017
<b>Appendix IV</b>										
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-15								
		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
<b>Appendix IV</b>										
Selenium	mg/L	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-15						GN-GSA-MW-1		
		09/09/2020	04/13/2021	10/06/2021	04/12/2022	08/16/2022	01/17/2023	07/12/2023	03/24/2016	05/10/2016
<b>Appendix IV</b>										
Selenium	mg/L	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002
Thallium	mg/L	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-1								
		07/05/2016	09/06/2016	11/08/2016	02/22/2017	03/01/2017	05/31/2017	07/05/2017	09/07/2017	02/05/2018
<b>Appendix IV</b>										
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-1								
		06/12/2018	10/23/2018	05/21/2019	09/04/2019	02/12/2020	09/09/2020	04/13/2021	10/04/2021	02/08/2022
<b>Appendix IV</b>										
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
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5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.





**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-1				GN-GSA-MW-5				
		04/13/2022	08/18/2022	01/17/2023	07/11/2023	03/23/2016	05/11/2016	07/06/2016	09/06/2016	11/08/2016
<b>Appendix IV</b>										
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-5								
		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
<b>Appendix IV</b>										
Selenium	mg/L	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
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5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-5								GN-GSA-MW-6
		02/11/2020	09/08/2020	04/13/2021	10/04/2021	04/12/2022	08/16/2022	01/18/2023	07/10/2023	03/23/2016
<b>Appendix IV</b>										
Selenium	mg/L	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002
Thallium	mg/L	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-6								
		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
<b>Appendix IV</b>										
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-6								
		06/11/2018	10/22/2018	05/20/2019	09/04/2019	02/11/2020	09/08/2020	04/13/2021	10/04/2021	04/12/2022
<b>Appendix IV</b>										
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-6			GN-GSA-MW-7					
		08/16/2022	01/18/2023	07/10/2023	03/23/2016	05/11/2016	07/06/2016	09/06/2016	11/08/2016	02/20/2017
<b>Appendix IV</b>										
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-7								
		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
<b>Appendix IV</b>										
Selenium	mg/L	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS									
		GN-GSA-MW-7						GN-GSA-MW-8			
		09/09/2020	04/13/2021	10/04/2021	04/12/2022	08/16/2022	01/17/2023	07/10/2023	03/24/2016	05/11/2016	
<b>Appendix IV</b>											
Selenium	mg/L	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002
Thallium	mg/L	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.





**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-8								
		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
<b>Appendix IV</b>										
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-8								
		10/22/2018	05/21/2019	09/03/2019	02/12/2020	09/09/2020	04/13/2021	10/04/2021	04/12/2022	08/16/2022
<b>Appendix IV</b>										
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-8		GN-GSA-MW-9						
		01/18/2023	07/11/2023	03/23/2016	05/11/2016	07/06/2016	09/07/2016	11/08/2016	02/21/2017	05/30/2017
<b>Appendix IV</b>										
Selenium	mg/L	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-9								
		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
<b>Appendix IV</b>										
Selenium	mg/L	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-9						GN-GSA-MW-10		
		04/13/2021	10/05/2021	04/12/2022	08/17/2022	01/18/2023	07/11/2023	03/24/2016	05/11/2016	07/06/2016
<b>Appendix IV</b>										
Selenium	mg/L	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-10								
		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
<b>Appendix IV</b>										
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-10								
		05/21/2019	09/03/2019	02/12/2020	09/08/2020	04/13/2021	10/05/2021	04/13/2022	08/17/2022	01/18/2023
<b>Appendix IV</b>										
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-	GN-GSA-MW-11							
		07/11/2023	03/23/2016	05/11/2016	07/06/2016	09/07/2016	11/09/2016	02/21/2017	05/31/2017	07/05/2017
<b>Appendix IV</b>										
Selenium	mg/L	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.





**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-11								
		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
<b>Appendix IV</b>										
Selenium	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507
Thallium	mg/L	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-11					GN-GSA-MW-12			
		10/05/2021	04/13/2022	08/17/2022	01/18/2023	07/11/2023	03/23/2016	05/10/2016	07/06/2016	09/06/2016
<b>Appendix IV</b>										
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-12								
		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
<b>Appendix IV</b>										
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-12								
		09/04/2019	02/12/2020	09/09/2020	04/13/2021	10/05/2021	04/13/2022	08/18/2022	01/18/2023	07/11/2023
<b>Appendix IV</b>										
Selenium	mg/L	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

**Notes:**

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



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		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
<b>Appendix IV</b>										
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--

**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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS								
		GN-GSA-MW-13								
		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
<b>Appendix IV</b>										
Selenium	mg/L	<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	<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 Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**ANALYTICAL DATA SUMMARY**  
**Gypsum Storage Area (03/23/2016 - 07/12/2023)**  
**APC Plant Gaston**  
**Shelby County Alabama**

Analyte	Units	GROUNDWATER MONITORING WELLS				
		GN-GSA-MW-13				GN-GSA-GS2-4
		04/13/2022	08/16/2022	01/18/2023	07/11/2023	04/12/2022
<b>Appendix IV</b>						
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	--
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	--

**Notes:**

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

# Appendix B





## Appendix B. Historical Groundwater Elevations Summary

Plant Gaston Gypsum Storage Area  
03/23/2016 - 07/10/2023

Well	Hydraulic Location	Geologic Unit	Measure Date																
			03/23/16	05/10/16	07/05/16	09/06/16	11/08/16	02/20/17	05/30/17	07/05/17	09/05/17	02/05/18	06/12/18	10/22/18	05/20/19	09/03/19	02/11/20	09/08/20	04/13/21
GN-GSA-MW-2	Upgradient	Newala LS (Shallow)	403.92	401.41	398.08	397.71	397.31	401.40	399.44	405.73	399.15	399.14	401.37	397.59	400.52	397.66	410.56	398.01	404.97
GN-GSA-MW-3	Upgradient	Newala LS (Shallow)	411.24	407.57	402.71	400.85	399.16	402.18	403.33	408.43	403.55	402.09	405.13	399.85	405.62	400.51	410.32	401.64	409.03
GN-GSA-MW-14S	Upgradient	Overburden (Clayey-Sand)			400.16	398.80	397.63	401.59	400.86	406.18	400.84	400.00	402.34	398.14	402.39	398.44	411.16	399.33	405.73
GN-GSA-MW-15	Upgradient	Overburden-Newala LS Transition			402.95	401.21	399.07	407.15	404.90	414.83	404.61	406.76	407.66	400.17	406.92	400.43	418.13	402.03	414.67
GN-GSA-MW-1	Downgradient	Newala LS (Deep)	399.89	399.31	396.15	396.46	394.18	399.83	398.12	400.75	398.09	400.03	398.84	395.23	398.50	394.93	402.13	395.97	400.84
GN-GSA-MW-5	Downgradient	Overburden (Sand)	401.23	400.13	397.51	397.17	395.50	400.39	399.22	401.99	399.17	400.45	399.53	396.02	399.55	396.04	403.27	397.52	402.00
GN-GSA-MW-6	Downgradient	Overburden (Silty-Sand)	400.10	399.25	397.27	397.02	395.44	399.55	398.66	400.74	398.55	399.80	398.84	395.94	398.84	395.88	401.96	397.27	400.92
GN-GSA-MW-7	Downgradient	Overburden (Silty-Sand)	391.38	397.35	395.97	395.77	394.57	397.65	397.24	398.14	397.30	398.17	396.93	394.89	397.16	395.37	399.91	396.37	398.23
GN-GSA-MW-8	Downgradient	Overburden (Silty-Sand)	396.41	396.20	395.84	395.75	395.46	396.50	395.90	396.71	396.33	397.18	396.07	394.08	396.10	395.62	401.36	395.70	397.12
GN-GSA-MW-9	Downgradient	Overburden (Gravelly-Silt)	397.03	396.61	395.76	395.74	394.99	397.13	396.05	398.57	396.75	399.12	396.53	394.25	396.61	395.39	402.97	395.82	399.68
GN-GSA-MW-10	Downgradient	Overburden (Silty-Sand)	396.51	396.29	395.64	395.68	395.05	396.67	396.21	396.71	396.40	397.39	396.24	394.02	396.26	395.37	400.76	395.74	397.34
GN-GSA-MW-11	Downgradient	Overburden (Silty-Sand)	396.44	396.21	395.47	395.55	395.13	396.60	396.09	396.38	396.21	397.13	396.09	394.39	396.01	395.34	400.66	395.47	396.78
GN-GSA-MW-12	Downgradient	Overburden-Newala LS Transition	397.82	397.12	395.67	395.80	394.76	397.69	396.81	397.92	396.92	398.35	396.87	394.95	397.04	395.30	400.44	395.90	398.44
GN-GSA-MW-13	Downgradient	Newala LS (Shallow)	399.60	398.76	395.49	395.93	393.46	399.56	397.83	400.36	397.79	400.73	398.52	394.78	398.11	394.36	402.74	395.55	400.46
GN-GSA-PZ-4	Piezometer	Newala LS (Shallow)						416.87	415.54	421.71	414.31			410.99	414.22	410.95	424.34	412.91	421.49

Notes:  
(1) Groundwater elevations measured in vertical feet relative to the North American Vertical Datum (NAVD) 1988.



## Appendix B. Historical Groundwater Elevations Summary

Plant Gaston Gypsum Storage Area  
03/23/2016 - 07/10/2023

Well	Hydraulic Location	Geologic Unit	Measure Date					
			10/04/21	02/08/22	04/11/22	08/15/22	01/17/23	07/10/23
GN-GSA-MW-2	Upgradient	Newala LS (Shallow)	400.61	406.27	408.72	400.27	401.70	400.46
GN-GSA-MW-3	Upgradient	Newala LS (Shallow)	404.55	409.07	413.82	404.37	403.73	404.43
GN-GSA-MW-14S	Upgradient	Overburden (Clayey-Sand)	401.55	406.52	410.48	401.22	401.49	401.11
GN-GSA-MW-15	Upgradient	Overburden-Newala LS Transition	406.04	415.29	417.18	405.47	408.90	406.17
GN-GSA-MW-1	Downgradient	Newala LS (Deep)	398.49	401.01	401.02	397.87	399.98	399.75
GN-GSA-MW-5	Downgradient	Overburden (Sand)	399.23	402.02	402.26	398.28	400.51	399.89
GN-GSA-MW-6	Downgradient	Overburden (Silty-Sand)	398.72	400.94	400.98	397.92	400.00	399.24
GN-GSA-MW-7	Downgradient	Overburden (Silty-Sand)	397.22	398.42	398.05	396.33	398.15	397.64
GN-GSA-MW-8	Downgradient	Overburden (Silty-Sand)	396.26	397.50	397.05	395.85	396.96	397.06
GN-GSA-MW-9	Downgradient	Overburden (Gravelly-Silt)	396.74	399.77	399.34	396.12	398.57	399.14
GN-GSA-MW-10	Downgradient	Overburden (Silty-Sand)	396.61	397.73	397.32	395.93	397.57	397.70
GN-GSA-MW-11	Downgradient	Overburden (Silty-Sand)	397.48	397.26	396.87	395.61	397.63	397.55
GN-GSA-MW-12	Downgradient	Overburden-Newala LS Transition	397.19	398.73	398.49	396.39	398.51	397.82
GN-GSA-MW-13	Downgradient	Newala LS (Shallow)	398.26	400.71	400.50	397.43	399.92	400.56
GN-GSA-PZ-4	Piezometer	Newala LS (Shallow)	414.67	422.56	423.62	414.03	414.40	415.01

Notes:  
(1) Groundwater elevations measured in vertical feet relative to the North American Vertical Datum (NAVD) 1988.

# 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**

### **2023 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.



**Field Parameters Summary  
Plant Gaston Gypsum Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-2	COND	Conductivity	1/17/2023 13:06	527.62	uS/cm
GN-GSA-MW-2	DO	DO	1/17/2023 13:06	2.39	mg/L
GN-GSA-MW-2	DTW	Depth to Water Detail	1/17/2023 13:06	20.68	ft
GN-GSA-MW-2	ORP	Oxidation Reduction Potention	1/17/2023 13:06	-68.97	mv
GN-GSA-MW-2	PH	pH	1/17/2023 13:06	7.07	SU
GN-GSA-MW-2	TEMP	Temperature	1/17/2023 13:06	19.2	C
GN-GSA-MW-2	TURB	Turbidity	1/17/2023 13:06	2.19	NTU
GN-GSA-MW-2	COND	Conductivity	1/17/2023 13:11	502.84	uS/cm
GN-GSA-MW-2	DO	DO	1/17/2023 13:11	3.57	mg/L
GN-GSA-MW-2	DTW	Depth to Water Detail	1/17/2023 13:11	20.88	ft
GN-GSA-MW-2	ORP	Oxidation Reduction Potention	1/17/2023 13:11	-45.19	mv
GN-GSA-MW-2	PH	pH	1/17/2023 13:11	7.11	SU
GN-GSA-MW-2	TEMP	Temperature	1/17/2023 13:11	19.27	C
GN-GSA-MW-2	TURB	Turbidity	1/17/2023 13:11	1.97	NTU
GN-GSA-MW-2	COND	Conductivity	1/17/2023 13:16	495.84	uS/cm
GN-GSA-MW-2	DO	DO	1/17/2023 13:16	3.82	mg/L
GN-GSA-MW-2	DTW	Depth to Water Detail	1/17/2023 13:16	21.06	ft
GN-GSA-MW-2	ORP	Oxidation Reduction Potention	1/17/2023 13:16	-24.33	mv
GN-GSA-MW-2	PH	pH	1/17/2023 13:16	7.14	SU
GN-GSA-MW-2	TEMP	Temperature	1/17/2023 13:16	19.27	C
GN-GSA-MW-2	TURB	Turbidity	1/17/2023 13:16	2.32	NTU
GN-GSA-MW-2	COND	Conductivity	1/17/2023 13:21	493.33	uS/cm
GN-GSA-MW-2	DO	DO	1/17/2023 13:21	3.9	mg/L
GN-GSA-MW-2	DTW	Depth to Water Detail	1/17/2023 13:21	21.19	ft
GN-GSA-MW-2	ORP	Oxidation Reduction Potention	1/17/2023 13:21	-7.45	mv
GN-GSA-MW-2	PH	pH	1/17/2023 13:21	7.14	SU
GN-GSA-MW-2	TEMP	Temperature	1/17/2023 13:21	19.26	C
GN-GSA-MW-2	TURB	Turbidity	1/17/2023 13:21	2.07	NTU
GN-GSA-MW-2	COND	Conductivity	1/17/2023 13:26	492.94	uS/cm
GN-GSA-MW-2	DO	DO	1/17/2023 13:26	3.93	mg/L
GN-GSA-MW-2	DTW	Depth to Water Detail	1/17/2023 13:26	21.29	ft
GN-GSA-MW-2	ORP	Oxidation Reduction Potention	1/17/2023 13:26	7.27	mv
GN-GSA-MW-2	PH	pH	1/17/2023 13:26	7.14	SU
GN-GSA-MW-2	SULFIDE	Sulfide	1/17/2023 13:26	0	mg/L
GN-GSA-MW-2	TEMP	Temperature	1/17/2023 13:26	19.24	C
GN-GSA-MW-2	TURB	Turbidity	1/17/2023 13:26	1.98	NTU

**Field Parameters Summary  
Plant Gaston Gypsum Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-3	COND	Conductivity	1/18/2023 9:13	406.65	uS/cm
GN-GSA-MW-3	DO	DO	1/18/2023 9:13	1.46	mg/L
GN-GSA-MW-3	DTW	Depth to Water Detail	1/18/2023 9:13	24.81	ft
GN-GSA-MW-3	ORP	Oxidation Reduction Potention	1/18/2023 9:13	88.45	mv
GN-GSA-MW-3	PH	pH	1/18/2023 9:13	6.92	SU
GN-GSA-MW-3	TEMP	Temperature	1/18/2023 9:13	18.71	C
GN-GSA-MW-3	TURB	Turbidity	1/18/2023 9:13	100	NTU
GN-GSA-MW-3	COND	Conductivity	1/18/2023 9:18	354.51	uS/cm
GN-GSA-MW-3	DO	DO	1/18/2023 9:18	1.04	mg/L
GN-GSA-MW-3	DTW	Depth to Water Detail	1/18/2023 9:18	25.92	ft
GN-GSA-MW-3	ORP	Oxidation Reduction Potention	1/18/2023 9:18	1.62	mv
GN-GSA-MW-3	PH	pH	1/18/2023 9:18	6.75	SU
GN-GSA-MW-3	TEMP	Temperature	1/18/2023 9:18	18.79	C
GN-GSA-MW-3	TURB	Turbidity	1/18/2023 9:18	73.6	NTU
GN-GSA-MW-3	COND	Conductivity	1/18/2023 9:23	342.47	uS/cm
GN-GSA-MW-3	DO	DO	1/18/2023 9:23	0.92	mg/L
GN-GSA-MW-3	DTW	Depth to Water Detail	1/18/2023 9:23	26.9	ft
GN-GSA-MW-3	ORP	Oxidation Reduction Potention	1/18/2023 9:23	-39.07	mv
GN-GSA-MW-3	PH	pH	1/18/2023 9:23	6.74	SU
GN-GSA-MW-3	TEMP	Temperature	1/18/2023 9:23	18.85	C
GN-GSA-MW-3	TURB	Turbidity	1/18/2023 9:23	55.4	NTU
GN-GSA-MW-3	COND	Conductivity	1/18/2023 9:28	348.41	uS/cm
GN-GSA-MW-3	DO	DO	1/18/2023 9:28	0.92	mg/L
GN-GSA-MW-3	DTW	Depth to Water Detail	1/18/2023 9:28	27.68	ft
GN-GSA-MW-3	ORP	Oxidation Reduction Potention	1/18/2023 9:28	-49.53	mv
GN-GSA-MW-3	PH	pH	1/18/2023 9:28	6.75	SU
GN-GSA-MW-3	TEMP	Temperature	1/18/2023 9:28	18.9	C
GN-GSA-MW-3	TURB	Turbidity	1/18/2023 9:28	47	NTU
GN-GSA-MW-3	COND	Conductivity	1/18/2023 9:33	358.74	uS/cm
GN-GSA-MW-3	DO	DO	1/18/2023 9:33	0.94	mg/L
GN-GSA-MW-3	DTW	Depth to Water Detail	1/18/2023 9:33	28.36	ft
GN-GSA-MW-3	ORP	Oxidation Reduction Potention	1/18/2023 9:33	-56.1	mv
GN-GSA-MW-3	PH	pH	1/18/2023 9:33	6.82	SU
GN-GSA-MW-3	TEMP	Temperature	1/18/2023 9:33	18.89	C
GN-GSA-MW-3	TURB	Turbidity	1/18/2023 9:33	35.9	NTU
GN-GSA-MW-3	COND	Conductivity	1/18/2023 9:38	366.23	uS/cm
GN-GSA-MW-3	DO	DO	1/18/2023 9:38	0.98	mg/L
GN-GSA-MW-3	DTW	Depth to Water Detail	1/18/2023 9:38	29.01	ft
GN-GSA-MW-3	ORP	Oxidation Reduction Potention	1/18/2023 9:38	-59.31	mv
GN-GSA-MW-3	PH	pH	1/18/2023 9:38	6.86	SU
GN-GSA-MW-3	TEMP	Temperature	1/18/2023 9:38	18.93	C
GN-GSA-MW-3	TURB	Turbidity	1/18/2023 9:38	31.8	NTU
GN-GSA-MW-3	COND	Conductivity	1/18/2023 9:43	373.19	uS/cm
GN-GSA-MW-3	DO	DO	1/18/2023 9:43	0.99	mg/L

**Field Parameters Summary  
Plant Gaston Gypsum Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-3	DTW	Depth to Water Detail	1/18/2023 9:43	29.48	ft
GN-GSA-MW-3	ORP	Oxidation Reduction Potention	1/18/2023 9:43	-58.91	mv
GN-GSA-MW-3	PH	pH	1/18/2023 9:43	6.86	SU
GN-GSA-MW-3	TEMP	Temperature	1/18/2023 9:43	18.92	C
GN-GSA-MW-3	TURB	Turbidity	1/18/2023 9:43	27.8	NTU
GN-GSA-MW-3	COND	Conductivity	1/18/2023 9:48	381.48	uS/cm
GN-GSA-MW-3	DO	DO	1/18/2023 9:48	1.02	mg/L
GN-GSA-MW-3	DTW	Depth to Water Detail	1/18/2023 9:48	29.88	ft
GN-GSA-MW-3	ORP	Oxidation Reduction Potention	1/18/2023 9:48	-60.52	mv
GN-GSA-MW-3	PH	pH	1/18/2023 9:48	6.91	SU
GN-GSA-MW-3	TEMP	Temperature	1/18/2023 9:48	18.96	C
GN-GSA-MW-3	TURB	Turbidity	1/18/2023 9:48	24.6	NTU
GN-GSA-MW-3	COND	Conductivity	1/18/2023 9:53	388.04	uS/cm
GN-GSA-MW-3	DO	DO	1/18/2023 9:53	1.03	mg/L
GN-GSA-MW-3	DTW	Depth to Water Detail	1/18/2023 9:53	30.24	ft
GN-GSA-MW-3	ORP	Oxidation Reduction Potention	1/18/2023 9:53	-60.02	mv
GN-GSA-MW-3	PH	pH	1/18/2023 9:53	6.93	SU
GN-GSA-MW-3	TEMP	Temperature	1/18/2023 9:53	18.98	C
GN-GSA-MW-3	TURB	Turbidity	1/18/2023 9:53	22	NTU
GN-GSA-MW-3	COND	Conductivity	1/18/2023 9:58	392.14	uS/cm
GN-GSA-MW-3	DO	DO	1/18/2023 9:58	1.05	mg/L
GN-GSA-MW-3	DTW	Depth to Water Detail	1/18/2023 9:58	30.55	ft
GN-GSA-MW-3	ORP	Oxidation Reduction Potention	1/18/2023 9:58	-59.15	mv
GN-GSA-MW-3	PH	pH	1/18/2023 9:58	6.95	SU
GN-GSA-MW-3	TEMP	Temperature	1/18/2023 9:58	18.84	C
GN-GSA-MW-3	TURB	Turbidity	1/18/2023 9:58	18.6	NTU
GN-GSA-MW-3	COND	Conductivity	1/18/2023 10:03	406.41	uS/cm
GN-GSA-MW-3	DO	DO	1/18/2023 10:03	1.1	mg/L
GN-GSA-MW-3	DTW	Depth to Water Detail	1/18/2023 10:03	30.59	ft
GN-GSA-MW-3	ORP	Oxidation Reduction Potention	1/18/2023 10:03	-54.53	mv
GN-GSA-MW-3	PH	pH	1/18/2023 10:03	6.97	SU
GN-GSA-MW-3	TEMP	Temperature	1/18/2023 10:03	18.88	C
GN-GSA-MW-3	TURB	Turbidity	1/18/2023 10:03	16.4	NTU
GN-GSA-MW-3	COND	Conductivity	1/18/2023 10:08	409.94	uS/cm
GN-GSA-MW-3	DO	DO	1/18/2023 10:08	1.11	mg/L
GN-GSA-MW-3	DTW	Depth to Water Detail	1/18/2023 10:08	30.65	ft
GN-GSA-MW-3	ORP	Oxidation Reduction Potention	1/18/2023 10:08	-52.64	mv
GN-GSA-MW-3	PH	pH	1/18/2023 10:08	6.98	SU
GN-GSA-MW-3	TEMP	Temperature	1/18/2023 10:08	18.93	C
GN-GSA-MW-3	TURB	Turbidity	1/18/2023 10:08	15.8	NTU
GN-GSA-MW-3	COND	Conductivity	1/18/2023 10:13	416.57	uS/cm
GN-GSA-MW-3	DO	DO	1/18/2023 10:13	1.12	mg/L
GN-GSA-MW-3	DTW	Depth to Water Detail	1/18/2023 10:13	30.76	ft
GN-GSA-MW-3	ORP	Oxidation Reduction Potention	1/18/2023 10:13	-48.44	mv



**Field Parameters Summary  
Plant Gaston Gypsum Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-3	PH	pH	1/18/2023 10:13	6.99	SU
GN-GSA-MW-3	TEMP	Temperature	1/18/2023 10:13	19.06	C
GN-GSA-MW-3	TURB	Turbidity	1/18/2023 10:13	13.5	NTU
GN-GSA-MW-3	COND	Conductivity	1/18/2023 10:18	421.04	uS/cm
GN-GSA-MW-3	DO	DO	1/18/2023 10:18	1.13	mg/L
GN-GSA-MW-3	DTW	Depth to Water Detail	1/18/2023 10:18	30.88	ft
GN-GSA-MW-3	ORP	Oxidation Reduction Potention	1/18/2023 10:18	-41.86	mv
GN-GSA-MW-3	PH	pH	1/18/2023 10:18	6.97	SU
GN-GSA-MW-3	TEMP	Temperature	1/18/2023 10:18	18.91	C
GN-GSA-MW-3	TURB	Turbidity	1/18/2023 10:18	10.88	NTU
GN-GSA-MW-3	COND	Conductivity	1/18/2023 10:23	422.9	uS/cm
GN-GSA-MW-3	DO	DO	1/18/2023 10:23	1.12	mg/L
GN-GSA-MW-3	DTW	Depth to Water Detail	1/18/2023 10:23	31.02	ft
GN-GSA-MW-3	ORP	Oxidation Reduction Potention	1/18/2023 10:23	-37.63	mv
GN-GSA-MW-3	PH	pH	1/18/2023 10:23	6.99	SU
GN-GSA-MW-3	TEMP	Temperature	1/18/2023 10:23	19.01	C
GN-GSA-MW-3	TURB	Turbidity	1/18/2023 10:23	10.07	NTU
GN-GSA-MW-3	COND	Conductivity	1/18/2023 10:28	425.08	uS/cm
GN-GSA-MW-3	DO	DO	1/18/2023 10:28	1.12	mg/L
GN-GSA-MW-3	DTW	Depth to Water Detail	1/18/2023 10:28	31.12	ft
GN-GSA-MW-3	ORP	Oxidation Reduction Potention	1/18/2023 10:28	-34.87	mv
GN-GSA-MW-3	PH	pH	1/18/2023 10:28	6.99	SU
GN-GSA-MW-3	SULFIDE	Sulfide	1/18/2023 10:28	0	mg/L
GN-GSA-MW-3	TEMP	Temperature	1/18/2023 10:28	19.01	C
GN-GSA-MW-3	TURB	Turbidity	1/18/2023 10:28	9.31	NTU

**Field Parameters Summary  
Plant Gaston Gypsum Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-13	COND	Conductivity	1/18/2023 11:09	492.04	uS/cm
GN-GSA-MW-13	DO	DO	1/18/2023 11:09	0.43	mg/L
GN-GSA-MW-13	DTW	Depth to Water Detail	1/18/2023 11:09	22.62	ft
GN-GSA-MW-13	ORP	Oxidation Reduction Potention	1/18/2023 11:09	31.83	mv
GN-GSA-MW-13	PH	pH	1/18/2023 11:09	7.12	SU
GN-GSA-MW-13	TEMP	Temperature	1/18/2023 11:09	19.76	C
GN-GSA-MW-13	TURB	Turbidity	1/18/2023 11:09	2.67	NTU
GN-GSA-MW-13	COND	Conductivity	1/18/2023 11:14	490.66	uS/cm
GN-GSA-MW-13	DO	DO	1/18/2023 11:14	0.41	mg/L
GN-GSA-MW-13	DTW	Depth to Water Detail	1/18/2023 11:14	22.62	ft
GN-GSA-MW-13	ORP	Oxidation Reduction Potention	1/18/2023 11:14	35.88	mv
GN-GSA-MW-13	PH	pH	1/18/2023 11:14	7.11	SU
GN-GSA-MW-13	TEMP	Temperature	1/18/2023 11:14	19.75	C
GN-GSA-MW-13	TURB	Turbidity	1/18/2023 11:14	2.32	NTU
GN-GSA-MW-13	COND	Conductivity	1/18/2023 11:19	488.39	uS/cm
GN-GSA-MW-13	DO	DO	1/18/2023 11:19	0.48	mg/L
GN-GSA-MW-13	DTW	Depth to Water Detail	1/18/2023 11:19	22.62	ft
GN-GSA-MW-13	ORP	Oxidation Reduction Potention	1/18/2023 11:19	39.97	mv
GN-GSA-MW-13	PH	pH	1/18/2023 11:19	7.12	SU
GN-GSA-MW-13	TEMP	Temperature	1/18/2023 11:19	19.73	C
GN-GSA-MW-13	TURB	Turbidity	1/18/2023 11:19	1.98	NTU
GN-GSA-MW-13	COND	Conductivity	1/18/2023 11:24	488.29	uS/cm
GN-GSA-MW-13	DO	DO	1/18/2023 11:24	0.53	mg/L
GN-GSA-MW-13	DTW	Depth to Water Detail	1/18/2023 11:24	22.62	ft
GN-GSA-MW-13	ORP	Oxidation Reduction Potention	1/18/2023 11:24	43.29	mv
GN-GSA-MW-13	PH	pH	1/18/2023 11:24	7.13	SU
GN-GSA-MW-13	SULFIDE	Sulfide	1/18/2023 11:24	0	mg/L
GN-GSA-MW-13	TEMP	Temperature	1/18/2023 11:24	19.72	C
GN-GSA-MW-13	TURB	Turbidity	1/18/2023 11:24	2.12	NTU

**Field Parameters Summary  
Plant Gaston Gypsum Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-14S	COND	Conductivity	1/17/2023 14:24	342.08	uS/cm
GN-GSA-MW-14S	DO	DO	1/17/2023 14:24	1.37	mg/L
GN-GSA-MW-14S	DTW	Depth to Water Detail	1/17/2023 14:24	23.18	ft
GN-GSA-MW-14S	ORP	Oxidation Reduction Potention	1/17/2023 14:24	36.31	mv
GN-GSA-MW-14S	PH	pH	1/17/2023 14:24	7.36	SU
GN-GSA-MW-14S	TEMP	Temperature	1/17/2023 14:24	19.66	C
GN-GSA-MW-14S	TURB	Turbidity	1/17/2023 14:24	2.88	NTU
GN-GSA-MW-14S	COND	Conductivity	1/17/2023 14:29	341.81	uS/cm
GN-GSA-MW-14S	DO	DO	1/17/2023 14:29	1.55	mg/L
GN-GSA-MW-14S	DTW	Depth to Water Detail	1/17/2023 14:29	23.18	ft
GN-GSA-MW-14S	ORP	Oxidation Reduction Potention	1/17/2023 14:29	28.31	mv
GN-GSA-MW-14S	PH	pH	1/17/2023 14:29	7.39	SU
GN-GSA-MW-14S	TEMP	Temperature	1/17/2023 14:29	19.74	C
GN-GSA-MW-14S	TURB	Turbidity	1/17/2023 14:29	2.76	NTU
GN-GSA-MW-14S	COND	Conductivity	1/17/2023 14:34	342.1	uS/cm
GN-GSA-MW-14S	DO	DO	1/17/2023 14:34	1.59	mg/L
GN-GSA-MW-14S	DTW	Depth to Water Detail	1/17/2023 14:34	23.18	ft
GN-GSA-MW-14S	ORP	Oxidation Reduction Potention	1/17/2023 14:34	6.66	mv
GN-GSA-MW-14S	PH	pH	1/17/2023 14:34	7.42	SU
GN-GSA-MW-14S	TEMP	Temperature	1/17/2023 14:34	19.71	C
GN-GSA-MW-14S	TURB	Turbidity	1/17/2023 14:34	2.38	NTU
GN-GSA-MW-14S	COND	Conductivity	1/17/2023 14:39	342.55	uS/cm
GN-GSA-MW-14S	DO	DO	1/17/2023 14:39	1.68	mg/L
GN-GSA-MW-14S	DTW	Depth to Water Detail	1/17/2023 14:39	23.18	ft
GN-GSA-MW-14S	ORP	Oxidation Reduction Potention	1/17/2023 14:39	-14.88	mv
GN-GSA-MW-14S	PH	pH	1/17/2023 14:39	7.43	SU
GN-GSA-MW-14S	SULFIDE	Sulfide	1/17/2023 14:39	0	mg/L
GN-GSA-MW-14S	TEMP	Temperature	1/17/2023 14:39	19.57	C
GN-GSA-MW-14S	TURB	Turbidity	1/17/2023 14:39	2.51	NTU

**Field Parameters Summary  
Plant Gaston Gypsum Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-15	COND	Conductivity	1/17/2023 15:16	42.86	uS/cm
GN-GSA-MW-15	DO	DO	1/17/2023 15:16	1.29	mg/L
GN-GSA-MW-15	DTW	Depth to Water Detail	1/17/2023 15:16	18.34	ft
GN-GSA-MW-15	ORP	Oxidation Reduction Potention	1/17/2023 15:16	117.8	mv
GN-GSA-MW-15	PH	pH	1/17/2023 15:16	5.79	SU
GN-GSA-MW-15	TEMP	Temperature	1/17/2023 15:16	19.86	C
GN-GSA-MW-15	TURB	Turbidity	1/17/2023 15:16	5.04	NTU
GN-GSA-MW-15	COND	Conductivity	1/17/2023 15:21	41.01	uS/cm
GN-GSA-MW-15	DO	DO	1/17/2023 15:21	1.08	mg/L
GN-GSA-MW-15	DTW	Depth to Water Detail	1/17/2023 15:21	18.46	ft
GN-GSA-MW-15	ORP	Oxidation Reduction Potention	1/17/2023 15:21	160.27	mv
GN-GSA-MW-15	PH	pH	1/17/2023 15:21	5.78	SU
GN-GSA-MW-15	TEMP	Temperature	1/17/2023 15:21	19.49	C
GN-GSA-MW-15	TURB	Turbidity	1/17/2023 15:21	6.71	NTU
GN-GSA-MW-15	COND	Conductivity	1/17/2023 15:26	40.13	uS/cm
GN-GSA-MW-15	DO	DO	1/17/2023 15:26	1.01	mg/L
GN-GSA-MW-15	DTW	Depth to Water Detail	1/17/2023 15:26	18.51	ft
GN-GSA-MW-15	ORP	Oxidation Reduction Potention	1/17/2023 15:26	184.27	mv
GN-GSA-MW-15	PH	pH	1/17/2023 15:26	5.74	SU
GN-GSA-MW-15	TEMP	Temperature	1/17/2023 15:26	19.43	C
GN-GSA-MW-15	TURB	Turbidity	1/17/2023 15:26	3.64	NTU
GN-GSA-MW-15	COND	Conductivity	1/17/2023 15:31	39.2	uS/cm
GN-GSA-MW-15	DO	DO	1/17/2023 15:31	1	mg/L
GN-GSA-MW-15	DTW	Depth to Water Detail	1/17/2023 15:31	18.59	ft
GN-GSA-MW-15	ORP	Oxidation Reduction Potention	1/17/2023 15:31	197.22	mv
GN-GSA-MW-15	PH	pH	1/17/2023 15:31	5.74	SU
GN-GSA-MW-15	SULFIDE	Sulfide	1/17/2023 15:31	0	mg/L
GN-GSA-MW-15	TEMP	Temperature	1/17/2023 15:31	19.63	C
GN-GSA-MW-15	TURB	Turbidity	1/17/2023 15:31	3.52	NTU

**Field Parameters Summary  
Plant Gaston Gypsum Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-1	COND	Conductivity	1/17/2023 14:37	358.48	uS/cm
GN-GSA-MW-1	DO	DO	1/17/2023 14:37	0.16	mg/L
GN-GSA-MW-1	DTW	Depth to Water Detail	1/17/2023 14:37	26.75	ft
GN-GSA-MW-1	ORP	Oxidation Reduction Potention	1/17/2023 14:37	-175.11	mv
GN-GSA-MW-1	PH	pH	1/17/2023 14:37	7.73	SU
GN-GSA-MW-1	TEMP	Temperature	1/17/2023 14:37	19.66	C
GN-GSA-MW-1	TURB	Turbidity	1/17/2023 14:37	3.43	NTU
GN-GSA-MW-1	COND	Conductivity	1/17/2023 14:42	353.83	uS/cm
GN-GSA-MW-1	DO	DO	1/17/2023 14:42	0.11	mg/L
GN-GSA-MW-1	DTW	Depth to Water Detail	1/17/2023 14:42	26.75	ft
GN-GSA-MW-1	ORP	Oxidation Reduction Potention	1/17/2023 14:42	-179.97	mv
GN-GSA-MW-1	PH	pH	1/17/2023 14:42	7.74	SU
GN-GSA-MW-1	TEMP	Temperature	1/17/2023 14:42	19.6	C
GN-GSA-MW-1	TURB	Turbidity	1/17/2023 14:42	3.06	NTU
GN-GSA-MW-1	COND	Conductivity	1/17/2023 14:47	355.3	uS/cm
GN-GSA-MW-1	DO	DO	1/17/2023 14:47	0.09	mg/L
GN-GSA-MW-1	DTW	Depth to Water Detail	1/17/2023 14:47	26.75	ft
GN-GSA-MW-1	ORP	Oxidation Reduction Potention	1/17/2023 14:47	-179.66	mv
GN-GSA-MW-1	PH	pH	1/17/2023 14:47	7.74	SU
GN-GSA-MW-1	TEMP	Temperature	1/17/2023 14:47	19.7	C
GN-GSA-MW-1	TURB	Turbidity	1/17/2023 14:47	2.89	NTU
GN-GSA-MW-1	COND	Conductivity	1/17/2023 14:52	356.74	uS/cm
GN-GSA-MW-1	DO	DO	1/17/2023 14:52	0.08	mg/L
GN-GSA-MW-1	DTW	Depth to Water Detail	1/17/2023 14:52	26.75	ft
GN-GSA-MW-1	ORP	Oxidation Reduction Potention	1/17/2023 14:52	-174.46	mv
GN-GSA-MW-1	PH	pH	1/17/2023 14:52	7.69	SU
GN-GSA-MW-1	SULFIDE	Sulfide	1/17/2023 14:52	0	mg/L
GN-GSA-MW-1	TEMP	Temperature	1/17/2023 14:52	19.69	C
GN-GSA-MW-1	TURB	Turbidity	1/17/2023 14:52	2.57	NTU

**Field Parameters Summary  
Plant Gaston Gypsum Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-6	COND	Conductivity	1/18/2023 8:57	29.15	uS/cm
GN-GSA-MW-6	DO	DO	1/18/2023 8:57	0.17	mg/L
GN-GSA-MW-6	DTW	Depth to Water Detail	1/18/2023 8:57	27.55	ft
GN-GSA-MW-6	ORP	Oxidation Reduction Potention	1/18/2023 8:57	234	mv
GN-GSA-MW-6	PH	pH	1/18/2023 8:57	4.77	SU
GN-GSA-MW-6	TEMP	Temperature	1/18/2023 8:57	20.14	C
GN-GSA-MW-6	TURB	Turbidity	1/18/2023 8:57	12.4	NTU
GN-GSA-MW-6	COND	Conductivity	1/18/2023 9:02	28.94	uS/cm
GN-GSA-MW-6	DO	DO	1/18/2023 9:02	0.15	mg/L
GN-GSA-MW-6	DTW	Depth to Water Detail	1/18/2023 9:02	27.55	ft
GN-GSA-MW-6	ORP	Oxidation Reduction Potention	1/18/2023 9:02	240.33	mv
GN-GSA-MW-6	PH	pH	1/18/2023 9:02	4.76	SU
GN-GSA-MW-6	TEMP	Temperature	1/18/2023 9:02	20.18	C
GN-GSA-MW-6	TURB	Turbidity	1/18/2023 9:02	7.13	NTU
GN-GSA-MW-6	COND	Conductivity	1/18/2023 9:07	28.96	uS/cm
GN-GSA-MW-6	DO	DO	1/18/2023 9:07	0.14	mg/L
GN-GSA-MW-6	DTW	Depth to Water Detail	1/18/2023 9:07	27.55	ft
GN-GSA-MW-6	ORP	Oxidation Reduction Potention	1/18/2023 9:07	248.35	mv
GN-GSA-MW-6	PH	pH	1/18/2023 9:07	4.75	SU
GN-GSA-MW-6	TEMP	Temperature	1/18/2023 9:07	20.18	C
GN-GSA-MW-6	TURB	Turbidity	1/18/2023 9:07	6.29	NTU
GN-GSA-MW-6	COND	Conductivity	1/18/2023 9:12	28.98	uS/cm
GN-GSA-MW-6	DO	DO	1/18/2023 9:12	0.13	mg/L
GN-GSA-MW-6	DTW	Depth to Water Detail	1/18/2023 9:12	27.55	ft
GN-GSA-MW-6	ORP	Oxidation Reduction Potention	1/18/2023 9:12	254.95	mv
GN-GSA-MW-6	PH	pH	1/18/2023 9:12	4.75	SU
GN-GSA-MW-6	SULFIDE	Sulfide	1/18/2023 9:12	0	mg/L
GN-GSA-MW-6	TEMP	Temperature	1/18/2023 9:12	20.16	C
GN-GSA-MW-6	TURB	Turbidity	1/18/2023 9:12	6.18	NTU

**Field Parameters Summary  
Plant Gaston Gypsum Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-8	COND	Conductivity	1/18/2023 9:49	310.98	uS/cm
GN-GSA-MW-8	DO	DO	1/18/2023 9:49	0.72	mg/L
GN-GSA-MW-8	DTW	Depth to Water Detail	1/18/2023 9:49	20.83	ft
GN-GSA-MW-8	ORP	Oxidation Reduction Potention	1/18/2023 9:49	-53.86	mv
GN-GSA-MW-8	PH	pH	1/18/2023 9:49	7.45	SU
GN-GSA-MW-8	TEMP	Temperature	1/18/2023 9:49	19.8	C
GN-GSA-MW-8	TURB	Turbidity	1/18/2023 9:49	8.72	NTU
GN-GSA-MW-8	COND	Conductivity	1/18/2023 9:54	309.2	uS/cm
GN-GSA-MW-8	DO	DO	1/18/2023 9:54	0.76	mg/L
GN-GSA-MW-8	DTW	Depth to Water Detail	1/18/2023 9:54	20.83	ft
GN-GSA-MW-8	ORP	Oxidation Reduction Potention	1/18/2023 9:54	-72.72	mv
GN-GSA-MW-8	PH	pH	1/18/2023 9:54	7.45	SU
GN-GSA-MW-8	TEMP	Temperature	1/18/2023 9:54	19.78	C
GN-GSA-MW-8	TURB	Turbidity	1/18/2023 9:54	6.13	NTU
GN-GSA-MW-8	COND	Conductivity	1/18/2023 9:59	308.42	uS/cm
GN-GSA-MW-8	DO	DO	1/18/2023 9:59	0.81	mg/L
GN-GSA-MW-8	DTW	Depth to Water Detail	1/18/2023 9:59	20.83	ft
GN-GSA-MW-8	ORP	Oxidation Reduction Potention	1/18/2023 9:59	-83	mv
GN-GSA-MW-8	PH	pH	1/18/2023 9:59	7.51	SU
GN-GSA-MW-8	TEMP	Temperature	1/18/2023 9:59	19.75	C
GN-GSA-MW-8	TURB	Turbidity	1/18/2023 9:59	3.69	NTU
GN-GSA-MW-8	COND	Conductivity	1/18/2023 10:04	306.64	uS/cm
GN-GSA-MW-8	DO	DO	1/18/2023 10:04	0.86	mg/L
GN-GSA-MW-8	DTW	Depth to Water Detail	1/18/2023 10:04	20.83	ft
GN-GSA-MW-8	ORP	Oxidation Reduction Potention	1/18/2023 10:04	-88.01	mv
GN-GSA-MW-8	PH	pH	1/18/2023 10:04	7.54	SU
GN-GSA-MW-8	SULFIDE	Sulfide	1/18/2023 10:04	0	mg/L
GN-GSA-MW-8	TEMP	Temperature	1/18/2023 10:04	19.74	C
GN-GSA-MW-8	TURB	Turbidity	1/18/2023 10:04	3.02	NTU

**Field Parameters Summary  
Plant Gaston Gypsum Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-9	COND	Conductivity	1/18/2023 10:32	140.25	uS/cm
GN-GSA-MW-9	DO	DO	1/18/2023 10:32	0.19	mg/L
GN-GSA-MW-9	DTW	Depth to Water Detail	1/18/2023 10:32	18.95	ft
GN-GSA-MW-9	ORP	Oxidation Reduction Potention	1/18/2023 10:32	89.4	mv
GN-GSA-MW-9	PH	pH	1/18/2023 10:32	6.2	SU
GN-GSA-MW-9	TEMP	Temperature	1/18/2023 10:32	19.81	C
GN-GSA-MW-9	TURB	Turbidity	1/18/2023 10:32	5.23	NTU
GN-GSA-MW-9	COND	Conductivity	1/18/2023 10:37	150.83	uS/cm
GN-GSA-MW-9	DO	DO	1/18/2023 10:37	0.2	mg/L
GN-GSA-MW-9	DTW	Depth to Water Detail	1/18/2023 10:37	18.95	ft
GN-GSA-MW-9	ORP	Oxidation Reduction Potention	1/18/2023 10:37	102.26	mv
GN-GSA-MW-9	PH	pH	1/18/2023 10:37	6.23	SU
GN-GSA-MW-9	TEMP	Temperature	1/18/2023 10:37	19.83	C
GN-GSA-MW-9	TURB	Turbidity	1/18/2023 10:37	2.98	NTU
GN-GSA-MW-9	COND	Conductivity	1/18/2023 10:42	171.36	uS/cm
GN-GSA-MW-9	DO	DO	1/18/2023 10:42	0.21	mg/L
GN-GSA-MW-9	DTW	Depth to Water Detail	1/18/2023 10:42	18.95	ft
GN-GSA-MW-9	ORP	Oxidation Reduction Potention	1/18/2023 10:42	111.36	mv
GN-GSA-MW-9	PH	pH	1/18/2023 10:42	6.27	SU
GN-GSA-MW-9	TEMP	Temperature	1/18/2023 10:42	19.67	C
GN-GSA-MW-9	TURB	Turbidity	1/18/2023 10:42	2.46	NTU
GN-GSA-MW-9	COND	Conductivity	1/18/2023 10:47	200.64	uS/cm
GN-GSA-MW-9	DO	DO	1/18/2023 10:47	0.22	mg/L
GN-GSA-MW-9	DTW	Depth to Water Detail	1/18/2023 10:47	18.95	ft
GN-GSA-MW-9	ORP	Oxidation Reduction Potention	1/18/2023 10:47	110.51	mv
GN-GSA-MW-9	PH	pH	1/18/2023 10:47	6.43	SU
GN-GSA-MW-9	TEMP	Temperature	1/18/2023 10:47	19.6	C
GN-GSA-MW-9	TURB	Turbidity	1/18/2023 10:47	2.53	NTU
GN-GSA-MW-9	COND	Conductivity	1/18/2023 10:52	221.51	uS/cm
GN-GSA-MW-9	DO	DO	1/18/2023 10:52	0.21	mg/L
GN-GSA-MW-9	DTW	Depth to Water Detail	1/18/2023 10:52	18.95	ft
GN-GSA-MW-9	ORP	Oxidation Reduction Potention	1/18/2023 10:52	109.43	mv
GN-GSA-MW-9	PH	pH	1/18/2023 10:52	6.53	SU
GN-GSA-MW-9	TEMP	Temperature	1/18/2023 10:52	19.6	C
GN-GSA-MW-9	TURB	Turbidity	1/18/2023 10:52	3.04	NTU
GN-GSA-MW-9	COND	Conductivity	1/18/2023 10:57	235.46	uS/cm
GN-GSA-MW-9	DO	DO	1/18/2023 10:57	0.21	mg/L
GN-GSA-MW-9	DTW	Depth to Water Detail	1/18/2023 10:57	18.95	ft
GN-GSA-MW-9	ORP	Oxidation Reduction Potention	1/18/2023 10:57	107.83	mv
GN-GSA-MW-9	PH	pH	1/18/2023 10:57	6.6	SU
GN-GSA-MW-9	TEMP	Temperature	1/18/2023 10:57	19.65	C
GN-GSA-MW-9	TURB	Turbidity	1/18/2023 10:57	2.46	NTU
GN-GSA-MW-9	COND	Conductivity	1/18/2023 11:02	245.34	uS/cm
GN-GSA-MW-9	DO	DO	1/18/2023 11:02	0.2	mg/L



**Field Parameters Summary  
Plant Gaston Gypsum Pond**

<b>WELL ID</b>	<b>PARAMETER</b>	<b>DESCRIPTION</b>	<b>TIME OF READING</b>	<b>VALUE</b>	<b>UNIT</b>
GN-GSA-MW-9	DTW	Depth to Water Detail	1/18/2023 11:02	24.98	ft
GN-GSA-MW-9	ORP	Oxidation Reduction Potention	1/18/2023 11:02	105.93	mv
GN-GSA-MW-9	PH	pH	1/18/2023 11:02	6.65	SU
GN-GSA-MW-9	TEMP	Temperature	1/18/2023 11:02	19.63	C
GN-GSA-MW-9	TURB	Turbidity	1/18/2023 11:02	2.38	NTU
GN-GSA-MW-9	COND	Conductivity	1/18/2023 11:07	252.09	uS/cm
GN-GSA-MW-9	DO	DO	1/18/2023 11:07	0.21	mg/L
GN-GSA-MW-9	DTW	Depth to Water Detail	1/18/2023 11:07	24.98	ft
GN-GSA-MW-9	ORP	Oxidation Reduction Potention	1/18/2023 11:07	105.98	mv
GN-GSA-MW-9	PH	pH	1/18/2023 11:07	6.67	SU
GN-GSA-MW-9	TEMP	Temperature	1/18/2023 11:07	19.66	C
GN-GSA-MW-9	TURB	Turbidity	1/18/2023 11:07	2.25	NTU
GN-GSA-MW-9	COND	Conductivity	1/18/2023 11:12	256.24	uS/cm
GN-GSA-MW-9	DO	DO	1/18/2023 11:12	0.21	mg/L
GN-GSA-MW-9	DTW	Depth to Water Detail	1/18/2023 11:12	24.98	ft
GN-GSA-MW-9	ORP	Oxidation Reduction Potention	1/18/2023 11:12	103.9	mv
GN-GSA-MW-9	PH	pH	1/18/2023 11:12	6.71	SU
GN-GSA-MW-9	SULFIDE	Sulfide	1/18/2023 11:12	0	mg/L
GN-GSA-MW-9	TEMP	Temperature	1/18/2023 11:12	19.57	C
GN-GSA-MW-9	TURB	Turbidity	1/18/2023 11:12	2.2	NTU

**Field Parameters Summary  
Plant Gaston Gypsum Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-7	COND	Conductivity	1/17/2023 13:36	442.97	uS/cm
GN-GSA-MW-7	DO	DO	1/17/2023 13:36	0.76	mg/L
GN-GSA-MW-7	DTW	Depth to Water Detail	1/17/2023 13:36	27.41	ft
GN-GSA-MW-7	ORP	Oxidation Reduction Potention	1/17/2023 13:36	55.26	mv
GN-GSA-MW-7	PH	pH	1/17/2023 13:36	6.81	SU
GN-GSA-MW-7	TEMP	Temperature	1/17/2023 13:36	19.66	C
GN-GSA-MW-7	TURB	Turbidity	1/17/2023 13:36	7.09	NTU
GN-GSA-MW-7	COND	Conductivity	1/17/2023 13:41	438.78	uS/cm
GN-GSA-MW-7	DO	DO	1/17/2023 13:41	0.65	mg/L
GN-GSA-MW-7	DTW	Depth to Water Detail	1/17/2023 13:41	27.86	ft
GN-GSA-MW-7	ORP	Oxidation Reduction Potention	1/17/2023 13:41	62.76	mv
GN-GSA-MW-7	PH	pH	1/17/2023 13:41	6.81	SU
GN-GSA-MW-7	TEMP	Temperature	1/17/2023 13:41	19.71	C
GN-GSA-MW-7	TURB	Turbidity	1/17/2023 13:41	5.74	NTU
GN-GSA-MW-7	COND	Conductivity	1/17/2023 13:46	436.76	uS/cm
GN-GSA-MW-7	DO	DO	1/17/2023 13:46	0.6	mg/L
GN-GSA-MW-7	DTW	Depth to Water Detail	1/17/2023 13:46	28.31	ft
GN-GSA-MW-7	ORP	Oxidation Reduction Potention	1/17/2023 13:46	64.61	mv
GN-GSA-MW-7	PH	pH	1/17/2023 13:46	6.81	SU
GN-GSA-MW-7	TEMP	Temperature	1/17/2023 13:46	19.8	C
GN-GSA-MW-7	TURB	Turbidity	1/17/2023 13:46	3.28	NTU
GN-GSA-MW-7	COND	Conductivity	1/17/2023 13:51	434.62	uS/cm
GN-GSA-MW-7	DO	DO	1/17/2023 13:51	0.62	mg/L
GN-GSA-MW-7	DTW	Depth to Water Detail	1/17/2023 13:51	28.51	ft
GN-GSA-MW-7	ORP	Oxidation Reduction Potention	1/17/2023 13:51	62.04	mv
GN-GSA-MW-7	PH	pH	1/17/2023 13:51	6.81	SU
GN-GSA-MW-7	TEMP	Temperature	1/17/2023 13:51	19.85	C
GN-GSA-MW-7	TURB	Turbidity	1/17/2023 13:51	2.29	NTU
GN-GSA-MW-7	COND	Conductivity	1/17/2023 13:56	431.89	uS/cm
GN-GSA-MW-7	DO	DO	1/17/2023 13:56	0.62	mg/L
GN-GSA-MW-7	DTW	Depth to Water Detail	1/17/2023 13:56	28.68	ft
GN-GSA-MW-7	ORP	Oxidation Reduction Potention	1/17/2023 13:56	57.37	mv
GN-GSA-MW-7	PH	pH	1/17/2023 13:56	6.81	SU
GN-GSA-MW-7	TEMP	Temperature	1/17/2023 13:56	20.08	C
GN-GSA-MW-7	TURB	Turbidity	1/17/2023 13:56	1.83	NTU
GN-GSA-MW-7	COND	Conductivity	1/17/2023 14:01	427.99	uS/cm
GN-GSA-MW-7	DO	DO	1/17/2023 14:01	0.63	mg/L
GN-GSA-MW-7	DTW	Depth to Water Detail	1/17/2023 14:01	28.83	ft
GN-GSA-MW-7	ORP	Oxidation Reduction Potention	1/17/2023 14:01	54.48	mv
GN-GSA-MW-7	PH	pH	1/17/2023 14:01	6.78	SU
GN-GSA-MW-7	TEMP	Temperature	1/17/2023 14:01	20.06	C
GN-GSA-MW-7	TURB	Turbidity	1/17/2023 14:01	1.66	NTU
GN-GSA-MW-7	COND	Conductivity	1/17/2023 14:06	425.58	uS/cm
GN-GSA-MW-7	DO	DO	1/17/2023 14:06	0.65	mg/L

**Field Parameters Summary  
Plant Gaston Gypsum Pond**

<b>WELL ID</b>	<b>PARAMETER</b>	<b>DESCRIPTION</b>	<b>TIME OF READING</b>	<b>VALUE</b>	<b>UNIT</b>
GN-GSA-MW-7	DTW	Depth to Water Detail	1/17/2023 14:06	28.96	ft
GN-GSA-MW-7	ORP	Oxidation Reduction Potention	1/17/2023 14:06	49.26	mv
GN-GSA-MW-7	PH	pH	1/17/2023 14:06	6.78	SU
GN-GSA-MW-7	SULFIDE	Sulfide	1/17/2023 14:06	0	mg/L
GN-GSA-MW-7	TEMP	Temperature	1/17/2023 14:06	20.05	C
GN-GSA-MW-7	TURB	Turbidity	1/17/2023 14:06	1.43	NTU

**Field Parameters Summary  
Plant Gaston Gypsum Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-5	COND	Conductivity	1/18/2023 9:32	601.44	uS/cm
GN-GSA-MW-5	DO	DO	1/18/2023 9:32	0.17	mg/L
GN-GSA-MW-5	DTW	Depth to Water Detail	1/18/2023 9:32	29.1	ft
GN-GSA-MW-5	ORP	Oxidation Reduction Potention	1/18/2023 9:32	-19.28	mv
GN-GSA-MW-5	PH	pH	1/18/2023 9:32	6.39	SU
GN-GSA-MW-5	TEMP	Temperature	1/18/2023 9:32	19.59	C
GN-GSA-MW-5	TURB	Turbidity	1/18/2023 9:32	9.09	NTU
GN-GSA-MW-5	COND	Conductivity	1/18/2023 9:37	600.95	uS/cm
GN-GSA-MW-5	DO	DO	1/18/2023 9:37	0.16	mg/L
GN-GSA-MW-5	DTW	Depth to Water Detail	1/18/2023 9:37	29.1	ft
GN-GSA-MW-5	ORP	Oxidation Reduction Potention	1/18/2023 9:37	-16.38	mv
GN-GSA-MW-5	PH	pH	1/18/2023 9:37	6.39	SU
GN-GSA-MW-5	TEMP	Temperature	1/18/2023 9:37	19.6	C
GN-GSA-MW-5	TURB	Turbidity	1/18/2023 9:37	6.61	NTU
GN-GSA-MW-5	COND	Conductivity	1/18/2023 9:42	600.31	uS/cm
GN-GSA-MW-5	DO	DO	1/18/2023 9:42	0.14	mg/L
GN-GSA-MW-5	DTW	Depth to Water Detail	1/18/2023 9:42	29.1	ft
GN-GSA-MW-5	ORP	Oxidation Reduction Potention	1/18/2023 9:42	-13.18	mv
GN-GSA-MW-5	PH	pH	1/18/2023 9:42	6.38	SU
GN-GSA-MW-5	TEMP	Temperature	1/18/2023 9:42	19.61	C
GN-GSA-MW-5	TURB	Turbidity	1/18/2023 9:42	4.54	NTU
GN-GSA-MW-5	COND	Conductivity	1/18/2023 9:47	600.29	uS/cm
GN-GSA-MW-5	DO	DO	1/18/2023 9:47	0.14	mg/L
GN-GSA-MW-5	DTW	Depth to Water Detail	1/18/2023 9:47	29.1	ft
GN-GSA-MW-5	ORP	Oxidation Reduction Potention	1/18/2023 9:47	-9.88	mv
GN-GSA-MW-5	PH	pH	1/18/2023 9:47	6.38	SU
GN-GSA-MW-5	SULFIDE	Sulfide	1/18/2023 9:47	0	mg/L
GN-GSA-MW-5	TEMP	Temperature	1/18/2023 9:47	19.6	C
GN-GSA-MW-5	TURB	Turbidity	1/18/2023 9:47	4.19	NTU

**Field Parameters Summary  
Plant Gaston Gypsum Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-10	COND	Conductivity	1/18/2023 10:44	483.99	uS/cm
GN-GSA-MW-10	DO	DO	1/18/2023 10:44	0.28	mg/L
GN-GSA-MW-10	DTW	Depth to Water Detail	1/18/2023 10:44	21.43	ft
GN-GSA-MW-10	ORP	Oxidation Reduction Potention	1/18/2023 10:44	-43.52	mv
GN-GSA-MW-10	PH	pH	1/18/2023 10:44	7.09	SU
GN-GSA-MW-10	TEMP	Temperature	1/18/2023 10:44	20.81	C
GN-GSA-MW-10	TURB	Turbidity	1/18/2023 10:44	15.6	NTU
GN-GSA-MW-10	COND	Conductivity	1/18/2023 10:49	484.95	uS/cm
GN-GSA-MW-10	DO	DO	1/18/2023 10:49	0.22	mg/L
GN-GSA-MW-10	DTW	Depth to Water Detail	1/18/2023 10:49	21.51	ft
GN-GSA-MW-10	ORP	Oxidation Reduction Potention	1/18/2023 10:49	-29.07	mv
GN-GSA-MW-10	PH	pH	1/18/2023 10:49	7.08	SU
GN-GSA-MW-10	TEMP	Temperature	1/18/2023 10:49	20.85	C
GN-GSA-MW-10	TURB	Turbidity	1/18/2023 10:49	12.59	NTU
GN-GSA-MW-10	COND	Conductivity	1/18/2023 10:54	486.1	uS/cm
GN-GSA-MW-10	DO	DO	1/18/2023 10:54	0.2	mg/L
GN-GSA-MW-10	DTW	Depth to Water Detail	1/18/2023 10:54	21.61	ft
GN-GSA-MW-10	ORP	Oxidation Reduction Potention	1/18/2023 10:54	-22.56	mv
GN-GSA-MW-10	PH	pH	1/18/2023 10:54	7.08	SU
GN-GSA-MW-10	TEMP	Temperature	1/18/2023 10:54	20.85	C
GN-GSA-MW-10	TURB	Turbidity	1/18/2023 10:54	6.88	NTU
GN-GSA-MW-10	COND	Conductivity	1/18/2023 10:59	485.76	uS/cm
GN-GSA-MW-10	DO	DO	1/18/2023 10:59	0.2	mg/L
GN-GSA-MW-10	DTW	Depth to Water Detail	1/18/2023 10:59	21.61	ft
GN-GSA-MW-10	ORP	Oxidation Reduction Potention	1/18/2023 10:59	-17.32	mv
GN-GSA-MW-10	PH	pH	1/18/2023 10:59	7.08	SU
GN-GSA-MW-10	SULFIDE	Sulfide	1/18/2023 10:59	0	mg/L
GN-GSA-MW-10	TEMP	Temperature	1/18/2023 10:59	20.84	C
GN-GSA-MW-10	TURB	Turbidity	1/18/2023 10:59	4.77	NTU

**Field Parameters Summary  
Plant Gaston Gypsum Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-11	COND	Conductivity	1/18/2023 11:41	146.56	uS/cm
GN-GSA-MW-11	DO	DO	1/18/2023 11:41	1.06	mg/L
GN-GSA-MW-11	DTW	Depth to Water Detail	1/18/2023 11:41	20.92	ft
GN-GSA-MW-11	ORP	Oxidation Reduction Potention	1/18/2023 11:41	182.65	mv
GN-GSA-MW-11	PH	pH	1/18/2023 11:41	5.96	SU
GN-GSA-MW-11	TEMP	Temperature	1/18/2023 11:41	21.42	C
GN-GSA-MW-11	TURB	Turbidity	1/18/2023 11:41	1.22	NTU
GN-GSA-MW-11	COND	Conductivity	1/18/2023 11:46	136.43	uS/cm
GN-GSA-MW-11	DO	DO	1/18/2023 11:46	0.76	mg/L
GN-GSA-MW-11	DTW	Depth to Water Detail	1/18/2023 11:46	20.92	ft
GN-GSA-MW-11	ORP	Oxidation Reduction Potention	1/18/2023 11:46	191.48	mv
GN-GSA-MW-11	PH	pH	1/18/2023 11:46	5.88	SU
GN-GSA-MW-11	TEMP	Temperature	1/18/2023 11:46	21.44	C
GN-GSA-MW-11	TURB	Turbidity	1/18/2023 11:46	0.43	NTU
GN-GSA-MW-11	COND	Conductivity	1/18/2023 11:51	131.04	uS/cm
GN-GSA-MW-11	DO	DO	1/18/2023 11:51	0.63	mg/L
GN-GSA-MW-11	DTW	Depth to Water Detail	1/18/2023 11:51	20.92	ft
GN-GSA-MW-11	ORP	Oxidation Reduction Potention	1/18/2023 11:51	200.19	mv
GN-GSA-MW-11	PH	pH	1/18/2023 11:51	5.84	SU
GN-GSA-MW-11	TEMP	Temperature	1/18/2023 11:51	21.43	C
GN-GSA-MW-11	TURB	Turbidity	1/18/2023 11:51	0.36	NTU
GN-GSA-MW-11	COND	Conductivity	1/18/2023 11:56	129.05	uS/cm
GN-GSA-MW-11	DO	DO	1/18/2023 11:56	0.5	mg/L
GN-GSA-MW-11	DTW	Depth to Water Detail	1/18/2023 11:56	20.92	ft
GN-GSA-MW-11	ORP	Oxidation Reduction Potention	1/18/2023 11:56	206.69	mv
GN-GSA-MW-11	PH	pH	1/18/2023 11:56	5.83	SU
GN-GSA-MW-11	TEMP	Temperature	1/18/2023 11:56	21.46	C
GN-GSA-MW-11	TURB	Turbidity	1/18/2023 11:56	0.29	NTU
GN-GSA-MW-11	COND	Conductivity	1/18/2023 12:01	129.91	uS/cm
GN-GSA-MW-11	DO	DO	1/18/2023 12:01	0.51	mg/L
GN-GSA-MW-11	DTW	Depth to Water Detail	1/18/2023 12:01	20.92	ft
GN-GSA-MW-11	ORP	Oxidation Reduction Potention	1/18/2023 12:01	214.63	mv
GN-GSA-MW-11	PH	pH	1/18/2023 12:01	5.77	SU
GN-GSA-MW-11	SULFIDE	Sulfide	1/18/2023 12:01	0	mg/L
GN-GSA-MW-11	TEMP	Temperature	1/18/2023 12:01	21.44	C
GN-GSA-MW-11	TURB	Turbidity	1/18/2023 12:01	0.3	NTU

**Field Parameters Summary  
Plant Gaston Gypsum Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-12	COND	Conductivity	1/18/2023 12:53	457.78	uS/cm
GN-GSA-MW-12	DO	DO	1/18/2023 12:53	1	mg/L
GN-GSA-MW-12	DTW	Depth to Water Detail	1/18/2023 12:53	18.84	ft
GN-GSA-MW-12	ORP	Oxidation Reduction Potention	1/18/2023 12:53	95.2	mv
GN-GSA-MW-12	PH	pH	1/18/2023 12:53	7.2	SU
GN-GSA-MW-12	TEMP	Temperature	1/18/2023 12:53	20.6	C
GN-GSA-MW-12	TURB	Turbidity	1/18/2023 12:53	0.23	NTU
GN-GSA-MW-12	COND	Conductivity	1/18/2023 12:58	474.74	uS/cm
GN-GSA-MW-12	DO	DO	1/18/2023 12:58	0.41	mg/L
GN-GSA-MW-12	DTW	Depth to Water Detail	1/18/2023 12:58	18.84	ft
GN-GSA-MW-12	ORP	Oxidation Reduction Potention	1/18/2023 12:58	86.61	mv
GN-GSA-MW-12	PH	pH	1/18/2023 12:58	7.12	SU
GN-GSA-MW-12	TEMP	Temperature	1/18/2023 12:58	20.59	C
GN-GSA-MW-12	TURB	Turbidity	1/18/2023 12:58	0.48	NTU
GN-GSA-MW-12	COND	Conductivity	1/18/2023 13:03	481.62	uS/cm
GN-GSA-MW-12	DO	DO	1/18/2023 13:03	0.28	mg/L
GN-GSA-MW-12	DTW	Depth to Water Detail	1/18/2023 13:03	18.84	ft
GN-GSA-MW-12	ORP	Oxidation Reduction Potention	1/18/2023 13:03	75.74	mv
GN-GSA-MW-12	PH	pH	1/18/2023 13:03	7.11	SU
GN-GSA-MW-12	TEMP	Temperature	1/18/2023 13:03	20.6	C
GN-GSA-MW-12	TURB	Turbidity	1/18/2023 13:03	0.43	NTU
GN-GSA-MW-12	COND	Conductivity	1/18/2023 13:08	483.51	uS/cm
GN-GSA-MW-12	DO	DO	1/18/2023 13:08	0.23	mg/L
GN-GSA-MW-12	DTW	Depth to Water Detail	1/18/2023 13:08	18.84	ft
GN-GSA-MW-12	ORP	Oxidation Reduction Potention	1/18/2023 13:08	70.86	mv
GN-GSA-MW-12	PH	pH	1/18/2023 13:08	7.11	SU
GN-GSA-MW-12	SULFIDE	Sulfide	1/18/2023 13:08	0	mg/L
GN-GSA-MW-12	TEMP	Temperature	1/18/2023 13:08	20.59	C
GN-GSA-MW-12	TURB	Turbidity	1/18/2023 13:08	0.5	NTU

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

# *Analytical Report*



**Sample Group :** WMWGASG\_1395

**Project/Site :** Gaston Gypsum  
Wilsonville, AL 35186

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

**Attention :** Dustin Brooks & Greg Dyer

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



February 13, 2023

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on January 19, 2023. 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, 2023

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

Sincerely,

Quality Control: **Brooke  
Caton**

Digitally signed by Brooke  
Caton  
Date: 2023.02.13  
16:30:54 -06'00'

Supervision: **T Durant  
Maske**

Digitally signed by T Durant Maske  
DN: cn=T Durant Maske, gn=T Durant Maske c=US  
United States, +U.S. United States  
e=tdmaske@southernco.com  
Reason: I am the author of this document  
Location:  
Date: 2023-02-14 11:39-06:00



### REPORT OF LABORATORY ANALYSIS

This Certificate states the physical and/or chemical characteristics of the sample as submitted.  
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Alabama Power's General Test Laboratory.



Total Metals ICP

Gaston Gypsum

WMWGASG\_1395

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD01211	745133	WMWGASG_1395
BD01212	745133	WMWGASG_1395
BD01213	745133	WMWGASG_1395
BD01214	745133	WMWGASG_1395
BD01215	745133	WMWGASG_1395
BD01216	745133	WMWGASG_1395
BD01217	745133	WMWGASG_1395
BD01218	745133	WMWGASG_1395
BD01219	745133	WMWGASG_1395
BD01220	745133	WMWGASG_1395
BD01221	745134	WMWGASG_1395
BD01222	745134	WMWGASG_1395
BD01223	745134	WMWGASG_1395
BD01224	745134	WMWGASG_1395
BD01225	745134	WMWGASG_1395
BD01226	745134	WMWGASG_1395
BD01227	745134	WMWGASG_1395
BD01228	745134	WMWGASG_1395
BD01229	745134	WMWGASG_1395

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

#### General Quality Control Procedures:

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

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

#### Matrix Specific Quality Control Procedures:

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

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

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD01211	Calcium	10.15
BD01212	Calcium	10.15
BD01214	Calcium	10.15
BD01215	Calcium	10.15
BD01216	Calcium	10.15
BD01217	Calcium	10.15
BD01218	Calcium	10.15
BD01219	Calcium	10.15
BD01221	Calcium	10.15
BD01223	Calcium	10.15
BD01224	Calcium	10.15
BD01227	Calcium	10.15
BD01228	Calcium	10.15

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

Dissolved Metals ICP

Gaston Gypsum

WMWGASG\_1395

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD01211	745100	WMWGASAP_1395
BD01212	745100	WMWGASAP_1395
BD01213	745100	WMWGASAP_1395
BD01214	745100	WMWGASAP_1395
BD01215	745100	WMWGASAP_1395
BD01216	745100	WMWGASAP_1395
BD01217	745100	WMWGASAP_1395
BD01218	745100	WMWGASAP_1395
BD01219	745100	WMWGASAP_1395
BD01220	745100	WMWGASAP_1395
BD01221	745101	WMWGASAP_1395
BD01223	745101	WMWGASAP_1395
BD01224	745101	WMWGASAP_1395
BD01225	745101	WMWGASAP_1395
BD01227	745101	WMWGASAP_1395
BD01228	745101	WMWGASAP_1395

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

General Quality Control Procedures:

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

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

Matrix Specific Quality Control Procedures:

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

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

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD01211	Calcium	10.15
BD01212	Calcium	10.15
BD01214	Calcium	10.15
BD01215	Calcium	10.15
BD01216	Calcium	10.15
BD01217	Calcium	10.15
BD01218	Calcium	10.15
BD01219	Calcium	10.15
BD01221	Calcium	10.15
BD01223	Calcium	10.15
BD01224	Calcium	10.15
BD01227	Calcium	10.15
BD01228	Calcium	10.15

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

Total Metals ICPMS

Gaston Gypsum

WMWGASG\_1395

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD01211	745953	WMWGASG_1395
BD01212	745953	WMWGASG_1395
BD01213	745953	WMWGASG_1395
BD01214	745953	WMWGASG_1395
BD01215	745953	WMWGASG_1395
BD01216	745953	WMWGASG_1395
BD01217	745953	WMWGASG_1395
BD01218	745953	WMWGASG_1395
BD01219	745953	WMWGASG_1395
BD01220	745953	WMWGASG_1395
BD01221	745954	WMWGASG_1395
BD01222	745954	WMWGASG_1395
BD01223	745954	WMWGASG_1395
BD01224	745954	WMWGASG_1395
BD01225	745954	WMWGASG_1395
BD01226	745954	WMWGASG_1395
BD01227	745954	WMWGASG_1395
BD01228	745954	WMWGASG_1395
BD01229	745954	WMWGASG_1395

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

General Quality Control Procedures:

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

- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

#### Matrix Specific Quality Control Procedures:

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

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

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD01211	Barium	5.075
BD01212	Barium	5.075

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



## Dissolved Metals ICPMS

Gaston Gypsum

WMWGASG\_1395

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD01211	745893	WMWGASAP_1395
BD01212	745893	WMWGASAP_1395
BD01213	745893	WMWGASAP_1395
BD01214	745893	WMWGASAP_1395
BD01215	745893	WMWGASAP_1395
BD01216	745893	WMWGASAP_1395
BD01217	745893	WMWGASAP_1395
BD01218	745893	WMWGASAP_1395
BD01219	745893	WMWGASAP_1395
BD01220	745893	WMWGASAP_1395
BD01221	745894	WMWGASAP_1395
BD01223	745894	WMWGASAP_1395
BD01224	745894	WMWGASAP_1395
BD01225	745894	WMWGASAP_1395
BD01227	745894	WMWGASAP_1395
BD01228	745894	WMWGASAP_1395

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

### General Quality Control Procedures:

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

- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each preparation batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

#### Matrix Specific Quality Control Procedures:

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

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

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD01211	Barium	5.075
BD01212	Barium	5.075

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

Mercury

Gaston Gypsum

WMWGASG\_1395

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD01211	745227	WMWGASG_1395
BD01212	745227	WMWGASG_1395
BD01213	745227	WMWGASG_1395
BD01214	745227	WMWGASG_1395
BD01215	745227	WMWGASG_1395
BD01216	745227	WMWGASG_1395
BD01217	745227	WMWGASG_1395
BD01218	745227	WMWGASG_1395
BD01219	745227	WMWGASG_1395
BD01220	745227	WMWGASG_1395
BD01221	745228	WMWGASG_1395
BD01222	745228	WMWGASG_1395
BD01223	745228	WMWGASG_1395
BD01224	745228	WMWGASG_1395
BD01225	745228	WMWGASG_1395
BD01226	745228	WMWGASG_1395
BD01227	745228	WMWGASG_1395
BD01228	745228	WMWGASG_1395
BD01229	745228	WMWGASG_1395

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

#### General Quality Control Procedures:

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

- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch was below the limit of quantitation for the requested analyte.
- All calibration met criteria for the requested analyte.
- All response signals were satisfactory.

### Matrix Specific Quality Control Procedures:

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

- A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for accuracy were met.
  - A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.

Total Dissolved Solids

Gaston Gypsum

WMWGASG\_1395

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD01211	745175	WMWGASG_1395
BD01212	745175	WMWGASG_1395
BD01213	745175	WMWGASG_1395
BD01214	745175	WMWGASG_1395
BD01215	745175	WMWGASG_1395
BD01216	745175	WMWGASG_1395
BD01217	745175	WMWGASG_1395
BD01218	745175	WMWGASG_1395
BD01219	745175	WMWGASG_1395
BD01220	745175	WMWGASG_1395
BD01221	745176	WMWGASG_1395
BD01222	745176	WMWGASG_1395
BD01223	745176	WMWGASG_1395
BD01224	745176	WMWGASG_1395
BD01225	745176	WMWGASG_1395
BD01226	745176	WMWGASG_1395
BD01227	745176	WMWGASG_1395
BD01228	745176	WMWGASG_1395
BD01229	745176	WMWGASG_1395

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

General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch, and RPD was ≤ 10%.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.

- All samples with residue <2.5mg had the maximum volume of 150mL filtered. Affected samples are as follows:
  - BD01213
  - BD01222
  - BD01226
  - BD01229

Alkalinity

Gaston Gypsum

WMWGASG\_1395

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD01211	745851, 745852, 745853	WMWGASAP_1395
BD01212	745851, 745852, 745853	WMWGASAP_1395
BD01213	745851, 745852, 745853	WMWGASAP_1395
BD01214	745851, 745852, 745853	WMWGASAP_1395
BD01215	745851, 745852, 745853	WMWGASAP_1395
BD01216	745851, 745852, 745853	WMWGASAP_1395
BD01217	745851, 745852, 745853	WMWGASAP_1395
BD01218	745851, 745852, 745853	WMWGASAP_1395
BD01219	745851, 745852, 745853	WMWGASAP_1395
BD01220	745851, 745852, 745853	WMWGASAP_1395
BD01221	745851, 745852, 745853	WMWGASAP_1395
BD01223	745851, 745852, 745853	WMWGASAP_1395
BD01224	745851, 745852, 745853	WMWGASAP_1395
BD01225	745851, 745852, 745853	WMWGASAP_1395
BD01227	745851, 745852, 745853	WMWGASAP_1395
BD01228	745851, 745852, 745853	WMWGASAP_1395

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.

Anions

Gaston Gypsum

WMWGASG\_1395

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD01211	745194, 745196, 745498	WMWGASG_1395
BD01212	745194, 745196, 745498	WMWGASG_1395
BD01213	745194, 745196, 745498	WMWGASG_1395
BD01214	745194, 745196, 745498	WMWGASG_1395
BD01215	745194, 745196, 745498	WMWGASG_1395
BD01216	745194, 745196, 745498	WMWGASG_1395
BD01217	745194, 745196, 745498	WMWGASG_1395
BD01218	745194, 745196, 745498	WMWGASG_1395
BD01219	745194, 745196, 745498	WMWGASG_1395
BD01220	745194, 745196, 745498	WMWGASG_1395
BD01221	745195, 745197, 745499	WMWGASG_1395
BD01222	745195, 745197, 745499	WMWGASG_1395
BD01223	745195, 745197, 745499	WMWGASG_1395
BD01224	745195, 745197, 745499	WMWGASG_1395
BD01225	745195, 745197, 745499	WMWGASG_1395
BD01226	745195, 745197, 745499	WMWGASG_1395
BD01227	745195, 745197, 745499	WMWGASG_1395
BD01228	745195, 745197, 745499	WMWGASG_1395
BD01229	745195, 745197, 745499	WMWGASG_1395

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



- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

#### Matrix Specific Quality Control Procedures:

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

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

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD01217	Sulfate	8
BD01218	Sulfate	8

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

Nitrate-Nitrite

Gaston Gypsum

WMWGASG\_1395

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD01211	745182	WMWGASG_1395
BD01212	745182	WMWGASG_1395
BD01213	745182	WMWGASG_1395
BD01214	745182	WMWGASG_1395
BD01215	745182	WMWGASG_1395
BD01216	745182	WMWGASG_1395
BD01217	745182	WMWGASG_1395
BD01218	745182	WMWGASG_1395
BD01219	745182	WMWGASG_1395
BD01220	745182	WMWGASG_1395
BD01221	745183	WMWGASG_1395
BD01222	745183	WMWGASG_1395
BD01223	745183	WMWGASG_1395
BD01224	745183	WMWGASG_1395
BD01225	745183	WMWGASG_1395
BD01226	745183	WMWGASG_1395
BD01227	745183	WMWGASG_1395
BD01228	745183	WMWGASG_1395
BD01229	745183	WMWGASG_1395

4. All of the above samples were prepared and analyzed for NO<sub>x</sub> by EPA 353.2.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

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

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

### EPA 353.2 Specific QC:

- Prior to sample analysis, Cadmium coil reduction efficiency check met criteria.
- Matrix Specific QC:
  - A sample duplicate was run and criteria for precision was met.
  - A matrix spike was run and criteria for accuracy was met.
- 7. All samples were analyzed without a dilution factor.
- 8. The raw data results are shown with dilution factors included.

Total Organic Carbon

Gaston Gypsum

WMWGASG\_1395

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD01211	745143	WMWGASG_1395
BD01212	745143	WMWGASG_1395
BD01213	745143	WMWGASG_1395
BD01214	745143	WMWGASG_1395
BD01215	745143	WMWGASG_1395
BD01216	745143	WMWGASG_1395
BD01217	745143	WMWGASG_1395
BD01218	745143	WMWGASG_1395
BD01219	745143	WMWGASG_1395
BD01220	745143	WMWGASG_1395
BD01221	745144	WMWGASG_1395
BD01222	745144	WMWGASG_1395
BD01223	745144	WMWGASG_1395
BD01224	745144	WMWGASG_1395
BD01225	745144	WMWGASG_1395
BD01226	745144	WMWGASG_1395
BD01227	745144	WMWGASG_1395
BD01228	745144	WMWGASG_1395
BD01229	745144	WMWGASG_1395

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

General Quality Control Procedures:

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

### Matrix Specific Quality Control Procedures:

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.
- 7. All samples were analyzed without a dilution factor.
- 8. The raw data results are shown with dilution factors included.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-1

**Location Code:** WMWGASG  
**Collected:** 1/17/23 14:55  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01211

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	1/20/23 11:10	1/23/23 12:45		1.015	0.0350	mg/L	0.030000	0.1015	J
* Calcium, Total	1/20/23 11:10	1/23/23 14:52		10.15	43.5	mg/L	0.70035	4.06	
* Iron, Total	1/20/23 11:10	1/23/23 12:45		1.015	0.199	mg/L	0.008120	0.0406	
* Lithium, Total	1/20/23 11:10	1/23/23 12:45		1.015	0.00981	mg/L	0.007105	0.01999956	J
* Magnesium, Total	1/20/23 11:10	1/23/23 12:45		1.015	21.3	mg/L	0.021315	0.406	
* Silica, Total (calc.)	1/20/23 11:10	1/23/23 12:45		1	20.5	mg/L			
* Silicon, Total	1/20/23 11:10	1/23/23 12:45		1.015	9.56	mg/L	0.02030	0.25375	
* Sodium, Total	1/20/23 11:10	1/23/23 12:45		1.015	9.21	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	1/20/23 08:03	1/26/23 11:47		1.015	0.0349	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	1/20/23 08:03	1/27/23 12:08		10.15	42.8	mg/L	0.70035	4.06	
* Iron, Dissolved	1/20/23 08:03	1/26/23 11:47		1.015	0.183	mg/L	0.008120	0.0406	
* Lithium, Dissolved	1/20/23 08:03	1/26/23 11:47		1.015	0.0101	mg/L	0.007105	0.01999956	J
* Magnesium, Dissolved	1/20/23 08:03	1/26/23 11:47		1.015	21.3	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	1/20/23 08:03	1/26/23 11:47		1	20.5	mg/L			
* Silicon, Dissolved	1/20/23 08:03	1/26/23 11:47		1.015	9.60	mg/L	0.02030	0.25375	
* Sodium, Dissolved	1/20/23 08:03	1/26/23 11:47		1.015	8.89	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	1/20/23 11:10	1/20/23 14:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	1/20/23 11:10	1/20/23 14:07		1.015	0.00763	mg/L	0.006090	0.05075	J
* Arsenic, Total	1/20/23 11:10	1/20/23 14:07		1.015	0.00221	mg/L	0.000081	0.000203	
* Barium, Total	1/20/23 11:10	1/20/23 15:52		5.075	2.22	mg/L	0.002538	0.005075	
* Beryllium, Total	1/20/23 11:10	1/20/23 14:07		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	1/20/23 11:10	1/20/23 14:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	1/20/23 11:10	1/20/23 14:07		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	1/20/23 11:10	1/20/23 14:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	1/20/23 11:10	1/20/23 14:07		1.015	0.000345	mg/L	0.000068	0.000203	
* Manganese, Total	1/20/23 11:10	1/20/23 14:07		1.015	0.00584	mg/L	0.000152	0.001015	
* Molybdenum, Total	1/20/23 11:10	1/20/23 14:07		1.015	0.00329	mg/L	0.000102	0.000203	
* Potassium, Total	1/20/23 11:10	1/20/23 14:07		1.015	1.07	mg/L	0.169505	0.5075	

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-1

**Location Code:** WMWGASG  
**Collected:** 1/17/23 14:55  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01211

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	1/20/23 11:10	1/20/23 14:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/20/23 11:10	1/20/23 14:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	1/20/23 08:03	1/20/23 11:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	1/20/23 08:03	1/20/23 11:22		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	1/20/23 08:03	1/20/23 11:22		1.015	0.00169	mg/L	0.000081	0.000203	
* Barium, Dissolved	1/20/23 08:03	1/20/23 12:46		5.075	2.23	mg/L	0.002538	0.005075	
* Beryllium, Dissolved	1/20/23 08:03	1/20/23 11:22		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	1/20/23 08:03	1/20/23 11:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	1/20/23 08:03	1/20/23 11:22		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	1/20/23 08:03	1/20/23 11:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	1/20/23 08:03	1/20/23 11:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	1/20/23 08:03	1/20/23 11:22		1.015	0.00521	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	1/20/23 08:03	1/20/23 11:22		1.015	0.00322	mg/L	0.000102	0.000203	
* Potassium, Dissolved	1/20/23 08:03	1/20/23 11:22		1.015	1.04	mg/L	0.169505	0.5075	
* Selenium, Dissolved	1/20/23 08:03	1/20/23 11:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	1/20/23 08:03	1/20/23 11:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	1/23/23 12:59	1/23/23 16:57		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	1/20/23 10:18	1/20/23 10:18		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
* Alkalinity to pH 4.5	1/27/23 12:42	1/27/23 15:58		1	197	mg CaCO3/L			
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	1/20/23 10:18	1/23/23 13:50		1	199	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	1/27/23 12:42	1/27/23 15:58		1	195	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	1/27/23 12:42	1/27/23 15:58		1	1.64	mg CaCO3/L			
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	1/20/23 10:26	1/20/23 10:26		1	Not Detected	mg/L	1.00	2	U

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-1

**Location Code:** WMWGASG  
**Collected:** 1/17/23 14:55  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01211

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	1/20/23 09:01	1/20/23 09:01		1	2.31	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	1/20/23 10:51	1/20/23 10:51		1	0.358	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	1/24/23 10:22	1/24/23 10:22		1	4.25	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	1/17/23 14:52	1/17/23 14:52			356.74	uS/cm			FA
pH	1/17/23 14:52	1/17/23 14:52			7.69	SU			FA
Temperature	1/17/23 14:52	1/17/23 14:52			19.69	C			FA
Turbidity	1/17/23 14:52	1/17/23 14:52			2.57	NTU			FA
Sulfide	1/17/23 14:52	1/17/23 14:52			0	mg/L			FA

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/17/23 14:55  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-1

**Laboratory ID Number:** BD01211

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD01220	Aluminum, Dissolved	mg/L	0.0000964	0.0132	0.100	0.0975	0.0967	0.0936	0.0850 to 0.115	97.5	70.0 to 130	0.824	20.0
BD01220	Aluminum, Total	mg/L	0.000698	0.0132	0.100	0.104	0.106	0.0945	0.0850 to 0.115	95.8	70.0 to 130	1.90	20.0
BD01220	Antimony, Dissolved	mg/L	0.000485	0.00100	0.100	0.0953	0.0959	0.0907	0.0850 to 0.115	95.3	70.0 to 130	0.628	20.0
BD01220	Antimony, Total	mg/L	0.000562	0.00100	0.100	0.103	0.102	0.0934	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD01220	Arsenic, Dissolved	mg/L	0.0000011	0.000176	0.100	0.0926	0.0920	0.0935	0.0850 to 0.115	92.6	70.0 to 130	0.650	20.0
BD01220	Arsenic, Total	mg/L	0.0000062	0.000176	0.100	0.0932	0.0941	0.0930	0.0850 to 0.115	93.1	70.0 to 130	0.961	20.0
BD01220	Barium, Dissolved	mg/L	0.0000176	0.00100	0.100	0.0983	0.0988	0.0948	0.0850 to 0.115	88.1	70.0 to 130	0.507	20.0
BD01220	Barium, Total	mg/L	-0.0000001	0.00100	0.100	0.104	0.106	0.0918	0.0850 to 0.115	93.4	70.0 to 130	1.90	20.0
BD01220	Beryllium, Dissolved	mg/L	0.0000000	0.000880	0.100	0.0941	0.0932	0.0952	0.0850 to 0.115	94.1	70.0 to 130	0.961	20.0
BD01220	Beryllium, Total	mg/L	0.0000000	0.000880	0.100	0.0955	0.0980	0.0949	0.0850 to 0.115	95.5	70.0 to 130	2.58	20.0
BD01220	Boron, Dissolved	mg/L	0.00249	0.0650	1.00	1.05	1.06	0.998	0.850 to 1.15	98.9	70.0 to 130	0.948	20.0
BD01220	Boron, Total	mg/L	0.00195	0.0650	1.00	1.06	1.06	0.983	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BD01220	Cadmium, Dissolved	mg/L	-0.0000069	0.000147	0.100	0.0935	0.0908	0.0950	0.0850 to 0.115	93.5	70.0 to 130	2.93	20.0
BD01220	Cadmium, Total	mg/L	-0.0000069	0.000147	0.100	0.0915	0.0908	0.0920	0.0850 to 0.115	91.5	70.0 to 130	0.768	20.0
BD01220	Calcium, Dissolved	mg/L	-0.00432	0.152	5.00	18.2	18.1	5.15	4.25 to 5.75	100	70.0 to 130	0.551	20.0
BD01220	Calcium, Total	mg/L	-0.00327	0.152	5.00	18.7	18.7	5.14	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BD01220	Chloride	mg/L	-0.0232	1.00	10.0	24.9	25.6	10.7	9.00 to 11.0	103	80.0 to 120	2.77	20.0
BD01220	Chromium, Dissolved	mg/L	0.0000328	0.000440	0.100	0.0948	0.0937	0.0962	0.0850 to 0.115	94.8	70.0 to 130	1.17	20.0
BD01220	Chromium, Total	mg/L	0.0000316	0.000440	0.100	0.0953	0.0953	0.0946	0.0850 to 0.115	95.3	70.0 to 130	0.00	20.0
BD01220	Cobalt, Dissolved	mg/L	0.0000003	0.000147	0.100	0.101	0.0989	0.100	0.0850 to 0.115	98.6	70.0 to 130	2.10	20.0
BD01220	Cobalt, Total	mg/L	-0.0000025	0.000147	0.100	0.100	0.100	0.0978	0.0850 to 0.115	97.6	70.0 to 130	0.00	20.0
BD01220	Fluoride	mg/L	0.0307	0.125	2.50	2.47	2.54	2.49	2.25 to 2.75	98.8	80.0 to 120	2.79	20.0
BD01220	Iron, Dissolved	mg/L	-0.000588	0.0176	0.2	0.227	0.229	0.211	0.170 to 0.230	102	70.0 to 130	0.877	20.0
BD01220	Iron, Total	mg/L	-0.000137	0.0176	0.2	0.225	0.224	0.203	0.170 to 0.230	103	70.0 to 130	0.445	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/17/23 14:55  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-1

**Laboratory ID Number:** BD01211

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD01220	Lead, Dissolved	mg/L	0.0000120	0.000147	0.100	0.0981	0.0974	0.103	0.0850 to 0.115	98.1	70.0 to 130	0.716	20.0
BD01220	Lead, Total	mg/L	0.0000031	0.000147	0.100	0.0984	0.0974	0.0965	0.0850 to 0.115	98.4	70.0 to 130	1.02	20.0
BD01220	Lithium, Dissolved	mg/L	4.150E-05	0.0154	0.200	0.201	0.203	0.199	0.170 to 0.230	100	70.0 to 130	0.990	20.0
BD01220	Lithium, Total	mg/L	-7.200E-05	0.0154	0.200	0.202	0.200	0.194	0.170 to 0.230	101	70.0 to 130	0.995	20.0
BD01220	Magnesium, Dissolved	mg/L	-0.00595	0.0462	5.00	7.33	7.35	5.16	4.25 to 5.75	101	70.0 to 130	0.272	20.0
BD01220	Magnesium, Total	mg/L	-0.00486	0.0462	5.00	7.45	7.49	5.12	4.25 to 5.75	101	70.0 to 130	0.535	20.0
BD01220	Manganese, Dissolved	mg/L	0.0000386	0.00033	0.100	0.372	0.367	0.0979	0.0850 to 0.115	92.0	70.0 to 130	1.35	20.0
BD01220	Manganese, Total	mg/L	0.0000265	0.00033	0.100	0.376	0.372	0.0962	0.0850 to 0.115	94.0	70.0 to 130	1.07	20.0
BD01220	Mercury, Total by CVAA	mg/L	-1.000E-05	0.000500	0.004	0.00392	0.00392	0.0039	0.00340 to 0.00460	98.0	70.0 to 130	0.00	20.0
BD01220	Molybdenum, Dissolved	mg/L	0.0000085	0.0002	0.100	0.0964	0.0960	0.0964	0.0850 to 0.115	95.5	70.0 to 130	0.416	20.0
BD01220	Molybdenum, Total	mg/L	0.0000152	0.0002	0.100	0.0954	0.0940	0.0948	0.0850 to 0.115	95.4	70.0 to 130	1.48	20.0
BD01220	Potassium, Dissolved	mg/L	0.0104	0.367	10.0	9.56	9.57	9.58	8.50 to 11.5	93.2	70.0 to 130	0.105	20.0
BD01220	Potassium, Total	mg/L	0.0110	0.367	10.0	9.84	9.70	9.43	8.50 to 11.5	95.9	70.0 to 130	1.43	20.0
BD01220	Selenium, Dissolved	mg/L	0.0000656	0.00100	0.100	0.0945	0.0946	0.0954	0.0850 to 0.115	94.5	70.0 to 130	0.106	20.0
BD01220	Selenium, Total	mg/L	0.0000430	0.00100	0.100	0.0952	0.0927	0.0931	0.0850 to 0.115	95.2	70.0 to 130	2.66	20.0
BD01220	Silicon, Dissolved	mg/L	0.00157	0.0440	1.00	4.73	4.71	1.06	0.850 to 1.15	106	70.0 to 130	0.424	20.0
BD01220	Silicon, Total	mg/L	6.140E-05	0.0440	1.00	4.66	4.65	1.03	0.850 to 1.15	100	70.0 to 130	0.215	20.0
BD01220	Sodium, Dissolved	mg/L	-6.280E-05	0.0660	5.00	11.2	11.2	5.11	4.25 to 5.75	107	70.0 to 130	0.00	20.0
BD01220	Sodium, Total	mg/L	0.00647	0.0660	5.00	10.8	10.7	4.93	4.25 to 5.75	103	70.0 to 130	0.930	20.0
BD01220	Sulfate	mg/L	0.0479	2.0	20.0	22.8	23.0	19.8	18.0 to 22.0	99.2	80.0 to 120	0.873	20.0
BD01220	Thallium, Dissolved	mg/L	0.0000089	0.000147	0.100	0.102	0.103	0.106	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD01220	Thallium, Total	mg/L	0.0000042	0.000147	0.100	0.100	0.101	0.0989	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD01220	Total Organic Carbon	mg/L	-0.0342	1.00	10.0	11.3	11.5	10.9		113	80.0 to 120	1.75	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/17/23 14:55  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-1

**Laboratory ID Number:** BD01211

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01228	Alkalinity to pH 4.5	mg CaCO3/L					254	50.8	45.0 to 55.0			1.59	10.0
BD01220	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.08	0.002	1.89	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD01219	Solids, Dissolved	mg/L	1.00	25.0			270	50.0	40.0 to 60.0			1.49	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-1 DUP

**Location Code:** WMWGASG  
**Collected:** 1/17/23 14:55  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01212

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	1/20/23 11:10	1/23/23 12:48		1.015	0.0347	mg/L	0.030000	0.1015	J
* Calcium, Total	1/20/23 11:10	1/23/23 14:56		10.15	43.6	mg/L	0.70035	4.06	
* Iron, Total	1/20/23 11:10	1/23/23 12:48		1.015	0.195	mg/L	0.008120	0.0406	
* Lithium, Total	1/20/23 11:10	1/23/23 12:48		1.015	0.00984	mg/L	0.007105	0.01999956	J
* Magnesium, Total	1/20/23 11:10	1/23/23 12:48		1.015	21.3	mg/L	0.021315	0.406	
* Silica, Total (calc.)	1/20/23 11:10	1/23/23 12:48		1	20.4	mg/L			
* Silicon, Total	1/20/23 11:10	1/23/23 12:48		1.015	9.52	mg/L	0.02030	0.25375	
* Sodium, Total	1/20/23 11:10	1/23/23 12:48		1.015	9.12	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	1/20/23 08:03	1/26/23 11:50		1.015	0.0342	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	1/20/23 08:03	1/27/23 12:12		10.15	42.8	mg/L	0.70035	4.06	
* Iron, Dissolved	1/20/23 08:03	1/26/23 11:50		1.015	0.178	mg/L	0.008120	0.0406	
* Lithium, Dissolved	1/20/23 08:03	1/26/23 11:50		1.015	0.0101	mg/L	0.007105	0.01999956	J
* Magnesium, Dissolved	1/20/23 08:03	1/26/23 11:50		1.015	21.2	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	1/20/23 08:03	1/26/23 11:50		1	20.5	mg/L			
* Silicon, Dissolved	1/20/23 08:03	1/26/23 11:50		1.015	9.56	mg/L	0.02030	0.25375	
* Sodium, Dissolved	1/20/23 08:03	1/26/23 11:50		1.015	8.77	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	1/20/23 11:10	1/20/23 14:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	1/20/23 11:10	1/20/23 14:11		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Total	1/20/23 11:10	1/20/23 14:11		1.015	0.00221	mg/L	0.000081	0.000203	
* Barium, Total	1/20/23 11:10	1/20/23 15:56		5.075	2.19	mg/L	0.002538	0.005075	
* Beryllium, Total	1/20/23 11:10	1/20/23 14:11		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	1/20/23 11:10	1/20/23 14:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	1/20/23 11:10	1/20/23 14:11		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	1/20/23 11:10	1/20/23 14:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	1/20/23 11:10	1/20/23 14:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	1/20/23 11:10	1/20/23 14:11		1.015	0.00591	mg/L	0.000152	0.001015	
* Molybdenum, Total	1/20/23 11:10	1/20/23 14:11		1.015	0.00351	mg/L	0.000102	0.000203	
* Potassium, Total	1/20/23 11:10	1/20/23 14:11		1.015	1.11	mg/L	0.169505	0.5075	

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-1 DUP

**Location Code:** WMWGASG  
**Collected:** 1/17/23 14:55  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01212

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	1/20/23 11:10	1/20/23 14:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/20/23 11:10	1/20/23 14:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	1/20/23 08:03	1/20/23 11:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	1/20/23 08:03	1/20/23 11:26		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	1/20/23 08:03	1/20/23 11:26		1.015	0.00197	mg/L	0.000081	0.000203	
* Barium, Dissolved	1/20/23 08:03	1/20/23 12:49		5.075	2.27	mg/L	0.002538	0.005075	
* Beryllium, Dissolved	1/20/23 08:03	1/20/23 11:26		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	1/20/23 08:03	1/20/23 11:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	1/20/23 08:03	1/20/23 11:26		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	1/20/23 08:03	1/20/23 11:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	1/20/23 08:03	1/20/23 11:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	1/20/23 08:03	1/20/23 11:26		1.015	0.00535	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	1/20/23 08:03	1/20/23 11:26		1.015	0.00316	mg/L	0.000102	0.000203	
* Potassium, Dissolved	1/20/23 08:03	1/20/23 11:26		1.015	1.08	mg/L	0.169505	0.5075	
* Selenium, Dissolved	1/20/23 08:03	1/20/23 11:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	1/20/23 08:03	1/20/23 11:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	1/23/23 12:59	1/23/23 17:00		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	1/20/23 10:20	1/20/23 10:20		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
* Alkalinity to pH 4.5	1/27/23 12:42	1/27/23 15:58		1	197	mg CaCO3/L			
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	1/20/23 10:18	1/23/23 13:50		1	200	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	1/27/23 12:42	1/27/23 15:58		1	194	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	1/27/23 12:42	1/27/23 15:58		1	3.02	mg CaCO3/L			
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	1/20/23 10:42	1/20/23 10:42		1	Not Detected	mg/L	1.00	2	U

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-1 DUP

**Location Code:** WMWGASG  
**Collected:** 1/17/23 14:55  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01212

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	1/20/23 09:02	1/20/23 09:02		1	2.38	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	1/20/23 10:52	1/20/23 10:52		1	0.299	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	1/24/23 10:23	1/24/23 10:23		1	3.99	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	1/17/23 14:52	1/17/23 14:52			356.74	uS/cm			FA
pH	1/17/23 14:52	1/17/23 14:52			7.69	SU			FA
Temperature	1/17/23 14:52	1/17/23 14:52			19.69	C			FA
Turbidity	1/17/23 14:52	1/17/23 14:52			2.57	NTU			FA
Sulfide	1/17/23 14:52	1/17/23 14:52			0	mg/L			FA

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/17/23 14:55  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-1 DUP

**Laboratory ID Number:** BD01212

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD01220	Aluminum, Dissolved	mg/L	0.0000964	0.0132	0.100	0.0975	0.0967	0.0936	0.0850 to 0.115	97.5	70.0 to 130	0.824	20.0	
BD01220	Aluminum, Total	mg/L	0.000698	0.0132	0.100	0.104	0.106	0.0945	0.0850 to 0.115	95.8	70.0 to 130	1.90	20.0	
BD01220	Antimony, Dissolved	mg/L	0.000485	0.00100	0.100	0.0953	0.0959	0.0907	0.0850 to 0.115	95.3	70.0 to 130	0.628	20.0	
BD01220	Antimony, Total	mg/L	0.000562	0.00100	0.100	0.103	0.102	0.0934	0.0850 to 0.115	103	70.0 to 130	0.976	20.0	
BD01220	Arsenic, Dissolved	mg/L	0.0000011	0.000176	0.100	0.0926	0.0920	0.0935	0.0850 to 0.115	92.6	70.0 to 130	0.650	20.0	
BD01220	Arsenic, Total	mg/L	0.0000062	0.000176	0.100	0.0932	0.0941	0.0930	0.0850 to 0.115	93.1	70.0 to 130	0.961	20.0	
BD01220	Barium, Dissolved	mg/L	0.0000176	0.00100	0.100	0.0983	0.0988	0.0948	0.0850 to 0.115	88.1	70.0 to 130	0.507	20.0	
BD01220	Barium, Total	mg/L	-0.0000001	0.00100	0.100	0.104	0.106	0.0918	0.0850 to 0.115	93.4	70.0 to 130	1.90	20.0	
BD01220	Beryllium, Dissolved	mg/L	0.0000000	0.000880	0.100	0.0941	0.0932	0.0952	0.0850 to 0.115	94.1	70.0 to 130	0.961	20.0	
BD01220	Beryllium, Total	mg/L	0.0000000	0.000880	0.100	0.0955	0.0980	0.0949	0.0850 to 0.115	95.5	70.0 to 130	2.58	20.0	
BD01220	Boron, Dissolved	mg/L	0.00249	0.0650	1.00	1.05	1.06	0.998	0.850 to 1.15	98.9	70.0 to 130	0.948	20.0	
BD01220	Boron, Total	mg/L	0.00195	0.0650	1.00	1.06	1.06	0.983	0.850 to 1.15	100	70.0 to 130	0.00	20.0	
BD01220	Cadmium, Dissolved	mg/L	-0.0000069	0.000147	0.100	0.0935	0.0908	0.0950	0.0850 to 0.115	93.5	70.0 to 130	2.93	20.0	
BD01220	Cadmium, Total	mg/L	-0.0000069	0.000147	0.100	0.0915	0.0908	0.0920	0.0850 to 0.115	91.5	70.0 to 130	0.768	20.0	
BD01220	Calcium, Dissolved	mg/L	-0.00432	0.152	5.00	18.2	18.1	5.15	4.25 to 5.75	100	70.0 to 130	0.551	20.0	
BD01220	Calcium, Total	mg/L	-0.00327	0.152	5.00	18.7	18.7	5.14	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0	
BD01220	Chloride	mg/L	-0.0232	1.00	10.0	24.9	25.6	10.7	9.00 to 11.0	103	80.0 to 120	2.77	20.0	
BD01220	Chromium, Dissolved	mg/L	0.0000328	0.000440	0.100	0.0948	0.0937	0.0962	0.0850 to 0.115	94.8	70.0 to 130	1.17	20.0	
BD01220	Chromium, Total	mg/L	0.0000316	0.000440	0.100	0.0953	0.0953	0.0946	0.0850 to 0.115	95.3	70.0 to 130	0.00	20.0	
BD01220	Cobalt, Dissolved	mg/L	0.0000003	0.000147	0.100	0.101	0.0989	0.100	0.0850 to 0.115	98.6	70.0 to 130	2.10	20.0	
BD01220	Cobalt, Total	mg/L	-0.0000025	0.000147	0.100	0.100	0.100	0.0978	0.0850 to 0.115	97.6	70.0 to 130	0.00	20.0	
BD01220	Fluoride	mg/L	0.0307	0.125	2.50	2.47	2.54	2.49	2.25 to 2.75	98.8	80.0 to 120	2.79	20.0	
BD01220	Iron, Dissolved	mg/L	-0.000588	0.0176	0.2	0.227	0.229	0.211	0.170 to 0.230	102	70.0 to 130	0.877	20.0	
BD01220	Iron, Total	mg/L	-0.000137	0.0176	0.2	0.225	0.224	0.203	0.170 to 0.230	103	70.0 to 130	0.445	20.0	

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/17/23 14:55  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-1 DUP

**Laboratory ID Number:** BD01212

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD01220	Lead, Dissolved	mg/L	0.0000120	0.000147	0.100	0.0981	0.0974	0.103	0.0850 to 0.115	98.1	70.0 to 130	0.716	20.0
BD01220	Lead, Total	mg/L	0.0000031	0.000147	0.100	0.0984	0.0974	0.0965	0.0850 to 0.115	98.4	70.0 to 130	1.02	20.0
BD01220	Lithium, Dissolved	mg/L	4.150E-05	0.0154	0.200	0.201	0.203	0.199	0.170 to 0.230	100	70.0 to 130	0.990	20.0
BD01220	Lithium, Total	mg/L	-7.200E-05	0.0154	0.200	0.202	0.200	0.194	0.170 to 0.230	101	70.0 to 130	0.995	20.0
BD01220	Magnesium, Dissolved	mg/L	-0.00595	0.0462	5.00	7.33	7.35	5.16	4.25 to 5.75	101	70.0 to 130	0.272	20.0
BD01220	Magnesium, Total	mg/L	-0.00486	0.0462	5.00	7.45	7.49	5.12	4.25 to 5.75	101	70.0 to 130	0.535	20.0
BD01220	Manganese, Dissolved	mg/L	0.0000386	0.00033	0.100	0.372	0.367	0.0979	0.0850 to 0.115	92.0	70.0 to 130	1.35	20.0
BD01220	Manganese, Total	mg/L	0.0000265	0.00033	0.100	0.376	0.372	0.0962	0.0850 to 0.115	94.0	70.0 to 130	1.07	20.0
BD01220	Mercury, Total by CVAA	mg/L	-1.000E-05	0.000500	0.004	0.00392	0.00392	0.0039	0.00340 to 0.00460	98.0	70.0 to 130	0.00	20.0
BD01220	Molybdenum, Dissolved	mg/L	0.0000085	0.0002	0.100	0.0964	0.0960	0.0964	0.0850 to 0.115	95.5	70.0 to 130	0.416	20.0
BD01220	Molybdenum, Total	mg/L	0.0000152	0.0002	0.100	0.0954	0.0940	0.0948	0.0850 to 0.115	95.4	70.0 to 130	1.48	20.0
BD01220	Potassium, Dissolved	mg/L	0.0104	0.367	10.0	9.56	9.57	9.58	8.50 to 11.5	93.2	70.0 to 130	0.105	20.0
BD01220	Potassium, Total	mg/L	0.0110	0.367	10.0	9.84	9.70	9.43	8.50 to 11.5	95.9	70.0 to 130	1.43	20.0
BD01220	Selenium, Dissolved	mg/L	0.0000656	0.00100	0.100	0.0945	0.0946	0.0954	0.0850 to 0.115	94.5	70.0 to 130	0.106	20.0
BD01220	Selenium, Total	mg/L	0.0000430	0.00100	0.100	0.0952	0.0927	0.0931	0.0850 to 0.115	95.2	70.0 to 130	2.66	20.0
BD01220	Silicon, Dissolved	mg/L	0.00157	0.0440	1.00	4.73	4.71	1.06	0.850 to 1.15	106	70.0 to 130	0.424	20.0
BD01220	Silicon, Total	mg/L	6.140E-05	0.0440	1.00	4.66	4.65	1.03	0.850 to 1.15	100	70.0 to 130	0.215	20.0
BD01220	Sodium, Dissolved	mg/L	-6.280E-05	0.0660	5.00	11.2	11.2	5.11	4.25 to 5.75	107	70.0 to 130	0.00	20.0
BD01220	Sodium, Total	mg/L	0.00647	0.0660	5.00	10.8	10.7	4.93	4.25 to 5.75	103	70.0 to 130	0.930	20.0
BD01220	Sulfate	mg/L	0.0479	2.0	20.0	22.8	23.0	19.8	18.0 to 22.0	99.2	80.0 to 120	0.873	20.0
BD01220	Thallium, Dissolved	mg/L	0.0000089	0.000147	0.100	0.102	0.103	0.106	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD01220	Thallium, Total	mg/L	0.0000042	0.000147	0.100	0.100	0.101	0.0989	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD01220	Total Organic Carbon	mg/L	-0.0342	1.00	10.0	11.3	11.5	10.9		113	80.0 to 120	1.75	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



## Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/17/23 14:55  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-1 DUP

**Laboratory ID Number:** BD01212

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01228	Alkalinity to pH 4.5	mg CaCO3/L					254	50.8	45.0 to 55.0			1.59	10.0
BD01220	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.08	0.002	1.89	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD01219	Solids, Dissolved	mg/L	1.00	25.0			270	50.0	40.0 to 60.0			1.49	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-6

**Location Code:** WMWGASG  
**Collected:** 1/18/23 09:15  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01213

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	1/20/23 11:10	1/23/23 12:52		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	1/20/23 11:10	1/23/23 12:52		1.015	0.583	mg/L	0.070035	0.406	
* Iron, Total	1/20/23 11:10	1/23/23 12:52		1.015	0.0672	mg/L	0.008120	0.0406	
* Lithium, Total	1/20/23 11:10	1/23/23 12:52		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	1/20/23 11:10	1/23/23 12:52		1.015	0.378	mg/L	0.021315	0.406	J
* Silica, Total (calc.)	1/20/23 11:10	1/23/23 12:52		1	9.44	mg/L			
* Silicon, Total	1/20/23 11:10	1/23/23 12:52		1.015	4.41	mg/L	0.02030	0.25375	
* Sodium, Total	1/20/23 11:10	1/23/23 12:52		1.015	2.84	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	1/20/23 08:03	1/26/23 11:54		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	1/20/23 08:03	1/26/23 11:54		1.015	0.594	mg/L	0.070035	0.406	
* Iron, Dissolved	1/20/23 08:03	1/26/23 11:54		1.015	0.0377	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	1/20/23 08:03	1/26/23 11:54		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	1/20/23 08:03	1/26/23 11:54		1.015	0.372	mg/L	0.021315	0.406	J
* Silica, Dissolved (calc.)	1/20/23 08:03	1/26/23 11:54		1	9.42	mg/L			
* Silicon, Dissolved	1/20/23 08:03	1/26/23 11:54		1.015	4.40	mg/L	0.02030	0.25375	
* Sodium, Dissolved	1/20/23 08:03	1/26/23 11:54		1.015	2.87	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	1/20/23 11:10	1/20/23 14:14		1.015	0.000644	mg/L	0.000508	0.001015	J
* Aluminum, Total	1/20/23 11:10	1/20/23 14:14		1.015	0.141	mg/L	0.006090	0.05075	
* Arsenic, Total	1/20/23 11:10	1/20/23 14:14		1.015	0.000157	mg/L	0.000081	0.000203	J
* Barium, Total	1/20/23 11:10	1/20/23 14:14		1.015	0.0176	mg/L	0.000508	0.001015	
* Beryllium, Total	1/20/23 11:10	1/20/23 14:14		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	1/20/23 11:10	1/20/23 14:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	1/20/23 11:10	1/20/23 14:14		1.015	0.000264	mg/L	0.000203	0.001015	J
* Cobalt, Total	1/20/23 11:10	1/20/23 14:14		1.015	0.000709	mg/L	0.000068	0.000203	
* Lead, Total	1/20/23 11:10	1/20/23 14:14		1.015	0.000353	mg/L	0.000068	0.000203	
* Manganese, Total	1/20/23 11:10	1/20/23 14:14		1.015	0.00897	mg/L	0.000152	0.001015	
* Molybdenum, Total	1/20/23 11:10	1/20/23 14:14		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	1/20/23 11:10	1/20/23 14:14		1.015	0.196	mg/L	0.169505	0.5075	J

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-6

**Location Code:** WMWGASG  
**Collected:** 1/18/23 09:15  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01213

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	1/20/23 11:10	1/20/23 14:14		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/20/23 11:10	1/20/23 14:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	1/20/23 08:03	1/20/23 11:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	1/20/23 08:03	1/20/23 11:29		1.015	0.0816	mg/L	0.006090	0.05075	
* Arsenic, Dissolved	1/20/23 08:03	1/20/23 11:29		1.015	0.000113	mg/L	0.000081	0.000203	J
* Barium, Dissolved	1/20/23 08:03	1/20/23 11:29		1.015	0.0164	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	1/20/23 08:03	1/20/23 11:29		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	1/20/23 08:03	1/20/23 11:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	1/20/23 08:03	1/20/23 11:29		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	1/20/23 08:03	1/20/23 11:29		1.015	0.000690	mg/L	0.000068	0.000203	
* Lead, Dissolved	1/20/23 08:03	1/20/23 11:29		1.015	0.000308	mg/L	0.000068	0.000203	
* Manganese, Dissolved	1/20/23 08:03	1/20/23 11:29		1.015	0.00840	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	1/20/23 08:03	1/20/23 11:29		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	1/20/23 08:03	1/20/23 11:29		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Dissolved	1/20/23 08:03	1/20/23 11:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	1/20/23 08:03	1/20/23 11:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	1/23/23 12:59	1/23/23 17:04		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	1/20/23 10:22	1/20/23 10:22		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
* Alkalinity to pH 4.5	1/27/23 12:42	1/27/23 15:58		1	1.94	mg CaCO3/L			
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	1/20/23 10:18	1/23/23 13:50		1	Not Detected	mg/L		25	U
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	1/27/23 12:42	1/27/23 15:58		1	1.94	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	1/27/23 12:42	1/27/23 15:58		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	1/20/23 10:59	1/20/23 10:59		1	Not Detected	mg/L	1.00	2	U

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-6

**Location Code:** WMWGASG  
**Collected:** 1/18/23 09:15  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01213

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	1/20/23 09:04	1/20/23 09:04		1	3.69	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	1/20/23 10:54	1/20/23 10:54		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	1/24/23 10:24	1/24/23 10:24		1	Not Detected	mg/L	0.6	2	U
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	1/18/23 09:12	1/18/23 09:12			28.98	uS/cm			FA
pH	1/18/23 09:12	1/18/23 09:12			4.75	SU			FA
Temperature	1/18/23 09:12	1/18/23 09:12			20.16	C			FA
Turbidity	1/18/23 09:12	1/18/23 09:12			6.18	NTU			FA
Sulfide	1/18/23 09:12	1/18/23 09:12			0	mg/L			FA

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/18/23 09:15  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-6

**Laboratory ID Number:** BD01213

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD01220	Aluminum, Dissolved	mg/L	0.0000964	0.0132	0.100	0.0975	0.0967	0.0936	0.0850 to 0.115	97.5	70.0 to 130	0.824	20.0
BD01220	Aluminum, Total	mg/L	0.000698	0.0132	0.100	0.104	0.106	0.0945	0.0850 to 0.115	95.8	70.0 to 130	1.90	20.0
BD01220	Antimony, Dissolved	mg/L	0.000485	0.00100	0.100	0.0953	0.0959	0.0907	0.0850 to 0.115	95.3	70.0 to 130	0.628	20.0
BD01220	Antimony, Total	mg/L	0.000562	0.00100	0.100	0.103	0.102	0.0934	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD01220	Arsenic, Dissolved	mg/L	0.0000011	0.000176	0.100	0.0926	0.0920	0.0935	0.0850 to 0.115	92.6	70.0 to 130	0.650	20.0
BD01220	Arsenic, Total	mg/L	0.0000062	0.000176	0.100	0.0932	0.0941	0.0930	0.0850 to 0.115	93.1	70.0 to 130	0.961	20.0
BD01220	Barium, Dissolved	mg/L	0.0000176	0.00100	0.100	0.0983	0.0988	0.0948	0.0850 to 0.115	88.1	70.0 to 130	0.507	20.0
BD01220	Barium, Total	mg/L	-0.0000001	0.00100	0.100	0.104	0.106	0.0918	0.0850 to 0.115	93.4	70.0 to 130	1.90	20.0
BD01220	Beryllium, Dissolved	mg/L	0.0000000	0.000880	0.100	0.0941	0.0932	0.0952	0.0850 to 0.115	94.1	70.0 to 130	0.961	20.0
BD01220	Beryllium, Total	mg/L	0.0000000	0.000880	0.100	0.0955	0.0980	0.0949	0.0850 to 0.115	95.5	70.0 to 130	2.58	20.0
BD01220	Boron, Dissolved	mg/L	0.00249	0.0650	1.00	1.05	1.06	0.998	0.850 to 1.15	98.9	70.0 to 130	0.948	20.0
BD01220	Boron, Total	mg/L	0.00195	0.0650	1.00	1.06	1.06	0.983	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BD01220	Cadmium, Dissolved	mg/L	-0.0000069	0.000147	0.100	0.0935	0.0908	0.0950	0.0850 to 0.115	93.5	70.0 to 130	2.93	20.0
BD01220	Cadmium, Total	mg/L	-0.0000069	0.000147	0.100	0.0915	0.0908	0.0920	0.0850 to 0.115	91.5	70.0 to 130	0.768	20.0
BD01220	Calcium, Dissolved	mg/L	-0.00432	0.152	5.00	18.2	18.1	5.15	4.25 to 5.75	100	70.0 to 130	0.551	20.0
BD01220	Calcium, Total	mg/L	-0.00327	0.152	5.00	18.7	18.7	5.14	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BD01220	Chloride	mg/L	-0.0232	1.00	10.0	24.9	25.6	10.7	9.00 to 11.0	103	80.0 to 120	2.77	20.0
BD01220	Chromium, Dissolved	mg/L	0.0000328	0.000440	0.100	0.0948	0.0937	0.0962	0.0850 to 0.115	94.8	70.0 to 130	1.17	20.0
BD01220	Chromium, Total	mg/L	0.0000316	0.000440	0.100	0.0953	0.0953	0.0946	0.0850 to 0.115	95.3	70.0 to 130	0.00	20.0
BD01220	Cobalt, Dissolved	mg/L	0.0000003	0.000147	0.100	0.101	0.0989	0.100	0.0850 to 0.115	98.6	70.0 to 130	2.10	20.0
BD01220	Cobalt, Total	mg/L	-0.0000025	0.000147	0.100	0.100	0.100	0.0978	0.0850 to 0.115	97.6	70.0 to 130	0.00	20.0
BD01220	Fluoride	mg/L	0.0307	0.125	2.50	2.47	2.54	2.49	2.25 to 2.75	98.8	80.0 to 120	2.79	20.0
BD01220	Iron, Dissolved	mg/L	-0.000588	0.0176	0.2	0.227	0.229	0.211	0.170 to 0.230	102	70.0 to 130	0.877	20.0
BD01220	Iron, Total	mg/L	-0.000137	0.0176	0.2	0.225	0.224	0.203	0.170 to 0.230	103	70.0 to 130	0.445	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/18/23 09:15  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-6

**Laboratory ID Number:** BD01213

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD01220	Lead, Dissolved	mg/L	0.0000120	0.000147	0.100	0.0981	0.0974	0.103	0.0850 to 0.115	98.1	70.0 to 130	0.716	20.0
BD01220	Lead, Total	mg/L	0.0000031	0.000147	0.100	0.0984	0.0974	0.0965	0.0850 to 0.115	98.4	70.0 to 130	1.02	20.0
BD01220	Lithium, Dissolved	mg/L	4.150E-05	0.0154	0.200	0.201	0.203	0.199	0.170 to 0.230	100	70.0 to 130	0.990	20.0
BD01220	Lithium, Total	mg/L	-7.200E-05	0.0154	0.200	0.202	0.200	0.194	0.170 to 0.230	101	70.0 to 130	0.995	20.0
BD01220	Magnesium, Dissolved	mg/L	-0.00595	0.0462	5.00	7.33	7.35	5.16	4.25 to 5.75	101	70.0 to 130	0.272	20.0
BD01220	Magnesium, Total	mg/L	-0.00486	0.0462	5.00	7.45	7.49	5.12	4.25 to 5.75	101	70.0 to 130	0.535	20.0
BD01220	Manganese, Dissolved	mg/L	0.0000386	0.00033	0.100	0.372	0.367	0.0979	0.0850 to 0.115	92.0	70.0 to 130	1.35	20.0
BD01220	Manganese, Total	mg/L	0.0000265	0.00033	0.100	0.376	0.372	0.0962	0.0850 to 0.115	94.0	70.0 to 130	1.07	20.0
BD01220	Mercury, Total by CVAA	mg/L	-1.000E-05	0.000500	0.004	0.00392	0.00392	0.0039	0.00340 to 0.00460	98.0	70.0 to 130	0.00	20.0
BD01220	Molybdenum, Dissolved	mg/L	0.0000085	0.0002	0.100	0.0964	0.0960	0.0964	0.0850 to 0.115	95.5	70.0 to 130	0.416	20.0
BD01220	Molybdenum, Total	mg/L	0.0000152	0.0002	0.100	0.0954	0.0940	0.0948	0.0850 to 0.115	95.4	70.0 to 130	1.48	20.0
BD01220	Potassium, Dissolved	mg/L	0.0104	0.367	10.0	9.56	9.57	9.58	8.50 to 11.5	93.2	70.0 to 130	0.105	20.0
BD01220	Potassium, Total	mg/L	0.0110	0.367	10.0	9.84	9.70	9.43	8.50 to 11.5	95.9	70.0 to 130	1.43	20.0
BD01220	Selenium, Dissolved	mg/L	0.0000656	0.00100	0.100	0.0945	0.0946	0.0954	0.0850 to 0.115	94.5	70.0 to 130	0.106	20.0
BD01220	Selenium, Total	mg/L	0.0000430	0.00100	0.100	0.0952	0.0927	0.0931	0.0850 to 0.115	95.2	70.0 to 130	2.66	20.0
BD01220	Silicon, Dissolved	mg/L	0.00157	0.0440	1.00	4.73	4.71	1.06	0.850 to 1.15	106	70.0 to 130	0.424	20.0
BD01220	Silicon, Total	mg/L	6.140E-05	0.0440	1.00	4.66	4.65	1.03	0.850 to 1.15	100	70.0 to 130	0.215	20.0
BD01220	Sodium, Dissolved	mg/L	-6.280E-05	0.0660	5.00	11.2	11.2	5.11	4.25 to 5.75	107	70.0 to 130	0.00	20.0
BD01220	Sodium, Total	mg/L	0.00647	0.0660	5.00	10.8	10.7	4.93	4.25 to 5.75	103	70.0 to 130	0.930	20.0
BD01220	Sulfate	mg/L	0.0479	2.0	20.0	22.8	23.0	19.8	18.0 to 22.0	99.2	80.0 to 120	0.873	20.0
BD01220	Thallium, Dissolved	mg/L	0.0000089	0.000147	0.100	0.102	0.103	0.106	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD01220	Thallium, Total	mg/L	0.0000042	0.000147	0.100	0.100	0.101	0.0989	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD01220	Total Organic Carbon	mg/L	-0.0342	1.00	10.0	11.3	11.5	10.9		113	80.0 to 120	1.75	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/18/23 09:15  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-6

**Laboratory ID Number:** BD01213

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01228	Alkalinity to pH 4.5	mg CaCO3/L					254	50.8	45.0 to 55.0			1.59	10.0
BD01220	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.08	0.002	1.89	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD01219	Solids, Dissolved	mg/L	1.00	25.0			270	50.0	40.0 to 60.0			1.49	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-8

**Location Code:** WMWGASG  
**Collected:** 1/18/23 10:06  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01214

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	1/20/23 11:10	1/23/23 12:55		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	1/20/23 11:10	1/23/23 14:59		10.15	53.8	mg/L	0.70035	4.06	
* Iron, Total	1/20/23 11:10	1/23/23 12:55		1.015	0.417	mg/L	0.008120	0.0406	
* Lithium, Total	1/20/23 11:10	1/23/23 12:55		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	1/20/23 11:10	1/23/23 12:55		1.015	10.9	mg/L	0.021315	0.406	
* Silica, Total (calc.)	1/20/23 11:10	1/23/23 12:55		1	8.80	mg/L			
* Silicon, Total	1/20/23 11:10	1/23/23 12:55		1.015	4.11	mg/L	0.02030	0.25375	
* Sodium, Total	1/20/23 11:10	1/23/23 12:55		1.015	1.38	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	1/20/23 08:03	1/26/23 11:57		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	1/20/23 08:03	1/27/23 12:15		10.15	54.6	mg/L	0.70035	4.06	
* Iron, Dissolved	1/20/23 08:03	1/26/23 11:57		1.015	0.351	mg/L	0.008120	0.0406	
* Lithium, Dissolved	1/20/23 08:03	1/26/23 11:57		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	1/20/23 08:03	1/26/23 11:57		1.015	10.8	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	1/20/23 08:03	1/26/23 11:57		1	8.84	mg/L			
* Silicon, Dissolved	1/20/23 08:03	1/26/23 11:57		1.015	4.13	mg/L	0.02030	0.25375	
* Sodium, Dissolved	1/20/23 08:03	1/26/23 11:57		1.015	1.39	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	1/20/23 11:10	1/20/23 14:18		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	1/20/23 11:10	1/20/23 14:18		1.015	0.0135	mg/L	0.006090	0.05075	J
* Arsenic, Total	1/20/23 11:10	1/20/23 14:18		1.015	0.00111	mg/L	0.000081	0.000203	
* Barium, Total	1/20/23 11:10	1/20/23 14:18		1.015	0.0257	mg/L	0.000508	0.001015	
* Beryllium, Total	1/20/23 11:10	1/20/23 14:18		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	1/20/23 11:10	1/20/23 14:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	1/20/23 11:10	1/20/23 14:18		1.015	0.000358	mg/L	0.000203	0.001015	J
* Cobalt, Total	1/20/23 11:10	1/20/23 14:18		1.015	0.000170	mg/L	0.000068	0.000203	J
* Lead, Total	1/20/23 11:10	1/20/23 14:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	1/20/23 11:10	1/20/23 14:18		1.015	0.123	mg/L	0.000152	0.001015	
* Molybdenum, Total	1/20/23 11:10	1/20/23 14:18		1.015	0.00321	mg/L	0.000102	0.000203	
* Potassium, Total	1/20/23 11:10	1/20/23 14:18		1.015	1.46	mg/L	0.169505	0.5075	

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-8

**Location Code:** WMWGASG  
**Collected:** 1/18/23 10:06  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01214

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	1/20/23 11:10	1/20/23 14:18		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/20/23 11:10	1/20/23 14:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	1/20/23 08:03	1/20/23 11:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	1/20/23 08:03	1/20/23 11:33		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	1/20/23 08:03	1/20/23 11:33		1.015	0.000964	mg/L	0.000081	0.000203	
* Barium, Dissolved	1/20/23 08:03	1/20/23 11:33		1.015	0.0236	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	1/20/23 08:03	1/20/23 11:33		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	1/20/23 08:03	1/20/23 11:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	1/20/23 08:03	1/20/23 11:33		1.015	0.000283	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	1/20/23 08:03	1/20/23 11:33		1.015	0.000113	mg/L	0.000068	0.000203	J
* Lead, Dissolved	1/20/23 08:03	1/20/23 11:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	1/20/23 08:03	1/20/23 11:33		1.015	0.0959	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	1/20/23 08:03	1/20/23 11:33		1.015	0.00316	mg/L	0.000102	0.000203	
* Potassium, Dissolved	1/20/23 08:03	1/20/23 11:33		1.015	1.30	mg/L	0.169505	0.5075	
* Selenium, Dissolved	1/20/23 08:03	1/20/23 11:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	1/20/23 08:03	1/20/23 11:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	1/23/23 12:59	1/23/23 17:08		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	1/20/23 10:24	1/20/23 10:24		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
* Alkalinity to pH 4.5	1/27/23 12:42	1/27/23 15:58		1	167	mg CaCO3/L			
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	1/20/23 10:18	1/23/23 13:50		1	172	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	1/27/23 12:42	1/27/23 15:58		1	165	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	1/27/23 12:42	1/27/23 15:58		1	1.82	mg CaCO3/L			
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	1/20/23 11:17	1/20/23 11:17		1	Not Detected	mg/L	1.00	2	U

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-8

**Location Code:** WMWGASG  
**Collected:** 1/18/23 10:06  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01214

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	1/20/23 09:05	1/20/23 09:05		1	1.71	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	1/20/23 10:55	1/20/23 10:55		1	0.105	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	1/24/23 10:25	1/24/23 10:25		1	3.71	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	1/18/23 10:04	1/18/23 10:04			306.64	uS/cm			FA
pH	1/18/23 10:04	1/18/23 10:04			7.54	SU			FA
Temperature	1/18/23 10:04	1/18/23 10:04			19.74	C			FA
Turbidity	1/18/23 10:04	1/18/23 10:04			3.02	NTU			FA
Sulfide	1/18/23 10:04	1/18/23 10:04			0	mg/L			FA

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/18/23 10:06  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-8

**Laboratory ID Number:** BD01214

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BD01220	Aluminum, Dissolved	mg/L	0.0000964	0.0132	0.100	0.0975	0.0967	0.0936	0.0850 to 0.115	97.5	70.0 to 130	0.824	20.0
BD01220	Aluminum, Total	mg/L	0.000698	0.0132	0.100	0.104	0.106	0.0945	0.0850 to 0.115	95.8	70.0 to 130	1.90	20.0
BD01220	Antimony, Dissolved	mg/L	0.000485	0.00100	0.100	0.0953	0.0959	0.0907	0.0850 to 0.115	95.3	70.0 to 130	0.628	20.0
BD01220	Antimony, Total	mg/L	0.000562	0.00100	0.100	0.103	0.102	0.0934	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD01220	Arsenic, Dissolved	mg/L	0.0000011	0.000176	0.100	0.0926	0.0920	0.0935	0.0850 to 0.115	92.6	70.0 to 130	0.650	20.0
BD01220	Arsenic, Total	mg/L	0.0000062	0.000176	0.100	0.0932	0.0941	0.0930	0.0850 to 0.115	93.1	70.0 to 130	0.961	20.0
BD01220	Barium, Dissolved	mg/L	0.0000176	0.00100	0.100	0.0983	0.0988	0.0948	0.0850 to 0.115	88.1	70.0 to 130	0.507	20.0
BD01220	Barium, Total	mg/L	-0.0000001	0.00100	0.100	0.104	0.106	0.0918	0.0850 to 0.115	93.4	70.0 to 130	1.90	20.0
BD01220	Beryllium, Dissolved	mg/L	0.0000000	0.000880	0.100	0.0941	0.0932	0.0952	0.0850 to 0.115	94.1	70.0 to 130	0.961	20.0
BD01220	Beryllium, Total	mg/L	0.0000000	0.000880	0.100	0.0955	0.0980	0.0949	0.0850 to 0.115	95.5	70.0 to 130	2.58	20.0
BD01220	Boron, Dissolved	mg/L	0.00249	0.0650	1.00	1.05	1.06	0.998	0.850 to 1.15	98.9	70.0 to 130	0.948	20.0
BD01220	Boron, Total	mg/L	0.00195	0.0650	1.00	1.06	1.06	0.983	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BD01220	Cadmium, Dissolved	mg/L	-0.0000069	0.000147	0.100	0.0935	0.0908	0.0950	0.0850 to 0.115	93.5	70.0 to 130	2.93	20.0
BD01220	Cadmium, Total	mg/L	-0.0000069	0.000147	0.100	0.0915	0.0908	0.0920	0.0850 to 0.115	91.5	70.0 to 130	0.768	20.0
BD01220	Calcium, Dissolved	mg/L	-0.00432	0.152	5.00	18.2	18.1	5.15	4.25 to 5.75	100	70.0 to 130	0.551	20.0
BD01220	Calcium, Total	mg/L	-0.00327	0.152	5.00	18.7	18.7	5.14	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BD01220	Chloride	mg/L	-0.0232	1.00	10.0	24.9	25.6	10.7	9.00 to 11.0	103	80.0 to 120	2.77	20.0
BD01220	Chromium, Dissolved	mg/L	0.0000328	0.000440	0.100	0.0948	0.0937	0.0962	0.0850 to 0.115	94.8	70.0 to 130	1.17	20.0
BD01220	Chromium, Total	mg/L	0.0000316	0.000440	0.100	0.0953	0.0953	0.0946	0.0850 to 0.115	95.3	70.0 to 130	0.00	20.0
BD01220	Cobalt, Dissolved	mg/L	0.0000003	0.000147	0.100	0.101	0.0989	0.100	0.0850 to 0.115	98.6	70.0 to 130	2.10	20.0
BD01220	Cobalt, Total	mg/L	-0.0000025	0.000147	0.100	0.100	0.100	0.0978	0.0850 to 0.115	97.6	70.0 to 130	0.00	20.0
BD01220	Fluoride	mg/L	0.0307	0.125	2.50	2.47	2.54	2.49	2.25 to 2.75	98.8	80.0 to 120	2.79	20.0
BD01220	Iron, Dissolved	mg/L	-0.000588	0.0176	0.2	0.227	0.229	0.211	0.170 to 0.230	102	70.0 to 130	0.877	20.0
BD01220	Iron, Total	mg/L	-0.000137	0.0176	0.2	0.225	0.224	0.203	0.170 to 0.230	103	70.0 to 130	0.445	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/18/23 10:06  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-8

**Laboratory ID Number:** BD01214

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD01220	Lead, Dissolved	mg/L	0.0000120	0.000147	0.100	0.0981	0.0974	0.103	0.0850 to 0.115	98.1	70.0 to 130	0.716	20.0
BD01220	Lead, Total	mg/L	0.0000031	0.000147	0.100	0.0984	0.0974	0.0965	0.0850 to 0.115	98.4	70.0 to 130	1.02	20.0
BD01220	Lithium, Dissolved	mg/L	4.150E-05	0.0154	0.200	0.201	0.203	0.199	0.170 to 0.230	100	70.0 to 130	0.990	20.0
BD01220	Lithium, Total	mg/L	-7.200E-05	0.0154	0.200	0.202	0.200	0.194	0.170 to 0.230	101	70.0 to 130	0.995	20.0
BD01220	Magnesium, Dissolved	mg/L	-0.00595	0.0462	5.00	7.33	7.35	5.16	4.25 to 5.75	101	70.0 to 130	0.272	20.0
BD01220	Magnesium, Total	mg/L	-0.00486	0.0462	5.00	7.45	7.49	5.12	4.25 to 5.75	101	70.0 to 130	0.535	20.0
BD01220	Manganese, Dissolved	mg/L	0.0000386	0.00033	0.100	0.372	0.367	0.0979	0.0850 to 0.115	92.0	70.0 to 130	1.35	20.0
BD01220	Manganese, Total	mg/L	0.0000265	0.00033	0.100	0.376	0.372	0.0962	0.0850 to 0.115	94.0	70.0 to 130	1.07	20.0
BD01220	Mercury, Total by CVAA	mg/L	-1.000E-05	0.000500	0.004	0.00392	0.00392	0.0039	0.00340 to 0.00460	98.0	70.0 to 130	0.00	20.0
BD01220	Molybdenum, Dissolved	mg/L	0.0000085	0.0002	0.100	0.0964	0.0960	0.0964	0.0850 to 0.115	95.5	70.0 to 130	0.416	20.0
BD01220	Molybdenum, Total	mg/L	0.0000152	0.0002	0.100	0.0954	0.0940	0.0948	0.0850 to 0.115	95.4	70.0 to 130	1.48	20.0
BD01220	Potassium, Dissolved	mg/L	0.0104	0.367	10.0	9.56	9.57	9.58	8.50 to 11.5	93.2	70.0 to 130	0.105	20.0
BD01220	Potassium, Total	mg/L	0.0110	0.367	10.0	9.84	9.70	9.43	8.50 to 11.5	95.9	70.0 to 130	1.43	20.0
BD01220	Selenium, Dissolved	mg/L	0.0000656	0.00100	0.100	0.0945	0.0946	0.0954	0.0850 to 0.115	94.5	70.0 to 130	0.106	20.0
BD01220	Selenium, Total	mg/L	0.0000430	0.00100	0.100	0.0952	0.0927	0.0931	0.0850 to 0.115	95.2	70.0 to 130	2.66	20.0
BD01220	Silicon, Dissolved	mg/L	0.00157	0.0440	1.00	4.73	4.71	1.06	0.850 to 1.15	106	70.0 to 130	0.424	20.0
BD01220	Silicon, Total	mg/L	6.140E-05	0.0440	1.00	4.66	4.65	1.03	0.850 to 1.15	100	70.0 to 130	0.215	20.0
BD01220	Sodium, Dissolved	mg/L	-6.280E-05	0.0660	5.00	11.2	11.2	5.11	4.25 to 5.75	107	70.0 to 130	0.00	20.0
BD01220	Sodium, Total	mg/L	0.00647	0.0660	5.00	10.8	10.7	4.93	4.25 to 5.75	103	70.0 to 130	0.930	20.0
BD01220	Sulfate	mg/L	0.0479	2.0	20.0	22.8	23.0	19.8	18.0 to 22.0	99.2	80.0 to 120	0.873	20.0
BD01220	Thallium, Dissolved	mg/L	0.0000089	0.000147	0.100	0.102	0.103	0.106	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD01220	Thallium, Total	mg/L	0.0000042	0.000147	0.100	0.100	0.101	0.0989	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD01220	Total Organic Carbon	mg/L	-0.0342	1.00	10.0	11.3	11.5	10.9		113	80.0 to 120	1.75	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/18/23 10:06  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-8

**Laboratory ID Number:** BD01214

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01228	Alkalinity to pH 4.5	mg CaCO3/L					254	50.8	45.0 to 55.0			1.59	10.0
BD01220	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.08	0.002	1.89	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD01219	Solids, Dissolved	mg/L	1.00	25.0			270	50.0	40.0 to 60.0			1.49	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-9

**Location Code:** WMWGASG  
**Collected:** 1/18/23 11:15  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01215

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	1/20/23 11:10	1/23/23 12:59		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	1/20/23 11:10	1/23/23 15:02		10.15	48.8	mg/L	0.70035	4.06	
* Iron, Total	1/20/23 11:10	1/23/23 12:59		1.015	0.0453	mg/L	0.008120	0.0406	
* Lithium, Total	1/20/23 11:10	1/23/23 12:59		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	1/20/23 11:10	1/23/23 12:59		1.015	6.12	mg/L	0.021315	0.406	
* Silica, Total (calc.)	1/20/23 11:10	1/23/23 12:59		1	9.97	mg/L			
* Silicon, Total	1/20/23 11:10	1/23/23 12:59		1.015	4.66	mg/L	0.02030	0.25375	
* Sodium, Total	1/20/23 11:10	1/23/23 12:59		1.015	2.86	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	1/20/23 08:03	1/26/23 12:00		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	1/20/23 08:03	1/27/23 12:19		10.15	48.6	mg/L	0.70035	4.06	
* Iron, Dissolved	1/20/23 08:03	1/26/23 12:00		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	1/20/23 08:03	1/26/23 12:00		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	1/20/23 08:03	1/26/23 12:00		1.015	6.19	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	1/20/23 08:03	1/26/23 12:00		1	10.1	mg/L			
* Silicon, Dissolved	1/20/23 08:03	1/26/23 12:00		1.015	4.70	mg/L	0.02030	0.25375	
* Sodium, Dissolved	1/20/23 08:03	1/26/23 12:00		1.015	2.91	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	1/20/23 11:10	1/20/23 14:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	1/20/23 11:10	1/20/23 14:22		1.015	0.0130	mg/L	0.006090	0.05075	J
* Arsenic, Total	1/20/23 11:10	1/20/23 14:22		1.015	0.000121	mg/L	0.000081	0.000203	J
* Barium, Total	1/20/23 11:10	1/20/23 14:22		1.015	0.0217	mg/L	0.000508	0.001015	
* Beryllium, Total	1/20/23 11:10	1/20/23 14:22		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	1/20/23 11:10	1/20/23 14:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	1/20/23 11:10	1/20/23 14:22		1.015	0.000219	mg/L	0.000203	0.001015	J
* Cobalt, Total	1/20/23 11:10	1/20/23 14:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	1/20/23 11:10	1/20/23 14:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	1/20/23 11:10	1/20/23 14:22		1.015	0.0106	mg/L	0.000152	0.001015	
* Molybdenum, Total	1/20/23 11:10	1/20/23 14:22		1.015	0.000232	mg/L	0.000102	0.000203	
* Potassium, Total	1/20/23 11:10	1/20/23 14:22		1.015	0.737	mg/L	0.169505	0.5075	

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-9

**Location Code:** WMWGASG  
**Collected:** 1/18/23 11:15  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01215

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	1/20/23 11:10	1/20/23 14:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/20/23 11:10	1/20/23 14:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	1/20/23 08:03	1/20/23 11:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	1/20/23 08:03	1/20/23 11:37		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	1/20/23 08:03	1/20/23 11:37		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	1/20/23 08:03	1/20/23 11:37		1.015	0.0194	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	1/20/23 08:03	1/20/23 11:37		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	1/20/23 08:03	1/20/23 11:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	1/20/23 08:03	1/20/23 11:37		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	1/20/23 08:03	1/20/23 11:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	1/20/23 08:03	1/20/23 11:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	1/20/23 08:03	1/20/23 11:37		1.015	0.0112	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	1/20/23 08:03	1/20/23 11:37		1.015	0.000298	mg/L	0.000102	0.000203	
* Potassium, Dissolved	1/20/23 08:03	1/20/23 11:37		1.015	0.697	mg/L	0.169505	0.5075	
* Selenium, Dissolved	1/20/23 08:03	1/20/23 11:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	1/20/23 08:03	1/20/23 11:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	1/23/23 12:59	1/23/23 17:12		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	1/20/23 10:25	1/20/23 10:25		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
* Alkalinity to pH 4.5	1/27/23 12:42	1/27/23 15:58		1	134	mg CaCO3/L			
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	1/20/23 10:18	1/23/23 13:50		1	152	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	1/27/23 12:42	1/27/23 15:58		1	134	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	1/27/23 12:42	1/27/23 15:58		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	1/20/23 11:32	1/20/23 11:32		1	Not Detected	mg/L	1.00	2	U

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-9

**Location Code:** WMWGASG  
**Collected:** 1/18/23 11:15  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01215

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	1/20/23 09:06	1/20/23 09:06		1	2.01	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	1/20/23 10:56	1/20/23 10:56		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	1/24/23 10:27	1/24/23 10:27		1	3.93	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	1/18/23 11:12	1/18/23 11:12			256.24	uS/cm			FA
pH	1/18/23 11:12	1/18/23 11:12			6.71	SU			FA
Temperature	1/18/23 11:12	1/18/23 11:12			19.57	C			FA
Turbidity	1/18/23 11:12	1/18/23 11:12			2.2	NTU			FA
Sulfide	1/18/23 11:12	1/18/23 11:12			0	mg/L			FA

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/18/23 11:15  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-9

**Laboratory ID Number:** BD01215

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec
				Limit					Standard	Limit	Rec	Limit	
BD01220	Aluminum, Dissolved	mg/L	0.0000964	0.0132	0.100	0.0975	0.0967	0.0936	0.0850 to 0.115	97.5	70.0 to 130	0.824	20.0
BD01220	Aluminum, Total	mg/L	0.000698	0.0132	0.100	0.104	0.106	0.0945	0.0850 to 0.115	95.8	70.0 to 130	1.90	20.0
BD01220	Antimony, Dissolved	mg/L	0.000485	0.00100	0.100	0.0953	0.0959	0.0907	0.0850 to 0.115	95.3	70.0 to 130	0.628	20.0
BD01220	Antimony, Total	mg/L	0.000562	0.00100	0.100	0.103	0.102	0.0934	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD01220	Arsenic, Dissolved	mg/L	0.0000011	0.000176	0.100	0.0926	0.0920	0.0935	0.0850 to 0.115	92.6	70.0 to 130	0.650	20.0
BD01220	Arsenic, Total	mg/L	0.0000062	0.000176	0.100	0.0932	0.0941	0.0930	0.0850 to 0.115	93.1	70.0 to 130	0.961	20.0
BD01220	Barium, Dissolved	mg/L	0.0000176	0.00100	0.100	0.0983	0.0988	0.0948	0.0850 to 0.115	88.1	70.0 to 130	0.507	20.0
BD01220	Barium, Total	mg/L	-0.0000001	0.00100	0.100	0.104	0.106	0.0918	0.0850 to 0.115	93.4	70.0 to 130	1.90	20.0
BD01220	Beryllium, Dissolved	mg/L	0.0000000	0.000880	0.100	0.0941	0.0932	0.0952	0.0850 to 0.115	94.1	70.0 to 130	0.961	20.0
BD01220	Beryllium, Total	mg/L	0.0000000	0.000880	0.100	0.0955	0.0980	0.0949	0.0850 to 0.115	95.5	70.0 to 130	2.58	20.0
BD01220	Boron, Dissolved	mg/L	0.00249	0.0650	1.00	1.05	1.06	0.998	0.850 to 1.15	98.9	70.0 to 130	0.948	20.0
BD01220	Boron, Total	mg/L	0.00195	0.0650	1.00	1.06	1.06	0.983	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BD01220	Cadmium, Dissolved	mg/L	-0.0000069	0.000147	0.100	0.0935	0.0908	0.0950	0.0850 to 0.115	93.5	70.0 to 130	2.93	20.0
BD01220	Cadmium, Total	mg/L	-0.0000069	0.000147	0.100	0.0915	0.0908	0.0920	0.0850 to 0.115	91.5	70.0 to 130	0.768	20.0
BD01220	Calcium, Dissolved	mg/L	-0.00432	0.152	5.00	18.2	18.1	5.15	4.25 to 5.75	100	70.0 to 130	0.551	20.0
BD01220	Calcium, Total	mg/L	-0.00327	0.152	5.00	18.7	18.7	5.14	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BD01220	Chloride	mg/L	-0.0232	1.00	10.0	24.9	25.6	10.7	9.00 to 11.0	103	80.0 to 120	2.77	20.0
BD01220	Chromium, Dissolved	mg/L	0.0000328	0.000440	0.100	0.0948	0.0937	0.0962	0.0850 to 0.115	94.8	70.0 to 130	1.17	20.0
BD01220	Chromium, Total	mg/L	0.0000316	0.000440	0.100	0.0953	0.0953	0.0946	0.0850 to 0.115	95.3	70.0 to 130	0.00	20.0
BD01220	Cobalt, Dissolved	mg/L	0.0000003	0.000147	0.100	0.101	0.0989	0.100	0.0850 to 0.115	98.6	70.0 to 130	2.10	20.0
BD01220	Cobalt, Total	mg/L	-0.0000025	0.000147	0.100	0.100	0.100	0.0978	0.0850 to 0.115	97.6	70.0 to 130	0.00	20.0
BD01220	Fluoride	mg/L	0.0307	0.125	2.50	2.47	2.54	2.49	2.25 to 2.75	98.8	80.0 to 120	2.79	20.0
BD01220	Iron, Dissolved	mg/L	-0.000588	0.0176	0.2	0.227	0.229	0.211	0.170 to 0.230	102	70.0 to 130	0.877	20.0
BD01220	Iron, Total	mg/L	-0.000137	0.0176	0.2	0.225	0.224	0.203	0.170 to 0.230	103	70.0 to 130	0.445	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/18/23 11:15  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-9

**Laboratory ID Number:** BD01215

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD01220	Lead, Dissolved	mg/L	0.0000120	0.000147	0.100	0.0981	0.0974	0.103	0.0850 to 0.115	98.1	70.0 to 130	0.716	20.0
BD01220	Lead, Total	mg/L	0.0000031	0.000147	0.100	0.0984	0.0974	0.0965	0.0850 to 0.115	98.4	70.0 to 130	1.02	20.0
BD01220	Lithium, Dissolved	mg/L	4.150E-05	0.0154	0.200	0.201	0.203	0.199	0.170 to 0.230	100	70.0 to 130	0.990	20.0
BD01220	Lithium, Total	mg/L	-7.200E-05	0.0154	0.200	0.202	0.200	0.194	0.170 to 0.230	101	70.0 to 130	0.995	20.0
BD01220	Magnesium, Dissolved	mg/L	-0.00595	0.0462	5.00	7.33	7.35	5.16	4.25 to 5.75	101	70.0 to 130	0.272	20.0
BD01220	Magnesium, Total	mg/L	-0.00486	0.0462	5.00	7.45	7.49	5.12	4.25 to 5.75	101	70.0 to 130	0.535	20.0
BD01220	Manganese, Dissolved	mg/L	0.0000386	0.00033	0.100	0.372	0.367	0.0979	0.0850 to 0.115	92.0	70.0 to 130	1.35	20.0
BD01220	Manganese, Total	mg/L	0.0000265	0.00033	0.100	0.376	0.372	0.0962	0.0850 to 0.115	94.0	70.0 to 130	1.07	20.0
BD01220	Mercury, Total by CVAA	mg/L	-1.000E-05	0.000500	0.004	0.00392	0.00392	0.0039	0.00340 to 0.00460	98.0	70.0 to 130	0.00	20.0
BD01220	Molybdenum, Dissolved	mg/L	0.0000085	0.0002	0.100	0.0964	0.0960	0.0964	0.0850 to 0.115	95.5	70.0 to 130	0.416	20.0
BD01220	Molybdenum, Total	mg/L	0.0000152	0.0002	0.100	0.0954	0.0940	0.0948	0.0850 to 0.115	95.4	70.0 to 130	1.48	20.0
BD01220	Potassium, Dissolved	mg/L	0.0104	0.367	10.0	9.56	9.57	9.58	8.50 to 11.5	93.2	70.0 to 130	0.105	20.0
BD01220	Potassium, Total	mg/L	0.0110	0.367	10.0	9.84	9.70	9.43	8.50 to 11.5	95.9	70.0 to 130	1.43	20.0
BD01220	Selenium, Dissolved	mg/L	0.0000656	0.00100	0.100	0.0945	0.0946	0.0954	0.0850 to 0.115	94.5	70.0 to 130	0.106	20.0
BD01220	Selenium, Total	mg/L	0.0000430	0.00100	0.100	0.0952	0.0927	0.0931	0.0850 to 0.115	95.2	70.0 to 130	2.66	20.0
BD01220	Silicon, Dissolved	mg/L	0.00157	0.0440	1.00	4.73	4.71	1.06	0.850 to 1.15	106	70.0 to 130	0.424	20.0
BD01220	Silicon, Total	mg/L	6.140E-05	0.0440	1.00	4.66	4.65	1.03	0.850 to 1.15	100	70.0 to 130	0.215	20.0
BD01220	Sodium, Dissolved	mg/L	-6.280E-05	0.0660	5.00	11.2	11.2	5.11	4.25 to 5.75	107	70.0 to 130	0.00	20.0
BD01220	Sodium, Total	mg/L	0.00647	0.0660	5.00	10.8	10.7	4.93	4.25 to 5.75	103	70.0 to 130	0.930	20.0
BD01220	Sulfate	mg/L	0.0479	2.0	20.0	22.8	23.0	19.8	18.0 to 22.0	99.2	80.0 to 120	0.873	20.0
BD01220	Thallium, Dissolved	mg/L	0.0000089	0.000147	0.100	0.102	0.103	0.106	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD01220	Thallium, Total	mg/L	0.0000042	0.000147	0.100	0.100	0.101	0.0989	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD01220	Total Organic Carbon	mg/L	-0.0342	1.00	10.0	11.3	11.5	10.9		113	80.0 to 120	1.75	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/18/23 11:15  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-9

**Laboratory ID Number:** BD01215

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01228	Alkalinity to pH 4.5	mg CaCO3/L					254	50.8	45.0 to 55.0			1.59	10.0
BD01220	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.08	0.002	1.89	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD01219	Solids, Dissolved	mg/L	1.00	25.0			270	50.0	40.0 to 60.0			1.49	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-7

**Location Code:** WMWGASG  
**Collected:** 1/17/23 14:10  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01216

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	1/20/23 11:10	1/23/23 13:02		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	1/20/23 11:10	1/23/23 15:06		10.15	66.8	mg/L	0.70035	4.06	
* Iron, Total	1/20/23 11:10	1/23/23 13:02		1.015	0.143	mg/L	0.008120	0.0406	
* Lithium, Total	1/20/23 11:10	1/23/23 13:02		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	1/20/23 11:10	1/23/23 13:02		1.015	9.29	mg/L	0.021315	0.406	
* Silica, Total (calc.)	1/20/23 11:10	1/23/23 13:02		1	7.51	mg/L			
* Silicon, Total	1/20/23 11:10	1/23/23 13:02		1.015	3.51	mg/L	0.02030	0.25375	
* Sodium, Total	1/20/23 11:10	1/23/23 13:02		1.015	5.71	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	1/20/23 08:03	1/26/23 12:04		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	1/20/23 08:03	1/27/23 12:22		10.15	67.9	mg/L	0.70035	4.06	
* Iron, Dissolved	1/20/23 08:03	1/26/23 12:04		1.015	0.145	mg/L	0.008120	0.0406	
* Lithium, Dissolved	1/20/23 08:03	1/26/23 12:04		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	1/20/23 08:03	1/26/23 12:04		1.015	8.85	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	1/20/23 08:03	1/26/23 12:04		1	7.75	mg/L			
* Silicon, Dissolved	1/20/23 08:03	1/26/23 12:04		1.015	3.62	mg/L	0.02030	0.25375	
* Sodium, Dissolved	1/20/23 08:03	1/26/23 12:04		1.015	6.37	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	1/20/23 11:10	1/20/23 14:25		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	1/20/23 11:10	1/20/23 14:25		1.015	0.00963	mg/L	0.006090	0.05075	J
* Arsenic, Total	1/20/23 11:10	1/20/23 14:25		1.015	0.000711	mg/L	0.000081	0.000203	
* Barium, Total	1/20/23 11:10	1/20/23 14:25		1.015	0.0180	mg/L	0.000508	0.001015	
* Beryllium, Total	1/20/23 11:10	1/20/23 14:25		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	1/20/23 11:10	1/20/23 14:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	1/20/23 11:10	1/20/23 14:25		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	1/20/23 11:10	1/20/23 14:25		1.015	0.00128	mg/L	0.000068	0.000203	
* Lead, Total	1/20/23 11:10	1/20/23 14:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	1/20/23 11:10	1/20/23 14:25		1.015	0.624	mg/L	0.000152	0.001015	
* Molybdenum, Total	1/20/23 11:10	1/20/23 14:25		1.015	0.000328	mg/L	0.000102	0.000203	
* Potassium, Total	1/20/23 11:10	1/20/23 14:25		1.015	0.682	mg/L	0.169505	0.5075	

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-7

**Location Code:** WMWGASG  
**Collected:** 1/17/23 14:10  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01216

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	1/20/23 11:10	1/20/23 14:25		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/20/23 11:10	1/20/23 14:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	1/20/23 08:03	1/20/23 11:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	1/20/23 08:03	1/20/23 11:40		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	1/20/23 08:03	1/20/23 11:40		1.015	0.000737	mg/L	0.000081	0.000203	
* Barium, Dissolved	1/20/23 08:03	1/20/23 11:40		1.015	0.0164	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	1/20/23 08:03	1/20/23 11:40		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	1/20/23 08:03	1/20/23 11:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	1/20/23 08:03	1/20/23 11:40		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	1/20/23 08:03	1/20/23 11:40		1.015	0.00119	mg/L	0.000068	0.000203	
* Lead, Dissolved	1/20/23 08:03	1/20/23 11:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	1/20/23 08:03	1/20/23 11:40		1.015	0.556	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	1/20/23 08:03	1/20/23 11:40		1.015	0.000464	mg/L	0.000102	0.000203	
* Potassium, Dissolved	1/20/23 08:03	1/20/23 11:40		1.015	0.613	mg/L	0.169505	0.5075	
* Selenium, Dissolved	1/20/23 08:03	1/20/23 11:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	1/20/23 08:03	1/20/23 11:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	1/23/23 12:59	1/23/23 17:16		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	1/20/23 10:27	1/20/23 10:27		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
* Alkalinity to pH 4.5	1/27/23 12:42	1/27/23 15:58		1	199	mg CaCO3/L			
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	1/20/23 10:18	1/23/23 13:50		1	218	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	1/27/23 12:42	1/27/23 15:58		1	199	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	1/27/23 12:42	1/27/23 15:58		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	1/20/23 11:49	1/20/23 11:49		1	1.19	mg/L	1.00	2	J

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-7

**Location Code:** WMWGASG  
**Collected:** 1/17/23 14:10  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01216

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	1/20/23 09:07	1/20/23 09:07		1	3.65	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	1/20/23 10:57	1/20/23 10:57		1	0.100	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	1/24/23 10:28	1/24/23 10:28		1	6.10	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	1/17/23 14:06	1/17/23 14:06			425.58	uS/cm			FA
pH	1/17/23 14:06	1/17/23 14:06			6.78	SU			FA
Temperature	1/17/23 14:06	1/17/23 14:06			20.05	C			FA
Turbidity	1/17/23 14:06	1/17/23 14:06			1.43	NTU			FA
Sulfide	1/17/23 14:06	1/17/23 14:06			0	mg/L			FA

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/17/23 14:10  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-7

**Laboratory ID Number:** BD01216

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD01220	Aluminum, Dissolved	mg/L	0.0000964	0.0132	0.100	0.0975	0.0967	0.0936	0.0850 to 0.115	97.5	70.0 to 130	0.824	20.0
BD01220	Aluminum, Total	mg/L	0.000698	0.0132	0.100	0.104	0.106	0.0945	0.0850 to 0.115	95.8	70.0 to 130	1.90	20.0
BD01220	Antimony, Dissolved	mg/L	0.000485	0.00100	0.100	0.0953	0.0959	0.0907	0.0850 to 0.115	95.3	70.0 to 130	0.628	20.0
BD01220	Antimony, Total	mg/L	0.000562	0.00100	0.100	0.103	0.102	0.0934	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD01220	Arsenic, Dissolved	mg/L	0.0000011	0.000176	0.100	0.0926	0.0920	0.0935	0.0850 to 0.115	92.6	70.0 to 130	0.650	20.0
BD01220	Arsenic, Total	mg/L	0.0000062	0.000176	0.100	0.0932	0.0941	0.0930	0.0850 to 0.115	93.1	70.0 to 130	0.961	20.0
BD01220	Barium, Dissolved	mg/L	0.0000176	0.00100	0.100	0.0983	0.0988	0.0948	0.0850 to 0.115	88.1	70.0 to 130	0.507	20.0
BD01220	Barium, Total	mg/L	-0.0000001	0.00100	0.100	0.104	0.106	0.0918	0.0850 to 0.115	93.4	70.0 to 130	1.90	20.0
BD01220	Beryllium, Dissolved	mg/L	0.0000000	0.000880	0.100	0.0941	0.0932	0.0952	0.0850 to 0.115	94.1	70.0 to 130	0.961	20.0
BD01220	Beryllium, Total	mg/L	0.0000000	0.000880	0.100	0.0955	0.0980	0.0949	0.0850 to 0.115	95.5	70.0 to 130	2.58	20.0
BD01220	Boron, Dissolved	mg/L	0.00249	0.0650	1.00	1.05	1.06	0.998	0.850 to 1.15	98.9	70.0 to 130	0.948	20.0
BD01220	Boron, Total	mg/L	0.00195	0.0650	1.00	1.06	1.06	0.983	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BD01220	Cadmium, Dissolved	mg/L	-0.0000069	0.000147	0.100	0.0935	0.0908	0.0950	0.0850 to 0.115	93.5	70.0 to 130	2.93	20.0
BD01220	Cadmium, Total	mg/L	-0.0000069	0.000147	0.100	0.0915	0.0908	0.0920	0.0850 to 0.115	91.5	70.0 to 130	0.768	20.0
BD01220	Calcium, Dissolved	mg/L	-0.00432	0.152	5.00	18.2	18.1	5.15	4.25 to 5.75	100	70.0 to 130	0.551	20.0
BD01220	Calcium, Total	mg/L	-0.00327	0.152	5.00	18.7	18.7	5.14	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BD01220	Chloride	mg/L	-0.0232	1.00	10.0	24.9	25.6	10.7	9.00 to 11.0	103	80.0 to 120	2.77	20.0
BD01220	Chromium, Dissolved	mg/L	0.0000328	0.000440	0.100	0.0948	0.0937	0.0962	0.0850 to 0.115	94.8	70.0 to 130	1.17	20.0
BD01220	Chromium, Total	mg/L	0.0000316	0.000440	0.100	0.0953	0.0953	0.0946	0.0850 to 0.115	95.3	70.0 to 130	0.00	20.0
BD01220	Cobalt, Dissolved	mg/L	0.0000003	0.000147	0.100	0.101	0.0989	0.100	0.0850 to 0.115	98.6	70.0 to 130	2.10	20.0
BD01220	Cobalt, Total	mg/L	-0.0000025	0.000147	0.100	0.100	0.100	0.0978	0.0850 to 0.115	97.6	70.0 to 130	0.00	20.0
BD01220	Fluoride	mg/L	0.0307	0.125	2.50	2.47	2.54	2.49	2.25 to 2.75	98.8	80.0 to 120	2.79	20.0
BD01220	Iron, Dissolved	mg/L	-0.000588	0.0176	0.2	0.227	0.229	0.211	0.170 to 0.230	102	70.0 to 130	0.877	20.0
BD01220	Iron, Total	mg/L	-0.000137	0.0176	0.2	0.225	0.224	0.203	0.170 to 0.230	103	70.0 to 130	0.445	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/17/23 14:10  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-7

**Laboratory ID Number:** BD01216

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD01220	Lead, Dissolved	mg/L	0.0000120	0.000147	0.100	0.0981	0.0974	0.103	0.0850 to 0.115	98.1	70.0 to 130	0.716	20.0
BD01220	Lead, Total	mg/L	0.0000031	0.000147	0.100	0.0984	0.0974	0.0965	0.0850 to 0.115	98.4	70.0 to 130	1.02	20.0
BD01220	Lithium, Dissolved	mg/L	4.150E-05	0.0154	0.200	0.201	0.203	0.199	0.170 to 0.230	100	70.0 to 130	0.990	20.0
BD01220	Lithium, Total	mg/L	-7.200E-05	0.0154	0.200	0.202	0.200	0.194	0.170 to 0.230	101	70.0 to 130	0.995	20.0
BD01220	Magnesium, Dissolved	mg/L	-0.00595	0.0462	5.00	7.33	7.35	5.16	4.25 to 5.75	101	70.0 to 130	0.272	20.0
BD01220	Magnesium, Total	mg/L	-0.00486	0.0462	5.00	7.45	7.49	5.12	4.25 to 5.75	101	70.0 to 130	0.535	20.0
BD01220	Manganese, Dissolved	mg/L	0.0000386	0.00033	0.100	0.372	0.367	0.0979	0.0850 to 0.115	92.0	70.0 to 130	1.35	20.0
BD01220	Manganese, Total	mg/L	0.0000265	0.00033	0.100	0.376	0.372	0.0962	0.0850 to 0.115	94.0	70.0 to 130	1.07	20.0
BD01220	Mercury, Total by CVAA	mg/L	-1.000E-05	0.000500	0.004	0.00392	0.00392	0.0039	0.00340 to 0.00460	98.0	70.0 to 130	0.00	20.0
BD01220	Molybdenum, Dissolved	mg/L	0.0000085	0.0002	0.100	0.0964	0.0960	0.0964	0.0850 to 0.115	95.5	70.0 to 130	0.416	20.0
BD01220	Molybdenum, Total	mg/L	0.0000152	0.0002	0.100	0.0954	0.0940	0.0948	0.0850 to 0.115	95.4	70.0 to 130	1.48	20.0
BD01220	Potassium, Dissolved	mg/L	0.0104	0.367	10.0	9.56	9.57	9.58	8.50 to 11.5	93.2	70.0 to 130	0.105	20.0
BD01220	Potassium, Total	mg/L	0.0110	0.367	10.0	9.84	9.70	9.43	8.50 to 11.5	95.9	70.0 to 130	1.43	20.0
BD01220	Selenium, Dissolved	mg/L	0.0000656	0.00100	0.100	0.0945	0.0946	0.0954	0.0850 to 0.115	94.5	70.0 to 130	0.106	20.0
BD01220	Selenium, Total	mg/L	0.0000430	0.00100	0.100	0.0952	0.0927	0.0931	0.0850 to 0.115	95.2	70.0 to 130	2.66	20.0
BD01220	Silicon, Dissolved	mg/L	0.00157	0.0440	1.00	4.73	4.71	1.06	0.850 to 1.15	106	70.0 to 130	0.424	20.0
BD01220	Silicon, Total	mg/L	6.140E-05	0.0440	1.00	4.66	4.65	1.03	0.850 to 1.15	100	70.0 to 130	0.215	20.0
BD01220	Sodium, Dissolved	mg/L	-6.280E-05	0.0660	5.00	11.2	11.2	5.11	4.25 to 5.75	107	70.0 to 130	0.00	20.0
BD01220	Sodium, Total	mg/L	0.00647	0.0660	5.00	10.8	10.7	4.93	4.25 to 5.75	103	70.0 to 130	0.930	20.0
BD01220	Sulfate	mg/L	0.0479	2.0	20.0	22.8	23.0	19.8	18.0 to 22.0	99.2	80.0 to 120	0.873	20.0
BD01220	Thallium, Dissolved	mg/L	0.0000089	0.000147	0.100	0.102	0.103	0.106	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD01220	Thallium, Total	mg/L	0.0000042	0.000147	0.100	0.100	0.101	0.0989	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD01220	Total Organic Carbon	mg/L	-0.0342	1.00	10.0	11.3	11.5	10.9		113	80.0 to 120	1.75	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



## Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/17/23 14:10  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-7

**Laboratory ID Number:** BD01216

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01228	Alkalinity to pH 4.5	mg CaCO3/L					254	50.8	45.0 to 55.0			1.59	10.0
BD01220	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.08	0.002	1.89	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD01219	Solids, Dissolved	mg/L	1.00	25.0			270	50.0	40.0 to 60.0			1.49	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-5

**Location Code:** WMWGASG  
**Collected:** 1/18/23 09:50  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01217

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	1/20/23 11:10	1/23/23 13:05		1.015	0.0416	mg/L	0.030000	0.1015	J	
* Calcium, Total	1/20/23 11:10	1/23/23 15:09		10.15	85.6	mg/L	0.70035	4.06		
* Iron, Total	1/20/23 11:10	1/23/23 13:05		1.015	2.95	mg/L	0.008120	0.0406		
* Lithium, Total	1/20/23 11:10	1/23/23 13:05		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	1/20/23 11:10	1/23/23 13:05		1.015	19.8	mg/L	0.021315	0.406		
* Silica, Total (calc.)	1/20/23 11:10	1/23/23 13:05		1	10.8	mg/L				
* Silicon, Total	1/20/23 11:10	1/23/23 13:05		1.015	5.03	mg/L	0.02030	0.25375		
* Sodium, Total	1/20/23 11:10	1/23/23 13:05		1.015	8.87	mg/L	0.03045	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	1/20/23 08:03	1/26/23 12:07		1.015	0.0417	mg/L	0.030000	0.1015	J	
* Calcium, Dissolved	1/20/23 08:03	1/27/23 12:25		10.15	87.9	mg/L	0.70035	4.06		
* Iron, Dissolved	1/20/23 08:03	1/26/23 12:07		1.015	2.73	mg/L	0.008120	0.0406		
* Lithium, Dissolved	1/20/23 08:03	1/26/23 12:07		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	1/20/23 08:03	1/26/23 12:07		1.015	19.8	mg/L	0.021315	0.406		
* Silica, Dissolved (calc.)	1/20/23 08:03	1/26/23 12:07		1	10.9	mg/L				
* Silicon, Dissolved	1/20/23 08:03	1/26/23 12:07		1.015	5.08	mg/L	0.02030	0.25375		
* Sodium, Dissolved	1/20/23 08:03	1/26/23 12:07		1.015	8.55	mg/L	0.03045	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	1/20/23 11:10	1/20/23 14:29		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	1/20/23 11:10	1/20/23 14:29		1.015	0.0711	mg/L	0.006090	0.05075		
* Arsenic, Total	1/20/23 11:10	1/20/23 14:29		1.015	0.000836	mg/L	0.000081	0.000203		
* Barium, Total	1/20/23 11:10	1/20/23 14:29		1.015	0.0635	mg/L	0.000508	0.001015		
* Beryllium, Total	1/20/23 11:10	1/20/23 14:29		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	1/20/23 11:10	1/20/23 14:29		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	1/20/23 11:10	1/20/23 14:29		1.015	0.000262	mg/L	0.000203	0.001015	J	
* Cobalt, Total	1/20/23 11:10	1/20/23 14:29		1.015	0.00293	mg/L	0.000068	0.000203		
* Lead, Total	1/20/23 11:10	1/20/23 14:29		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	1/20/23 11:10	1/20/23 14:29		1.015	0.718	mg/L	0.000152	0.001015		
* Molybdenum, Total	1/20/23 11:10	1/20/23 14:29		1.015	0.000113	mg/L	0.000102	0.000203	J	
* Potassium, Total	1/20/23 11:10	1/20/23 14:29		1.015	0.382	mg/L	0.169505	0.5075	J	

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-5

**Location Code:** WMWGASG  
**Collected:** 1/18/23 09:50  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01217

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	1/20/23 11:10	1/20/23 14:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/20/23 11:10	1/20/23 14:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	1/20/23 08:03	1/20/23 11:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	1/20/23 08:03	1/20/23 11:44		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	1/20/23 08:03	1/20/23 11:44		1.015	0.000742	mg/L	0.000081	0.000203	
* Barium, Dissolved	1/20/23 08:03	1/20/23 11:44		1.015	0.0584	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	1/20/23 08:03	1/20/23 11:44		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	1/20/23 08:03	1/20/23 11:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	1/20/23 08:03	1/20/23 11:44		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	1/20/23 08:03	1/20/23 11:44		1.015	0.00274	mg/L	0.000068	0.000203	
* Lead, Dissolved	1/20/23 08:03	1/20/23 11:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	1/20/23 08:03	1/20/23 11:44		1.015	0.692	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	1/20/23 08:03	1/20/23 11:44		1.015	0.000413	mg/L	0.000102	0.000203	
* Potassium, Dissolved	1/20/23 08:03	1/20/23 11:44		1.015	0.338	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	1/20/23 08:03	1/20/23 11:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	1/20/23 08:03	1/20/23 11:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	1/23/23 12:59	1/23/23 17:20		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	1/20/23 10:29	1/20/23 10:29		1	0.263	mg/L as N	0.20	0.3	J
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
* Alkalinity to pH 4.5	1/27/23 12:42	1/27/23 15:58		1	167	mg CaCO3/L			
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	1/20/23 10:18	1/23/23 13:50		1	362	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	1/27/23 12:42	1/27/23 15:58		1	167	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	1/27/23 12:42	1/27/23 15:58		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	1/20/23 12:05	1/20/23 12:05		1	Not Detected	mg/L	1.00	2	U

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-5

**Location Code:** WMWGASG  
**Collected:** 1/18/23 09:50  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01217

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	1/20/23 09:08	1/20/23 09:08		1	9.67	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	1/20/23 10:58	1/20/23 10:58		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	1/24/23 10:36	1/24/23 10:36		8	121	mg/L	4.8	16	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	1/18/23 09:47	1/18/23 09:47			600.29	uS/cm			FA
pH	1/18/23 09:47	1/18/23 09:47			6.38	SU			FA
Temperature	1/18/23 09:47	1/18/23 09:47			19.60	C			FA
Turbidity	1/18/23 09:47	1/18/23 09:47			4.19	NTU			FA
Sulfide	1/18/23 09:47	1/18/23 09:47			0	mg/L			FA

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/18/23 09:50  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-5

**Laboratory ID Number:** BD01217

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD01220	Aluminum, Dissolved	mg/L	0.0000964	0.0132	0.100	0.0975	0.0967	0.0936	0.0850 to 0.115	97.5	70.0 to 130	0.824	20.0	
BD01220	Aluminum, Total	mg/L	0.000698	0.0132	0.100	0.104	0.106	0.0945	0.0850 to 0.115	95.8	70.0 to 130	1.90	20.0	
BD01220	Antimony, Dissolved	mg/L	0.000485	0.00100	0.100	0.0953	0.0959	0.0907	0.0850 to 0.115	95.3	70.0 to 130	0.628	20.0	
BD01220	Antimony, Total	mg/L	0.000562	0.00100	0.100	0.103	0.102	0.0934	0.0850 to 0.115	103	70.0 to 130	0.976	20.0	
BD01220	Arsenic, Dissolved	mg/L	0.0000011	0.000176	0.100	0.0926	0.0920	0.0935	0.0850 to 0.115	92.6	70.0 to 130	0.650	20.0	
BD01220	Arsenic, Total	mg/L	0.0000062	0.000176	0.100	0.0932	0.0941	0.0930	0.0850 to 0.115	93.1	70.0 to 130	0.961	20.0	
BD01220	Barium, Dissolved	mg/L	0.0000176	0.00100	0.100	0.0983	0.0988	0.0948	0.0850 to 0.115	88.1	70.0 to 130	0.507	20.0	
BD01220	Barium, Total	mg/L	-0.0000001	0.00100	0.100	0.104	0.106	0.0918	0.0850 to 0.115	93.4	70.0 to 130	1.90	20.0	
BD01220	Beryllium, Dissolved	mg/L	0.0000000	0.000880	0.100	0.0941	0.0932	0.0952	0.0850 to 0.115	94.1	70.0 to 130	0.961	20.0	
BD01220	Beryllium, Total	mg/L	0.0000000	0.000880	0.100	0.0955	0.0980	0.0949	0.0850 to 0.115	95.5	70.0 to 130	2.58	20.0	
BD01220	Boron, Dissolved	mg/L	0.00249	0.0650	1.00	1.05	1.06	0.998	0.850 to 1.15	98.9	70.0 to 130	0.948	20.0	
BD01220	Boron, Total	mg/L	0.00195	0.0650	1.00	1.06	1.06	0.983	0.850 to 1.15	100	70.0 to 130	0.00	20.0	
BD01220	Cadmium, Dissolved	mg/L	-0.0000069	0.000147	0.100	0.0935	0.0908	0.0950	0.0850 to 0.115	93.5	70.0 to 130	2.93	20.0	
BD01220	Cadmium, Total	mg/L	-0.0000069	0.000147	0.100	0.0915	0.0908	0.0920	0.0850 to 0.115	91.5	70.0 to 130	0.768	20.0	
BD01220	Calcium, Dissolved	mg/L	-0.00432	0.152	5.00	18.2	18.1	5.15	4.25 to 5.75	100	70.0 to 130	0.551	20.0	
BD01220	Calcium, Total	mg/L	-0.00327	0.152	5.00	18.7	18.7	5.14	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0	
BD01220	Chloride	mg/L	-0.0232	1.00	10.0	24.9	25.6	10.7	9.00 to 11.0	103	80.0 to 120	2.77	20.0	
BD01220	Chromium, Dissolved	mg/L	0.0000328	0.000440	0.100	0.0948	0.0937	0.0962	0.0850 to 0.115	94.8	70.0 to 130	1.17	20.0	
BD01220	Chromium, Total	mg/L	0.0000316	0.000440	0.100	0.0953	0.0953	0.0946	0.0850 to 0.115	95.3	70.0 to 130	0.00	20.0	
BD01220	Cobalt, Dissolved	mg/L	0.0000003	0.000147	0.100	0.101	0.0989	0.100	0.0850 to 0.115	98.6	70.0 to 130	2.10	20.0	
BD01220	Cobalt, Total	mg/L	-0.0000025	0.000147	0.100	0.100	0.100	0.0978	0.0850 to 0.115	97.6	70.0 to 130	0.00	20.0	
BD01220	Fluoride	mg/L	0.0307	0.125	2.50	2.47	2.54	2.49	2.25 to 2.75	98.8	80.0 to 120	2.79	20.0	
BD01220	Iron, Dissolved	mg/L	-0.000588	0.0176	0.2	0.227	0.229	0.211	0.170 to 0.230	102	70.0 to 130	0.877	20.0	
BD01220	Iron, Total	mg/L	-0.000137	0.0176	0.2	0.225	0.224	0.203	0.170 to 0.230	103	70.0 to 130	0.445	20.0	

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/18/23 09:50  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-5

**Laboratory ID Number:** BD01217

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD01220	Lead, Dissolved	mg/L	0.0000120	0.000147	0.100	0.0981	0.0974	0.103	0.0850 to 0.115	98.1	70.0 to 130	0.716	20.0
BD01220	Lead, Total	mg/L	0.0000031	0.000147	0.100	0.0984	0.0974	0.0965	0.0850 to 0.115	98.4	70.0 to 130	1.02	20.0
BD01220	Lithium, Dissolved	mg/L	4.150E-05	0.0154	0.200	0.201	0.203	0.199	0.170 to 0.230	100	70.0 to 130	0.990	20.0
BD01220	Lithium, Total	mg/L	-7.200E-05	0.0154	0.200	0.202	0.200	0.194	0.170 to 0.230	101	70.0 to 130	0.995	20.0
BD01220	Magnesium, Dissolved	mg/L	-0.00595	0.0462	5.00	7.33	7.35	5.16	4.25 to 5.75	101	70.0 to 130	0.272	20.0
BD01220	Magnesium, Total	mg/L	-0.00486	0.0462	5.00	7.45	7.49	5.12	4.25 to 5.75	101	70.0 to 130	0.535	20.0
BD01220	Manganese, Dissolved	mg/L	0.0000386	0.00033	0.100	0.372	0.367	0.0979	0.0850 to 0.115	92.0	70.0 to 130	1.35	20.0
BD01220	Manganese, Total	mg/L	0.0000265	0.00033	0.100	0.376	0.372	0.0962	0.0850 to 0.115	94.0	70.0 to 130	1.07	20.0
BD01220	Mercury, Total by CVAA	mg/L	-1.000E-05	0.000500	0.004	0.00392	0.00392	0.0039	0.00340 to 0.00460	98.0	70.0 to 130	0.00	20.0
BD01220	Molybdenum, Dissolved	mg/L	0.0000085	0.0002	0.100	0.0964	0.0960	0.0964	0.0850 to 0.115	95.5	70.0 to 130	0.416	20.0
BD01220	Molybdenum, Total	mg/L	0.0000152	0.0002	0.100	0.0954	0.0940	0.0948	0.0850 to 0.115	95.4	70.0 to 130	1.48	20.0
BD01220	Potassium, Dissolved	mg/L	0.0104	0.367	10.0	9.56	9.57	9.58	8.50 to 11.5	93.2	70.0 to 130	0.105	20.0
BD01220	Potassium, Total	mg/L	0.0110	0.367	10.0	9.84	9.70	9.43	8.50 to 11.5	95.9	70.0 to 130	1.43	20.0
BD01220	Selenium, Dissolved	mg/L	0.0000656	0.00100	0.100	0.0945	0.0946	0.0954	0.0850 to 0.115	94.5	70.0 to 130	0.106	20.0
BD01220	Selenium, Total	mg/L	0.0000430	0.00100	0.100	0.0952	0.0927	0.0931	0.0850 to 0.115	95.2	70.0 to 130	2.66	20.0
BD01220	Silicon, Dissolved	mg/L	0.00157	0.0440	1.00	4.73	4.71	1.06	0.850 to 1.15	106	70.0 to 130	0.424	20.0
BD01220	Silicon, Total	mg/L	6.140E-05	0.0440	1.00	4.66	4.65	1.03	0.850 to 1.15	100	70.0 to 130	0.215	20.0
BD01220	Sodium, Dissolved	mg/L	-6.280E-05	0.0660	5.00	11.2	11.2	5.11	4.25 to 5.75	107	70.0 to 130	0.00	20.0
BD01220	Sodium, Total	mg/L	0.00647	0.0660	5.00	10.8	10.7	4.93	4.25 to 5.75	103	70.0 to 130	0.930	20.0
BD01220	Sulfate	mg/L	0.0479	2.0	20.0	22.8	23.0	19.8	18.0 to 22.0	99.2	80.0 to 120	0.873	20.0
BD01220	Thallium, Dissolved	mg/L	0.0000089	0.000147	0.100	0.102	0.103	0.106	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD01220	Thallium, Total	mg/L	0.0000042	0.000147	0.100	0.100	0.101	0.0989	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD01220	Total Organic Carbon	mg/L	-0.0342	1.00	10.0	11.3	11.5	10.9		113	80.0 to 120	1.75	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/18/23 09:50  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-5

**Laboratory ID Number:** BD01217

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01228	Alkalinity to pH 4.5	mg CaCO3/L					254	50.8	45.0 to 55.0			1.59	10.0
BD01220	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.08	0.002	1.89	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD01219	Solids, Dissolved	mg/L	1.00	25.0			270	50.0	40.0 to 60.0			1.49	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-5 DUP

**Location Code:** WMWGASG  
**Collected:** 1/18/23 09:50  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01218

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>			
* Boron, Total	1/20/23 11:10	1/23/23 13:09		1.015	0.0416	mg/L	0.030000	0.1015	J
* Calcium, Total	1/20/23 11:10	1/23/23 15:13		10.15	86.9	mg/L	0.70035	4.06	
* Iron, Total	1/20/23 11:10	1/23/23 13:09		1.015	2.87	mg/L	0.008120	0.0406	
* Lithium, Total	1/20/23 11:10	1/23/23 13:09		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	1/20/23 11:10	1/23/23 13:09		1.015	19.8	mg/L	0.021315	0.406	
* Silica, Total (calc.)	1/20/23 11:10	1/23/23 13:09		1	10.8	mg/L			
* Silicon, Total	1/20/23 11:10	1/23/23 13:09		1.015	5.03	mg/L	0.02030	0.25375	
* Sodium, Total	1/20/23 11:10	1/23/23 13:09		1.015	8.72	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>			
* Boron, Dissolved	1/20/23 08:03	1/26/23 12:10		1.015	0.0412	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	1/20/23 08:03	1/27/23 12:29		10.15	89.1	mg/L	0.70035	4.06	
* Iron, Dissolved	1/20/23 08:03	1/26/23 12:10		1.015	2.65	mg/L	0.008120	0.0406	
* Lithium, Dissolved	1/20/23 08:03	1/26/23 12:10		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	1/20/23 08:03	1/26/23 12:10		1.015	19.6	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	1/20/23 08:03	1/26/23 12:10		1	10.8	mg/L			
* Silicon, Dissolved	1/20/23 08:03	1/26/23 12:10		1.015	5.03	mg/L	0.02030	0.25375	
* Sodium, Dissolved	1/20/23 08:03	1/26/23 12:10		1.015	8.21	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>			
* Antimony, Total	1/20/23 11:10	1/20/23 14:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	1/20/23 11:10	1/20/23 14:33		1.015	0.0614	mg/L	0.006090	0.05075	
* Arsenic, Total	1/20/23 11:10	1/20/23 14:33		1.015	0.000839	mg/L	0.000081	0.000203	
* Barium, Total	1/20/23 11:10	1/20/23 14:33		1.015	0.0593	mg/L	0.000508	0.001015	
* Beryllium, Total	1/20/23 11:10	1/20/23 14:33		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	1/20/23 11:10	1/20/23 14:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	1/20/23 11:10	1/20/23 14:33		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	1/20/23 11:10	1/20/23 14:33		1.015	0.00284	mg/L	0.000068	0.000203	
* Lead, Total	1/20/23 11:10	1/20/23 14:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	1/20/23 11:10	1/20/23 14:33		1.015	0.687	mg/L	0.000152	0.001015	
* Molybdenum, Total	1/20/23 11:10	1/20/23 14:33		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	1/20/23 11:10	1/20/23 14:33		1.015	0.359	mg/L	0.169505	0.5075	J

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-5 DUP

**Location Code:** WMWGASG  
**Collected:** 1/18/23 09:50  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01218

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	1/20/23 11:10	1/20/23 14:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/20/23 11:10	1/20/23 14:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	1/20/23 08:03	1/20/23 11:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	1/20/23 08:03	1/20/23 11:47		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	1/20/23 08:03	1/20/23 11:47		1.015	0.000757	mg/L	0.000081	0.000203	
* Barium, Dissolved	1/20/23 08:03	1/20/23 11:47		1.015	0.0600	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	1/20/23 08:03	1/20/23 11:47		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	1/20/23 08:03	1/20/23 11:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	1/20/23 08:03	1/20/23 11:47		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	1/20/23 08:03	1/20/23 11:47		1.015	0.00275	mg/L	0.000068	0.000203	
* Lead, Dissolved	1/20/23 08:03	1/20/23 11:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	1/20/23 08:03	1/20/23 11:47		1.015	0.679	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	1/20/23 08:03	1/20/23 11:47		1.015	0.000310	mg/L	0.000102	0.000203	
* Potassium, Dissolved	1/20/23 08:03	1/20/23 11:47		1.015	0.340	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	1/20/23 08:03	1/20/23 11:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	1/20/23 08:03	1/20/23 11:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	1/23/23 12:59	1/23/23 17:24		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	1/20/23 10:31	1/20/23 10:31		1	0.259	mg/L as N	0.20	0.3	J
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
* Alkalinity to pH 4.5	1/27/23 12:42	1/27/23 15:58		1	166	mg CaCO3/L			
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	1/20/23 10:18	1/23/23 13:50		1	366	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	1/27/23 12:42	1/27/23 15:58		1	166	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	1/27/23 12:42	1/27/23 15:58		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	1/20/23 12:23	1/20/23 12:23		1	Not Detected	mg/L	1.00	2	U

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-5 DUP

**Location Code:** WMWGASG  
**Collected:** 1/18/23 09:50  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01218

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	1/20/23 09:10	1/20/23 09:10		1	9.60	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	1/20/23 11:00	1/20/23 11:00		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	1/24/23 10:37	1/24/23 10:37		8	118	mg/L	4.8	16	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	1/18/23 09:47	1/18/23 09:47			600.29	uS/cm			FA
pH	1/18/23 09:47	1/18/23 09:47			6.38	SU			FA
Temperature	1/18/23 09:47	1/18/23 09:47			19.60	C			FA
Turbidity	1/18/23 09:47	1/18/23 09:47			4.19	NTU			FA
Sulfide	1/18/23 09:47	1/18/23 09:47			0	mg/L			FA

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/18/23 09:50  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-5 DUP

**Laboratory ID Number:** BD01218

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BD01220	Aluminum, Dissolved	mg/L	0.0000964	0.0132	0.100	0.0975	0.0967	0.0936	0.0850 to 0.115	97.5	70.0 to 130	0.824	20.0
BD01220	Aluminum, Total	mg/L	0.000698	0.0132	0.100	0.104	0.106	0.0945	0.0850 to 0.115	95.8	70.0 to 130	1.90	20.0
BD01220	Antimony, Dissolved	mg/L	0.000485	0.00100	0.100	0.0953	0.0959	0.0907	0.0850 to 0.115	95.3	70.0 to 130	0.628	20.0
BD01220	Antimony, Total	mg/L	0.000562	0.00100	0.100	0.103	0.102	0.0934	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD01220	Arsenic, Dissolved	mg/L	0.0000011	0.000176	0.100	0.0926	0.0920	0.0935	0.0850 to 0.115	92.6	70.0 to 130	0.650	20.0
BD01220	Arsenic, Total	mg/L	0.0000062	0.000176	0.100	0.0932	0.0941	0.0930	0.0850 to 0.115	93.1	70.0 to 130	0.961	20.0
BD01220	Barium, Dissolved	mg/L	0.0000176	0.00100	0.100	0.0983	0.0988	0.0948	0.0850 to 0.115	88.1	70.0 to 130	0.507	20.0
BD01220	Barium, Total	mg/L	-0.0000001	0.00100	0.100	0.104	0.106	0.0918	0.0850 to 0.115	93.4	70.0 to 130	1.90	20.0
BD01220	Beryllium, Dissolved	mg/L	0.0000000	0.000880	0.100	0.0941	0.0932	0.0952	0.0850 to 0.115	94.1	70.0 to 130	0.961	20.0
BD01220	Beryllium, Total	mg/L	0.0000000	0.000880	0.100	0.0955	0.0980	0.0949	0.0850 to 0.115	95.5	70.0 to 130	2.58	20.0
BD01220	Boron, Dissolved	mg/L	0.00249	0.0650	1.00	1.05	1.06	0.998	0.850 to 1.15	98.9	70.0 to 130	0.948	20.0
BD01220	Boron, Total	mg/L	0.00195	0.0650	1.00	1.06	1.06	0.983	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BD01220	Cadmium, Dissolved	mg/L	-0.0000069	0.000147	0.100	0.0935	0.0908	0.0950	0.0850 to 0.115	93.5	70.0 to 130	2.93	20.0
BD01220	Cadmium, Total	mg/L	-0.0000069	0.000147	0.100	0.0915	0.0908	0.0920	0.0850 to 0.115	91.5	70.0 to 130	0.768	20.0
BD01220	Calcium, Dissolved	mg/L	-0.00432	0.152	5.00	18.2	18.1	5.15	4.25 to 5.75	100	70.0 to 130	0.551	20.0
BD01220	Calcium, Total	mg/L	-0.00327	0.152	5.00	18.7	18.7	5.14	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BD01220	Chloride	mg/L	-0.0232	1.00	10.0	24.9	25.6	10.7	9.00 to 11.0	103	80.0 to 120	2.77	20.0
BD01220	Chromium, Dissolved	mg/L	0.0000328	0.000440	0.100	0.0948	0.0937	0.0962	0.0850 to 0.115	94.8	70.0 to 130	1.17	20.0
BD01220	Chromium, Total	mg/L	0.0000316	0.000440	0.100	0.0953	0.0953	0.0946	0.0850 to 0.115	95.3	70.0 to 130	0.00	20.0
BD01220	Cobalt, Dissolved	mg/L	0.0000003	0.000147	0.100	0.101	0.0989	0.100	0.0850 to 0.115	98.6	70.0 to 130	2.10	20.0
BD01220	Cobalt, Total	mg/L	-0.0000025	0.000147	0.100	0.100	0.100	0.0978	0.0850 to 0.115	97.6	70.0 to 130	0.00	20.0
BD01220	Fluoride	mg/L	0.0307	0.125	2.50	2.47	2.54	2.49	2.25 to 2.75	98.8	80.0 to 120	2.79	20.0
BD01220	Iron, Dissolved	mg/L	-0.000588	0.0176	0.2	0.227	0.229	0.211	0.170 to 0.230	102	70.0 to 130	0.877	20.0
BD01220	Iron, Total	mg/L	-0.000137	0.0176	0.2	0.225	0.224	0.203	0.170 to 0.230	103	70.0 to 130	0.445	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/18/23 09:50  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-5 DUP

**Laboratory ID Number:** BD01218

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD01220	Lead, Dissolved	mg/L	0.0000120	0.000147	0.100	0.0981	0.0974	0.103	0.0850 to 0.115	98.1	70.0 to 130	0.716	20.0
BD01220	Lead, Total	mg/L	0.0000031	0.000147	0.100	0.0984	0.0974	0.0965	0.0850 to 0.115	98.4	70.0 to 130	1.02	20.0
BD01220	Lithium, Dissolved	mg/L	4.150E-05	0.0154	0.200	0.201	0.203	0.199	0.170 to 0.230	100	70.0 to 130	0.990	20.0
BD01220	Lithium, Total	mg/L	-7.200E-05	0.0154	0.200	0.202	0.200	0.194	0.170 to 0.230	101	70.0 to 130	0.995	20.0
BD01220	Magnesium, Dissolved	mg/L	-0.00595	0.0462	5.00	7.33	7.35	5.16	4.25 to 5.75	101	70.0 to 130	0.272	20.0
BD01220	Magnesium, Total	mg/L	-0.00486	0.0462	5.00	7.45	7.49	5.12	4.25 to 5.75	101	70.0 to 130	0.535	20.0
BD01220	Manganese, Dissolved	mg/L	0.0000386	0.00033	0.100	0.372	0.367	0.0979	0.0850 to 0.115	92.0	70.0 to 130	1.35	20.0
BD01220	Manganese, Total	mg/L	0.0000265	0.00033	0.100	0.376	0.372	0.0962	0.0850 to 0.115	94.0	70.0 to 130	1.07	20.0
BD01220	Mercury, Total by CVAA	mg/L	-1.000E-05	0.000500	0.004	0.00392	0.00392	0.0039	0.00340 to 0.00460	98.0	70.0 to 130	0.00	20.0
BD01220	Molybdenum, Dissolved	mg/L	0.0000085	0.0002	0.100	0.0964	0.0960	0.0964	0.0850 to 0.115	95.5	70.0 to 130	0.416	20.0
BD01220	Molybdenum, Total	mg/L	0.0000152	0.0002	0.100	0.0954	0.0940	0.0948	0.0850 to 0.115	95.4	70.0 to 130	1.48	20.0
BD01220	Potassium, Dissolved	mg/L	0.0104	0.367	10.0	9.56	9.57	9.58	8.50 to 11.5	93.2	70.0 to 130	0.105	20.0
BD01220	Potassium, Total	mg/L	0.0110	0.367	10.0	9.84	9.70	9.43	8.50 to 11.5	95.9	70.0 to 130	1.43	20.0
BD01220	Selenium, Dissolved	mg/L	0.0000656	0.00100	0.100	0.0945	0.0946	0.0954	0.0850 to 0.115	94.5	70.0 to 130	0.106	20.0
BD01220	Selenium, Total	mg/L	0.0000430	0.00100	0.100	0.0952	0.0927	0.0931	0.0850 to 0.115	95.2	70.0 to 130	2.66	20.0
BD01220	Silicon, Dissolved	mg/L	0.00157	0.0440	1.00	4.73	4.71	1.06	0.850 to 1.15	106	70.0 to 130	0.424	20.0
BD01220	Silicon, Total	mg/L	6.140E-05	0.0440	1.00	4.66	4.65	1.03	0.850 to 1.15	100	70.0 to 130	0.215	20.0
BD01220	Sodium, Dissolved	mg/L	-6.280E-05	0.0660	5.00	11.2	11.2	5.11	4.25 to 5.75	107	70.0 to 130	0.00	20.0
BD01220	Sodium, Total	mg/L	0.00647	0.0660	5.00	10.8	10.7	4.93	4.25 to 5.75	103	70.0 to 130	0.930	20.0
BD01220	Sulfate	mg/L	0.0479	2.0	20.0	22.8	23.0	19.8	18.0 to 22.0	99.2	80.0 to 120	0.873	20.0
BD01220	Thallium, Dissolved	mg/L	0.0000089	0.000147	0.100	0.102	0.103	0.106	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD01220	Thallium, Total	mg/L	0.0000042	0.000147	0.100	0.100	0.101	0.0989	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD01220	Total Organic Carbon	mg/L	-0.0342	1.00	10.0	11.3	11.5	10.9		113	80.0 to 120	1.75	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/18/23 09:50  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-5 DUP

**Laboratory ID Number:** BD01218

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01228	Alkalinity to pH 4.5	mg CaCO3/L					254	50.8	45.0 to 55.0			1.59	10.0
BD01220	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.08	0.002	1.89	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD01219	Solids, Dissolved	mg/L	1.00	25.0			270	50.0	40.0 to 60.0			1.49	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-10

**Location Code:** WMWGASG  
**Collected:** 1/18/23 11:03  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01219

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	1/20/23 11:10	1/23/23 13:12		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	1/20/23 11:10	1/23/23 15:16		10.15	103	mg/L	0.70035	4.06	
* Iron, Total	1/20/23 11:10	1/23/23 13:12		1.015	0.0636	mg/L	0.008120	0.0406	
* Lithium, Total	1/20/23 11:10	1/23/23 13:12		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	1/20/23 11:10	1/23/23 13:12		1.015	1.92	mg/L	0.021315	0.406	
* Silica, Total (calc.)	1/20/23 11:10	1/23/23 13:12		1	9.89	mg/L			
* Silicon, Total	1/20/23 11:10	1/23/23 13:12		1.015	4.62	mg/L	0.02030	0.25375	
* Sodium, Total	1/20/23 11:10	1/23/23 13:12		1.015	2.03	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	1/20/23 08:03	1/26/23 12:14		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	1/20/23 08:03	1/27/23 12:32		10.15	102	mg/L	0.70035	4.06	
* Iron, Dissolved	1/20/23 08:03	1/26/23 12:14		1.015	0.0323	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	1/20/23 08:03	1/26/23 12:14		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	1/20/23 08:03	1/26/23 12:14		1.015	1.89	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	1/20/23 08:03	1/26/23 12:14		1	9.80	mg/L			
* Silicon, Dissolved	1/20/23 08:03	1/26/23 12:14		1.015	4.58	mg/L	0.02030	0.25375	
* Sodium, Dissolved	1/20/23 08:03	1/26/23 12:14		1.015	2.05	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	1/20/23 11:10	1/20/23 14:36		1.015	0.000552	mg/L	0.000508	0.001015	J
* Aluminum, Total	1/20/23 11:10	1/20/23 14:36		1.015	0.116	mg/L	0.006090	0.05075	
* Arsenic, Total	1/20/23 11:10	1/20/23 14:36		1.015	0.000215	mg/L	0.000081	0.000203	
* Barium, Total	1/20/23 11:10	1/20/23 14:36		1.015	0.0354	mg/L	0.000508	0.001015	
* Beryllium, Total	1/20/23 11:10	1/20/23 14:36		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	1/20/23 11:10	1/20/23 14:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	1/20/23 11:10	1/20/23 14:36		1.015	0.000283	mg/L	0.000203	0.001015	J
* Cobalt, Total	1/20/23 11:10	1/20/23 14:36		1.015	0.000912	mg/L	0.000068	0.000203	
* Lead, Total	1/20/23 11:10	1/20/23 14:36		1.015	0.0000801	mg/L	0.000068	0.000203	J
* Manganese, Total	1/20/23 11:10	1/20/23 14:36		1.015	0.0918	mg/L	0.000152	0.001015	
* Molybdenum, Total	1/20/23 11:10	1/20/23 14:36		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	1/20/23 11:10	1/20/23 14:36		1.015	0.227	mg/L	0.169505	0.5075	J

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-10

**Location Code:** WMWGASG  
**Collected:** 1/18/23 11:03  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01219

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	1/20/23 11:10	1/20/23 14:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/20/23 11:10	1/20/23 14:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	1/20/23 08:03	1/20/23 11:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	1/20/23 08:03	1/20/23 11:51		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	1/20/23 08:03	1/20/23 11:51		1.015	0.000185	mg/L	0.000081	0.000203	J
* Barium, Dissolved	1/20/23 08:03	1/20/23 11:51		1.015	0.0326	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	1/20/23 08:03	1/20/23 11:51		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	1/20/23 08:03	1/20/23 11:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	1/20/23 08:03	1/20/23 11:51		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	1/20/23 08:03	1/20/23 11:51		1.015	0.000724	mg/L	0.000068	0.000203	
* Lead, Dissolved	1/20/23 08:03	1/20/23 11:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	1/20/23 08:03	1/20/23 11:51		1.015	0.0815	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	1/20/23 08:03	1/20/23 11:51		1.015	0.000136	mg/L	0.000102	0.000203	J
* Potassium, Dissolved	1/20/23 08:03	1/20/23 11:51		1.015	0.203	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	1/20/23 08:03	1/20/23 11:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	1/20/23 08:03	1/20/23 11:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	1/23/23 12:59	1/23/23 17:28		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	1/20/23 10:33	1/20/23 10:33		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
* Alkalinity to pH 4.5	1/27/23 12:42	1/27/23 15:58		1	256	mg CaCO3/L			
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	1/20/23 10:18	1/23/23 13:50		1	266	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	1/27/23 12:42	1/27/23 15:58		1	255	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	1/27/23 12:42	1/27/23 15:58		1	1.38	mg CaCO3/L			
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	1/20/23 12:41	1/20/23 12:41		1	Not Detected	mg/L	1.00	2	U

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-10

**Location Code:** WMWGASG  
**Collected:** 1/18/23 11:03  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01219

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	1/20/23 09:11	1/20/23 09:11		1	3.09	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	1/20/23 11:01	1/20/23 11:01		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	1/24/23 10:31	1/24/23 10:31		1	1.96	mg/L	0.6	2	J
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	1/18/23 10:59	1/18/23 10:59			485.76	uS/cm			FA
pH	1/18/23 10:59	1/18/23 10:59			7.08	SU			FA
Temperature	1/18/23 10:59	1/18/23 10:59			20.84	C			FA
Turbidity	1/18/23 10:59	1/18/23 10:59			4.77	NTU			FA
Sulfide	1/18/23 10:59	1/18/23 10:59			0	mg/L			FA

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/18/23 11:03  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-10

**Laboratory ID Number:** BD01219

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	
				Limit					Standard	Limit	Rec	Limit		Prec
BD01220	Aluminum, Dissolved	mg/L	0.0000964	0.0132		0.100	0.0975	0.0967	0.0936	0.0850 to 0.115	97.5	70.0 to 130	0.824	20.0
BD01220	Aluminum, Total	mg/L	0.000698	0.0132		0.100	0.104	0.106	0.0945	0.0850 to 0.115	95.8	70.0 to 130	1.90	20.0
BD01220	Antimony, Dissolved	mg/L	0.000485	0.00100		0.100	0.0953	0.0959	0.0907	0.0850 to 0.115	95.3	70.0 to 130	0.628	20.0
BD01220	Antimony, Total	mg/L	0.000562	0.00100		0.100	0.103	0.102	0.0934	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD01220	Arsenic, Dissolved	mg/L	0.0000011	0.000176		0.100	0.0926	0.0920	0.0935	0.0850 to 0.115	92.6	70.0 to 130	0.650	20.0
BD01220	Arsenic, Total	mg/L	0.0000062	0.000176		0.100	0.0932	0.0941	0.0930	0.0850 to 0.115	93.1	70.0 to 130	0.961	20.0
BD01220	Barium, Dissolved	mg/L	0.0000176	0.00100		0.100	0.0983	0.0988	0.0948	0.0850 to 0.115	88.1	70.0 to 130	0.507	20.0
BD01220	Barium, Total	mg/L	-0.0000001	0.00100		0.100	0.104	0.106	0.0918	0.0850 to 0.115	93.4	70.0 to 130	1.90	20.0
BD01220	Beryllium, Dissolved	mg/L	0.0000000	0.000880		0.100	0.0941	0.0932	0.0952	0.0850 to 0.115	94.1	70.0 to 130	0.961	20.0
BD01220	Beryllium, Total	mg/L	0.0000000	0.000880		0.100	0.0955	0.0980	0.0949	0.0850 to 0.115	95.5	70.0 to 130	2.58	20.0
BD01220	Boron, Dissolved	mg/L	0.00249	0.0650		1.00	1.05	1.06	0.998	0.850 to 1.15	98.9	70.0 to 130	0.948	20.0
BD01220	Boron, Total	mg/L	0.00195	0.0650		1.00	1.06	1.06	0.983	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BD01220	Cadmium, Dissolved	mg/L	-0.0000069	0.000147		0.100	0.0935	0.0908	0.0950	0.0850 to 0.115	93.5	70.0 to 130	2.93	20.0
BD01220	Cadmium, Total	mg/L	-0.0000069	0.000147		0.100	0.0915	0.0908	0.0920	0.0850 to 0.115	91.5	70.0 to 130	0.768	20.0
BD01220	Calcium, Dissolved	mg/L	-0.00432	0.152		5.00	18.2	18.1	5.15	4.25 to 5.75	100	70.0 to 130	0.551	20.0
BD01220	Calcium, Total	mg/L	-0.00327	0.152		5.00	18.7	18.7	5.14	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BD01220	Chloride	mg/L	-0.0232	1.00		10.0	24.9	25.6	10.7	9.00 to 11.0	103	80.0 to 120	2.77	20.0
BD01220	Chromium, Dissolved	mg/L	0.0000328	0.000440		0.100	0.0948	0.0937	0.0962	0.0850 to 0.115	94.8	70.0 to 130	1.17	20.0
BD01220	Chromium, Total	mg/L	0.0000316	0.000440		0.100	0.0953	0.0953	0.0946	0.0850 to 0.115	95.3	70.0 to 130	0.00	20.0
BD01220	Cobalt, Dissolved	mg/L	0.0000003	0.000147		0.100	0.101	0.0989	0.100	0.0850 to 0.115	98.6	70.0 to 130	2.10	20.0
BD01220	Cobalt, Total	mg/L	-0.0000025	0.000147		0.100	0.100	0.100	0.0978	0.0850 to 0.115	97.6	70.0 to 130	0.00	20.0
BD01220	Fluoride	mg/L	0.0307	0.125		2.50	2.47	2.54	2.49	2.25 to 2.75	98.8	80.0 to 120	2.79	20.0
BD01220	Iron, Dissolved	mg/L	-0.000588	0.0176		0.2	0.227	0.229	0.211	0.170 to 0.230	102	70.0 to 130	0.877	20.0
BD01220	Iron, Total	mg/L	-0.000137	0.0176		0.2	0.225	0.224	0.203	0.170 to 0.230	103	70.0 to 130	0.445	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/18/23 11:03  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-10

**Laboratory ID Number:** BD01219

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Prec		
BD01220	Lead, Dissolved	mg/L	0.0000120	0.000147	0.100	0.0981	0.0974	0.103	0.0850 to 0.115	98.1	70.0 to 130	0.716	20.0
BD01220	Lead, Total	mg/L	0.0000031	0.000147	0.100	0.0984	0.0974	0.0965	0.0850 to 0.115	98.4	70.0 to 130	1.02	20.0
BD01220	Lithium, Dissolved	mg/L	4.150E-05	0.0154	0.200	0.201	0.203	0.199	0.170 to 0.230	100	70.0 to 130	0.990	20.0
BD01220	Lithium, Total	mg/L	-7.200E-05	0.0154	0.200	0.202	0.200	0.194	0.170 to 0.230	101	70.0 to 130	0.995	20.0
BD01220	Magnesium, Dissolved	mg/L	-0.00595	0.0462	5.00	7.33	7.35	5.16	4.25 to 5.75	101	70.0 to 130	0.272	20.0
BD01220	Magnesium, Total	mg/L	-0.00486	0.0462	5.00	7.45	7.49	5.12	4.25 to 5.75	101	70.0 to 130	0.535	20.0
BD01220	Manganese, Dissolved	mg/L	0.0000386	0.00033	0.100	0.372	0.367	0.0979	0.0850 to 0.115	92.0	70.0 to 130	1.35	20.0
BD01220	Manganese, Total	mg/L	0.0000265	0.00033	0.100	0.376	0.372	0.0962	0.0850 to 0.115	94.0	70.0 to 130	1.07	20.0
BD01220	Mercury, Total by CVAA	mg/L	-1.000E-05	0.000500	0.004	0.00392	0.00392	0.0039	0.00340 to 0.00460	98.0	70.0 to 130	0.00	20.0
BD01220	Molybdenum, Dissolved	mg/L	0.0000085	0.0002	0.100	0.0964	0.0960	0.0964	0.0850 to 0.115	95.5	70.0 to 130	0.416	20.0
BD01220	Molybdenum, Total	mg/L	0.0000152	0.0002	0.100	0.0954	0.0940	0.0948	0.0850 to 0.115	95.4	70.0 to 130	1.48	20.0
BD01220	Potassium, Dissolved	mg/L	0.0104	0.367	10.0	9.56	9.57	9.58	8.50 to 11.5	93.2	70.0 to 130	0.105	20.0
BD01220	Potassium, Total	mg/L	0.0110	0.367	10.0	9.84	9.70	9.43	8.50 to 11.5	95.9	70.0 to 130	1.43	20.0
BD01220	Selenium, Dissolved	mg/L	0.0000656	0.00100	0.100	0.0945	0.0946	0.0954	0.0850 to 0.115	94.5	70.0 to 130	0.106	20.0
BD01220	Selenium, Total	mg/L	0.0000430	0.00100	0.100	0.0952	0.0927	0.0931	0.0850 to 0.115	95.2	70.0 to 130	2.66	20.0
BD01220	Silicon, Dissolved	mg/L	0.00157	0.0440	1.00	4.73	4.71	1.06	0.850 to 1.15	106	70.0 to 130	0.424	20.0
BD01220	Silicon, Total	mg/L	6.140E-05	0.0440	1.00	4.66	4.65	1.03	0.850 to 1.15	100	70.0 to 130	0.215	20.0
BD01220	Sodium, Dissolved	mg/L	-6.280E-05	0.0660	5.00	11.2	11.2	5.11	4.25 to 5.75	107	70.0 to 130	0.00	20.0
BD01220	Sodium, Total	mg/L	0.00647	0.0660	5.00	10.8	10.7	4.93	4.25 to 5.75	103	70.0 to 130	0.930	20.0
BD01220	Sulfate	mg/L	0.0479	2.0	20.0	22.8	23.0	19.8	18.0 to 22.0	99.2	80.0 to 120	0.873	20.0
BD01220	Thallium, Dissolved	mg/L	0.0000089	0.000147	0.100	0.102	0.103	0.106	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD01220	Thallium, Total	mg/L	0.0000042	0.000147	0.100	0.100	0.101	0.0989	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD01220	Total Organic Carbon	mg/L	-0.0342	1.00	10.0	11.3	11.5	10.9		113	80.0 to 120	1.75	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/18/23 11:03  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-10

**Laboratory ID Number:** BD01219

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01228	Alkalinity to pH 4.5	mg CaCO3/L					254	50.8	45.0 to 55.0			1.59	10.0
BD01220	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.08	0.002	1.89	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD01219	Solids, Dissolved	mg/L	1.00	25.0			270	50.0	40.0 to 60.0			1.49	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-11

**Location Code:** WMWGASG  
**Collected:** 1/18/23 12:05  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01220

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>			
* Boron, Total	1/20/23 11:10	1/23/23 13:15		1.015	0.0603	mg/L	0.030000	0.1015	J
* Calcium, Total	1/20/23 11:10	1/23/23 13:15		1.015	13.8	mg/L	0.070035	0.406	
* Iron, Total	1/20/23 11:10	1/23/23 13:15		1.015	0.0192	mg/L	0.008120	0.0406	J
* Lithium, Total	1/20/23 11:10	1/23/23 13:15		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	1/20/23 11:10	1/23/23 13:15		1.015	2.38	mg/L	0.021315	0.406	
* Silica, Total (calc.)	1/20/23 11:10	1/23/23 13:15		1	7.83	mg/L			
* Silicon, Total	1/20/23 11:10	1/23/23 13:15		1.015	3.66	mg/L	0.02030	0.25375	
* Sodium, Total	1/20/23 11:10	1/23/23 13:15		1.015	5.64	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>						
* Boron, Dissolved	1/20/23 08:03	1/26/23 12:17		1.015	0.0609	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	1/20/23 08:03	1/26/23 12:17		1.015	13.2	mg/L	0.070035	0.406	
* Iron, Dissolved	1/20/23 08:03	1/26/23 12:17		1.015	0.0232	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	1/20/23 08:03	1/26/23 12:17		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	1/20/23 08:03	1/26/23 12:17		1.015	2.28	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	1/20/23 08:03	1/26/23 12:17		1	7.85	mg/L			
* Silicon, Dissolved	1/20/23 08:03	1/26/23 12:17		1.015	3.67	mg/L	0.02030	0.25375	
* Sodium, Dissolved	1/20/23 08:03	1/26/23 12:17		1.015	5.84	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>			
* Antimony, Total	1/20/23 11:10	1/20/23 14:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	1/20/23 11:10	1/20/23 14:40		1.015	0.00819	mg/L	0.006090	0.05075	J
* Arsenic, Total	1/20/23 11:10	1/20/23 14:40		1.015	0.000103	mg/L	0.000081	0.000203	J
* Barium, Total	1/20/23 11:10	1/20/23 14:40		1.015	0.0106	mg/L	0.000508	0.001015	
* Beryllium, Total	1/20/23 11:10	1/20/23 14:40		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	1/20/23 11:10	1/20/23 14:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	1/20/23 11:10	1/20/23 14:40		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	1/20/23 11:10	1/20/23 14:40		1.015	0.00237	mg/L	0.000068	0.000203	
* Lead, Total	1/20/23 11:10	1/20/23 14:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	1/20/23 11:10	1/20/23 14:40		1.015	0.282	mg/L	0.000152	0.001015	
* Molybdenum, Total	1/20/23 11:10	1/20/23 14:40		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	1/20/23 11:10	1/20/23 14:40		1.015	0.253	mg/L	0.169505	0.5075	J

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-11

**Location Code:** WMWGASG  
**Collected:** 1/18/23 12:05  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01220

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	1/20/23 11:10	1/20/23 14:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/20/23 11:10	1/20/23 14:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	1/20/23 08:03	1/20/23 11:55		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	1/20/23 08:03	1/20/23 11:55		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	1/20/23 08:03	1/20/23 11:55		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	1/20/23 08:03	1/20/23 11:55		1.015	0.0102	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	1/20/23 08:03	1/20/23 11:55		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	1/20/23 08:03	1/20/23 11:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	1/20/23 08:03	1/20/23 11:55		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	1/20/23 08:03	1/20/23 11:55		1.015	0.00243	mg/L	0.000068	0.000203	
* Lead, Dissolved	1/20/23 08:03	1/20/23 11:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	1/20/23 08:03	1/20/23 11:55		1.015	0.280	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	1/20/23 08:03	2/8/23 11:06		1.015	0.000853	mg/L	0.000102	0.000203	
* Potassium, Dissolved	1/20/23 08:03	1/20/23 11:55		1.015	0.237	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	1/20/23 08:03	1/20/23 11:55		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	1/20/23 08:03	1/20/23 11:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	1/23/23 12:59	1/23/23 17:32		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	1/20/23 10:35	1/20/23 10:35		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
* Alkalinity to pH 4.5	1/27/23 12:42	1/27/23 15:58		1	34.2	mg CaCO3/L			
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	1/20/23 10:18	1/23/23 13:50		1	68.0	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	1/27/23 12:42	1/27/23 15:58		1	34.2	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	1/27/23 12:42	1/27/23 15:58		1	0.0109	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	1/20/23 12:58	1/20/23 12:58		1	Not Detected	mg/L	1.00	2	U

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-11

**Location Code:** WMWGASG  
**Collected:** 1/18/23 12:05  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01220

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	1/20/23 09:12	1/20/23 09:12		1	14.6	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	1/20/23 11:02	1/20/23 11:02		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	1/24/23 10:33	1/24/23 10:33		1	2.95	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	1/18/23 12:01	1/18/23 12:01			129.91	uS/cm			FA
pH	1/18/23 12:01	1/18/23 12:01			5.77	SU			FA
Temperature	1/18/23 12:01	1/18/23 12:01			21.44	C			FA
Turbidity	1/18/23 12:01	1/18/23 12:01			0.3	NTU			FA
Sulfide	1/18/23 12:01	1/18/23 12:01			0	mg/L			FA

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/18/23 12:05  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-11

**Laboratory ID Number:** BD01220

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec
				Limit					Standard	Limit	Rec	Limit	
BD01220	Aluminum, Dissolved	mg/L	0.0000964	0.0132	0.100	0.0975	0.0967	0.0936	0.0850 to 0.115	97.5	70.0 to 130	0.824	20.0
BD01220	Aluminum, Total	mg/L	0.000698	0.0132	0.100	0.104	0.106	0.0945	0.0850 to 0.115	95.8	70.0 to 130	1.90	20.0
BD01220	Antimony, Dissolved	mg/L	0.000485	0.00100	0.100	0.0953	0.0959	0.0907	0.0850 to 0.115	95.3	70.0 to 130	0.628	20.0
BD01220	Antimony, Total	mg/L	0.000562	0.00100	0.100	0.103	0.102	0.0934	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD01220	Arsenic, Dissolved	mg/L	0.0000011	0.000176	0.100	0.0926	0.0920	0.0935	0.0850 to 0.115	92.6	70.0 to 130	0.650	20.0
BD01220	Arsenic, Total	mg/L	0.0000062	0.000176	0.100	0.0932	0.0941	0.0930	0.0850 to 0.115	93.1	70.0 to 130	0.961	20.0
BD01220	Barium, Dissolved	mg/L	0.0000176	0.00100	0.100	0.0983	0.0988	0.0948	0.0850 to 0.115	88.1	70.0 to 130	0.507	20.0
BD01220	Barium, Total	mg/L	-0.0000001	0.00100	0.100	0.104	0.106	0.0918	0.0850 to 0.115	93.4	70.0 to 130	1.90	20.0
BD01220	Beryllium, Dissolved	mg/L	0.0000000	0.000880	0.100	0.0941	0.0932	0.0952	0.0850 to 0.115	94.1	70.0 to 130	0.961	20.0
BD01220	Beryllium, Total	mg/L	0.0000000	0.000880	0.100	0.0955	0.0980	0.0949	0.0850 to 0.115	95.5	70.0 to 130	2.58	20.0
BD01220	Boron, Dissolved	mg/L	0.00249	0.0650	1.00	1.05	1.06	0.998	0.850 to 1.15	98.9	70.0 to 130	0.948	20.0
BD01220	Boron, Total	mg/L	0.00195	0.0650	1.00	1.06	1.06	0.983	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BD01220	Cadmium, Dissolved	mg/L	-0.0000069	0.000147	0.100	0.0935	0.0908	0.0950	0.0850 to 0.115	93.5	70.0 to 130	2.93	20.0
BD01220	Cadmium, Total	mg/L	-0.0000069	0.000147	0.100	0.0915	0.0908	0.0920	0.0850 to 0.115	91.5	70.0 to 130	0.768	20.0
BD01220	Calcium, Dissolved	mg/L	-0.00432	0.152	5.00	18.2	18.1	5.15	4.25 to 5.75	100	70.0 to 130	0.551	20.0
BD01220	Calcium, Total	mg/L	-0.00327	0.152	5.00	18.7	18.7	5.14	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BD01220	Chloride	mg/L	-0.0232	1.00	10.0	24.9	25.6	10.7	9.00 to 11.0	103	80.0 to 120	2.77	20.0
BD01220	Chromium, Dissolved	mg/L	0.0000328	0.000440	0.100	0.0948	0.0937	0.0962	0.0850 to 0.115	94.8	70.0 to 130	1.17	20.0
BD01220	Chromium, Total	mg/L	0.0000316	0.000440	0.100	0.0953	0.0953	0.0946	0.0850 to 0.115	95.3	70.0 to 130	0.00	20.0
BD01220	Cobalt, Dissolved	mg/L	0.0000003	0.000147	0.100	0.101	0.0989	0.100	0.0850 to 0.115	98.6	70.0 to 130	2.10	20.0
BD01220	Cobalt, Total	mg/L	-0.0000025	0.000147	0.100	0.100	0.100	0.0978	0.0850 to 0.115	97.6	70.0 to 130	0.00	20.0
BD01220	Fluoride	mg/L	0.0307	0.125	2.50	2.47	2.54	2.49	2.25 to 2.75	98.8	80.0 to 120	2.79	20.0
BD01220	Iron, Dissolved	mg/L	-0.000588	0.0176	0.2	0.227	0.229	0.211	0.170 to 0.230	102	70.0 to 130	0.877	20.0
BD01220	Iron, Total	mg/L	-0.000137	0.0176	0.2	0.225	0.224	0.203	0.170 to 0.230	103	70.0 to 130	0.445	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/18/23 12:05  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-11

**Laboratory ID Number:** BD01220

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD01220	Lead, Dissolved	mg/L	0.0000120	0.000147	0.100	0.0981	0.0974	0.103	0.0850 to 0.115	98.1	70.0 to 130	0.716	20.0
BD01220	Lead, Total	mg/L	0.0000031	0.000147	0.100	0.0984	0.0974	0.0965	0.0850 to 0.115	98.4	70.0 to 130	1.02	20.0
BD01220	Lithium, Dissolved	mg/L	4.150E-05	0.0154	0.200	0.201	0.203	0.199	0.170 to 0.230	100	70.0 to 130	0.990	20.0
BD01220	Lithium, Total	mg/L	-7.200E-05	0.0154	0.200	0.202	0.200	0.194	0.170 to 0.230	101	70.0 to 130	0.995	20.0
BD01220	Magnesium, Dissolved	mg/L	-0.00595	0.0462	5.00	7.33	7.35	5.16	4.25 to 5.75	101	70.0 to 130	0.272	20.0
BD01220	Magnesium, Total	mg/L	-0.00486	0.0462	5.00	7.45	7.49	5.12	4.25 to 5.75	101	70.0 to 130	0.535	20.0
BD01220	Manganese, Dissolved	mg/L	0.0000386	0.00033	0.100	0.372	0.367	0.0979	0.0850 to 0.115	92.0	70.0 to 130	1.35	20.0
BD01220	Manganese, Total	mg/L	0.0000265	0.00033	0.100	0.376	0.372	0.0962	0.0850 to 0.115	94.0	70.0 to 130	1.07	20.0
BD01220	Mercury, Total by CVAA	mg/L	-1.000E-05	0.000500	0.004	0.00392	0.00392	0.0039	0.00340 to 0.00460	98.0	70.0 to 130	0.00	20.0
BD01220	Molybdenum, Dissolved	mg/L	0.0000085	0.0002	0.100	0.0964	0.0960	0.0964	0.0850 to 0.115	95.5	70.0 to 130	0.416	20.0
BD01220	Molybdenum, Total	mg/L	0.0000152	0.0002	0.100	0.0954	0.0940	0.0948	0.0850 to 0.115	95.4	70.0 to 130	1.48	20.0
BD01220	Potassium, Dissolved	mg/L	0.0104	0.367	10.0	9.56	9.57	9.58	8.50 to 11.5	93.2	70.0 to 130	0.105	20.0
BD01220	Potassium, Total	mg/L	0.0110	0.367	10.0	9.84	9.70	9.43	8.50 to 11.5	95.9	70.0 to 130	1.43	20.0
BD01220	Selenium, Dissolved	mg/L	0.0000656	0.00100	0.100	0.0945	0.0946	0.0954	0.0850 to 0.115	94.5	70.0 to 130	0.106	20.0
BD01220	Selenium, Total	mg/L	0.0000430	0.00100	0.100	0.0952	0.0927	0.0931	0.0850 to 0.115	95.2	70.0 to 130	2.66	20.0
BD01220	Silicon, Dissolved	mg/L	0.00157	0.0440	1.00	4.73	4.71	1.06	0.850 to 1.15	106	70.0 to 130	0.424	20.0
BD01220	Silicon, Total	mg/L	6.140E-05	0.0440	1.00	4.66	4.65	1.03	0.850 to 1.15	100	70.0 to 130	0.215	20.0
BD01220	Sodium, Dissolved	mg/L	-6.280E-05	0.0660	5.00	11.2	11.2	5.11	4.25 to 5.75	107	70.0 to 130	0.00	20.0
BD01220	Sodium, Total	mg/L	0.00647	0.0660	5.00	10.8	10.7	4.93	4.25 to 5.75	103	70.0 to 130	0.930	20.0
BD01220	Sulfate	mg/L	0.0479	2.0	20.0	22.8	23.0	19.8	18.0 to 22.0	99.2	80.0 to 120	0.873	20.0
BD01220	Thallium, Dissolved	mg/L	0.0000089	0.000147	0.100	0.102	0.103	0.106	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD01220	Thallium, Total	mg/L	0.0000042	0.000147	0.100	0.100	0.101	0.0989	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD01220	Total Organic Carbon	mg/L	-0.0342	1.00	10.0	11.3	11.5	10.9		113	80.0 to 120	1.75	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



## Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/18/23 12:05  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-11

**Laboratory ID Number:** BD01220

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01228	Alkalinity to pH 4.5	mg CaCO3/L					254	50.8	45.0 to 55.0			1.59	10.0
BD01220	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.08	0.002	1.89	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD01219	Solids, Dissolved	mg/L	1.00	25.0			270	50.0	40.0 to 60.0			1.49	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-12

**Location Code:** WMWGASG  
**Collected:** 1/18/23 13:13  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01221

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	1/20/23 11:10	1/23/23 13:32		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	1/20/23 11:10	1/23/23 15:19		10.15	83.3	mg/L	0.70035	4.06	
* Iron, Total	1/20/23 11:10	1/23/23 13:32		1.015	0.0208	mg/L	0.008120	0.0406	J
* Lithium, Total	1/20/23 11:10	1/23/23 13:32		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	1/20/23 11:10	1/23/23 13:32		1.015	10.9	mg/L	0.021315	0.406	
* Silica, Total (calc.)	1/20/23 11:10	1/23/23 13:32		1	8.02	mg/L			
* Silicon, Total	1/20/23 11:10	1/23/23 13:32		1.015	3.75	mg/L	0.02030	0.25375	
* Sodium, Total	1/20/23 11:10	1/23/23 13:32		1.015	4.29	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	1/20/23 08:03	1/26/23 12:34		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	1/20/23 08:03	1/27/23 12:35		10.15	87.5	mg/L	0.70035	4.06	
* Iron, Dissolved	1/20/23 08:03	1/26/23 12:34		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	1/20/23 08:03	1/26/23 12:34		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	1/20/23 08:03	1/26/23 12:34		1.015	11.0	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	1/20/23 08:03	1/26/23 12:34		1	8.15	mg/L			
* Silicon, Dissolved	1/20/23 08:03	1/26/23 12:34		1.015	3.81	mg/L	0.02030	0.25375	
* Sodium, Dissolved	1/20/23 08:03	1/26/23 12:34		1.015	4.37	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	1/20/23 11:10	1/20/23 15:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	1/20/23 11:10	1/20/23 15:02		1.015	0.0127	mg/L	0.006090	0.05075	J
* Arsenic, Total	1/20/23 11:10	1/20/23 15:02		1.015	0.000254	mg/L	0.000081	0.000203	
* Barium, Total	1/20/23 11:10	1/20/23 15:02		1.015	0.0223	mg/L	0.000508	0.001015	
* Beryllium, Total	1/20/23 11:10	1/20/23 15:02		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	1/20/23 11:10	1/20/23 15:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	1/20/23 11:10	1/20/23 15:02		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	1/20/23 11:10	1/20/23 15:02		1.015	0.000168	mg/L	0.000068	0.000203	J
* Lead, Total	1/20/23 11:10	1/20/23 15:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	1/20/23 11:10	1/20/23 15:02		1.015	0.0828	mg/L	0.000152	0.001015	
* Molybdenum, Total	1/20/23 11:10	1/20/23 15:02		1.015	0.000234	mg/L	0.000102	0.000203	
* Potassium, Total	1/20/23 11:10	1/20/23 15:02		1.015	0.284	mg/L	0.169505	0.5075	J

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-12

**Location Code:** WMWGASG  
**Collected:** 1/18/23 13:13  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01221

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	1/20/23 11:10	1/20/23 15:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/20/23 11:10	1/20/23 15:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	1/20/23 08:03	1/20/23 12:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	1/20/23 08:03	1/20/23 12:16		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	1/20/23 08:03	1/20/23 12:16		1.015	0.000177	mg/L	0.000081	0.000203	J
* Barium, Dissolved	1/20/23 08:03	1/20/23 12:16		1.015	0.0223	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	1/20/23 08:03	1/20/23 12:16		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	1/20/23 08:03	1/20/23 12:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	1/20/23 08:03	1/20/23 12:16		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	1/20/23 08:03	1/20/23 12:16		1.015	0.000167	mg/L	0.000068	0.000203	J
* Lead, Dissolved	1/20/23 08:03	1/20/23 12:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	1/20/23 08:03	1/20/23 12:16		1.015	0.0741	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	1/20/23 08:03	1/20/23 12:16		1.015	0.000302	mg/L	0.000102	0.000203	
* Potassium, Dissolved	1/20/23 08:03	1/20/23 12:16		1.015	0.266	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	1/20/23 08:03	1/20/23 12:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	1/20/23 08:03	1/20/23 12:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	1/23/23 12:59	1/23/23 17:52		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	1/20/23 10:44	1/20/23 10:44		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
* Alkalinity to pH 4.5	1/27/23 12:42	1/27/23 15:58		1	228	mg CaCO3/L			
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	1/20/23 10:18	1/23/23 13:50		1	262	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	1/27/23 12:42	1/27/23 15:58		1	227	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	1/27/23 12:42	1/27/23 15:58		1	1.34	mg CaCO3/L			
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	1/20/23 14:21	1/20/23 14:21		1	Not Detected	mg/L	1.00	2	U

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-12

**Location Code:** WMWGASG  
**Collected:** 1/18/23 13:13  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01221

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	1/20/23 09:27	1/20/23 09:27		1	5.68	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	1/20/23 11:15	1/20/23 11:15		1	0.0913	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	1/24/23 10:48	1/24/23 10:48		1	15.6	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	1/18/23 13:08	1/18/23 13:08			483.51	uS/cm			FA
pH	1/18/23 13:08	1/18/23 13:08			7.11	SU			FA
Temperature	1/18/23 13:08	1/18/23 13:08			20.59	C			FA
Turbidity	1/18/23 13:08	1/18/23 13:08			0.5	NTU			FA
Sulfide	1/18/23 13:08	1/18/23 13:08			0	mg/L			FA

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/18/23 13:13  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-12

**Laboratory ID Number:** BD01221

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD01228	Aluminum, Dissolved	mg/L	0.0000964	0.0132	0.100	0.0972	0.0987	0.0936	0.0850 to 0.115	97.2	70.0 to 130	1.53	20.0
BD01229	Aluminum, Total	mg/L	0.000698	0.0132	0.100	0.0981	0.0966	0.0945	0.0850 to 0.115	98.1	70.0 to 130	1.54	20.0
BD01228	Antimony, Dissolved	mg/L	0.000485	0.00100	0.100	0.0910	0.0956	0.0907	0.0850 to 0.115	91.0	70.0 to 130	4.93	20.0
BD01229	Antimony, Total	mg/L	0.000562	0.00100	0.100	0.0924	0.0931	0.0934	0.0850 to 0.115	92.4	70.0 to 130	0.755	20.0
BD01228	Arsenic, Dissolved	mg/L	0.0000011	0.000176	0.100	0.0952	0.0964	0.0935	0.0850 to 0.115	95.0	70.0 to 130	1.25	20.0
BD01229	Arsenic, Total	mg/L	0.0000062	0.000176	0.100	0.0907	0.0925	0.0930	0.0850 to 0.115	90.7	70.0 to 130	1.97	20.0
BD01228	Barium, Dissolved	mg/L	0.0000176	0.00100	0.100	0.126	0.133	0.0948	0.0850 to 0.115	90.0	70.0 to 130	5.41	20.0
BD01229	Barium, Total	mg/L	-0.0000001	0.00100	0.100	0.0909	0.0906	0.0918	0.0850 to 0.115	90.2	70.0 to 130	0.331	20.0
BD01228	Beryllium, Dissolved	mg/L	0.0000000	0.000880	0.100	0.0911	0.0943	0.0952	0.0850 to 0.115	91.1	70.0 to 130	3.45	20.0
BD01229	Beryllium, Total	mg/L	0.0000000	0.000880	0.100	0.0919	0.0924	0.0949	0.0850 to 0.115	91.9	70.0 to 130	0.543	20.0
BD01228	Boron, Dissolved	mg/L	0.00249	0.0650	1.00	1.01	1.00	0.998	0.850 to 1.15	101	70.0 to 130	0.995	20.0
BD01229	Boron, Total	mg/L	0.00195	0.0650	1.00	0.978	0.990	0.983	0.850 to 1.15	97.8	70.0 to 130	1.22	20.0
BD01228	Cadmium, Dissolved	mg/L	-0.0000069	0.000147	0.100	0.0925	0.0963	0.0950	0.0850 to 0.115	92.5	70.0 to 130	4.03	20.0
BD01229	Cadmium, Total	mg/L	-0.0000069	0.000147	0.100	0.0881	0.0925	0.0920	0.0850 to 0.115	88.1	70.0 to 130	4.87	20.0
BD01228	Calcium, Dissolved	mg/L	-0.00432	0.152	5.00	96.7	97.3	5.15	4.25 to 5.75	100	70.0 to 130	0.619	20.0
BD01229	Calcium, Total	mg/L	-0.00327	0.152	5.00	5.12	5.11	5.14	4.25 to 5.75	102	70.0 to 130	0.196	20.0
BD01229	Chloride	mg/L	0.0161	1.00	10.0	11.0	11.0	10.8	9.00 to 11.0	110	80.0 to 120	0.00	20.0
BD01228	Chromium, Dissolved	mg/L	0.0000328	0.000440	0.100	0.0937	0.0962	0.0962	0.0850 to 0.115	93.3	70.0 to 130	2.63	20.0
BD01229	Chromium, Total	mg/L	0.0000316	0.000440	0.100	0.0933	0.0926	0.0946	0.0850 to 0.115	93.3	70.0 to 130	0.753	20.0
BD01228	Cobalt, Dissolved	mg/L	0.0000003	0.000147	0.100	0.0969	0.0989	0.100	0.0850 to 0.115	96.9	70.0 to 130	2.04	20.0
BD01229	Cobalt, Total	mg/L	-0.0000025	0.000147	0.100	0.0970	0.0963	0.0978	0.0850 to 0.115	97.0	70.0 to 130	0.724	20.0
BD01229	Fluoride	mg/L	0.0183	0.125	2.50	2.58	2.56	2.56	2.25 to 2.75	103	80.0 to 120	0.778	20.0
BD01228	Iron, Dissolved	mg/L	-0.000588	0.0176	0.2	0.205	0.204	0.211	0.170 to 0.230	96.8	70.0 to 130	0.489	20.0
BD01229	Iron, Total	mg/L	-0.000137	0.0176	0.2	0.214	0.204	0.203	0.170 to 0.230	107	70.0 to 130	4.78	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/18/23 13:13  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-12

**Laboratory ID Number:** BD01221

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD01228	Lead, Dissolved	mg/L	0.0000120	0.000147	0.100	0.0979	0.102	0.103	0.0850 to 0.115	97.9	70.0 to 130	4.10	20.0
BD01229	Lead, Total	mg/L	0.0000031	0.000147	0.100	0.0979	0.0988	0.0965	0.0850 to 0.115	97.9	70.0 to 130	0.915	20.0
BD01228	Lithium, Dissolved	mg/L	4.150E-05	0.0154	0.200	0.216	0.215	0.199	0.170 to 0.230	108	70.0 to 130	0.464	20.0
BD01229	Lithium, Total	mg/L	-7.200E-05	0.0154	0.200	0.196	0.196	0.194	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BD01228	Magnesium, Dissolved	mg/L	-0.00595	0.0462	5.00	16.4	16.3	5.16	4.25 to 5.75	100	70.0 to 130	0.612	20.0
BD01229	Magnesium, Total	mg/L	-0.00486	0.0462	5.00	5.09	5.08	5.12	4.25 to 5.75	102	70.0 to 130	0.197	20.0
BD01228	Manganese, Dissolved	mg/L	0.0000386	0.00033	0.100	0.0961	0.101	0.0979	0.0850 to 0.115	96.1	70.0 to 130	4.97	20.0
BD01229	Manganese, Total	mg/L	0.0000265	0.00033	0.100	0.0963	0.0945	0.0962	0.0850 to 0.115	96.3	70.0 to 130	1.89	20.0
BD01228	Mercury, Total by CVAA	mg/L	-1.000E-05	0.000500	0.004	0.00388	0.00373	0.0039	0.00340 to 0.00460	97.0	70.0 to 130	3.94	20.0
BD01228	Molybdenum, Dissolved	mg/L	0.0000085	0.0002	0.100	0.0981	0.0989	0.0964	0.0850 to 0.115	96.7	70.0 to 130	0.812	20.0
BD01229	Molybdenum, Total	mg/L	0.0000152	0.0002	0.100	0.0927	0.0929	0.0948	0.0850 to 0.115	92.7	70.0 to 130	0.216	20.0
BD01228	Potassium, Dissolved	mg/L	0.0104	0.367	10.0	10.2	10.7	9.58	8.50 to 11.5	93.0	70.0 to 130	4.78	20.0
BD01229	Potassium, Total	mg/L	0.0110	0.367	10.0	9.42	9.33	9.43	8.50 to 11.5	94.2	70.0 to 130	0.960	20.0
BD01228	Selenium, Dissolved	mg/L	0.0000656	0.00100	0.100	0.0976	0.101	0.0954	0.0850 to 0.115	97.6	70.0 to 130	3.42	20.0
BD01229	Selenium, Total	mg/L	0.0000430	0.00100	0.100	0.0946	0.0930	0.0931	0.0850 to 0.115	94.6	70.0 to 130	1.71	20.0
BD01228	Silicon, Dissolved	mg/L	0.00157	0.0440	1.00	5.75	5.70	1.06	0.850 to 1.15	106	70.0 to 130	0.873	20.0
BD01229	Silicon, Total	mg/L	6.140E-05	0.0440	1.00	1.03	1.03	1.03	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BD01228	Sodium, Dissolved	mg/L	-6.280E-05	0.0660	5.00	8.76	8.72	5.11	4.25 to 5.75	111	70.0 to 130	0.458	20.0
BD01229	Sodium, Total	mg/L	0.00647	0.0660	5.00	4.87	4.89	4.93	4.25 to 5.75	97.4	70.0 to 130	0.410	20.0
BD01229	Sulfate	mg/L	-0.162	2.0	20.0	20.1	19.5	19.8	18.0 to 22.0	100	80.0 to 120	3.03	20.0
BD01228	Thallium, Dissolved	mg/L	0.0000089	0.000147	0.100	0.104	0.106	0.106	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BD01229	Thallium, Total	mg/L	0.0000042	0.000147	0.100	0.101	0.103	0.0989	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD01229	Total Organic Carbon	mg/L	-0.0451	1.00	10.0	10.3	10.6	10.1		103	80.0 to 120	2.87	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/18/23 13:13  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-12

**Laboratory ID Number:** BD01221

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01228	Alkalinity to pH 4.5	mg CaCO3/L					254	50.8	45.0 to 55.0			1.59	10.0
BD01229	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.96	-0.039	1.93	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BD01228	Solids, Dissolved	mg/L	1.00	25.0			280	50.0	40.0 to 60.0			0.00	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum Field Blank-1

**Location Code:** WMWGASGFB  
**Collected:** 1/18/23 13:40  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01222

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	1/20/23 11:10	1/23/23 13:36		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	1/20/23 11:10	1/23/23 13:36		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	1/20/23 11:10	1/23/23 13:36		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	1/20/23 11:10	1/23/23 13:36		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	1/20/23 11:10	1/23/23 13:36		1.015	Not Detected	mg/L	0.021315	0.406	U
* Silica, Total (calc.)	1/20/23 11:10	1/23/23 13:36		1	Not Detected	mg/L			
* Silicon, Total	1/20/23 11:10	1/23/23 13:36		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	1/20/23 11:10	1/23/23 13:36		1.015	Not Detected	mg/L	0.03045	0.406	U
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	1/20/23 11:10	1/20/23 15:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	1/20/23 11:10	1/20/23 15:05		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Total	1/20/23 11:10	1/20/23 15:05		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	1/20/23 11:10	1/20/23 15:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	1/20/23 11:10	1/20/23 15:05		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	1/20/23 11:10	1/20/23 15:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	1/20/23 11:10	1/20/23 15:05		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	1/20/23 11:10	1/20/23 15:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	1/20/23 11:10	1/20/23 15:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	1/20/23 11:10	1/20/23 15:05		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Molybdenum, Total	1/20/23 11:10	1/20/23 15:05		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	1/20/23 11:10	1/20/23 15:05		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	1/20/23 11:10	1/20/23 15:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/20/23 11:10	1/20/23 15:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>			<b>Analyst: CRB</b>						
* Mercury, Total by CVAA	1/23/23 12:59	1/23/23 17:56		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>			<b>Analyst: SC</b>						
* Nitrogen, Nitrate/Nitrite	1/20/23 10:46	1/20/23 10:46		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2540C</b>			<b>Analyst: CNJ</b>						
* Solids, Dissolved	1/20/23 10:18	1/23/23 13:50		1	Not Detected	mg/L		25	U

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Gaston Gypsum Field Blank-1

**Location Code:** WMWGASGFB

**Collected:** 1/18/23 13:40

**Customer ID:**

**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01222

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	1/20/23 14:35	1/20/23 14:35		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	1/20/23 09:28	1/20/23 09:28		1	Not Detected	mg/L	0.50	1	U
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	1/20/23 11:16	1/20/23 11:16		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	1/24/23 10:49	1/24/23 10:49		1	Not Detected	mg/L	0.6	2	U

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

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**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASGFB  
**Sample Date:** 1/18/23 13:40  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum Field Blank-1

**Laboratory ID Number:** BD01222

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD01229	Aluminum, Total	mg/L	0.000698	0.0132	0.100	0.0981	0.0966	0.0945	0.0850 to 0.115	98.1	70.0 to 130	1.54	20.0
BD01229	Antimony, Total	mg/L	0.000562	0.00100	0.100	0.0924	0.0931	0.0934	0.0850 to 0.115	92.4	70.0 to 130	0.755	20.0
BD01229	Arsenic, Total	mg/L	0.0000062	0.000176	0.100	0.0907	0.0925	0.0930	0.0850 to 0.115	90.7	70.0 to 130	1.97	20.0
BD01229	Barium, Total	mg/L	-0.0000001	0.00100	0.100	0.0909	0.0906	0.0918	0.0850 to 0.115	90.2	70.0 to 130	0.331	20.0
BD01229	Beryllium, Total	mg/L	0.0000000	0.000880	0.100	0.0919	0.0924	0.0949	0.0850 to 0.115	91.9	70.0 to 130	0.543	20.0
BD01229	Boron, Total	mg/L	0.00195	0.0650	1.00	0.978	0.990	0.983	0.850 to 1.15	97.8	70.0 to 130	1.22	20.0
BD01229	Cadmium, Total	mg/L	-0.0000069	0.000147	0.100	0.0881	0.0925	0.0920	0.0850 to 0.115	88.1	70.0 to 130	4.87	20.0
BD01229	Calcium, Total	mg/L	-0.00327	0.152	5.00	5.12	5.11	5.14	4.25 to 5.75	102	70.0 to 130	0.196	20.0
BD01229	Chloride	mg/L	0.0161	1.00	10.0	11.0	11.0	10.8	9.00 to 11.0	110	80.0 to 120	0.00	20.0
BD01229	Chromium, Total	mg/L	0.0000316	0.000440	0.100	0.0933	0.0926	0.0946	0.0850 to 0.115	93.3	70.0 to 130	0.753	20.0
BD01229	Cobalt, Total	mg/L	-0.0000025	0.000147	0.100	0.0970	0.0963	0.0978	0.0850 to 0.115	97.0	70.0 to 130	0.724	20.0
BD01229	Fluoride	mg/L	0.0183	0.125	2.50	2.58	2.56	2.56	2.25 to 2.75	103	80.0 to 120	0.778	20.0
BD01229	Iron, Total	mg/L	-0.000137	0.0176	0.2	0.214	0.204	0.203	0.170 to 0.230	107	70.0 to 130	4.78	20.0
BD01229	Lead, Total	mg/L	0.0000031	0.000147	0.100	0.0979	0.0988	0.0965	0.0850 to 0.115	97.9	70.0 to 130	0.915	20.0
BD01229	Lithium, Total	mg/L	-7.200E-05	0.0154	0.200	0.196	0.196	0.194	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BD01229	Magnesium, Total	mg/L	-0.00486	0.0462	5.00	5.09	5.08	5.12	4.25 to 5.75	102	70.0 to 130	0.197	20.0
BD01229	Manganese, Total	mg/L	0.0000265	0.00033	0.100	0.0963	0.0945	0.0962	0.0850 to 0.115	96.3	70.0 to 130	1.89	20.0
BD01228	Mercury, Total by CVAA	mg/L	-1.000E-05	0.000500	0.004	0.00388	0.00373	0.0039	0.00340 to 0.00460	97.0	70.0 to 130	3.94	20.0
BD01229	Molybdenum, Total	mg/L	0.0000152	0.0002	0.100	0.0927	0.0929	0.0948	0.0850 to 0.115	92.7	70.0 to 130	0.216	20.0
BD01229	Potassium, Total	mg/L	0.0110	0.367	10.0	9.42	9.33	9.43	8.50 to 11.5	94.2	70.0 to 130	0.960	20.0
BD01229	Selenium, Total	mg/L	0.0000430	0.00100	0.100	0.0946	0.0930	0.0931	0.0850 to 0.115	94.6	70.0 to 130	1.71	20.0
BD01229	Silicon, Total	mg/L	6.140E-05	0.0440	1.00	1.03	1.03	1.03	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BD01229	Sodium, Total	mg/L	0.00647	0.0660	5.00	4.87	4.89	4.93	4.25 to 5.75	97.4	70.0 to 130	0.410	20.0
BD01229	Sulfate	mg/L	-0.162	2.0	20.0	20.1	19.5	19.8	18.0 to 22.0	100	80.0 to 120	3.03	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASGFB

**Sample Date:** 1/18/23 13:40

**Customer ID:**

**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum Field Blank-1

**Laboratory ID Number:** BD01222

Sample	Analysis	Units	MB	MB				MSD	Standard		Rec		Prec	Limit	
				Limit	Spike	MS	Standard		Limit	Rec	Limit	Prec			
BD01229	Thallium, Total	mg/L	0.0000042	0.000147	0.100	0.101	0.103	0.0989	0.0850 to 0.115		101	70.0 to 130		1.96	20.0
BD01229	Total Organic Carbon	mg/L	-0.0451	1.00	10.0	10.3	10.6	10.1			103	80.0 to 120		2.87	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGASGFB

**Sample Date:** 1/18/23 13:40

**Customer ID:**

**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum Field Blank-1

**Laboratory ID Number:** BD01222

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01229	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.96	-0.039	1.93	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BD01228	Solids, Dissolved	mg/L	1.00	25.0			280	50.0	40.0 to 60.0			0.00	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-2

**Location Code:** WMWGASG  
**Collected:** 1/17/23 13:29  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01223

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	1/20/23 11:10	1/23/23 13:39		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	1/20/23 11:10	1/23/23 15:23		10.15	83.4	mg/L	0.70035	4.06	
* Iron, Total	1/20/23 11:10	1/23/23 13:39		1.015	0.00907	mg/L	0.008120	0.0406	J
* Lithium, Total	1/20/23 11:10	1/23/23 13:39		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	1/20/23 11:10	1/23/23 13:39		1.015	19.9	mg/L	0.021315	0.406	
* Silica, Total (calc.)	1/20/23 11:10	1/23/23 13:39		1	11.7	mg/L			
* Silicon, Total	1/20/23 11:10	1/23/23 13:39		1.015	5.46	mg/L	0.02030	0.25375	
* Sodium, Total	1/20/23 11:10	1/23/23 13:39		1.015	2.34	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	1/20/23 08:03	1/26/23 12:37		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	1/20/23 08:03	1/27/23 12:39		10.15	80.6	mg/L	0.70035	4.06	
* Iron, Dissolved	1/20/23 08:03	1/26/23 12:37		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	1/20/23 08:03	1/26/23 12:37		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	1/20/23 08:03	1/26/23 12:37		1.015	19.8	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	1/20/23 08:03	1/26/23 12:37		1	11.9	mg/L			
* Silicon, Dissolved	1/20/23 08:03	1/26/23 12:37		1.015	5.54	mg/L	0.02030	0.25375	
* Sodium, Dissolved	1/20/23 08:03	1/26/23 12:37		1.015	2.36	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	1/20/23 11:10	1/20/23 15:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	1/20/23 11:10	1/20/23 15:09		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Total	1/20/23 11:10	1/20/23 15:09		1.015	0.000132	mg/L	0.000081	0.000203	J
* Barium, Total	1/20/23 11:10	1/20/23 15:09		1.015	0.0363	mg/L	0.000508	0.001015	
* Beryllium, Total	1/20/23 11:10	1/20/23 15:09		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	1/20/23 11:10	1/20/23 15:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	1/20/23 11:10	1/20/23 15:09		1.015	0.000325	mg/L	0.000203	0.001015	J
* Cobalt, Total	1/20/23 11:10	1/20/23 15:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	1/20/23 11:10	1/20/23 15:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	1/20/23 11:10	1/20/23 15:09		1.015	0.00101	mg/L	0.000152	0.001015	J
* Molybdenum, Total	1/20/23 11:10	1/20/23 15:09		1.015	0.000294	mg/L	0.000102	0.000203	
* Potassium, Total	1/20/23 11:10	1/20/23 15:09		1.015	0.471	mg/L	0.169505	0.5075	J

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-2

**Location Code:** WMWGASG  
**Collected:** 1/17/23 13:29  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01223

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	1/20/23 11:10	1/20/23 15:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/20/23 11:10	1/20/23 15:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	1/20/23 08:03	1/20/23 12:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	1/20/23 08:03	1/20/23 12:20		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	1/20/23 08:03	1/20/23 12:20		1.015	0.000149	mg/L	0.000081	0.000203	J
* Barium, Dissolved	1/20/23 08:03	1/20/23 12:20		1.015	0.0334	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	1/20/23 08:03	1/20/23 12:20		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	1/20/23 08:03	1/20/23 12:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	1/20/23 08:03	1/20/23 12:20		1.015	0.000303	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	1/20/23 08:03	1/20/23 12:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	1/20/23 08:03	1/20/23 12:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	1/20/23 08:03	1/20/23 12:20		1.015	0.000236	mg/L	0.000152	0.001015	J
* Molybdenum, Dissolved	1/20/23 08:03	1/20/23 12:20		1.015	0.00108	mg/L	0.000102	0.000203	
* Potassium, Dissolved	1/20/23 08:03	1/20/23 12:20		1.015	0.444	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	1/20/23 08:03	1/20/23 12:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	1/20/23 08:03	1/20/23 12:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	1/23/23 12:59	1/23/23 18:00		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	1/20/23 10:48	1/20/23 10:48		1	0.375	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
* Alkalinity to pH 4.5	1/27/23 12:42	1/27/23 15:58		1	270	mg CaCO3/L			
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	1/20/23 10:18	1/23/23 13:50		1	270	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	1/27/23 12:42	1/27/23 15:58		1	268	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	1/27/23 12:42	1/27/23 15:58		1	1.52	mg CaCO3/L			
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	1/20/23 14:51	1/20/23 14:51		1	Not Detected	mg/L	1.00	2	U

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-2

**Location Code:** WMWGASG  
**Collected:** 1/17/23 13:29  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01223

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	1/20/23 09:29	1/20/23 09:29		1	4.76	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	1/20/23 11:17	1/20/23 11:17		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	1/24/23 10:51	1/24/23 10:51		1	6.01	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	1/17/23 13:26	1/17/23 13:26			492.94	uS/cm			FA
pH	1/17/23 13:26	1/17/23 13:26			7.14	SU			FA
Temperature	1/17/23 13:26	1/17/23 13:26			19.24	C			FA
Turbidity	1/17/23 13:26	1/17/23 13:26			1.98	NTU			FA
Sulfide	1/17/23 13:26	1/17/23 13:26			0	mg/L			FA

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/17/23 13:29  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-2

**Laboratory ID Number:** BD01223

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD01228	Aluminum, Dissolved	mg/L	0.0000964	0.0132	0.100	0.0972	0.0987	0.0936	0.0850 to 0.115	97.2	70.0 to 130	1.53	20.0
BD01229	Aluminum, Total	mg/L	0.000698	0.0132	0.100	0.0981	0.0966	0.0945	0.0850 to 0.115	98.1	70.0 to 130	1.54	20.0
BD01228	Antimony, Dissolved	mg/L	0.000485	0.00100	0.100	0.0910	0.0956	0.0907	0.0850 to 0.115	91.0	70.0 to 130	4.93	20.0
BD01229	Antimony, Total	mg/L	0.000562	0.00100	0.100	0.0924	0.0931	0.0934	0.0850 to 0.115	92.4	70.0 to 130	0.755	20.0
BD01228	Arsenic, Dissolved	mg/L	0.0000011	0.000176	0.100	0.0952	0.0964	0.0935	0.0850 to 0.115	95.0	70.0 to 130	1.25	20.0
BD01229	Arsenic, Total	mg/L	0.0000062	0.000176	0.100	0.0907	0.0925	0.0930	0.0850 to 0.115	90.7	70.0 to 130	1.97	20.0
BD01228	Barium, Dissolved	mg/L	0.0000176	0.00100	0.100	0.126	0.133	0.0948	0.0850 to 0.115	90.0	70.0 to 130	5.41	20.0
BD01229	Barium, Total	mg/L	-0.0000001	0.00100	0.100	0.0909	0.0906	0.0918	0.0850 to 0.115	90.2	70.0 to 130	0.331	20.0
BD01228	Beryllium, Dissolved	mg/L	0.0000000	0.000880	0.100	0.0911	0.0943	0.0952	0.0850 to 0.115	91.1	70.0 to 130	3.45	20.0
BD01229	Beryllium, Total	mg/L	0.0000000	0.000880	0.100	0.0919	0.0924	0.0949	0.0850 to 0.115	91.9	70.0 to 130	0.543	20.0
BD01228	Boron, Dissolved	mg/L	0.00249	0.0650	1.00	1.01	1.00	0.998	0.850 to 1.15	101	70.0 to 130	0.995	20.0
BD01229	Boron, Total	mg/L	0.00195	0.0650	1.00	0.978	0.990	0.983	0.850 to 1.15	97.8	70.0 to 130	1.22	20.0
BD01228	Cadmium, Dissolved	mg/L	-0.0000069	0.000147	0.100	0.0925	0.0963	0.0950	0.0850 to 0.115	92.5	70.0 to 130	4.03	20.0
BD01229	Cadmium, Total	mg/L	-0.0000069	0.000147	0.100	0.0881	0.0925	0.0920	0.0850 to 0.115	88.1	70.0 to 130	4.87	20.0
BD01228	Calcium, Dissolved	mg/L	-0.00432	0.152	5.00	96.7	97.3	5.15	4.25 to 5.75	100	70.0 to 130	0.619	20.0
BD01229	Calcium, Total	mg/L	-0.00327	0.152	5.00	5.12	5.11	5.14	4.25 to 5.75	102	70.0 to 130	0.196	20.0
BD01229	Chloride	mg/L	0.0161	1.00	10.0	11.0	11.0	10.8	9.00 to 11.0	110	80.0 to 120	0.00	20.0
BD01228	Chromium, Dissolved	mg/L	0.0000328	0.000440	0.100	0.0937	0.0962	0.0962	0.0850 to 0.115	93.3	70.0 to 130	2.63	20.0
BD01229	Chromium, Total	mg/L	0.0000316	0.000440	0.100	0.0933	0.0926	0.0946	0.0850 to 0.115	93.3	70.0 to 130	0.753	20.0
BD01228	Cobalt, Dissolved	mg/L	0.0000003	0.000147	0.100	0.0969	0.0989	0.100	0.0850 to 0.115	96.9	70.0 to 130	2.04	20.0
BD01229	Cobalt, Total	mg/L	-0.0000025	0.000147	0.100	0.0970	0.0963	0.0978	0.0850 to 0.115	97.0	70.0 to 130	0.724	20.0
BD01229	Fluoride	mg/L	0.0183	0.125	2.50	2.58	2.56	2.56	2.25 to 2.75	103	80.0 to 120	0.778	20.0
BD01228	Iron, Dissolved	mg/L	-0.000588	0.0176	0.2	0.205	0.204	0.211	0.170 to 0.230	96.8	70.0 to 130	0.489	20.0
BD01229	Iron, Total	mg/L	-0.000137	0.0176	0.2	0.214	0.204	0.203	0.170 to 0.230	107	70.0 to 130	4.78	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/17/23 13:29  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-2

**Laboratory ID Number:** BD01223

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD01228	Lead, Dissolved	mg/L	0.0000120	0.000147	0.100	0.0979	0.102	0.103	0.0850 to 0.115	97.9	70.0 to 130	4.10	20.0
BD01229	Lead, Total	mg/L	0.0000031	0.000147	0.100	0.0979	0.0988	0.0965	0.0850 to 0.115	97.9	70.0 to 130	0.915	20.0
BD01228	Lithium, Dissolved	mg/L	4.150E-05	0.0154	0.200	0.216	0.215	0.199	0.170 to 0.230	108	70.0 to 130	0.464	20.0
BD01229	Lithium, Total	mg/L	-7.200E-05	0.0154	0.200	0.196	0.196	0.194	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BD01228	Magnesium, Dissolved	mg/L	-0.00595	0.0462	5.00	16.4	16.3	5.16	4.25 to 5.75	100	70.0 to 130	0.612	20.0
BD01229	Magnesium, Total	mg/L	-0.00486	0.0462	5.00	5.09	5.08	5.12	4.25 to 5.75	102	70.0 to 130	0.197	20.0
BD01228	Manganese, Dissolved	mg/L	0.0000386	0.00033	0.100	0.0961	0.101	0.0979	0.0850 to 0.115	96.1	70.0 to 130	4.97	20.0
BD01229	Manganese, Total	mg/L	0.0000265	0.00033	0.100	0.0963	0.0945	0.0962	0.0850 to 0.115	96.3	70.0 to 130	1.89	20.0
BD01228	Mercury, Total by CVAA	mg/L	-1.000E-05	0.000500	0.004	0.00388	0.00373	0.0039	0.00340 to 0.00460	97.0	70.0 to 130	3.94	20.0
BD01228	Molybdenum, Dissolved	mg/L	0.0000085	0.0002	0.100	0.0981	0.0989	0.0964	0.0850 to 0.115	96.7	70.0 to 130	0.812	20.0
BD01229	Molybdenum, Total	mg/L	0.0000152	0.0002	0.100	0.0927	0.0929	0.0948	0.0850 to 0.115	92.7	70.0 to 130	0.216	20.0
BD01228	Potassium, Dissolved	mg/L	0.0104	0.367	10.0	10.2	10.7	9.58	8.50 to 11.5	93.0	70.0 to 130	4.78	20.0
BD01229	Potassium, Total	mg/L	0.0110	0.367	10.0	9.42	9.33	9.43	8.50 to 11.5	94.2	70.0 to 130	0.960	20.0
BD01228	Selenium, Dissolved	mg/L	0.0000656	0.00100	0.100	0.0976	0.101	0.0954	0.0850 to 0.115	97.6	70.0 to 130	3.42	20.0
BD01229	Selenium, Total	mg/L	0.0000430	0.00100	0.100	0.0946	0.0930	0.0931	0.0850 to 0.115	94.6	70.0 to 130	1.71	20.0
BD01228	Silicon, Dissolved	mg/L	0.00157	0.0440	1.00	5.75	5.70	1.06	0.850 to 1.15	106	70.0 to 130	0.873	20.0
BD01229	Silicon, Total	mg/L	6.140E-05	0.0440	1.00	1.03	1.03	1.03	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BD01228	Sodium, Dissolved	mg/L	-6.280E-05	0.0660	5.00	8.76	8.72	5.11	4.25 to 5.75	111	70.0 to 130	0.458	20.0
BD01229	Sodium, Total	mg/L	0.00647	0.0660	5.00	4.87	4.89	4.93	4.25 to 5.75	97.4	70.0 to 130	0.410	20.0
BD01229	Sulfate	mg/L	-0.162	2.0	20.0	20.1	19.5	19.8	18.0 to 22.0	100	80.0 to 120	3.03	20.0
BD01228	Thallium, Dissolved	mg/L	0.0000089	0.000147	0.100	0.104	0.106	0.106	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BD01229	Thallium, Total	mg/L	0.0000042	0.000147	0.100	0.101	0.103	0.0989	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD01229	Total Organic Carbon	mg/L	-0.0451	1.00	10.0	10.3	10.6	10.1		103	80.0 to 120	2.87	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/17/23 13:29  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-2

**Laboratory ID Number:** BD01223

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01228	Alkalinity to pH 4.5	mg CaCO3/L					254	50.8	45.0 to 55.0			1.59	10.0
BD01229	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.96	-0.039	1.93	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BD01228	Solids, Dissolved	mg/L	1.00	25.0			280	50.0	40.0 to 60.0			0.00	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-14S

**Location Code:** WMWGASG  
**Collected:** 1/17/23 14:42  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01224

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	1/20/23 11:10	1/23/23 13:42		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	1/20/23 11:10	1/23/23 15:33		10.15	54.1	mg/L	0.70035	4.06	
* Iron, Total	1/20/23 11:10	1/23/23 13:42		1.015	0.0436	mg/L	0.008120	0.0406	
* Lithium, Total	1/20/23 11:10	1/23/23 13:42		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	1/20/23 11:10	1/23/23 13:42		1.015	9.90	mg/L	0.021315	0.406	
* Silica, Total (calc.)	1/20/23 11:10	1/23/23 13:42		1	10.3	mg/L			
* Silicon, Total	1/20/23 11:10	1/23/23 13:42		1.015	4.79	mg/L	0.02030	0.25375	
* Sodium, Total	1/20/23 11:10	1/23/23 13:42		1.015	10.5	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	1/20/23 08:03	1/26/23 12:41		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	1/20/23 08:03	1/27/23 12:49		10.15	51.9	mg/L	0.70035	4.06	
* Iron, Dissolved	1/20/23 08:03	1/26/23 12:41		1.015	0.0351	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	1/20/23 08:03	1/26/23 12:41		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	1/20/23 08:03	1/26/23 12:41		1.015	9.88	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	1/20/23 08:03	1/26/23 12:41		1	10.3	mg/L			
* Silicon, Dissolved	1/20/23 08:03	1/26/23 12:41		1.015	4.83	mg/L	0.02030	0.25375	
* Sodium, Dissolved	1/20/23 08:03	1/26/23 12:41		1.015	10.8	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	1/20/23 11:10	1/20/23 15:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	1/20/23 11:10	1/20/23 15:13		1.015	0.0341	mg/L	0.006090	0.05075	J
* Arsenic, Total	1/20/23 11:10	1/20/23 15:13		1.015	0.000122	mg/L	0.000081	0.000203	J
* Barium, Total	1/20/23 11:10	1/20/23 15:13		1.015	0.0201	mg/L	0.000508	0.001015	
* Beryllium, Total	1/20/23 11:10	1/20/23 15:13		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	1/20/23 11:10	1/20/23 15:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	1/20/23 11:10	1/20/23 15:13		1.015	0.000606	mg/L	0.000203	0.001015	J
* Cobalt, Total	1/20/23 11:10	1/20/23 15:13		1.015	0.0000704	mg/L	0.000068	0.000203	J
* Lead, Total	1/20/23 11:10	1/20/23 15:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	1/20/23 11:10	1/20/23 15:13		1.015	0.0158	mg/L	0.000152	0.001015	
* Molybdenum, Total	1/20/23 11:10	1/20/23 15:13		1.015	0.000322	mg/L	0.000102	0.000203	
* Potassium, Total	1/20/23 11:10	1/20/23 15:13		1.015	0.759	mg/L	0.169505	0.5075	

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-14S

**Location Code:** WMWGASG  
**Collected:** 1/17/23 14:42  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01224

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	1/20/23 11:10	1/20/23 15:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/20/23 11:10	1/20/23 15:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	1/20/23 08:03	1/20/23 12:24		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	1/20/23 08:03	1/20/23 12:24		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	1/20/23 08:03	1/20/23 12:24		1.015	0.000151	mg/L	0.000081	0.000203	J
* Barium, Dissolved	1/20/23 08:03	1/20/23 12:24		1.015	0.0205	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	1/20/23 08:03	1/20/23 12:24		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	1/20/23 08:03	1/20/23 12:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	1/20/23 08:03	1/20/23 12:24		1.015	0.000658	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	1/20/23 08:03	1/20/23 12:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	1/20/23 08:03	1/20/23 12:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	1/20/23 08:03	1/20/23 12:24		1.015	0.0166	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	1/20/23 08:03	1/20/23 12:24		1.015	0.00215	mg/L	0.000102	0.000203	
* Potassium, Dissolved	1/20/23 08:03	1/20/23 12:24		1.015	0.739	mg/L	0.169505	0.5075	
* Selenium, Dissolved	1/20/23 08:03	1/20/23 12:24		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	1/20/23 08:03	1/20/23 12:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	1/23/23 12:59	1/23/23 18:03		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	1/20/23 10:49	1/20/23 10:49		1	0.255	mg/L as N	0.20	0.3	J
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
* Alkalinity to pH 4.5	1/27/23 12:42	1/27/23 15:58		1	181	mg CaCO3/L			
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	1/20/23 10:18	1/23/23 13:50		1	189	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	1/27/23 12:42	1/27/23 15:58		1	179	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	1/27/23 12:42	1/27/23 15:58		1	1.72	mg CaCO3/L			
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	1/20/23 15:09	1/20/23 15:09		1	Not Detected	mg/L	1.00	2	U

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-14S

**Location Code:** WMWGASG  
**Collected:** 1/17/23 14:42  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01224

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	1/20/23 09:30	1/20/23 09:30		1	2.58	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	1/20/23 11:18	1/20/23 11:18		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	1/24/23 10:52	1/24/23 10:52		1	2.83	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	1/17/23 14:39	1/17/23 14:39			342.55	uS/cm			FA
pH	1/17/23 14:39	1/17/23 14:39			7.43	SU			FA
Temperature	1/17/23 14:39	1/17/23 14:39			19.57	C			FA
Turbidity	1/17/23 14:39	1/17/23 14:39			2.51	NTU			FA
Sulfide	1/17/23 14:39	1/17/23 14:39			0	mg/L			FA

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/17/23 14:42  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-14S

**Laboratory ID Number:** BD01224

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD01228	Aluminum, Dissolved	mg/L	0.0000964	0.0132	0.100	0.0972	0.0987	0.0936	0.0850 to 0.115	97.2	70.0 to 130	1.53	20.0
BD01229	Aluminum, Total	mg/L	0.000698	0.0132	0.100	0.0981	0.0966	0.0945	0.0850 to 0.115	98.1	70.0 to 130	1.54	20.0
BD01228	Antimony, Dissolved	mg/L	0.000485	0.00100	0.100	0.0910	0.0956	0.0907	0.0850 to 0.115	91.0	70.0 to 130	4.93	20.0
BD01229	Antimony, Total	mg/L	0.000562	0.00100	0.100	0.0924	0.0931	0.0934	0.0850 to 0.115	92.4	70.0 to 130	0.755	20.0
BD01228	Arsenic, Dissolved	mg/L	0.0000011	0.000176	0.100	0.0952	0.0964	0.0935	0.0850 to 0.115	95.0	70.0 to 130	1.25	20.0
BD01229	Arsenic, Total	mg/L	0.0000062	0.000176	0.100	0.0907	0.0925	0.0930	0.0850 to 0.115	90.7	70.0 to 130	1.97	20.0
BD01228	Barium, Dissolved	mg/L	0.0000176	0.00100	0.100	0.126	0.133	0.0948	0.0850 to 0.115	90.0	70.0 to 130	5.41	20.0
BD01229	Barium, Total	mg/L	-0.0000001	0.00100	0.100	0.0909	0.0906	0.0918	0.0850 to 0.115	90.2	70.0 to 130	0.331	20.0
BD01228	Beryllium, Dissolved	mg/L	0.0000000	0.000880	0.100	0.0911	0.0943	0.0952	0.0850 to 0.115	91.1	70.0 to 130	3.45	20.0
BD01229	Beryllium, Total	mg/L	0.0000000	0.000880	0.100	0.0919	0.0924	0.0949	0.0850 to 0.115	91.9	70.0 to 130	0.543	20.0
BD01228	Boron, Dissolved	mg/L	0.00249	0.0650	1.00	1.01	1.00	0.998	0.850 to 1.15	101	70.0 to 130	0.995	20.0
BD01229	Boron, Total	mg/L	0.00195	0.0650	1.00	0.978	0.990	0.983	0.850 to 1.15	97.8	70.0 to 130	1.22	20.0
BD01228	Cadmium, Dissolved	mg/L	-0.0000069	0.000147	0.100	0.0925	0.0963	0.0950	0.0850 to 0.115	92.5	70.0 to 130	4.03	20.0
BD01229	Cadmium, Total	mg/L	-0.0000069	0.000147	0.100	0.0881	0.0925	0.0920	0.0850 to 0.115	88.1	70.0 to 130	4.87	20.0
BD01228	Calcium, Dissolved	mg/L	-0.00432	0.152	5.00	96.7	97.3	5.15	4.25 to 5.75	100	70.0 to 130	0.619	20.0
BD01229	Calcium, Total	mg/L	-0.00327	0.152	5.00	5.12	5.11	5.14	4.25 to 5.75	102	70.0 to 130	0.196	20.0
BD01229	Chloride	mg/L	0.0161	1.00	10.0	11.0	11.0	10.8	9.00 to 11.0	110	80.0 to 120	0.00	20.0
BD01228	Chromium, Dissolved	mg/L	0.0000328	0.000440	0.100	0.0937	0.0962	0.0962	0.0850 to 0.115	93.3	70.0 to 130	2.63	20.0
BD01229	Chromium, Total	mg/L	0.0000316	0.000440	0.100	0.0933	0.0926	0.0946	0.0850 to 0.115	93.3	70.0 to 130	0.753	20.0
BD01228	Cobalt, Dissolved	mg/L	0.0000003	0.000147	0.100	0.0969	0.0989	0.100	0.0850 to 0.115	96.9	70.0 to 130	2.04	20.0
BD01229	Cobalt, Total	mg/L	-0.0000025	0.000147	0.100	0.0970	0.0963	0.0978	0.0850 to 0.115	97.0	70.0 to 130	0.724	20.0
BD01229	Fluoride	mg/L	0.0183	0.125	2.50	2.58	2.56	2.56	2.25 to 2.75	103	80.0 to 120	0.778	20.0
BD01228	Iron, Dissolved	mg/L	-0.000588	0.0176	0.2	0.205	0.204	0.211	0.170 to 0.230	96.8	70.0 to 130	0.489	20.0
BD01229	Iron, Total	mg/L	-0.000137	0.0176	0.2	0.214	0.204	0.203	0.170 to 0.230	107	70.0 to 130	4.78	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/17/23 14:42  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-14S

**Laboratory ID Number:** BD01224

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD01228	Lead, Dissolved	mg/L	0.0000120	0.000147	0.100	0.0979	0.102	0.103	0.0850 to 0.115	97.9	70.0 to 130	4.10	20.0
BD01229	Lead, Total	mg/L	0.0000031	0.000147	0.100	0.0979	0.0988	0.0965	0.0850 to 0.115	97.9	70.0 to 130	0.915	20.0
BD01228	Lithium, Dissolved	mg/L	4.150E-05	0.0154	0.200	0.216	0.215	0.199	0.170 to 0.230	108	70.0 to 130	0.464	20.0
BD01229	Lithium, Total	mg/L	-7.200E-05	0.0154	0.200	0.196	0.196	0.194	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BD01228	Magnesium, Dissolved	mg/L	-0.00595	0.0462	5.00	16.4	16.3	5.16	4.25 to 5.75	100	70.0 to 130	0.612	20.0
BD01229	Magnesium, Total	mg/L	-0.00486	0.0462	5.00	5.09	5.08	5.12	4.25 to 5.75	102	70.0 to 130	0.197	20.0
BD01228	Manganese, Dissolved	mg/L	0.0000386	0.00033	0.100	0.0961	0.101	0.0979	0.0850 to 0.115	96.1	70.0 to 130	4.97	20.0
BD01229	Manganese, Total	mg/L	0.0000265	0.00033	0.100	0.0963	0.0945	0.0962	0.0850 to 0.115	96.3	70.0 to 130	1.89	20.0
BD01228	Mercury, Total by CVAA	mg/L	-1.000E-05	0.000500	0.004	0.00388	0.00373	0.0039	0.00340 to 0.00460	97.0	70.0 to 130	3.94	20.0
BD01228	Molybdenum, Dissolved	mg/L	0.0000085	0.0002	0.100	0.0981	0.0989	0.0964	0.0850 to 0.115	96.7	70.0 to 130	0.812	20.0
BD01229	Molybdenum, Total	mg/L	0.0000152	0.0002	0.100	0.0927	0.0929	0.0948	0.0850 to 0.115	92.7	70.0 to 130	0.216	20.0
BD01228	Potassium, Dissolved	mg/L	0.0104	0.367	10.0	10.2	10.7	9.58	8.50 to 11.5	93.0	70.0 to 130	4.78	20.0
BD01229	Potassium, Total	mg/L	0.0110	0.367	10.0	9.42	9.33	9.43	8.50 to 11.5	94.2	70.0 to 130	0.960	20.0
BD01228	Selenium, Dissolved	mg/L	0.0000656	0.00100	0.100	0.0976	0.101	0.0954	0.0850 to 0.115	97.6	70.0 to 130	3.42	20.0
BD01229	Selenium, Total	mg/L	0.0000430	0.00100	0.100	0.0946	0.0930	0.0931	0.0850 to 0.115	94.6	70.0 to 130	1.71	20.0
BD01228	Silicon, Dissolved	mg/L	0.00157	0.0440	1.00	5.75	5.70	1.06	0.850 to 1.15	106	70.0 to 130	0.873	20.0
BD01229	Silicon, Total	mg/L	6.140E-05	0.0440	1.00	1.03	1.03	1.03	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BD01228	Sodium, Dissolved	mg/L	-6.280E-05	0.0660	5.00	8.76	8.72	5.11	4.25 to 5.75	111	70.0 to 130	0.458	20.0
BD01229	Sodium, Total	mg/L	0.00647	0.0660	5.00	4.87	4.89	4.93	4.25 to 5.75	97.4	70.0 to 130	0.410	20.0
BD01229	Sulfate	mg/L	-0.162	2.0	20.0	20.1	19.5	19.8	18.0 to 22.0	100	80.0 to 120	3.03	20.0
BD01228	Thallium, Dissolved	mg/L	0.0000089	0.000147	0.100	0.104	0.106	0.106	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BD01229	Thallium, Total	mg/L	0.0000042	0.000147	0.100	0.101	0.103	0.0989	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD01229	Total Organic Carbon	mg/L	-0.0451	1.00	10.0	10.3	10.6	10.1		103	80.0 to 120	2.87	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/17/23 14:42  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-14S

**Laboratory ID Number:** BD01224

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01228	Alkalinity to pH 4.5	mg CaCO3/L					254	50.8	45.0 to 55.0			1.59	10.0
BD01229	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.96	-0.039	1.93	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BD01228	Solids, Dissolved	mg/L	1.00	25.0			280	50.0	40.0 to 60.0			0.00	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-15

**Location Code:** WMWGASG  
**Collected:** 1/17/23 15:34  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01225

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	1/20/23 11:10	1/23/23 13:46		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	1/20/23 11:10	1/23/23 13:46		1.015	4.39	mg/L	0.070035	0.406	
* Iron, Total	1/20/23 11:10	1/23/23 13:46		1.015	0.0796	mg/L	0.008120	0.0406	
* Lithium, Total	1/20/23 11:10	1/23/23 13:46		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	1/20/23 11:10	1/23/23 13:46		1.015	0.296	mg/L	0.021315	0.406	J
* Silica, Total (calc.)	1/20/23 11:10	1/23/23 13:46		1	9.93	mg/L			
* Silicon, Total	1/20/23 11:10	1/23/23 13:46		1.015	4.64	mg/L	0.02030	0.25375	
* Sodium, Total	1/20/23 11:10	1/23/23 13:46		1.015	0.949	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	1/20/23 08:03	1/26/23 12:44		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	1/20/23 08:03	1/26/23 12:44		1.015	4.24	mg/L	0.070035	0.406	
* Iron, Dissolved	1/20/23 08:03	1/26/23 12:44		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	1/20/23 08:03	1/26/23 12:44		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	1/20/23 08:03	1/26/23 12:44		1.015	0.282	mg/L	0.021315	0.406	J
* Silica, Dissolved (calc.)	1/20/23 08:03	1/26/23 12:44		1	9.82	mg/L			
* Silicon, Dissolved	1/20/23 08:03	1/26/23 12:44		1.015	4.59	mg/L	0.02030	0.25375	
* Sodium, Dissolved	1/20/23 08:03	1/26/23 12:44		1.015	0.963	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	1/20/23 11:10	1/20/23 15:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	1/20/23 11:10	1/20/23 15:16		1.015	0.126	mg/L	0.006090	0.05075	
* Arsenic, Total	1/20/23 11:10	1/20/23 15:16		1.015	0.000172	mg/L	0.000081	0.000203	J
* Barium, Total	1/20/23 11:10	1/20/23 15:16		1.015	0.00718	mg/L	0.000508	0.001015	
* Beryllium, Total	1/20/23 11:10	1/20/23 15:16		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	1/20/23 11:10	1/20/23 15:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	1/20/23 11:10	1/20/23 15:16		1.015	0.000279	mg/L	0.000203	0.001015	J
* Cobalt, Total	1/20/23 11:10	1/20/23 15:16		1.015	0.000272	mg/L	0.000068	0.000203	
* Lead, Total	1/20/23 11:10	1/20/23 15:16		1.015	0.000176	mg/L	0.000068	0.000203	J
* Manganese, Total	1/20/23 11:10	1/20/23 15:16		1.015	0.0305	mg/L	0.000152	0.001015	
* Molybdenum, Total	1/20/23 11:10	1/20/23 15:16		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	1/20/23 11:10	1/20/23 15:16		1.015	0.262	mg/L	0.169505	0.5075	J

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-15

**Location Code:** WMWGASG  
**Collected:** 1/17/23 15:34  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01225

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	1/20/23 11:10	1/20/23 15:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/20/23 11:10	1/20/23 15:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	1/20/23 08:03	1/20/23 12:27		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	1/20/23 08:03	1/20/23 12:27		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	1/20/23 08:03	1/20/23 12:27		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	1/20/23 08:03	1/20/23 12:27		1.015	0.00648	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	1/20/23 08:03	1/20/23 12:27		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	1/20/23 08:03	1/20/23 12:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	1/20/23 08:03	1/20/23 12:27		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	1/20/23 08:03	1/20/23 12:27		1.015	0.000105	mg/L	0.000068	0.000203	J
* Lead, Dissolved	1/20/23 08:03	1/20/23 12:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	1/20/23 08:03	1/20/23 12:27		1.015	0.0245	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	1/20/23 08:03	2/8/23 11:17		1.015	0.000815	mg/L	0.000102	0.000203	
* Potassium, Dissolved	1/20/23 08:03	1/20/23 12:27		1.015	0.218	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	1/20/23 08:03	1/20/23 12:27		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	1/20/23 08:03	1/20/23 12:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	1/23/23 12:59	1/23/23 18:07		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	1/20/23 10:51	1/20/23 10:51		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
* Alkalinity to pH 4.5	1/27/23 12:42	1/27/23 15:58		1	9.72	mg CaCO3/L			
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	1/20/23 10:18	1/23/23 13:50		1	28.0	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	1/27/23 12:42	1/27/23 15:58		1	9.72	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	1/27/23 12:42	1/27/23 15:58		1	0.00182	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	1/20/23 15:24	1/20/23 15:24		1	Not Detected	mg/L	1.00	2	U

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-15

**Location Code:** WMWGASG  
**Collected:** 1/17/23 15:34  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01225

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	1/20/23 09:31	1/20/23 09:31		1	2.11	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	1/20/23 11:19	1/20/23 11:19		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	1/24/23 10:53	1/24/23 10:53		1	1.99	mg/L	0.6	2	J
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	1/17/23 15:31	1/17/23 15:31			39.20	uS/cm			FA
pH	1/17/23 15:31	1/17/23 15:31			5.74	SU			FA
Temperature	1/17/23 15:31	1/17/23 15:31			19.63	C			FA
Turbidity	1/17/23 15:31	1/17/23 15:31			3.52	NTU			FA
Sulfide	1/17/23 15:31	1/17/23 15:31			0	mg/L			FA

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/17/23 15:34  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-15

**Laboratory ID Number:** BD01225

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD01228	Aluminum, Dissolved	mg/L	0.0000964	0.0132	0.100	0.0972	0.0987	0.0936	0.0850 to 0.115	97.2	70.0 to 130	1.53	20.0
BD01229	Aluminum, Total	mg/L	0.000698	0.0132	0.100	0.0981	0.0966	0.0945	0.0850 to 0.115	98.1	70.0 to 130	1.54	20.0
BD01228	Antimony, Dissolved	mg/L	0.000485	0.00100	0.100	0.0910	0.0956	0.0907	0.0850 to 0.115	91.0	70.0 to 130	4.93	20.0
BD01229	Antimony, Total	mg/L	0.000562	0.00100	0.100	0.0924	0.0931	0.0934	0.0850 to 0.115	92.4	70.0 to 130	0.755	20.0
BD01228	Arsenic, Dissolved	mg/L	0.0000011	0.000176	0.100	0.0952	0.0964	0.0935	0.0850 to 0.115	95.0	70.0 to 130	1.25	20.0
BD01229	Arsenic, Total	mg/L	0.0000062	0.000176	0.100	0.0907	0.0925	0.0930	0.0850 to 0.115	90.7	70.0 to 130	1.97	20.0
BD01228	Barium, Dissolved	mg/L	0.0000176	0.00100	0.100	0.126	0.133	0.0948	0.0850 to 0.115	90.0	70.0 to 130	5.41	20.0
BD01229	Barium, Total	mg/L	-0.0000001	0.00100	0.100	0.0909	0.0906	0.0918	0.0850 to 0.115	90.2	70.0 to 130	0.331	20.0
BD01228	Beryllium, Dissolved	mg/L	0.0000000	0.000880	0.100	0.0911	0.0943	0.0952	0.0850 to 0.115	91.1	70.0 to 130	3.45	20.0
BD01229	Beryllium, Total	mg/L	0.0000000	0.000880	0.100	0.0919	0.0924	0.0949	0.0850 to 0.115	91.9	70.0 to 130	0.543	20.0
BD01228	Boron, Dissolved	mg/L	0.00249	0.0650	1.00	1.01	1.00	0.998	0.850 to 1.15	101	70.0 to 130	0.995	20.0
BD01229	Boron, Total	mg/L	0.00195	0.0650	1.00	0.978	0.990	0.983	0.850 to 1.15	97.8	70.0 to 130	1.22	20.0
BD01228	Cadmium, Dissolved	mg/L	-0.0000069	0.000147	0.100	0.0925	0.0963	0.0950	0.0850 to 0.115	92.5	70.0 to 130	4.03	20.0
BD01229	Cadmium, Total	mg/L	-0.0000069	0.000147	0.100	0.0881	0.0925	0.0920	0.0850 to 0.115	88.1	70.0 to 130	4.87	20.0
BD01228	Calcium, Dissolved	mg/L	-0.00432	0.152	5.00	96.7	97.3	5.15	4.25 to 5.75	100	70.0 to 130	0.619	20.0
BD01229	Calcium, Total	mg/L	-0.00327	0.152	5.00	5.12	5.11	5.14	4.25 to 5.75	102	70.0 to 130	0.196	20.0
BD01229	Chloride	mg/L	0.0161	1.00	10.0	11.0	11.0	10.8	9.00 to 11.0	110	80.0 to 120	0.00	20.0
BD01228	Chromium, Dissolved	mg/L	0.0000328	0.000440	0.100	0.0937	0.0962	0.0962	0.0850 to 0.115	93.3	70.0 to 130	2.63	20.0
BD01229	Chromium, Total	mg/L	0.0000316	0.000440	0.100	0.0933	0.0926	0.0946	0.0850 to 0.115	93.3	70.0 to 130	0.753	20.0
BD01228	Cobalt, Dissolved	mg/L	0.0000003	0.000147	0.100	0.0969	0.0989	0.100	0.0850 to 0.115	96.9	70.0 to 130	2.04	20.0
BD01229	Cobalt, Total	mg/L	-0.0000025	0.000147	0.100	0.0970	0.0963	0.0978	0.0850 to 0.115	97.0	70.0 to 130	0.724	20.0
BD01229	Fluoride	mg/L	0.0183	0.125	2.50	2.58	2.56	2.56	2.25 to 2.75	103	80.0 to 120	0.778	20.0
BD01228	Iron, Dissolved	mg/L	-0.000588	0.0176	0.2	0.205	0.204	0.211	0.170 to 0.230	96.8	70.0 to 130	0.489	20.0
BD01229	Iron, Total	mg/L	-0.000137	0.0176	0.2	0.214	0.204	0.203	0.170 to 0.230	107	70.0 to 130	4.78	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/17/23 15:34  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-15

**Laboratory ID Number:** BD01225

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD01228	Lead, Dissolved	mg/L	0.0000120	0.000147	0.100	0.0979	0.102	0.103	0.0850 to 0.115	97.9	70.0 to 130	4.10	20.0
BD01229	Lead, Total	mg/L	0.0000031	0.000147	0.100	0.0979	0.0988	0.0965	0.0850 to 0.115	97.9	70.0 to 130	0.915	20.0
BD01228	Lithium, Dissolved	mg/L	4.150E-05	0.0154	0.200	0.216	0.215	0.199	0.170 to 0.230	108	70.0 to 130	0.464	20.0
BD01229	Lithium, Total	mg/L	-7.200E-05	0.0154	0.200	0.196	0.196	0.194	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BD01228	Magnesium, Dissolved	mg/L	-0.00595	0.0462	5.00	16.4	16.3	5.16	4.25 to 5.75	100	70.0 to 130	0.612	20.0
BD01229	Magnesium, Total	mg/L	-0.00486	0.0462	5.00	5.09	5.08	5.12	4.25 to 5.75	102	70.0 to 130	0.197	20.0
BD01228	Manganese, Dissolved	mg/L	0.0000386	0.00033	0.100	0.0961	0.101	0.0979	0.0850 to 0.115	96.1	70.0 to 130	4.97	20.0
BD01229	Manganese, Total	mg/L	0.0000265	0.00033	0.100	0.0963	0.0945	0.0962	0.0850 to 0.115	96.3	70.0 to 130	1.89	20.0
BD01228	Mercury, Total by CVAA	mg/L	-1.000E-05	0.000500	0.004	0.00388	0.00373	0.0039	0.00340 to 0.00460	97.0	70.0 to 130	3.94	20.0
BD01228	Molybdenum, Dissolved	mg/L	0.0000085	0.0002	0.100	0.0981	0.0989	0.0964	0.0850 to 0.115	96.7	70.0 to 130	0.812	20.0
BD01229	Molybdenum, Total	mg/L	0.0000152	0.0002	0.100	0.0927	0.0929	0.0948	0.0850 to 0.115	92.7	70.0 to 130	0.216	20.0
BD01228	Potassium, Dissolved	mg/L	0.0104	0.367	10.0	10.2	10.7	9.58	8.50 to 11.5	93.0	70.0 to 130	4.78	20.0
BD01229	Potassium, Total	mg/L	0.0110	0.367	10.0	9.42	9.33	9.43	8.50 to 11.5	94.2	70.0 to 130	0.960	20.0
BD01228	Selenium, Dissolved	mg/L	0.0000656	0.00100	0.100	0.0976	0.101	0.0954	0.0850 to 0.115	97.6	70.0 to 130	3.42	20.0
BD01229	Selenium, Total	mg/L	0.0000430	0.00100	0.100	0.0946	0.0930	0.0931	0.0850 to 0.115	94.6	70.0 to 130	1.71	20.0
BD01228	Silicon, Dissolved	mg/L	0.00157	0.0440	1.00	5.75	5.70	1.06	0.850 to 1.15	106	70.0 to 130	0.873	20.0
BD01229	Silicon, Total	mg/L	6.140E-05	0.0440	1.00	1.03	1.03	1.03	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BD01228	Sodium, Dissolved	mg/L	-6.280E-05	0.0660	5.00	8.76	8.72	5.11	4.25 to 5.75	111	70.0 to 130	0.458	20.0
BD01229	Sodium, Total	mg/L	0.00647	0.0660	5.00	4.87	4.89	4.93	4.25 to 5.75	97.4	70.0 to 130	0.410	20.0
BD01229	Sulfate	mg/L	-0.162	2.0	20.0	20.1	19.5	19.8	18.0 to 22.0	100	80.0 to 120	3.03	20.0
BD01228	Thallium, Dissolved	mg/L	0.0000089	0.000147	0.100	0.104	0.106	0.106	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BD01229	Thallium, Total	mg/L	0.0000042	0.000147	0.100	0.101	0.103	0.0989	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD01229	Total Organic Carbon	mg/L	-0.0451	1.00	10.0	10.3	10.6	10.1		103	80.0 to 120	2.87	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/17/23 15:34  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-15

**Laboratory ID Number:** BD01225

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01228	Alkalinity to pH 4.5	mg CaCO3/L					254	50.8	45.0 to 55.0			1.59	10.0
BD01229	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.96	-0.039	1.93	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BD01228	Solids, Dissolved	mg/L	1.00	25.0			280	50.0	40.0 to 60.0			0.00	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum Field Blank-2

**Location Code:** WMWGASGFB  
**Collected:** 1/18/23 09:00  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01226

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	1/20/23 11:10	1/23/23 13:49		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	1/20/23 11:10	1/23/23 13:49		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	1/20/23 11:10	1/23/23 13:49		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	1/20/23 11:10	1/23/23 13:49		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	1/20/23 11:10	1/23/23 13:49		1.015	Not Detected	mg/L	0.021315	0.406	U
* Silica, Total (calc.)	1/20/23 11:10	1/23/23 13:49		1	Not Detected	mg/L			
* Silicon, Total	1/20/23 11:10	1/23/23 13:49		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	1/20/23 11:10	1/23/23 13:49		1.015	Not Detected	mg/L	0.03045	0.406	U
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	1/20/23 11:10	1/20/23 15:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	1/20/23 11:10	1/20/23 15:20		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Total	1/20/23 11:10	1/20/23 15:20		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	1/20/23 11:10	1/20/23 15:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	1/20/23 11:10	1/20/23 15:20		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	1/20/23 11:10	1/20/23 15:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	1/20/23 11:10	1/20/23 15:20		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	1/20/23 11:10	1/20/23 15:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	1/20/23 11:10	1/20/23 15:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	1/20/23 11:10	1/20/23 15:20		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Molybdenum, Total	1/20/23 11:10	1/20/23 15:20		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	1/20/23 11:10	1/20/23 15:20		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	1/20/23 11:10	1/20/23 15:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/20/23 11:10	1/20/23 15:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>			<b>Analyst: CRB</b>						
* Mercury, Total by CVAA	1/23/23 12:59	1/23/23 18:11		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>			<b>Analyst: SC</b>						
* Nitrogen, Nitrate/Nitrite	1/20/23 10:52	1/20/23 10:52		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2540C</b>			<b>Analyst: CNJ</b>						
* Solids, Dissolved	1/20/23 10:18	1/23/23 13:50		1	Not Detected	mg/L		25	U

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum Field Blank-2

**Location Code:** WMWGASGFB

**Collected:** 1/18/23 09:00

**Customer ID:**

**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01226

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	1/20/23 15:38	1/20/23 15:38		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	1/20/23 09:33	1/20/23 09:33		1	Not Detected	mg/L	0.50	1	U
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	1/20/23 11:21	1/20/23 11:21		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	1/24/23 10:54	1/24/23 10:54		1	Not Detected	mg/L	0.6	2	U

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

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**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGASGFB  
**Sample Date:** 1/18/23 09:00  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum Field Blank-2

**Laboratory ID Number:** BD01226

Sample	Analysis	Units	MB	MB		MS	MSD	Standard	Standard Limit	Rec		Prec Limit	
				Limit	Spike					Rec	Limit		
BD01229	Aluminum, Total	mg/L	0.000698	0.0132	0.100	0.0981	0.0966	0.0945	0.0850 to 0.115	98.1	70.0 to 130	1.54	20.0
BD01229	Antimony, Total	mg/L	0.000562	0.00100	0.100	0.0924	0.0931	0.0934	0.0850 to 0.115	92.4	70.0 to 130	0.755	20.0
BD01229	Arsenic, Total	mg/L	0.0000062	0.000176	0.100	0.0907	0.0925	0.0930	0.0850 to 0.115	90.7	70.0 to 130	1.97	20.0
BD01229	Barium, Total	mg/L	-0.0000001	0.00100	0.100	0.0909	0.0906	0.0918	0.0850 to 0.115	90.2	70.0 to 130	0.331	20.0
BD01229	Beryllium, Total	mg/L	0.0000000	0.000880	0.100	0.0919	0.0924	0.0949	0.0850 to 0.115	91.9	70.0 to 130	0.543	20.0
BD01229	Boron, Total	mg/L	0.00195	0.0650	1.00	0.978	0.990	0.983	0.850 to 1.15	97.8	70.0 to 130	1.22	20.0
BD01229	Cadmium, Total	mg/L	-0.0000069	0.000147	0.100	0.0881	0.0925	0.0920	0.0850 to 0.115	88.1	70.0 to 130	4.87	20.0
BD01229	Calcium, Total	mg/L	-0.00327	0.152	5.00	5.12	5.11	5.14	4.25 to 5.75	102	70.0 to 130	0.196	20.0
BD01229	Chloride	mg/L	0.0161	1.00	10.0	11.0	11.0	10.8	9.00 to 11.0	110	80.0 to 120	0.00	20.0
BD01229	Chromium, Total	mg/L	0.0000316	0.000440	0.100	0.0933	0.0926	0.0946	0.0850 to 0.115	93.3	70.0 to 130	0.753	20.0
BD01229	Cobalt, Total	mg/L	-0.0000025	0.000147	0.100	0.0970	0.0963	0.0978	0.0850 to 0.115	97.0	70.0 to 130	0.724	20.0
BD01229	Fluoride	mg/L	0.0183	0.125	2.50	2.58	2.56	2.56	2.25 to 2.75	103	80.0 to 120	0.778	20.0
BD01229	Iron, Total	mg/L	-0.000137	0.0176	0.2	0.214	0.204	0.203	0.170 to 0.230	107	70.0 to 130	4.78	20.0
BD01229	Lead, Total	mg/L	0.0000031	0.000147	0.100	0.0979	0.0988	0.0965	0.0850 to 0.115	97.9	70.0 to 130	0.915	20.0
BD01229	Lithium, Total	mg/L	-7.200E-05	0.0154	0.200	0.196	0.196	0.194	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BD01229	Magnesium, Total	mg/L	-0.00486	0.0462	5.00	5.09	5.08	5.12	4.25 to 5.75	102	70.0 to 130	0.197	20.0
BD01229	Manganese, Total	mg/L	0.0000265	0.00033	0.100	0.0963	0.0945	0.0962	0.0850 to 0.115	96.3	70.0 to 130	1.89	20.0
BD01228	Mercury, Total by CVAA	mg/L	-1.000E-05	0.000500	0.004	0.00388	0.00373	0.0039	0.00340 to 0.00460	97.0	70.0 to 130	3.94	20.0
BD01229	Molybdenum, Total	mg/L	0.0000152	0.0002	0.100	0.0927	0.0929	0.0948	0.0850 to 0.115	92.7	70.0 to 130	0.216	20.0
BD01229	Potassium, Total	mg/L	0.0110	0.367	10.0	9.42	9.33	9.43	8.50 to 11.5	94.2	70.0 to 130	0.960	20.0
BD01229	Selenium, Total	mg/L	0.0000430	0.00100	0.100	0.0946	0.0930	0.0931	0.0850 to 0.115	94.6	70.0 to 130	1.71	20.0
BD01229	Silicon, Total	mg/L	6.140E-05	0.0440	1.00	1.03	1.03	1.03	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BD01229	Sodium, Total	mg/L	0.00647	0.0660	5.00	4.87	4.89	4.93	4.25 to 5.75	97.4	70.0 to 130	0.410	20.0
BD01229	Sulfate	mg/L	-0.162	2.0	20.0	20.1	19.5	19.8	18.0 to 22.0	100	80.0 to 120	3.03	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASGFB

**Sample Date:** 1/18/23 09:00

**Customer ID:**

**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum Field Blank-2

**Laboratory ID Number:** BD01226

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BD01229	Thallium, Total	mg/L	0.0000042	0.000147	0.100	0.101	0.103	0.0989	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD01229	Total Organic Carbon	mg/L	-0.0451	1.00	10.0	10.3	10.6	10.1		103	80.0 to 120	2.87	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGASGFB

**Sample Date:** 1/18/23 09:00

**Customer ID:**

**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum Field Blank-2

**Laboratory ID Number:** BD01226

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01229	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.96	-0.039	1.93	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BD01228	Solids, Dissolved	mg/L	1.00	25.0			280	50.0	40.0 to 60.0			0.00	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-3

**Location Code:** WMWGASG  
**Collected:** 1/18/23 10:31  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01227

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	1/20/23 11:10	1/23/23 13:53		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	1/20/23 11:10	1/23/23 15:37		10.15	87.9	mg/L	0.70035	4.06		
* Iron, Total	1/20/23 11:10	1/23/23 13:53		1.015	0.0281	mg/L	0.008120	0.0406	J	
* Lithium, Total	1/20/23 11:10	1/23/23 13:53		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	1/20/23 11:10	1/23/23 13:53		1.015	2.75	mg/L	0.021315	0.406		
* Silica, Total (calc.)	1/20/23 11:10	1/23/23 13:53		1	7.64	mg/L				
* Silicon, Total	1/20/23 11:10	1/23/23 13:53		1.015	3.57	mg/L	0.02030	0.25375		
* Sodium, Total	1/20/23 11:10	1/23/23 13:53		1.015	4.44	mg/L	0.03045	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	1/20/23 08:03	1/26/23 12:48		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	1/20/23 08:03	1/27/23 12:52		10.15	79.2	mg/L	0.70035	4.06		
* Iron, Dissolved	1/20/23 08:03	1/26/23 12:48		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	1/20/23 08:03	1/26/23 12:48		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	1/20/23 08:03	1/26/23 12:48		1.015	2.72	mg/L	0.021315	0.406		
* Silica, Dissolved (calc.)	1/20/23 08:03	1/26/23 12:48		1	7.47	mg/L				
* Silicon, Dissolved	1/20/23 08:03	1/26/23 12:48		1.015	3.49	mg/L	0.02030	0.25375		
* Sodium, Dissolved	1/20/23 08:03	1/26/23 12:48		1.015	4.53	mg/L	0.03045	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	1/20/23 11:10	1/20/23 15:23		1.015	0.00195	mg/L	0.000508	0.001015		
* Aluminum, Total	1/20/23 11:10	1/20/23 15:23		1.015	0.0766	mg/L	0.006090	0.05075		
* Arsenic, Total	1/20/23 11:10	1/20/23 15:23		1.015	0.000116	mg/L	0.000081	0.000203	J	
* Barium, Total	1/20/23 11:10	1/20/23 15:23		1.015	0.0213	mg/L	0.000508	0.001015		
* Beryllium, Total	1/20/23 11:10	1/20/23 15:23		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	1/20/23 11:10	1/20/23 15:23		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	1/20/23 11:10	1/20/23 15:23		1.015	0.000409	mg/L	0.000203	0.001015	J	
* Cobalt, Total	1/20/23 11:10	1/20/23 15:23		1.015	0.000528	mg/L	0.000068	0.000203		
* Lead, Total	1/20/23 11:10	1/20/23 15:23		1.015	0.000121	mg/L	0.000068	0.000203	J	
* Manganese, Total	1/20/23 11:10	1/20/23 15:23		1.015	0.109	mg/L	0.000152	0.001015		
* Molybdenum, Total	1/20/23 11:10	1/20/23 15:23		1.015	0.000144	mg/L	0.000102	0.000203	J	
* Potassium, Total	1/20/23 11:10	1/20/23 15:23		1.015	6.30	mg/L	0.169505	0.5075		

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-3

**Location Code:** WMWGASG  
**Collected:** 1/18/23 10:31  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01227

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	1/20/23 11:10	1/20/23 15:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/20/23 11:10	1/20/23 15:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	1/20/23 08:03	1/20/23 12:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	1/20/23 08:03	1/20/23 12:31		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	1/20/23 08:03	1/20/23 12:31		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	1/20/23 08:03	1/20/23 12:31		1.015	0.0201	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	1/20/23 08:03	1/20/23 12:31		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	1/20/23 08:03	1/20/23 12:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	1/20/23 08:03	1/20/23 12:31		1.015	0.000261	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	1/20/23 08:03	1/20/23 12:31		1.015	0.000290	mg/L	0.000068	0.000203	
* Lead, Dissolved	1/20/23 08:03	1/20/23 12:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	1/20/23 08:03	1/20/23 12:31		1.015	0.0843	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	1/20/23 08:03	2/8/23 11:20		1.015	0.00230	mg/L	0.000102	0.000203	
* Potassium, Dissolved	1/20/23 08:03	1/20/23 12:31		1.015	5.99	mg/L	0.169505	0.5075	
* Selenium, Dissolved	1/20/23 08:03	1/20/23 12:31		1.015	0.000549	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	1/20/23 08:03	1/20/23 12:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	1/23/23 12:59	1/23/23 18:15		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	1/20/23 10:53	1/20/23 10:53		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
* Alkalinity to pH 4.5	1/27/23 12:42	1/27/23 15:58		1	223	mg CaCO3/L			
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	1/20/23 10:18	1/23/23 13:50		1	246	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	1/27/23 12:42	1/27/23 15:58		1	222	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	1/27/23 12:42	1/27/23 15:58		1	0.794	mg CaCO3/L			
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	1/20/23 15:50	1/20/23 15:50		1	Not Detected	mg/L	1.00	2	U

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-3

**Location Code:** WMWGASG  
**Collected:** 1/18/23 10:31  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01227

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	1/20/23 09:34	1/20/23 09:34		1	2.84	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	1/20/23 11:22	1/20/23 11:22		1	0.0687	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	1/24/23 10:55	1/24/23 10:55		1	7.56	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	1/18/23 10:28	1/18/23 10:28			425.08	uS/cm			FA
pH	1/18/23 10:28	1/18/23 10:28			6.99	SU			FA
Temperature	1/18/23 10:28	1/18/23 10:28			19.01	C			FA
Turbidity	1/18/23 10:28	1/18/23 10:28			9.31	NTU			FA
Sulfide	1/18/23 10:28	1/18/23 10:28			0	mg/L			FA

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/18/23 10:31  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-3

**Laboratory ID Number:** BD01227

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD01228	Aluminum, Dissolved	mg/L	0.0000964	0.0132	0.100	0.0972	0.0987	0.0936	0.0850 to 0.115	97.2	70.0 to 130	1.53	20.0
BD01229	Aluminum, Total	mg/L	0.000698	0.0132	0.100	0.0981	0.0966	0.0945	0.0850 to 0.115	98.1	70.0 to 130	1.54	20.0
BD01228	Antimony, Dissolved	mg/L	0.000485	0.00100	0.100	0.0910	0.0956	0.0907	0.0850 to 0.115	91.0	70.0 to 130	4.93	20.0
BD01229	Antimony, Total	mg/L	0.000562	0.00100	0.100	0.0924	0.0931	0.0934	0.0850 to 0.115	92.4	70.0 to 130	0.755	20.0
BD01228	Arsenic, Dissolved	mg/L	0.0000011	0.000176	0.100	0.0952	0.0964	0.0935	0.0850 to 0.115	95.0	70.0 to 130	1.25	20.0
BD01229	Arsenic, Total	mg/L	0.0000062	0.000176	0.100	0.0907	0.0925	0.0930	0.0850 to 0.115	90.7	70.0 to 130	1.97	20.0
BD01228	Barium, Dissolved	mg/L	0.0000176	0.00100	0.100	0.126	0.133	0.0948	0.0850 to 0.115	90.0	70.0 to 130	5.41	20.0
BD01229	Barium, Total	mg/L	-0.0000001	0.00100	0.100	0.0909	0.0906	0.0918	0.0850 to 0.115	90.2	70.0 to 130	0.331	20.0
BD01228	Beryllium, Dissolved	mg/L	0.0000000	0.000880	0.100	0.0911	0.0943	0.0952	0.0850 to 0.115	91.1	70.0 to 130	3.45	20.0
BD01229	Beryllium, Total	mg/L	0.0000000	0.000880	0.100	0.0919	0.0924	0.0949	0.0850 to 0.115	91.9	70.0 to 130	0.543	20.0
BD01228	Boron, Dissolved	mg/L	0.00249	0.0650	1.00	1.01	1.00	0.998	0.850 to 1.15	101	70.0 to 130	0.995	20.0
BD01229	Boron, Total	mg/L	0.00195	0.0650	1.00	0.978	0.990	0.983	0.850 to 1.15	97.8	70.0 to 130	1.22	20.0
BD01228	Cadmium, Dissolved	mg/L	-0.0000069	0.000147	0.100	0.0925	0.0963	0.0950	0.0850 to 0.115	92.5	70.0 to 130	4.03	20.0
BD01229	Cadmium, Total	mg/L	-0.0000069	0.000147	0.100	0.0881	0.0925	0.0920	0.0850 to 0.115	88.1	70.0 to 130	4.87	20.0
BD01228	Calcium, Dissolved	mg/L	-0.00432	0.152	5.00	96.7	97.3	5.15	4.25 to 5.75	100	70.0 to 130	0.619	20.0
BD01229	Calcium, Total	mg/L	-0.00327	0.152	5.00	5.12	5.11	5.14	4.25 to 5.75	102	70.0 to 130	0.196	20.0
BD01229	Chloride	mg/L	0.0161	1.00	10.0	11.0	11.0	10.8	9.00 to 11.0	110	80.0 to 120	0.00	20.0
BD01228	Chromium, Dissolved	mg/L	0.0000328	0.000440	0.100	0.0937	0.0962	0.0962	0.0850 to 0.115	93.3	70.0 to 130	2.63	20.0
BD01229	Chromium, Total	mg/L	0.0000316	0.000440	0.100	0.0933	0.0926	0.0946	0.0850 to 0.115	93.3	70.0 to 130	0.753	20.0
BD01228	Cobalt, Dissolved	mg/L	0.0000003	0.000147	0.100	0.0969	0.0989	0.100	0.0850 to 0.115	96.9	70.0 to 130	2.04	20.0
BD01229	Cobalt, Total	mg/L	-0.0000025	0.000147	0.100	0.0970	0.0963	0.0978	0.0850 to 0.115	97.0	70.0 to 130	0.724	20.0
BD01229	Fluoride	mg/L	0.0183	0.125	2.50	2.58	2.56	2.56	2.25 to 2.75	103	80.0 to 120	0.778	20.0
BD01228	Iron, Dissolved	mg/L	-0.000588	0.0176	0.2	0.205	0.204	0.211	0.170 to 0.230	96.8	70.0 to 130	0.489	20.0
BD01229	Iron, Total	mg/L	-0.000137	0.0176	0.2	0.214	0.204	0.203	0.170 to 0.230	107	70.0 to 130	4.78	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/18/23 10:31  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-3

**Laboratory ID Number:** BD01227

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD01228	Lead, Dissolved	mg/L	0.0000120	0.000147	0.100	0.0979	0.102	0.103	0.0850 to 0.115	97.9	70.0 to 130	4.10	20.0
BD01229	Lead, Total	mg/L	0.0000031	0.000147	0.100	0.0979	0.0988	0.0965	0.0850 to 0.115	97.9	70.0 to 130	0.915	20.0
BD01228	Lithium, Dissolved	mg/L	4.150E-05	0.0154	0.200	0.216	0.215	0.199	0.170 to 0.230	108	70.0 to 130	0.464	20.0
BD01229	Lithium, Total	mg/L	-7.200E-05	0.0154	0.200	0.196	0.196	0.194	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BD01228	Magnesium, Dissolved	mg/L	-0.00595	0.0462	5.00	16.4	16.3	5.16	4.25 to 5.75	100	70.0 to 130	0.612	20.0
BD01229	Magnesium, Total	mg/L	-0.00486	0.0462	5.00	5.09	5.08	5.12	4.25 to 5.75	102	70.0 to 130	0.197	20.0
BD01228	Manganese, Dissolved	mg/L	0.0000386	0.00033	0.100	0.0961	0.101	0.0979	0.0850 to 0.115	96.1	70.0 to 130	4.97	20.0
BD01229	Manganese, Total	mg/L	0.0000265	0.00033	0.100	0.0963	0.0945	0.0962	0.0850 to 0.115	96.3	70.0 to 130	1.89	20.0
BD01228	Mercury, Total by CVAA	mg/L	-1.000E-05	0.000500	0.004	0.00388	0.00373	0.0039	0.00340 to 0.00460	97.0	70.0 to 130	3.94	20.0
BD01228	Molybdenum, Dissolved	mg/L	0.0000085	0.0002	0.100	0.0981	0.0989	0.0964	0.0850 to 0.115	96.7	70.0 to 130	0.812	20.0
BD01229	Molybdenum, Total	mg/L	0.0000152	0.0002	0.100	0.0927	0.0929	0.0948	0.0850 to 0.115	92.7	70.0 to 130	0.216	20.0
BD01228	Potassium, Dissolved	mg/L	0.0104	0.367	10.0	10.2	10.7	9.58	8.50 to 11.5	93.0	70.0 to 130	4.78	20.0
BD01229	Potassium, Total	mg/L	0.0110	0.367	10.0	9.42	9.33	9.43	8.50 to 11.5	94.2	70.0 to 130	0.960	20.0
BD01228	Selenium, Dissolved	mg/L	0.0000656	0.00100	0.100	0.0976	0.101	0.0954	0.0850 to 0.115	97.6	70.0 to 130	3.42	20.0
BD01229	Selenium, Total	mg/L	0.0000430	0.00100	0.100	0.0946	0.0930	0.0931	0.0850 to 0.115	94.6	70.0 to 130	1.71	20.0
BD01228	Silicon, Dissolved	mg/L	0.00157	0.0440	1.00	5.75	5.70	1.06	0.850 to 1.15	106	70.0 to 130	0.873	20.0
BD01229	Silicon, Total	mg/L	6.140E-05	0.0440	1.00	1.03	1.03	1.03	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BD01228	Sodium, Dissolved	mg/L	-6.280E-05	0.0660	5.00	8.76	8.72	5.11	4.25 to 5.75	111	70.0 to 130	0.458	20.0
BD01229	Sodium, Total	mg/L	0.00647	0.0660	5.00	4.87	4.89	4.93	4.25 to 5.75	97.4	70.0 to 130	0.410	20.0
BD01229	Sulfate	mg/L	-0.162	2.0	20.0	20.1	19.5	19.8	18.0 to 22.0	100	80.0 to 120	3.03	20.0
BD01228	Thallium, Dissolved	mg/L	0.0000089	0.000147	0.100	0.104	0.106	0.106	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BD01229	Thallium, Total	mg/L	0.0000042	0.000147	0.100	0.101	0.103	0.0989	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD01229	Total Organic Carbon	mg/L	-0.0451	1.00	10.0	10.3	10.6	10.1		103	80.0 to 120	2.87	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



## Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/18/23 10:31  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-3

**Laboratory ID Number:** BD01227

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01228	Alkalinity to pH 4.5	mg CaCO3/L					254	50.8	45.0 to 55.0			1.59	10.0
BD01229	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.96	-0.039	1.93	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BD01228	Solids, Dissolved	mg/L	1.00	25.0			280	50.0	40.0 to 60.0			0.00	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-13

**Location Code:** WMWGASG  
**Collected:** 1/18/23 11:27  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01228

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	1/20/23 11:10	1/23/23 13:56		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	1/20/23 11:10	1/23/23 15:40		10.15	93.7	mg/L	0.70035	4.06	
* Iron, Total	1/20/23 11:10	1/23/23 13:56		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	1/20/23 11:10	1/23/23 13:56		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	1/20/23 11:10	1/23/23 13:56		1.015	11.5	mg/L	0.021315	0.406	
* Silica, Total (calc.)	1/20/23 11:10	1/23/23 13:56		1	9.99	mg/L			
* Silicon, Total	1/20/23 11:10	1/23/23 13:56		1.015	4.67	mg/L	0.02030	0.25375	
* Sodium, Total	1/20/23 11:10	1/23/23 13:56		1.015	3.12	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	1/20/23 08:03	1/26/23 12:51		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	1/20/23 08:03	1/27/23 12:56		10.15	91.7	mg/L	0.70035	4.06	
* Iron, Dissolved	1/20/23 08:03	1/26/23 12:51		1.015	0.0113	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	1/20/23 08:03	1/26/23 12:51		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	1/20/23 08:03	1/26/23 12:51		1.015	11.4	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	1/20/23 08:03	1/26/23 12:51		1	10.0	mg/L			
* Silicon, Dissolved	1/20/23 08:03	1/26/23 12:51		1.015	4.69	mg/L	0.02030	0.25375	
* Sodium, Dissolved	1/20/23 08:03	1/26/23 12:51		1.015	3.19	mg/L	0.03045	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	1/20/23 11:10	1/20/23 15:27		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	1/20/23 11:10	1/20/23 15:27		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Total	1/20/23 11:10	1/20/23 15:27		1.015	0.000122	mg/L	0.000081	0.000203	J
* Barium, Total	1/20/23 11:10	1/20/23 15:27		1.015	0.0351	mg/L	0.000508	0.001015	
* Beryllium, Total	1/20/23 11:10	1/20/23 15:27		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	1/20/23 11:10	1/20/23 15:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	1/20/23 11:10	1/20/23 15:27		1.015	0.000417	mg/L	0.000203	0.001015	J
* Cobalt, Total	1/20/23 11:10	1/20/23 15:27		1.015	0.0000863	mg/L	0.000068	0.000203	J
* Lead, Total	1/20/23 11:10	1/20/23 15:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	1/20/23 11:10	1/20/23 15:27		1.015	0.00132	mg/L	0.000152	0.001015	
* Molybdenum, Total	1/20/23 11:10	1/20/23 15:27		1.015	0.000285	mg/L	0.000102	0.000203	
* Potassium, Total	1/20/23 11:10	1/20/23 15:27		1.015	0.836	mg/L	0.169505	0.5075	

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-13

**Location Code:** WMWGASG  
**Collected:** 1/18/23 11:27  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01228

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	1/20/23 11:10	1/20/23 15:27		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/20/23 11:10	1/20/23 15:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	1/20/23 08:03	1/20/23 12:34		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	1/20/23 08:03	1/20/23 12:34		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	1/20/23 08:03	1/20/23 12:34		1.015	0.000172	mg/L	0.000081	0.000203	J
* Barium, Dissolved	1/20/23 08:03	1/20/23 12:34		1.015	0.0360	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	1/20/23 08:03	1/20/23 12:34		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	1/20/23 08:03	1/20/23 12:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	1/20/23 08:03	1/20/23 12:34		1.015	0.000406	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	1/20/23 08:03	1/20/23 12:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	1/20/23 08:03	1/20/23 12:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	1/20/23 08:03	1/20/23 12:34		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Molybdenum, Dissolved	1/20/23 08:03	2/8/23 11:24		1.015	0.00142	mg/L	0.000102	0.000203	
* Potassium, Dissolved	1/20/23 08:03	1/20/23 12:34		1.015	0.905	mg/L	0.169505	0.5075	
* Selenium, Dissolved	1/20/23 08:03	1/20/23 12:34		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	1/20/23 08:03	1/20/23 12:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: CRB</b>							
* Mercury, Total by CVAA	1/23/23 12:59	1/23/23 18:23		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	1/20/23 10:54	1/20/23 10:54		1	0.377	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
* Alkalinity to pH 4.5	1/27/23 12:42	1/27/23 15:58		1	250	mg CaCO3/L			
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	1/20/23 10:18	1/23/23 13:50		1	280	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	1/27/23 12:42	1/27/23 15:58		1	248	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	1/27/23 12:42	1/27/23 15:58		1	1.47	mg CaCO3/L			
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	1/20/23 16:07	1/20/23 16:07		1	Not Detected	mg/L	1.00	2	U

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-13

**Location Code:** WMWGASG  
**Collected:** 1/18/23 11:27  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01228

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	1/20/23 09:35	1/20/23 09:35		1	3.80	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	1/20/23 11:23	1/20/23 11:23		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	1/24/23 10:57	1/24/23 10:57		1	8.51	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	1/18/23 11:24	1/18/23 11:24			488.29	uS/cm			FA
pH	1/18/23 11:24	1/18/23 11:24			7.13	SU			FA
Temperature	1/18/23 11:24	1/18/23 11:24			19.72	C			FA
Turbidity	1/18/23 11:24	1/18/23 11:24			2.12	NTU			FA
Sulfide	1/18/23 11:24	1/18/23 11:24			0	mg/L			FA

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/18/23 11:27  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-13

**Laboratory ID Number:** BD01228

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BD01228	Aluminum, Dissolved	mg/L	0.0000964	0.0132	0.100	0.0972	0.0987	0.0936	0.0850 to 0.115	97.2	70.0 to 130	1.53	20.0
BD01229	Aluminum, Total	mg/L	0.000698	0.0132	0.100	0.0981	0.0966	0.0945	0.0850 to 0.115	98.1	70.0 to 130	1.54	20.0
BD01228	Antimony, Dissolved	mg/L	0.000485	0.00100	0.100	0.0910	0.0956	0.0907	0.0850 to 0.115	91.0	70.0 to 130	4.93	20.0
BD01229	Antimony, Total	mg/L	0.000562	0.00100	0.100	0.0924	0.0931	0.0934	0.0850 to 0.115	92.4	70.0 to 130	0.755	20.0
BD01228	Arsenic, Dissolved	mg/L	0.0000011	0.000176	0.100	0.0952	0.0964	0.0935	0.0850 to 0.115	95.0	70.0 to 130	1.25	20.0
BD01229	Arsenic, Total	mg/L	0.0000062	0.000176	0.100	0.0907	0.0925	0.0930	0.0850 to 0.115	90.7	70.0 to 130	1.97	20.0
BD01228	Barium, Dissolved	mg/L	0.0000176	0.00100	0.100	0.126	0.133	0.0948	0.0850 to 0.115	90.0	70.0 to 130	5.41	20.0
BD01229	Barium, Total	mg/L	-0.0000001	0.00100	0.100	0.0909	0.0906	0.0918	0.0850 to 0.115	90.2	70.0 to 130	0.331	20.0
BD01228	Beryllium, Dissolved	mg/L	0.0000000	0.000880	0.100	0.0911	0.0943	0.0952	0.0850 to 0.115	91.1	70.0 to 130	3.45	20.0
BD01229	Beryllium, Total	mg/L	0.0000000	0.000880	0.100	0.0919	0.0924	0.0949	0.0850 to 0.115	91.9	70.0 to 130	0.543	20.0
BD01228	Boron, Dissolved	mg/L	0.00249	0.0650	1.00	1.01	1.00	0.998	0.850 to 1.15	101	70.0 to 130	0.995	20.0
BD01229	Boron, Total	mg/L	0.00195	0.0650	1.00	0.978	0.990	0.983	0.850 to 1.15	97.8	70.0 to 130	1.22	20.0
BD01228	Cadmium, Dissolved	mg/L	-0.0000069	0.000147	0.100	0.0925	0.0963	0.0950	0.0850 to 0.115	92.5	70.0 to 130	4.03	20.0
BD01229	Cadmium, Total	mg/L	-0.0000069	0.000147	0.100	0.0881	0.0925	0.0920	0.0850 to 0.115	88.1	70.0 to 130	4.87	20.0
BD01228	Calcium, Dissolved	mg/L	-0.00432	0.152	5.00	96.7	97.3	5.15	4.25 to 5.75	100	70.0 to 130	0.619	20.0
BD01229	Calcium, Total	mg/L	-0.00327	0.152	5.00	5.12	5.11	5.14	4.25 to 5.75	102	70.0 to 130	0.196	20.0
BD01229	Chloride	mg/L	0.0161	1.00	10.0	11.0	11.0	10.8	9.00 to 11.0	110	80.0 to 120	0.00	20.0
BD01228	Chromium, Dissolved	mg/L	0.0000328	0.000440	0.100	0.0937	0.0962	0.0962	0.0850 to 0.115	93.3	70.0 to 130	2.63	20.0
BD01229	Chromium, Total	mg/L	0.0000316	0.000440	0.100	0.0933	0.0926	0.0946	0.0850 to 0.115	93.3	70.0 to 130	0.753	20.0
BD01228	Cobalt, Dissolved	mg/L	0.0000003	0.000147	0.100	0.0969	0.0989	0.100	0.0850 to 0.115	96.9	70.0 to 130	2.04	20.0
BD01229	Cobalt, Total	mg/L	-0.0000025	0.000147	0.100	0.0970	0.0963	0.0978	0.0850 to 0.115	97.0	70.0 to 130	0.724	20.0
BD01229	Fluoride	mg/L	0.0183	0.125	2.50	2.58	2.56	2.56	2.25 to 2.75	103	80.0 to 120	0.778	20.0
BD01228	Iron, Dissolved	mg/L	-0.000588	0.0176	0.2	0.205	0.204	0.211	0.170 to 0.230	96.8	70.0 to 130	0.489	20.0
BD01229	Iron, Total	mg/L	-0.000137	0.0176	0.2	0.214	0.204	0.203	0.170 to 0.230	107	70.0 to 130	4.78	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/18/23 11:27  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-13

**Laboratory ID Number:** BD01228

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD01228	Lead, Dissolved	mg/L	0.0000120	0.000147	0.100	0.0979	0.102	0.103	0.0850 to 0.115	97.9	70.0 to 130	4.10	20.0
BD01229	Lead, Total	mg/L	0.0000031	0.000147	0.100	0.0979	0.0988	0.0965	0.0850 to 0.115	97.9	70.0 to 130	0.915	20.0
BD01228	Lithium, Dissolved	mg/L	4.150E-05	0.0154	0.200	0.216	0.215	0.199	0.170 to 0.230	108	70.0 to 130	0.464	20.0
BD01229	Lithium, Total	mg/L	-7.200E-05	0.0154	0.200	0.196	0.196	0.194	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BD01228	Magnesium, Dissolved	mg/L	-0.00595	0.0462	5.00	16.4	16.3	5.16	4.25 to 5.75	100	70.0 to 130	0.612	20.0
BD01229	Magnesium, Total	mg/L	-0.00486	0.0462	5.00	5.09	5.08	5.12	4.25 to 5.75	102	70.0 to 130	0.197	20.0
BD01228	Manganese, Dissolved	mg/L	0.0000386	0.00033	0.100	0.0961	0.101	0.0979	0.0850 to 0.115	96.1	70.0 to 130	4.97	20.0
BD01229	Manganese, Total	mg/L	0.0000265	0.00033	0.100	0.0963	0.0945	0.0962	0.0850 to 0.115	96.3	70.0 to 130	1.89	20.0
BD01228	Mercury, Total by CVAA	mg/L	-1.000E-05	0.000500	0.004	0.00388	0.00373	0.0039	0.00340 to 0.00460	97.0	70.0 to 130	3.94	20.0
BD01228	Molybdenum, Dissolved	mg/L	0.0000085	0.0002	0.100	0.0981	0.0989	0.0964	0.0850 to 0.115	96.7	70.0 to 130	0.812	20.0
BD01229	Molybdenum, Total	mg/L	0.0000152	0.0002	0.100	0.0927	0.0929	0.0948	0.0850 to 0.115	92.7	70.0 to 130	0.216	20.0
BD01228	Potassium, Dissolved	mg/L	0.0104	0.367	10.0	10.2	10.7	9.58	8.50 to 11.5	93.0	70.0 to 130	4.78	20.0
BD01229	Potassium, Total	mg/L	0.0110	0.367	10.0	9.42	9.33	9.43	8.50 to 11.5	94.2	70.0 to 130	0.960	20.0
BD01228	Selenium, Dissolved	mg/L	0.0000656	0.00100	0.100	0.0976	0.101	0.0954	0.0850 to 0.115	97.6	70.0 to 130	3.42	20.0
BD01229	Selenium, Total	mg/L	0.0000430	0.00100	0.100	0.0946	0.0930	0.0931	0.0850 to 0.115	94.6	70.0 to 130	1.71	20.0
BD01228	Silicon, Dissolved	mg/L	0.00157	0.0440	1.00	5.75	5.70	1.06	0.850 to 1.15	106	70.0 to 130	0.873	20.0
BD01229	Silicon, Total	mg/L	6.140E-05	0.0440	1.00	1.03	1.03	1.03	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BD01228	Sodium, Dissolved	mg/L	-6.280E-05	0.0660	5.00	8.76	8.72	5.11	4.25 to 5.75	111	70.0 to 130	0.458	20.0
BD01229	Sodium, Total	mg/L	0.00647	0.0660	5.00	4.87	4.89	4.93	4.25 to 5.75	97.4	70.0 to 130	0.410	20.0
BD01229	Sulfate	mg/L	-0.162	2.0	20.0	20.1	19.5	19.8	18.0 to 22.0	100	80.0 to 120	3.03	20.0
BD01228	Thallium, Dissolved	mg/L	0.0000089	0.000147	0.100	0.104	0.106	0.106	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BD01229	Thallium, Total	mg/L	0.0000042	0.000147	0.100	0.101	0.103	0.0989	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD01229	Total Organic Carbon	mg/L	-0.0451	1.00	10.0	10.3	10.6	10.1		103	80.0 to 120	2.87	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 1/18/23 11:27  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum - MW-13

**Laboratory ID Number:** BD01228

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01228	Alkalinity to pH 4.5	mg CaCO3/L					254	50.8	45.0 to 55.0			1.59	10.0
BD01229	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.96	-0.039	1.93	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BD01228	Solids, Dissolved	mg/L	1.00	25.0			280	50.0	40.0 to 60.0			0.00	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum Equipment Blank-1

**Location Code:** WMWGASGEB  
**Collected:** 1/18/23 11:45  
**Customer ID:**  
**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01229

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	1/20/23 11:10	1/23/23 13:59		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	1/20/23 11:10	1/23/23 13:59		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	1/20/23 11:10	1/23/23 13:59		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	1/20/23 11:10	1/23/23 13:59		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	1/20/23 11:10	1/23/23 13:59		1.015	Not Detected	mg/L	0.021315	0.406	U
* Silica, Total (calc.)	1/20/23 11:10	1/23/23 13:59		1	Not Detected	mg/L			
* Silicon, Total	1/20/23 11:10	1/23/23 13:59		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	1/20/23 11:10	1/23/23 13:59		1.015	Not Detected	mg/L	0.03045	0.406	U
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	1/20/23 11:10	1/20/23 15:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	1/20/23 11:10	1/20/23 15:31		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Total	1/20/23 11:10	1/20/23 15:31		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	1/20/23 11:10	1/20/23 15:31		1.015	0.000671	mg/L	0.000508	0.001015	J
* Beryllium, Total	1/20/23 11:10	1/20/23 15:31		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	1/20/23 11:10	1/20/23 15:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	1/20/23 11:10	1/20/23 15:31		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	1/20/23 11:10	1/20/23 15:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	1/20/23 11:10	1/20/23 15:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	1/20/23 11:10	1/20/23 15:31		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Molybdenum, Total	1/20/23 11:10	1/20/23 15:31		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	1/20/23 11:10	1/20/23 15:31		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	1/20/23 11:10	1/20/23 15:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/20/23 11:10	1/20/23 15:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>			<b>Analyst: CRB</b>						
* Mercury, Total by CVAA	1/23/23 12:59	1/23/23 18:19		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>			<b>Analyst: SC</b>						
* Nitrogen, Nitrate/Nitrite	1/20/23 10:55	1/20/23 10:55		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2540C</b>			<b>Analyst: CNJ</b>						
* Solids, Dissolved	1/20/23 10:18	1/23/23 13:50		1	Not Detected	mg/L		25	U

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Gaston Gypsum Equipment Blank-1

**Location Code:** WMWGASGEB

**Collected:** 1/18/23 11:45

**Customer ID:**

**Submittal Date:** 1/19/23 10:28

**Laboratory ID Number:** BD01229

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	1/20/23 16:24	1/20/23 16:24		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	1/20/23 09:36	1/20/23 09:36		1	Not Detected	mg/L	0.50	1	U
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	1/20/23 11:24	1/20/23 11:24		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	1/24/23 10:58	1/24/23 10:58		1	Not Detected	mg/L	0.6	2	U

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

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**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASGEB  
**Sample Date:** 1/18/23 11:45  
**Customer ID:**  
**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum Equipment Blank-1

**Laboratory ID Number:** BD01229

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD01229	Aluminum, Total	mg/L	0.000698	0.0132	0.100	0.0981	0.0966	0.0945	0.0850 to 0.115	98.1	70.0 to 130	1.54	20.0
BD01229	Antimony, Total	mg/L	0.000562	0.00100	0.100	0.0924	0.0931	0.0934	0.0850 to 0.115	92.4	70.0 to 130	0.755	20.0
BD01229	Arsenic, Total	mg/L	0.0000062	0.000176	0.100	0.0907	0.0925	0.0930	0.0850 to 0.115	90.7	70.0 to 130	1.97	20.0
BD01229	Barium, Total	mg/L	-0.0000001	0.00100	0.100	0.0909	0.0906	0.0918	0.0850 to 0.115	90.2	70.0 to 130	0.331	20.0
BD01229	Beryllium, Total	mg/L	0.0000000	0.000880	0.100	0.0919	0.0924	0.0949	0.0850 to 0.115	91.9	70.0 to 130	0.543	20.0
BD01229	Boron, Total	mg/L	0.00195	0.0650	1.00	0.978	0.990	0.983	0.850 to 1.15	97.8	70.0 to 130	1.22	20.0
BD01229	Cadmium, Total	mg/L	-0.0000069	0.000147	0.100	0.0881	0.0925	0.0920	0.0850 to 0.115	88.1	70.0 to 130	4.87	20.0
BD01229	Calcium, Total	mg/L	-0.00327	0.152	5.00	5.12	5.11	5.14	4.25 to 5.75	102	70.0 to 130	0.196	20.0
BD01229	Chloride	mg/L	0.0161	1.00	10.0	11.0	11.0	10.8	9.00 to 11.0	110	80.0 to 120	0.00	20.0
BD01229	Chromium, Total	mg/L	0.0000316	0.000440	0.100	0.0933	0.0926	0.0946	0.0850 to 0.115	93.3	70.0 to 130	0.753	20.0
BD01229	Cobalt, Total	mg/L	-0.0000025	0.000147	0.100	0.0970	0.0963	0.0978	0.0850 to 0.115	97.0	70.0 to 130	0.724	20.0
BD01229	Fluoride	mg/L	0.0183	0.125	2.50	2.58	2.56	2.56	2.25 to 2.75	103	80.0 to 120	0.778	20.0
BD01229	Iron, Total	mg/L	-0.000137	0.0176	0.2	0.214	0.204	0.203	0.170 to 0.230	107	70.0 to 130	4.78	20.0
BD01229	Lead, Total	mg/L	0.0000031	0.000147	0.100	0.0979	0.0988	0.0965	0.0850 to 0.115	97.9	70.0 to 130	0.915	20.0
BD01229	Lithium, Total	mg/L	-7.200E-05	0.0154	0.200	0.196	0.196	0.194	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BD01229	Magnesium, Total	mg/L	-0.00486	0.0462	5.00	5.09	5.08	5.12	4.25 to 5.75	102	70.0 to 130	0.197	20.0
BD01229	Manganese, Total	mg/L	0.0000265	0.00033	0.100	0.0963	0.0945	0.0962	0.0850 to 0.115	96.3	70.0 to 130	1.89	20.0
BD01228	Mercury, Total by CVAA	mg/L	-1.000E-05	0.000500	0.004	0.00388	0.00373	0.0039	0.00340 to 0.00460	97.0	70.0 to 130	3.94	20.0
BD01229	Molybdenum, Total	mg/L	0.0000152	0.0002	0.100	0.0927	0.0929	0.0948	0.0850 to 0.115	92.7	70.0 to 130	0.216	20.0
BD01229	Potassium, Total	mg/L	0.0110	0.367	10.0	9.42	9.33	9.43	8.50 to 11.5	94.2	70.0 to 130	0.960	20.0
BD01229	Selenium, Total	mg/L	0.0000430	0.00100	0.100	0.0946	0.0930	0.0931	0.0850 to 0.115	94.6	70.0 to 130	1.71	20.0
BD01229	Silicon, Total	mg/L	6.140E-05	0.0440	1.00	1.03	1.03	1.03	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BD01229	Sodium, Total	mg/L	0.00647	0.0660	5.00	4.87	4.89	4.93	4.25 to 5.75	97.4	70.0 to 130	0.410	20.0
BD01229	Sulfate	mg/L	-0.162	2.0	20.0	20.1	19.5	19.8	18.0 to 22.0	100	80.0 to 120	3.03	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASGEB

**Sample Date:** 1/18/23 11:45

**Customer ID:**

**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum Equipment Blank-1

**Laboratory ID Number:** BD01229

Sample	Analysis	Units	MB	MB				MSD	Standard		Rec		Prec	Limit	
				Limit	Spike	MS	Standard		Limit	Rec	Limit	Prec			
BD01229	Thallium, Total	mg/L	0.0000042	0.000147	0.100	0.101	0.103	0.0989	0.0850 to 0.115		101	70.0 to 130		1.96	20.0
BD01229	Total Organic Carbon	mg/L	-0.0451	1.00	10.0	10.3	10.6	10.1			103	80.0 to 120		2.87	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGASGEB

**Sample Date:** 1/18/23 11:45

**Customer ID:**

**Delivery Date:** 1/19/23 10:28

**Description:** Gaston Gypsum Equipment Blank-1

**Laboratory ID Number:** BD01229

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01229	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.96	-0.039	1.93	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BD01228	Solids, Dissolved	mg/L	1.00	25.0			280	50.0	40.0 to 60.0			0.00	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Definitions

**Project Number:** WMWGASG\_1395

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  
 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	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments: Relinquished to GSC 8 Shipping Lab secure location 01182023 1340; Changed sample date for MW-1 DUP to 1/17/2023 to match sample bottles. RJ 1/19/2023

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-1	01/17/2023	14:55	6	Groundwater		BD01211	<input checked="" type="checkbox"/>
MW-1 DUP	01/17/2023	14:55	6	Sample Duplicate		BD01212	<input checked="" type="checkbox"/>
MW-6	01/18/2023	09:15	6	Groundwater		BD01213	<input checked="" type="checkbox"/>
MW-8	01/18/2023	10:06	6	Groundwater		BD01214	<input checked="" type="checkbox"/>
MW-9	01/18/2023	11:15	6	Groundwater		BD01215	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
	Renee Jernigan Digitally signed by Renee Jernigan Date: 2023.01.19 10:22:47 -06'00'	01/19/2023 10:23

SmarTroll ID	7586-41446-5-5	Cooler Temp	0.8 °C
Turbidity ID	9830-57309-1-1	Thermometer ID	10614-61208-2-1
Sample Event	1395	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.  
 Total Metals and Alkalinity are not performed on Dissolved Sets  
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: TJ Daugherty		Requested By
		Location	Gaston Gypsum

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

Comments: Turned in to lab @1445 on 01/18/23. TJD

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-7	01/17/2023	14:10	6	Groundwater		BD01216	<input checked="" type="checkbox"/>
MW-5	01/18/2023	09:50	6	Groundwater		BD01217	<input checked="" type="checkbox"/>
MW-5 Dup	01/18/2023	09:50	6	Sample Duplicate		BD01218	<input checked="" type="checkbox"/>
MW-10	01/18/2023	11:03	6	Groundwater		BD01219	<input checked="" type="checkbox"/>
MW-11	01/18/2023	12:05	6	Groundwater		BD01220	<input checked="" type="checkbox"/>
MW-12	01/18/2023	13:13	6	Groundwater		BD01221	<input checked="" type="checkbox"/>
FB-1	01/18/2023	13:40	5	Field Blank		BD01222	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
	Renee Jernigan <small>Digitally signed by Renee Jernigan Date: 2023.01.19 10:24:57 -06'00'</small>	01/19/2023 10:25

SmarTroll ID	7586-41445-5-4	Cooler Temp	1.8 °C
Turbidity ID	4677-23343-4-2	Thermometer ID	10614-61208-2-1
Sample Event	1395	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.  
Total Metals and Alkalinity are not performed on Dissolved Sets  
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# 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
		Location	Gaston Gypsum

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

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-2	01/17/2023	13:29	6	Groundwater		BD01223	<input checked="" type="checkbox"/>
MW-14S	01/17/2023	14:42	6	Groundwater		BD01224	<input checked="" type="checkbox"/>
MW-15	01/17/2023	15:34	6	Groundwater		BD01225	<input checked="" type="checkbox"/>
FB-2	01/18/2023	09:00	5	Field Blank		BD01226	<input checked="" type="checkbox"/>
MW-3	01/18/2023	10:31	6	Groundwater		BD01227	<input checked="" type="checkbox"/>
MW-13	01/18/2023	11:27	6	Groundwater		BD01228	<input checked="" type="checkbox"/>
EB-1	01/18/2023	11:45	5	Equipment Blank		BD01229	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
		01/19/2023 09:31

SmarTroll ID	7586-41443-5-2	Cooler Temp	1.4 °C
Turbidity ID	9901-57263-1-1	Thermometer ID	10614-61208-2-1
Sample Event	1395	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.  
Total Metals and Alkalinity are not performed on Dissolved Sets  
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks





# 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
		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 Relinquished to GSC 8 Shipping Lab secure location 01182023 1340; corrected sample date for MW-1 DUP to 1/17/2023 to match sample bottles. RJ 1/19/2023

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-1	01/17/2023	14:55	1	Groundwater		BD01230	<input checked="" type="checkbox"/>
MW-1 DUP	01/17/2023	14:55	1	Sample Duplicate		BD01231	<input checked="" type="checkbox"/>
MW-6	01/18/2023	09:15	1	Groundwater		BD01232	<input checked="" type="checkbox"/>
MW-8	01/18/2023	10:06	1	Groundwater		BD01233	<input checked="" type="checkbox"/>
MW-9	01/18/2023	11:15	1	Groundwater		BD01234	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
	Renee Jernigan <small>Digitally signed by Renee Jernigan Date: 2023.01.19 10:25:35 -06'00'</small>	01/19/2023 10:25

SmarTroll ID	7586-41446-5-5	Cooler Temp	N/A
Turbidity ID	9830-57309-1-1	Thermometer ID	N/A
Sample Event	1395	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.  
Total Metals and Alkalinity are not performed on Dissolved Sets  
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab


Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector		TJ Daugherty
		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: Turned in to lab @1445 on 01/18/23. TJD

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-7	01/17/2023	14:10	1	Groundwater		BD01235	<input checked="" type="checkbox"/>
MW-5	01/18/2023	09:50	1	Groundwater		BD01236	<input checked="" type="checkbox"/>
MW-5 Dup	01/18/2023	09:50	1	Sample Duplicate		BD01237	<input checked="" type="checkbox"/>
MW-10	01/18/2023	11:03	1	Groundwater		BD01238	<input checked="" type="checkbox"/>
MW-11	01/18/2023	12:05	1	Groundwater		BD01239	<input checked="" type="checkbox"/>
MW-12	01/18/2023	13:13	1	Groundwater		BD01240	<input checked="" type="checkbox"/>
FB-1	01/18/2023	13:40	1	Field Blank		BD01241	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
	Renee Jernigan <small>Digitally signed by Renee Jernigan Date: 2023.01.19 10:26:01 -06'00'</small>	01/19/2023 10:26

SmarTroll ID	7586-41445-5-4	Cooler Temp	N/A
Turbidity ID	4677-23343-4-2	Thermometer ID	N/A
Sample Event	1395	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.  
Total Metals and Alkalinity are not performed on Dissolved Sets  
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



**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
		Location	Gaston Gypsum

Bottles	1 Radium	1 L	3 N/A	N/A	5 N/A	N/A	7 N/A	N/A
	2 N/A	N/A	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

Comments: Radium MS/MSD collected at MW-13

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-2	01/17/2023	13:29	1	Groundwater		BD01242	<input checked="" type="checkbox"/>
MW-14S	01/17/2023	14:42	1	Groundwater		BD01243	<input checked="" type="checkbox"/>
MW-15	01/17/2023	15:34	1	Groundwater		BD01244	<input checked="" type="checkbox"/>
FB-2	01/18/2023	09:00	1	Field Blank		BD01245	<input checked="" type="checkbox"/>
MW-3	01/18/2023	10:31	1	Groundwater		BD01246	<input checked="" type="checkbox"/>
MW-13	01/18/2023	11:27	3	Groundwater		BD01247	<input checked="" type="checkbox"/>
EB-1	01/18/2023	11:45	1	Equipment Blank		BD01248	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
<i>Dallas Gentry</i>	<i>Greg Dyer</i>	01/19/2023 09:32

SmarTroll ID	7586-41443-5-2	Cooler Temp	N/A
Turbidity ID	9901-57263-1-1	Thermometer ID	N/A
Sample Event	1395	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.  
Total Metals and Alkalinity are not performed on Dissolved Sets  
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks

February 22, 2023

Brooke Caton  
Alabama Power  
744 Highway 87  
Calera, AL 35040

RE: Project: WMWGASG\_1395  
Pace Project No.: 30556958

Dear Brooke Caton:

Enclosed are the analytical results for sample(s) received by the laboratory on January 25, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

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

Sincerely,



Skyler C. Richmond  
skyler.richmond@pacelabs.com  
(724)850-5600  
Project Manager

Enclosures

cc: Blaine Denton, Alabama Power  
Renee Jernigan, Alabama Power



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: WMWGASG\_1395  
Pace Project No.: 30556958

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### **Pace Analytical Services Pennsylvania**

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601  
ANAB DOD-ELAP Rad Accreditation #: L2417  
Alabama Certification #: 41590  
Arizona Certification #: AZ0734  
Arkansas Certification  
California Certification #: 04222CA  
Colorado Certification #: PA01547  
Connecticut Certification #: PH-0694  
Delaware Certification  
EPA Region 4 DW Rad  
Florida/TNI Certification #: E87683  
Georgia Certification #: C040  
Florida: Cert E871149 SEKS WET  
Guam Certification  
Hawaii Certification  
Idaho Certification  
Illinois Certification  
Indiana Certification  
Iowa Certification #: 391  
Kansas/TNI Certification #: E-10358  
Kentucky Certification #: KY90133  
KY WW Permit #: KY0098221  
KY WW Permit #: KY0000221  
Louisiana DHH/TNI Certification #: LA180012  
Louisiana DEQ/TNI Certification #: 4086  
Maine Certification #: 2017020  
Maryland Certification #: 308  
Massachusetts Certification #: M-PA1457  
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235  
Montana Certification #: Cert0082  
Nebraska Certification #: NE-OS-29-14  
Nevada Certification #: PA014572018-1  
New Hampshire/TNI Certification #: 297617  
New Jersey/TNI Certification #: PA051  
New Mexico Certification #: PA01457  
New York/TNI Certification #: 10888  
North Carolina Certification #: 42706  
North Dakota Certification #: R-190  
Ohio EPA Rad Approval: #41249  
Oregon/TNI Certification #: PA200002-010  
Pennsylvania/TNI Certification #: 65-00282  
Puerto Rico Certification #: PA01457  
Rhode Island Certification #: 65-00282  
South Dakota Certification  
Tennessee Certification #: 02867  
Texas/TNI Certification #: T104704188-17-3  
Utah/TNI Certification #: PA014572017-9  
USDA Soil Permit #: P330-17-00091  
Vermont Dept. of Health: ID# VT-0282  
Virgin Island/PADEP Certification  
Virginia/VELAP Certification #: 460198  
Washington Certification #: C868  
West Virginia DEP Certification #: 143  
West Virginia DHHR Certification #: 9964C  
Wisconsin Approve List for Rad  
Wyoming Certification #: 8TMS-L

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: WMWGASG\_1395

Pace Project No.: 30556958

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30556958001	BD01230 MW-1	Water	01/17/23 14:55	01/25/23 10:50
30556958002	BD01231 MW-1 DUP	Water	01/17/23 14:55	01/25/23 10:50
30556958003	BD01232 MW-6	Water	01/18/23 09:15	01/25/23 10:50
30556958004	BD01233 MW-8	Water	01/18/23 10:06	01/25/23 10:50
30556958005	BD01234 MW-9	Water	01/18/23 11:15	01/25/23 10:50
30556958006	BD01235 MW-7	Water	01/17/23 14:10	01/25/23 10:50
30556958007	BD01236 MW-5	Water	01/18/23 09:50	01/25/23 10:50
30556958008	BD01237 MW-5 Dup	Water	01/18/23 09:50	01/25/23 10:50
30556958009	BD01238 MW-10	Water	01/18/23 11:03	01/25/23 10:50
30556958010	BD01239 MW-11	Water	01/18/23 12:05	01/25/23 10:50
30556958011	BD01240 MW-12	Water	01/18/23 13:13	01/25/23 10:50
30556958012	BD01241 FB-1	Water	01/18/23 13:40	01/25/23 10:50
30556958013	BD01242 MW-2	Water	01/17/23 13:29	01/25/23 10:50
30556958014	BD01243 MW-14S	Water	01/17/23 14:42	01/25/23 10:50
30556958015	BD01244 MW-15	Water	01/17/23 15:34	01/25/23 10:50
30556958016	BD01245 FB-2	Water	01/18/23 09:00	01/25/23 10:50
30556958017	BD01246 MW-3	Water	01/18/23 10:31	01/25/23 10:50
30556958018	BD01247 MW-13	Water	01/18/23 11:27	01/25/23 10:50
30556958019	BD01247 MW-13 MS	Water	01/18/23 11:27	01/25/23 10:50
30556958020	BD01247 MW-13 MSD	Water	01/18/23 11:27	01/25/23 10:50
30556958021	BD01248 EB-1	Water	01/18/23 11:45	01/25/23 10:50

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: WMWGASG\_1395  
Pace Project No.: 30556958

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30556958001	BD01230 MW-1	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30556958002	BD01231 MW-1 DUP	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30556958003	BD01232 MW-6	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30556958004	BD01233 MW-8	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30556958005	BD01234 MW-9	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30556958006	BD01235 MW-7	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30556958007	BD01236 MW-5	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30556958008	BD01237 MW-5 Dup	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30556958009	BD01238 MW-10	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30556958010	BD01239 MW-11	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30556958011	BD01240 MW-12	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30556958012	BD01241 FB-1	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30556958013	BD01242 MW-2	EPA 9315	RMS	1	PASI-PA

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: WMWGASG\_1395  
Pace Project No.: 30556958

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30556958014	BD01243 MW-14S	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
30556958015	BD01244 MW-15	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30556958016	BD01245 FB-2	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
30556958017	BD01246 MW-3	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
30556958018	BD01247 MW-13	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30556958019	BD01247 MW-13 MS	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
30556958020	BD01247 MW-13 MSD	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
30556958021	BD01248 EB-1	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: WMWGASG\_1395  
Pace Project No.: 30556958

---

**Method:** EPA 9315  
**Description:** 9315 Total Radium  
**Client:** Alabama Power  
**Date:** February 22, 2023

**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:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: WMWGASG\_1395

Pace Project No.: 30556958

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**Method:** EPA 9320

**Description:** 9320 Radium 228

**Client:** Alabama Power

**Date:** February 22, 2023

**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:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: WMWGASG\_1395

Pace Project No.: 30556958

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**Method:** Total Radium Calculation

**Description:** Total Radium 228+226

**Client:** Alabama Power

**Date:** February 22, 2023

**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.

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG\_1395

Pace Project No.: 30556958

**Sample: BD01230 MW-1**      **Lab ID: 30556958001**      Collected: 01/17/23 14:55      Received: 01/25/23 10:50      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	<b>0.800 ± 0.315 (0.330)</b> <b>C:97% T:NA</b>	pCi/L	02/17/23 09:57	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.599 ± 0.295 (0.490)</b> <b>C:87% T:92%</b>	pCi/L	02/01/23 11:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.40 ± 0.610 (0.820)</b>	pCi/L	02/21/23 11:35	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG\_1395

Pace Project No.: 30556958

**Sample: BD01231 MW-1 DUP**      **Lab ID: 30556958002**      Collected: 01/17/23 14:55      Received: 01/25/23 10:50      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	<b>0.878 ± 0.317 (0.321)</b> <b>C:102% T:NA</b>	pCi/L	02/17/23 08:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.202U ± 0.259 (0.548)</b> <b>C:90% T:89%</b>	pCi/L	02/01/23 11:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.08 ± 0.576 (0.869)</b>	pCi/L	02/21/23 11:35	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG\_1395

Pace Project No.: 30556958

**Sample: BD01232 MW-6**      **Lab ID: 30556958003**      Collected: 01/18/23 09:15      Received: 01/25/23 10:50      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	<b>0.155U ± 0.150 (0.284)</b> <b>C:101% T:NA</b>	pCi/L	02/17/23 08:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.234U ± 0.302 (0.643)</b> <b>C:89% T:82%</b>	pCi/L	02/01/23 11:21	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.389U ± 0.452 (0.927)</b>	pCi/L	02/21/23 11:35	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG\_1395

Pace Project No.: 30556958

**Sample: BD01233 MW-8**      **Lab ID: 30556958004**      Collected: 01/18/23 10:06      Received: 01/25/23 10:50      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	<b>0.193U ± 0.196 (0.384)</b> <b>C:97% T:NA</b>	pCi/L	02/17/23 08:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.44 ± 0.515 (0.703)</b> <b>C:90% T:48%</b>	pCi/L	02/06/23 16:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.63 ± 0.711 (1.09)</b>	pCi/L	02/21/23 11:35	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG\_1395

Pace Project No.: 30556958

**Sample: BD01234 MW-9**      **Lab ID: 30556958005**      Collected: 01/18/23 11:15      Received: 01/25/23 10:50      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	<b>0.180U ± 0.170 (0.314)</b> <b>C:98% T:NA</b>	pCi/L	02/17/23 09:12	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.238U ± 0.280 (0.588)</b> <b>C:89% T:93%</b>	pCi/L	02/01/23 11:21	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.418U ± 0.450 (0.902)</b>	pCi/L	02/21/23 11:35	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG\_1395

Pace Project No.: 30556958

**Sample: BD01235 MW-7**      **Lab ID: 30556958006**      Collected: 01/17/23 14:10      Received: 01/25/23 10:50      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	<b>0.213U ± 0.168 (0.277)</b> <b>C:99% T:NA</b>	pCi/L	02/17/23 09:12	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.0272U ± 0.274 (0.633)</b> <b>C:88% T:88%</b>	pCi/L	02/01/23 11:22	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.240U ± 0.442 (0.910)</b>	pCi/L	02/21/23 11:35	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG\_1395

Pace Project No.: 30556958

**Sample: BD01236 MW-5**      **Lab ID: 30556958007**      Collected: 01/18/23 09:50      Received: 01/25/23 10:50      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	<b>0.218U ± 0.178 (0.313)</b> <b>C:101% T:NA</b>	pCi/L	02/17/23 09:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.0811U ± 0.275 (0.621)</b> <b>C:91% T:87%</b>	pCi/L	02/01/23 11:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.299U ± 0.453 (0.934)</b>	pCi/L	02/21/23 11:35	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG\_1395

Pace Project No.: 30556958

**Sample: BD01237 MW-5 Dup**      **Lab ID: 30556958008**      Collected: 01/18/23 09:50      Received: 01/25/23 10:50      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	<b>0.174U ± 0.155 (0.270)</b> <b>C:101% T:NA</b>	pCi/L	02/17/23 09:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.529U ± 0.321 (0.587)</b> <b>C:85% T:84%</b>	pCi/L	02/01/23 11:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.703U ± 0.476 (0.857)</b>	pCi/L	02/21/23 11:35	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG\_1395

Pace Project No.: 30556958

**Sample: BD01238 MW-10**      **Lab ID: 30556958009**      Collected: 01/18/23 11:03      Received: 01/25/23 10:50      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	<b>0.0699U ± 0.112 (0.246)</b> <b>C:100% T:NA</b>	pCi/L	02/17/23 09:07	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.562 ± 0.311 (0.551)</b> <b>C:85% T:92%</b>	pCi/L	02/01/23 11:22	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.632U ± 0.423 (0.797)</b>	pCi/L	02/21/23 11:35	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG\_1395

Pace Project No.: 30556958

**Sample: BD01239 MW-11**      **Lab ID: 30556958010**      Collected: 01/18/23 12:05      Received: 01/25/23 10:50      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	<b>0.153U ± 0.199 (0.428)</b> <b>C:97% T:NA</b>	pCi/L	02/17/23 09:08	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.0139U ± 0.256 (0.596)</b> <b>C:87% T:91%</b>	pCi/L	02/01/23 11:22	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.167U ± 0.455 (1.02)</b>	pCi/L	02/21/23 11:35	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG\_1395

Pace Project No.: 30556958

**Sample: BD01240 MW-12**      **Lab ID: 30556958011**      Collected: 01/18/23 13:13      Received: 01/25/23 10:50      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	<b>0.0841U ± 0.148 (0.336)</b> <b>C:102% T:NA</b>	pCi/L	02/17/23 09:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.221U ± 0.397 (0.868)</b> <b>C:86% T:67%</b>	pCi/L	02/01/23 11:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.305U ± 0.545 (1.20)</b>	pCi/L	02/21/23 11:35	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG\_1395

Pace Project No.: 30556958

**Sample: BD01241 FB-1**      **Lab ID: 30556958012**      Collected: 01/18/23 13:40      Received: 01/25/23 10:50      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	<b>0.0200U ± 0.129 (0.339)</b> <b>C:101% T:NA</b>	pCi/L	02/17/23 09:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.0253U ± 0.247 (0.574)</b> <b>C:83% T:89%</b>	pCi/L	02/01/23 11:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.0453U ± 0.376 (0.913)</b>	pCi/L	02/21/23 11:35	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG\_1395

Pace Project No.: 30556958

**Sample: BD01242 MW-2**      **Lab ID: 30556958013**      Collected: 01/17/23 13:29      Received: 01/25/23 10:50      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	<b>0.259 ± 0.172 (0.257)</b> <b>C:102% T:NA</b>	pCi/L	02/17/23 08:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.541U ± 0.343 (0.643)</b> <b>C:84% T:85%</b>	pCi/L	02/01/23 11:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.800U ± 0.515 (0.900)</b>	pCi/L	02/21/23 11:35	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG\_1395

Pace Project No.: 30556958

**Sample: BD01243 MW-14S**      **Lab ID: 30556958014**      Collected: 01/17/23 14:42      Received: 01/25/23 10:50      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	<b>0.0165U ± 0.0788 (0.213)</b> <b>C:103% T:NA</b>	pCi/L	02/17/23 08:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.534 ± 0.292 (0.509)</b> <b>C:85% T:91%</b>	pCi/L	02/01/23 11:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.551U ± 0.371 (0.722)</b>	pCi/L	02/21/23 11:35	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG\_1395

Pace Project No.: 30556958

**Sample: BD01244 MW-15**      **Lab ID: 30556958015**      Collected: 01/17/23 15:34      Received: 01/25/23 10:50      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	<b>0.201U ± 0.162 (0.278)</b> <b>C:103% T:NA</b>	pCi/L	02/17/23 08:37	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.292U ± 0.260 (0.521)</b> <b>C:84% T:91%</b>	pCi/L	02/01/23 11:23	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.493U ± 0.422 (0.799)</b>	pCi/L	02/21/23 11:35	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG\_1395

Pace Project No.: 30556958

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: BD01245 FB-2</b> <b>Lab ID: 30556958016</b> Collected: 01/18/23 09:00      Received: 01/25/23 10:50      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>-0.0523U ± 0.0640 (0.263)</b> <b>C:98% T:NA</b>	pCi/L	02/17/23 08:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.86 ± 1.07 (1.75)</b> <b>C:91% T:19%</b>	pCi/L	02/06/23 16:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.86U ± 1.13 (2.01)</b>	pCi/L	02/21/23 11:35	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG\_1395

Pace Project No.: 30556958

**Sample: BD01246 MW-3**      **Lab ID: 30556958017**      Collected: 01/18/23 10:31      Received: 01/25/23 10:50      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	<b>0.0307U ± 0.139 (0.354)</b> <b>C:103% T:NA</b>	pCi/L	02/17/23 08:37	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.168U ± 0.240 (0.514)</b> <b>C:90% T:97%</b>	pCi/L	02/01/23 11:24	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.199U ± 0.379 (0.868)</b>	pCi/L	02/21/23 11:35	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG\_1395

Pace Project No.: 30556958

**Sample: BD01247 MW-13**      **Lab ID: 30556958018**      Collected: 01/18/23 11:27      Received: 01/25/23 10:50      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	<b>0.175U ± 0.142 (0.236)</b> <b>C:100% T:NA</b>	pCi/L	02/17/23 08:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.201U ± 0.281 (0.601)</b> <b>C:87% T:89%</b>	pCi/L	02/01/23 11:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.376U ± 0.423 (0.837)</b>	pCi/L	02/21/23 11:35	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG\_1395

Pace Project No.: 30556958

**Sample: BD01247 MW-13 MS**      **Lab ID: 30556958019**      Collected: 01/18/23 11:27      Received: 01/25/23 10:50      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	<b>100.30 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	02/17/23 08:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>86.47% REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	02/01/23 11:24	15262-20-1	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG\_1395

Pace Project No.: 30556958

**Sample: BD01247 MW-13 MSD**      **Lab ID: 30556958020**      Collected: 01/18/23 11:27      Received: 01/25/23 10:50      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	<b>105.76 %REC 5.30RPD ±</b> <b>NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	02/17/23 08:59	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>80.55% REC 7.09RPD ± NA</b> <b>(NA)</b> <b>C:NA T:NA</b>	pCi/L	02/01/23 11:25	15262-20-1	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASG\_1395

Pace Project No.: 30556958

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: BD01248 EB-1</b> <b>Lab ID: 30556958021</b> Collected: 01/18/23 11:45      Received: 01/25/23 10:50      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.0685U ± 0.146 (0.342)</b> <b>C:99% T:NA</b>	pCi/L	02/16/23 09:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.581U ± 0.553 (1.14)</b> <b>C:69% T:77%</b>	pCi/L	02/13/23 13:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.650U ± 0.699 (1.48)</b>	pCi/L	02/17/23 12:29	7440-14-4	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGASG\_1395

Pace Project No.: 30556958

QC Batch: 563640

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30556958021

METHOD BLANK: 2736994

Matrix: Water

Associated Lab Samples: 30556958021

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.204 ± 0.336 (0.731) C:81% T:82%	pCi/L	02/13/23 13:01	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGASG\_1395

Pace Project No.: 30556958

QC Batch: 563637

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30556958021

METHOD BLANK: 2736986

Matrix: Water

Associated Lab Samples: 30556958021

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0170 ± 0.0627 (0.161) C:102% T:NA	pCi/L	02/15/23 18:29	

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: WMWGASG\_1395  
 Pace Project No.: 30556958

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QC Batch:	562763	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30556958001, 30556958002, 30556958003, 30556958004, 30556958005, 30556958006, 30556958007, 30556958008, 30556958009, 30556958010, 30556958011, 30556958012, 30556958013, 30556958014, 30556958015, 30556958016, 30556958017, 30556958018, 30556958019, 30556958020

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METHOD BLANK:	2733276	Matrix:	Water
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Associated Lab Samples: 30556958001, 30556958002, 30556958003, 30556958004, 30556958005, 30556958006, 30556958007, 30556958008, 30556958009, 30556958010, 30556958011, 30556958012, 30556958013, 30556958014, 30556958015, 30556958016, 30556958017, 30556958018, 30556958019, 30556958020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000340 ± 0.0803 (0.213) C:102% T:NA	pCi/L	02/17/23 08:26	

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: WMWGASG\_1395  
Pace Project No.: 30556958

---

QC Batch:	562765	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30556958001, 30556958002, 30556958003, 30556958004, 30556958005, 30556958006, 30556958007, 30556958008, 30556958009, 30556958010, 30556958011, 30556958012, 30556958013, 30556958014, 30556958015, 30556958016, 30556958017, 30556958018, 30556958019, 30556958020

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METHOD BLANK: 2733277 Matrix: Water

Associated Lab Samples: 30556958001, 30556958002, 30556958003, 30556958004, 30556958005, 30556958006, 30556958007, 30556958008, 30556958009, 30556958010, 30556958011, 30556958012, 30556958013, 30556958014, 30556958015, 30556958016, 30556958017, 30556958018, 30556958019, 30556958020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.387 ± 0.291 (0.569) C:90% T:89%	pCi/L	02/01/23 11:20	

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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## QUALIFIERS

Project: WMWGASG\_1395  
Pace Project No.: 30556958

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGASG\_1395  
Pace Project No.: 30556958

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30556958001	BD01230 MW-1	EPA 9315	562763		
30556958002	BD01231 MW-1 DUP	EPA 9315	562763		
30556958003	BD01232 MW-6	EPA 9315	562763		
30556958004	BD01233 MW-8	EPA 9315	562763		
30556958005	BD01234 MW-9	EPA 9315	562763		
30556958006	BD01235 MW-7	EPA 9315	562763		
30556958007	BD01236 MW-5	EPA 9315	562763		
30556958008	BD01237 MW-5 Dup	EPA 9315	562763		
30556958009	BD01238 MW-10	EPA 9315	562763		
30556958010	BD01239 MW-11	EPA 9315	562763		
30556958011	BD01240 MW-12	EPA 9315	562763		
30556958012	BD01241 FB-1	EPA 9315	562763		
30556958013	BD01242 MW-2	EPA 9315	562763		
30556958014	BD01243 MW-14S	EPA 9315	562763		
30556958015	BD01244 MW-15	EPA 9315	562763		
30556958016	BD01245 FB-2	EPA 9315	562763		
30556958017	BD01246 MW-3	EPA 9315	562763		
30556958018	BD01247 MW-13	EPA 9315	562763		
30556958019	BD01247 MW-13 MS	EPA 9315	562763		
30556958020	BD01247 MW-13 MSD	EPA 9315	562763		
30556958021	BD01248 EB-1	EPA 9315	563637		
30556958001	BD01230 MW-1	EPA 9320	562765		
30556958002	BD01231 MW-1 DUP	EPA 9320	562765		
30556958003	BD01232 MW-6	EPA 9320	562765		
30556958004	BD01233 MW-8	EPA 9320	562765		
30556958005	BD01234 MW-9	EPA 9320	562765		
30556958006	BD01235 MW-7	EPA 9320	562765		
30556958007	BD01236 MW-5	EPA 9320	562765		
30556958008	BD01237 MW-5 Dup	EPA 9320	562765		
30556958009	BD01238 MW-10	EPA 9320	562765		
30556958010	BD01239 MW-11	EPA 9320	562765		
30556958011	BD01240 MW-12	EPA 9320	562765		
30556958012	BD01241 FB-1	EPA 9320	562765		
30556958013	BD01242 MW-2	EPA 9320	562765		
30556958014	BD01243 MW-14S	EPA 9320	562765		
30556958015	BD01244 MW-15	EPA 9320	562765		
30556958016	BD01245 FB-2	EPA 9320	562765		
30556958017	BD01246 MW-3	EPA 9320	562765		
30556958018	BD01247 MW-13	EPA 9320	562765		
30556958019	BD01247 MW-13 MS	EPA 9320	562765		
30556958020	BD01247 MW-13 MSD	EPA 9320	562765		
30556958021	BD01248 EB-1	EPA 9320	563640		
30556958001	BD01230 MW-1	Total Radium Calculation	568699		
30556958002	BD01231 MW-1 DUP	Total Radium Calculation	568699		
30556958003	BD01232 MW-6	Total Radium Calculation	568699		
30556958004	BD01233 MW-8	Total Radium Calculation	568699		
30556958005	BD01234 MW-9	Total Radium Calculation	568699		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGASG\_1395  
Pace Project No.: 30556958

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30556958006	BD01235 MW-7	Total Radium Calculation	568699		
30556958007	BD01236 MW-5	Total Radium Calculation	568699		
30556958008	BD01237 MW-5 Dup	Total Radium Calculation	568699		
30556958009	BD01238 MW-10	Total Radium Calculation	568699		
30556958010	BD01239 MW-11	Total Radium Calculation	568699		
30556958011	BD01240 MW-12	Total Radium Calculation	568699		
30556958012	BD01241 FB-1	Total Radium Calculation	568699		
30556958013	BD01242 MW-2	Total Radium Calculation	568699		
30556958014	BD01243 MW-14S	Total Radium Calculation	568699		
30556958015	BD01244 MW-15	Total Radium Calculation	568699		
30556958016	BD01245 FB-2	Total Radium Calculation	568699		
30556958017	BD01246 MW-3	Total Radium Calculation	568699		
30556958018	BD01247 MW-13	Total Radium Calculation	568699		
30556958021	BD01248 EB-1	Total Radium Calculation	567961		

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY / Analytical Request Document

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

<b>Section A</b>	<b>Section B</b>	<b>Section C</b>	<b>Page:</b> 1 Of 2
<b>Required Client Information:</b>	<b>Required Project Information:</b>	<b>Invoice Information:</b>	
Company: Alabama Power Company	Report To: Brooke Catton	Attention: Brooke Catton	
Address: 744 Highway 87 GSC Bldg #8	Copy To: Renee Jernigan & Blaine Denton	Company Name: Alabama Power Co.	
Calera, AL 35040		Address: 744 Highway 87 GSC Bldg #8	
Email To: tbwill@southernco.com	Purchase Order #: APC10755638	CCR	
Phone: 205-664-6101   Fax:	Project Name: Plant Gaston Gypsum Storage Area	Skyler Richmond	
Requested Due Date: 28 days	Project Number: WMWGASG_1395	16788	
		State / Location: AL	
		Regulatory Agency:	

ITEM #	Description	Station Name Location_ID	Site Name Facility_ID	Sample Duplicate	Matrix Spike/Matrix Spike Duplicate	Field Filtered	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Preservatives	Y/N	Requested Analysis Filtered (Y/N)	EPA 8315	EPA 8320	Total Radium Sum	Residual Chlorine (Y/N)
									START DATE	TIME								
1	BD01230	MW-1	APCO-GN-GSA-MW-1	APCO_Gaston_GypsumStore			GW	G	1/17/2023	14:55	1	X		X	X		001	
2	BD01231	MW-1 Dup	APCO-GN-GSA-MW-1	APCO_Gaston_GypsumStore	x		GW	G	1/17/2023	14:55	1	X		X	X		002	
3	BD01232	MW-6	APCO-GN-GSA-MW-6	APCO_Gaston_GypsumStore			GW	G	1/18/2023	9:15	1	X		X	X		003	
4	BD01233	MW-8	APCO-GN-GSA-MW-8	APCO_Gaston_GypsumStore			GW	G	1/18/2023	10:06	1	X		X	X		004	
5	BD01234	MW-9	APCO-GN-GSA-MW-9	APCO_Gaston_GypsumStore			GW	G	1/18/2023	11:15	1	X		X	X		005	
6	BD01235	MW-7	APCO-GN-GSA-MW-7	APCO_Gaston_GypsumStore			GW	G	1/17/2023	14:10	1	X		X	X		006	
7	BD01236	MW-5	APCO-GN-GSA-MW-5	APCO_Gaston_GypsumStore			GW	G	1/18/2023	9:50	1	X		X	X		007	
8	BD01237	MW-5 DUP	APCO-GN-GSA-MW-5	APCO_Gaston_GypsumStore	x		GW	G	1/18/2023	9:50	1	X		X	X		008	
9	BD01238	MW-10	APCO-GN-GSA-MW-10	APCO_Gaston_GypsumStore			GW	G	1/18/2023	11:03	1	X		X	X		009	
10	BD01239	MW-11	APCO-GN-GSA-MW-11	APCO_Gaston_GypsumStore			GW	G	1/18/2023	12:05	1	X		X	X		010	
11	BD01240	MW-12	APCO-GN-GSA-MW-12	APCO_Gaston_GypsumStore			GW	G	1/18/2023	13:13	1	X		X	X		011	
12	BD01241	FB-1	APCO-GN-GSA-FB-01	APCO_Gaston_GypsumStore			GW	G	1/18/2023	13:40	1	X		X	X		012	

<b>ADDITIONAL COMMENTS</b>	<b>RELINQUISHED BY / AFFILIATION</b>
	DATE: 1/20/2023 TIME: 12:09
	Brooke Catton / APC GTL
	DATE: 1/25/23 TIME: 10:50
	Anthony Gogins

<b>SAMPLER NAME AND SIGNATURE</b>	<b>RECEIVED ON</b>
PRINT Name of SAMPLER:	TEMP in C
SIGNATURE of SAMPLER:	
Dallas Gentry/TJ Daugherty / Anthony Gogins	
DATE Signed:	

WO#: 30556958



30556958



# CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Alabama Power Company	Report To:	Brooke Caton	Attention:	Brooke Caton
Address:	744 Highway 87 GSC Bldg #8 Calera, AL 35040	Copy To:	Renee Jernigan & Blaine Denton	Company Name:	Alabama Power Co.
Email To:	tbwill@southernco.com	Purchase Order #:	APC10755638	Address:	744 Highway 87 GSC Bldg #8
Phone:	205-664-6101   Fax:	Project Name:	Plant Gaston Gypsum Storage Area	Place Quote:	CCR
Requested Due Date:	28 days	Project Number:	WMVGASG_1395	Pace Project Manager:	Skyler Richmond
				Pace Profile #:	16788
				Regulatory Agency:	AL

ITEM #	Description	Station Name Location_ID	Site Name Facility_ID	Matrix Code (see valid codes to left)	Sample Duplicate	Field Filtered	# OF CONTAINERS	Preservatives			Analytes Test Y/N	Requested Analysis Filtered (Y/N)	Total Radium Sum	Residual Chlorine (Y/N)	SAMPLE CONDITIONS
								Unpreserved	H2SO4	HNO3					
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME								
1	BD01242 MW-2	APCO-GN-GSA-MW-2	APCO_Gaston_GypsumStore	GW G			1			X	X	X			
2	BD01243 MW-14S	APCO-GN-GSA-MW-14S	APCO_Gaston_GypsumStore	GW G			1			X	X	X			
3	BD01244 MW-15	APCO-GN-GSA-MW-15	APCO_Gaston_GypsumStore	GW G			1			X	X	X			
4	BD01245 FB-2	APCO-GN-GSA-FB-02	APCO_Gaston_GypsumStore	GW G			1			X	X	X			
5	BD01246 MW-3	APCO-GN-GSA-MW-3	APCO_Gaston_GypsumStore	GW G			1			X	X	X			
6	BD01247 MW-13	APCO-GN-GSA-MW-13	APCO_Gaston_GypsumStore	GW G	X		3			X	X	X			
7	BD01248 EB-1	APCO-GN-GSA-EB-01	APCO_Gaston_GypsumStore	GW G			1			X	X	X			
8															
9															
10															
11															
12															
		Brooke Caton / APC GTL	1/20/2023	12:09											

<b>W0# : 30556958</b> PM: SCR Due Date: 02/22/23 CLIENT: ALABAMA PWR		Dallas Gentry/TJ Daugherty / Anthony Giggins DATE Signed:	
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: SIGNATURE of SAMPLER:		Received on _____ TEMP in C _____ Sealed _____ Custody _____ Rooter _____ Samples _____	



DC#\_Title: ENV-FRM-GBUR-0088 v02\_Sample Condition Upon Receipt-  
Pittsburgh

Effective Date: 10/03/2022

WO#: 30556958

Client Name: Alabama Power

PM: SCR Due Date: 02/22/23  
CLIENT: ALABAMA PWR

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other

Tracking Number: 6154 0259 3769

Examined By PS  
Labeled By PS  
Temped By

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

Comments:				pH paper Lot#	D.P.D. Residual Chlorine Lot #
	Yes	No	NA	1002221	
Chain of Custody Present	/			1.	
Chain of Custody Filled Out: -Were client corrections present on COC	/			2.	
Chain of Custody Relinquished	/			3.	
Sampler Name & Signature on COC:		/		4.	
Sample Labels match COC: -Includes date/time/ID Matrix:	/			5.	
Samples Arrived within Hold Time:	/			6.	
Short Hold Time Analysis (<72hr remaining):		/		7.	
Rush Turn Around Time Requested:		/		8.	
Sufficient Volume:	/			9.	
Correct Containers Used: -Pace Containers Used	/			10.	
Containers Intact:	/			11.	
Orthophosphate field filtered:			/	12.	
Hex Cr Aqueous samples field filtered:			/	13.	
Organic Samples checked for dechlorination			/	14.	
Filtered volume received for dissolved tests:			/	15.	
All containers checked for preservation: exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix	/			16.	
All containers meet method preservation requirements:	/			Initial when completed PS	Date/Time of Preservation
Headspace in VOA Vials (>6mm):			/	Lot# of added Preservative	
Trip Blank Present:		/		17.	
Trip Blank Custody Seals Present		/		18.	
Rad Samples Screened <0.5 mrem/hr.	/			Initial when completed PS	Date: 1/25/23 Survey Meter SN: 1563
Comments:					

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office. PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

Client Plant Gaston Gypsum Profile Number 16788  
 Site MS/MSD 019+020 Notes \*MS/MSD 019+020  
 Page 1 of 2

Sample Line Item	Amber Glass					Plastic					Vials					Other											
	AG1H	AG3S	AG3U	AG5U	AG5T	BP1U	BP2S	BP2U	BP3C	BP3N	BP3S	BP3U	DG9S	VG9H	VG9T	VG9U	VOAK	WG9U	WG9V	WG9W	ZPLC	GCUB	GJN	12GN	GN	BG1U	
001					WT																						
002																											
003																											
004																											
005																											
006																											
007																											
008																											
009																											
2010																											
011																											
012																											

**WO#: 30556958**

Due Date: 02/22/23  
 PM: SCR  
 CLIENT: ALABAMA PWR

### Glass

GJN	1 Gallon Jug with HNO3	DG9S	40mL amber VOA vial H2SO4
AG5U	100mL amber glass unpreserved	VG9U	40mL clear VOA vial
AG5T	100mL amber glass Na Thiosulfate	VG9T	40mL clear VOA vial Na Thiosulfate
GJN	1 Gallon Jug	VG9H	40mL clear VOA vial HCl
AG1S	1L amber glass H2SO4	JGFU	4oz amber wide jar
AG1H	1L amber glass HCl	WGFU	4oz wide jar unpreserved
AG1T	1L amber glass NA Thiosulfate	BG2U	500mL clear glass unpreserved
BG1U	1L clear glass unpreserved	AG2U	500mL amber glass unpreserved
AG3S	250mL amber glass H2SO4	WGKU	8oz wide jar unpreserved
AG3U	250mL amber glass unpreserved	GN	General

### Plastic/Misc.

GCUB	1 gallon cubitainer	EZ1	5g Encore
12GN	1/2 gallon cubitainer	VOAK	Kit Volatile Solid
SP5T	120mL coliform Na Thiosulfate	I	Wipe/Swab
BP1N	1L plastic HNO3	ZPLC	Siploc Bag
BP1U	1L plastic unpreserved	WT	Water
BP3S	250mL plastic H2SO4	SL	Solid
BP3N	250mL plastic HNO3	OL	Non-Aq Liquid
BP3U	250mL plastic unpreserved	WP	Wipe
BP3C	250mL plastic NaOH		
BP2S	500mL plastic H2SO4		
BP2U	500mL plastic unpreserved		

Container Codes

Client: Plant Gasten Gypsum Profile Number: 16788

Site: MS/MSD Notes: 019 020 Page 2 of 2

Sample Line Item	Amber Glass					Plastic					Vials					Other													
	AG1H	AG3S	AG3U	AG5U	AG5T	BP1U	BP2S	BP2U	BP3C	BP3N	BP3S	BP3U	DG9S	VG9H	VG9T	VG9U	VOAK	WG9U	WG9T	WG9U	WGPU	ZPLC	GCUB	GJN	12GN	GN	BG1U		
013																													
014																													
015																													
016																													
017																													
018																													
019																													
020																													
021																													

WO#: 30556958

PM: SCR Due Date: 02/22/23  
 CLIENT: ALABAMA PMR

Container Codes

Glass	
GJN	1 Gallon Jug with HNO3
AG5U	40mL amber VOA vial H2SO4
AG5T	40mL clear VOA vial
GJN	40mL clear VOA vial Na Thiosulfate
AG1S	40mL clear VOA vial HCl
AG1H	4oz amber wide jar
AG1T	4oz wide jar unpreserved
BG1U	500mL clear glass unpreserved
AG3S	500mL amber glass unpreserved
AG3U	8oz wide jar unpreserved
	General

Plastic/Misc.	
GCUB	1 gallon cubitainer
12GN	1/2 gallon cubitainer
SP5T	120mL coliform Na Thiosulfate
BP1N	1L plastic HNO3
BP1U	1L plastic unpreserved
BP3S	250mL plastic H2SO4
BP3N	250mL plastic HNO3
BP3U	250mL plastic unpreserved
BP3C	250mL plastic NaOH
BP2S	500mL plastic H2SO4
BP2U	500mL plastic unpreserved



## Quality Control Sample Performance Assessment

Test: Ra-228  
Analyst: JJS1  
Date: 1/30/2023  
Worklist: 71164  
Matrix: WT

**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

Method Blank Assessment	
MB Sample ID	2733277
MB concentration:	0.387
M/B 2 Sigma CSU:	0.291
MB MDC:	0.569
MB Numerical Performance Indicator:	2.61
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS71164	LCS071164
Count Date:	2/1/2023	
Spike I.D.:	22-040	
Decay Corrected Spike Concentration (pCi/mL):	33.700	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.806	
Target Conc. (pCi/L, g, F):	4.182	
Uncertainty (Calculated):	0.205	
Result (pCi/L, g, F):	2.704	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.654	
Numerical Performance Indicator:	-4.23	
Percent Recovery:	64.66%	
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:	1/18/2023	
Sample I.D.:	30556958018	
Sample MS I.D.:	30556958019	
Sample MSD I.D.:	30556958020	
Spike I.D.:	22-040	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	33.856	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.800	
MS Target Conc. (pCi/L, g, F):	8.464	
MSD Aliquot (L, g, F):	0.801	
MSD Target Conc. (pCi/L, g, F):	8.450	
MS Spike Uncertainty (calculated):	0.415	
MSD Spike Uncertainty (calculated):	0.414	
Sample Result:	0.201	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.281	
Sample Matrix Spike Result:	7.519	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.511	
Sample Matrix Spike Duplicate Result:	7.007	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.423	
MS Numerical Performance Indicator:	-1.410	
MSD Numerical Performance Indicator:	-2.136	
MS Percent Recovery:	86.47%	
MSD Percent Recovery:	80.55%	
MS Status vs Numerical Indicator:	Pass	
MSD Status vs Numerical Indicator:	Warning	
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.:	30556958018	
Sample MS I.D.:	30556958019	
Sample MSD I.D.:	30556958020	
Sample Matrix Spike Result:	7.519	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.511	
Sample Matrix Spike Duplicate Result:	7.007	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.423	
Duplicate Numerical Performance Indicator:	0.483	
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	7.09%	
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:

# Quality Control Sample Performance Assessment



Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-226  
 Analyst: RMS  
 Date: 2/1/2023  
 Worklist: 71163  
 Matrix: LWJ

Method Blank Assessment	
MB Sample ID	2733276
MB concentration:	0.000
MB Counting Uncertainty:	0.080
MB MDC:	0.213
MB Numerical Performance Indicator:	0.01
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCS D (Y or N)?	Y
Count Date:		LCS71163	LCS71163
Spike I.D.:		2/17/2023	2/17/2023
Decay Corrected Spike Concentration (pCi/mL):		19-033	19-033
Volume Used (mL):		24.019	24.019
Aliquot Volume (L, g, F):		0.10	0.10
Target Conc. (pCi/L, g, F):		0.502	0.504
Uncertainty (Calculated):		4.780	4.761
Result (pCi/L, g, F):		0.057	0.057
LCS/LCSD Counting Uncertainty (pCi/L, g, F):		4.575	4.343
Numerical Performance Indicator:		0.451	0.440
Percent Recovery:		-0.89	-1.85
Status vs Numerical Indicator:		95.71%	91.20%
Upper % Recovery Limits:		N/A	N/A
Lower % Recovery Limits:		Pass	Pass
		125%	125%
		75%	75%

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:		1/18/2023	
Sample I.D.:		30556958018	
Sample MS I.D.:		30556958019	
Sample MSD I.D.:		30556958020	
Spike I.D.:		19-033	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		24.020	
Spike Volume Used in MS (mL):		0.20	
Spike Volume Used in MSD (mL):		0.20	
MS Aliquot (L, g, F):		0.306	
MS Target Conc. (pCi/L, g, F):		15.723	
MSD Aliquot (L, g, F):		0.288	
MSD Target Conc. (pCi/L, g, F):		16.663	
MS Spike Uncertainty (calculated):		0.189	
MS/MSD Spike Uncertainty (calculated):		0.200	
Sample Result Counting Uncertainty (pCi/L, g, F):		0.175	
Sample Matrix Spike Result:		0.140	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		1.065	
Sample Matrix Spike Duplicate Result:		17.798	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		1.163	
MS Numerical Performance Indicator:		0.084	
MSD Numerical Performance Indicator:		1.583	
MS Percent Recovery:		100.30%	
MSD Percent Recovery:		105.76%	
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		LCS71163	LCS71163
Sample I.D.:		LCS71163	LCS71163
Duplicate Sample I.D.:		LCS71163	LCS71163
Sample Result (pCi/L, g, F):		4.575	4.575
Sample Duplicate Result (pCi/L, g, F):		0.451	0.451
Sample Duplicate Counting Uncertainty (pCi/L, g, F):		4.343	4.343
Are sample and/or duplicate results below RL?		NO	NO
Duplicate Numerical Performance Indicator:		0.723	0.723
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:		4.82%	4.82%
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		MS/MSD 1	MS/MSD 2
Sample I.D.:		30556958018	
Sample MS I.D.:		30556958019	
Sample MSD I.D.:		30556958020	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		1.065	
Sample Matrix Spike Duplicate Result:		17.798	
Duplicate Numerical Performance Indicator:		1.163	
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:		5.30%	
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:

*M/2/21/23*

*AM 2/1/23*

# Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226  
Analyst: RMS  
Date: 2/16/2023  
Worklist: 71235  
Matrix: LW

Method Blank Assessment	
MB Sample ID	2736986
MB concentration:	0.017
MB Counting Uncertainty:	0.063
MB MDC:	0.161
MB Numerical Performance Indicator:	0.53
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCSD (Y or N)?	Y
		LCSD71235	LCSD71235
Count Date:	2/16/2023	2/16/2023	19-033
Spike I.D.:	19-033	19-033	24.019
Decay Corrected Spike Concentration (pCi/mL):	24.019	0.10	0.506
Volume Used (mL):	0.10	4.754	4.748
Aliquot Volume (L, g, F):	0.505	0.057	5.279
Target Conc. (pCi/L, g, F):	4.754	0.523	1.98
Uncertainty (Calculated):	0.057	111.17%	N/A
Result (pCi/L, g, F):	5.396	Pass	125%
LCSD Counting Uncertainty (pCi/L, g, F):	0.534	75%	
Numerical Performance Indicator:	2.34		
Percent Recovery:	113.49%		
Status vs Numerical Indicator:	N/A		
Status vs Recovery:	Pass		
Upper % Recovery Limits:	125%		
Lower % Recovery Limits:	75%		

Sample Matrix	Sample Collection Date:	MS/MSD 1	MS/MSD 2
Sample Matrix Spike Control Assessment	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):	MSD Spike Uncertainty (calculated):		
Sample Result:	Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:	Sample Matrix Spike Counting Uncertainty (pCi/L, g, F):		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	Sample Matrix Spike Duplicate Result:		
Sample Matrix Spike Duplicate Result:	Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	MS Numerical Performance Indicator:		
MS Numerical Performance Indicator:	MS Percent Recovery:		
MSD Percent Recovery:	MSD Status vs Numerical Indicator:		
MS Status vs Numerical Indicator:	MS Status vs Recovery:		
MS Status vs Recovery:	MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:	MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		92649043001	92649043001 DUJP
Sample I.D.:	LCSD71235	LCSD71235	LCSD71235
Duplicate Sample I.D.:	5.396	0.402	0.156
Sample Result Counting Uncertainty (pCi/L, g, F):	0.534	0.412	0.153
Sample Duplicate Result (pCi/L, g, F):	5.279	See Below ##	-0.085
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.523	2.32%	N/A
Are sample and/or duplicate results below RL?	NO	Pass	25%
Duplicate Numerical Performance Indicator:	0.307		
(Based on the LCSD/LCSD Percent Recoveries) Duplicate RPD:	2.07%		
Duplicate Status vs Numerical Indicator:	N/A		
Duplicate Status vs RPD:	Pass		
% RPD Limit:	25%		

Matrix Spike/Matrix Spike Duplicate Sample Assessment	Sample I.D.:	Sample MS I.D.:	Sample MSD I.D.:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	Sample Matrix Spike Result:	Sample Matrix Spike Duplicate Result:	Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:	Duplicate Numerical Performance Indicator:	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:	

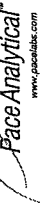
## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*Handwritten signature and date: 2/16/23*

*Handwritten text: LAM 2/16/23*

# Quality Control Sample Performance Assessment



**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228  
Analyst: JJS1  
Date: 2/10/2023  
Worklist: 71236  
Matrix: WT

Method Blank Assessment	
MB Sample ID	2736984
MB concentration:	0.204
MB 2 Sigma CSU:	0.336
MB MDC:	0.731
MB Numerical Performance Indicator:	1.19
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCS/D (Y or N)?	
		LCS71236	Y
Count Date:	Spike I.D.:	2/13/2023	2/13/2023
Decay Corrected Spike Concentration (pCi/mL):	Volume Used (mL):	22-040	33.566
Aliquot Volume (L, g, F):	Target Conc. (pCi/L, g, F):	0.10	0.10
Uncertainty (Calculated):	Result (pCi/L, g, F):	0.803	0.801
	LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	4.181	4.189
	Numerical Performance Indicator:	0.205	0.205
	Percent Recovery:	3.445	3.137
	Status vs Numerical Indicator:	0.889	0.838
	Upper % Recovery Limits:	-1.58	-2.39
	Lower % Recovery Limits:	82.40%	74.88%
		N/A	N/A
		Pass	Pass
		135%	135%
		60%	60%

Duplicate Sample Assessment		Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	Duplicate Sample I.D.:	Sample I.D.:	Sample I.D.:
Sample Result (pCi/L, g, F):	Sample Result (pCi/L, g, F):	Sample MS I.D.:	Sample MS I.D.:
Sample Result 2 Sigma CSU (pCi/L, g, F):	Sample Result 2 Sigma CSU (pCi/L, g, F):	Sample MS I.D.:	Sample MS I.D.:
Sample Duplicate Result (pCi/L, g, F):	Sample Duplicate Result (pCi/L, g, F):	Sample Matrix Spike Result:	Sample Matrix Spike Result:
Are sample and/or duplicate results below RL?	Are sample and/or duplicate results below RL?	Sample Matrix Spike Duplicate Result:	Sample Matrix Spike Duplicate Result:
Duplicate Numerical Performance Indicator:	Duplicate Numerical Performance Indicator:	Duplicate Numerical Performance Indicator:	Duplicate Numerical Performance Indicator:
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	(Based on the Percent Recoveries) MS/MSD Duplicate RPD:
Duplicate Status vs Numerical Indicator:	Duplicate Status vs Numerical Indicator:	MS/MSD Duplicate Status vs Numerical Indicator:	MS/MSD Duplicate Status vs Numerical Indicator:
% RPD Limit:	% RPD Limit:	% RPD Limit:	% RPD Limit:

# Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*[Handwritten signatures and dates]*  
2/19/23



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**

### **2023 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).

Three field readings for MW-6 were qualified due to pH readings falling outside of the bracketed calibration range. The below qualifier was used:

- E – Estimated reported value exceeded calibration range

Field quality control procedures were performed as follows:

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





# Water Field Group Calibration Form

Calibration ID   
 Start Date/Time

Cal/Initial LCS Analyst   
 AquaTroll ID (if used)   
 Worksheet Type

Initial Location   
 WFG Group

## Temp, °C

Meter Tracking ID   
 Cal Date/Time   
 NIST Therm. ID   
 NIST Therm. Value   
 LCS Date/Time   
 LCS Reading   
 Difference (+/- 1.00)

LCS not needed when NIST thermometer used

## Dissolved Oxygen, mg/L

Meter Tracking ID   
 Cal Date/Time   
 LCS Date/Time

Temp °C	<input type="text"/>	LCS Value	<input type="text"/>
BP mmHg	<input type="text"/>	LCS Reading	<input type="text"/>
Cond uS/cm	<input type="text"/>	Difference (+/- 0.5)	<input type="text"/>

## pH, SU

Meter Tracking ID   
 Cal Date/Time   
 Calib. Std. Track ID   
 Calib. Std. Track ID   
 Calib. Std. Track ID   
 LCS Date/Time   
 LCS Tracking ID   
 Temp °C   
 LCS Value   
 LCS Reading   
 Difference (+/- 0.20)

## ORP, mV

Meter Tracking ID   
 Cal Date/Time   
 Calib. Std. Tracking ID   
 LCS Date/Time   
 LCS Tracking ID   
 Temp °C   
 LCS Value   
 LCS Reading   
 Difference (+/- 44mv)

## Conductivity, uS/cm

Meter Tracking ID   
 Cal Date/Time   
 Calib. Std. Tracking ID   
 LCS Date/Time   
 LCS Tracking ID   
 LCS Value   
 LCS Reading   
 Difference (+/- 10%)

## Turbidity, NTU

Meter Tracking ID   
 Cal Date/Time   
 Calib. Std. Tracking ID   
 LCS Date/Time   
 LCS Tracking ID   
 LCS Value   
 LCS Reading   
 Difference (+/- 10%)



# Water Field Group Calibration Form

Calibration ID

## Mid-Day LCS Check

Analyst  Location  AquaTroll ID

	Temp °C (+/- 1.00)	DO mg/L (+/-0.50)	pH SU (+/- 0.20)	ORP mV (+/- 44)	Conductivity uS/cm (+/- 10%)	Turbidity NTU (+/-10%)
Date/Time						
Turb. Meter ID						
LCS Tracking ID						
LCS Value						
LCS Reading						
Difference						
BP, mm Hg						
Temp, °C						
Sp Cond, µS/cm						

## Final LCS Check

Analyst  Location  AquaTroll ID

	Temp °C (+/- 1.00)	DO mg/L (+/-0.50)	pH SU (+/- 0.20)	ORP mV (+/- 44)	Conductivity uS/cm (+/- 10%)	Turbidity NTU (+/-10%)
Date/Time						
Turb. Meter ID						
LCS Tracking ID						
LCS Value						
LCS Reading						
Difference						
BP, mm Hg						
Temp, °C						
Sp Cond, µS/cm						

## Comments



# Water Field Group Calibration Form

Calibration ID   
 Start Date/Time

Cal/Initial LCS Analyst   
 AquaTroll ID (if used)   
 Worksheet Type

Initial Location   
 WFG Group

## Temp, °C

Meter Tracking ID   
 Cal Date/Time   
 NIST Therm. ID   
 NIST Therm. Value   
 LCS Date/Time   
 LCS Reading   
 Difference (+/- 1.00)

LCS not needed when NIST thermometer used

## Dissolved Oxygen, mg/L

Meter Tracking ID   
 Cal Date/Time   
 LCS Date/Time   
 Temp °C   
 BP mmHg   
 Cond uS/cm   
 DO mg/L  
 LCS Value   
 LCS Reading   
 Difference (+/- 0.5)

## pH, SU

Meter Tracking ID   
 Cal Date/Time   
 Calib. Std. Track ID   
 Calib. Std. Track ID   
 Calib. Std. Track ID   
 LCS Date/Time   
 LCS Tracking ID   
 Temp °C   
 LCS Value   
 LCS Reading   
 Difference (+/- 0.20)

## ORP, mV

Meter Tracking ID   
 Cal Date/Time   
 Calib. Std. Tracking ID   
 LCS Date/Time   
 LCS Tracking ID   
 Temp °C   
 LCS Value   
 LCS Reading   
 Difference (+/- 44mv)

## Conductivity, uS/cm

Meter Tracking ID   
 Cal Date/Time   
 Calib. Std. Tracking ID   
 LCS Date/Time   
 LCS Tracking ID   
 LCS Value   
 LCS Reading   
 Difference (+/- 10%)

## Turbidity, NTU

Meter Tracking ID   
 Cal Date/Time   
 Calib. Std. Tracking ID   
 LCS Date/Time   
 LCS Tracking ID   
 LCS Value   
 LCS Reading   
 Difference (+/- 10%)



# Water Field Group Calibration Form

Calibration ID

## Mid-Day LCS Check

Analyst  Location  AquaTroll ID

	Temp °C (+/- 1.00)	DO mg/L (+/-0.50)	pH SU (+/- 0.20)	ORP mV (+/- 44)	Conductivity uS/cm (+/- 10%)	Turbidity NTU (+/-10%)
Date/Time						
Turb. Meter ID						
LCS Tracking ID						
LCS Value						
LCS Reading						
Difference						
BP, mm Hg						
Temp, °C						
Sp Cond, µS/cm						

## Final LCS Check

Analyst  Location  AquaTroll ID

	Temp °C (+/- 1.00)	DO mg/L (+/-0.50)	pH SU (+/- 0.20)	ORP mV (+/- 44)	Conductivity uS/cm (+/- 10%)	Turbidity NTU (+/-10%)
Date/Time						
Turb. Meter ID						
LCS Tracking ID						
LCS Value						
LCS Reading						
Difference						
BP, mm Hg						
Temp, °C						
Sp Cond, µS/cm						

## Comments



# Water Field Group Calibration Form

Calibration ID   
 Start Date/Time

Cal/Initial LCS Analyst   
 AquaTroll ID (if used)   
 Worksheet Type

Initial Location   
 WFG Group

## Temp, °C

Meter Tracking ID   
 Cal Date/Time   
 NIST Therm. ID   
 NIST Therm. Value   
 LCS Date/Time   
 LCS Reading   
 Difference (+/- 1.00)

LCS not needed when NIST thermometer used

## Dissolved Oxygen, mg/L

Meter Tracking ID   
 Cal Date/Time   
 LCS Date/Time

Temp °C	<input type="text"/>	LCS Value	<input type="text"/>
BP mmHg	<input type="text"/>	LCS Reading	<input type="text"/>
Cond uS/cm	<input type="text"/>	Difference (+/- 0.5)	<input type="text"/>

## pH, SU

Meter Tracking ID   
 Cal Date/Time   
 Calib. Std. Track ID   
 Calib. Std. Track ID   
 Calib. Std. Track ID   
 LCS Date/Time   
 LCS Tracking ID   
 Temp °C   
 LCS Value   
 LCS Reading   
 Difference (+/- 0.20)

## ORP, mV

Meter Tracking ID   
 Cal Date/Time   
 Calib. Std. Tracking ID   
 LCS Date/Time   
 LCS Tracking ID   
 Temp °C   
 LCS Value   
 LCS Reading   
 Difference (+/- 44mv)

## Conductivity, uS/cm

Meter Tracking ID   
 Cal Date/Time   
 Calib. Std. Tracking ID   
 LCS Date/Time   
 LCS Tracking ID   
 LCS Value   
 LCS Reading   
 Difference (+/- 10%)

## Turbidity, NTU

Meter Tracking ID   
 Cal Date/Time   
 Calib. Std. Tracking ID   
 LCS Date/Time   
 LCS Tracking ID   
 LCS Value   
 LCS Reading   
 Difference (+/- 10%)



# Water Field Group Calibration Form

Calibration ID

## Mid-Day LCS Check

Analyst  Location  AquaTroll ID

	Temp °C (+/- 1.00)	DO mg/L (+/-0.50)	pH SU (+/- 0.20)	ORP mV (+/- 44)	Conductivity uS/cm (+/- 10%)	Turbidity NTU (+/-10%)
Date/Time						
Turb. Meter ID						
LCS Tracking ID						
LCS Value						
LCS Reading						
Difference						
BP, mm Hg						
Temp, °C						
Sp Cond, µS/cm						

## Final LCS Check

Analyst  Location  AquaTroll ID

	Temp °C (+/- 1.00)	DO mg/L (+/-0.50)	pH SU (+/- 0.20)	ORP mV (+/- 44)	Conductivity uS/cm (+/- 10%)	Turbidity NTU (+/-10%)
Date/Time						
Turb. Meter ID						
LCS Tracking ID						
LCS Value						
LCS Reading						
Difference						
BP, mm Hg						
Temp, °C						
Sp Cond, µS/cm						

## Comments



**Field Parameters Summary  
Plant Gaston Gypsum Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-1	COND	Conductivity	7/11/2023 14:35	372.18	uS/cm
GN-GSA-MW-1	DO	DO	7/11/2023 14:35	1	mg/L
GN-GSA-MW-1	DTW	Depth to Water Detail	7/11/2023 14:35	29.01	ft
GN-GSA-MW-1	ORP	Oxidation Reduction Potention	7/11/2023 14:35	-98.61	mv
GN-GSA-MW-1	PH	pH	7/11/2023 14:35	7.34	SU
GN-GSA-MW-1	TEMP	Temperature	7/11/2023 14:35	22.02	C
GN-GSA-MW-1	TURB	Turbidity	7/11/2023 14:35	1.57	NTU
GN-GSA-MW-1	COND	Conductivity	7/11/2023 14:40	371.36	uS/cm
GN-GSA-MW-1	DO	DO	7/11/2023 14:40	0.94	mg/L
GN-GSA-MW-1	DTW	Depth to Water Detail	7/11/2023 14:40	29.36	ft
GN-GSA-MW-1	ORP	Oxidation Reduction Potention	7/11/2023 14:40	-108.11	mv
GN-GSA-MW-1	PH	pH	7/11/2023 14:40	7.44	SU
GN-GSA-MW-1	TEMP	Temperature	7/11/2023 14:40	21.85	C
GN-GSA-MW-1	TURB	Turbidity	7/11/2023 14:40	1.56	NTU
GN-GSA-MW-1	COND	Conductivity	7/11/2023 14:45	370.93	uS/cm
GN-GSA-MW-1	DO	DO	7/11/2023 14:45	0.82	mg/L
GN-GSA-MW-1	DTW	Depth to Water Detail	7/11/2023 14:45	29.54	ft
GN-GSA-MW-1	ORP	Oxidation Reduction Potention	7/11/2023 14:45	-116.1	mv
GN-GSA-MW-1	PH	pH	7/11/2023 14:45	7.53	SU
GN-GSA-MW-1	TEMP	Temperature	7/11/2023 14:45	21.76	C
GN-GSA-MW-1	TURB	Turbidity	7/11/2023 14:45	1.75	NTU
GN-GSA-MW-1	COND	Conductivity	7/11/2023 14:50	372.42	uS/cm
GN-GSA-MW-1	DO	DO	7/11/2023 14:50	0.88	mg/L
GN-GSA-MW-1	DTW	Depth to Water Detail	7/11/2023 14:50	29.61	ft
GN-GSA-MW-1	ORP	Oxidation Reduction Potention	7/11/2023 14:50	-119.08	mv
GN-GSA-MW-1	PH	pH	7/11/2023 14:50	7.58	SU
GN-GSA-MW-1	SULFIDE	Sulfide	7/11/2023 14:50	0	mg/L
GN-GSA-MW-1	TEMP	Temperature	7/11/2023 14:50	21.67	C
GN-GSA-MW-1	TURB	Turbidity	7/11/2023 14:50	1.88	NTU

**Field Parameters Summary  
Plant Gaston Gypsum Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-2	COND	Conductivity	7/11/2023 15:47	539.16	uS/cm
GN-GSA-MW-2	DO	DO	7/11/2023 15:47	1.33	mg/L
GN-GSA-MW-2	DTW	Depth to Water Detail	7/11/2023 15:47	21.71	ft
GN-GSA-MW-2	ORP	Oxidation Reduction Potention	7/11/2023 15:47	-11.15	mv
GN-GSA-MW-2	PH	pH	7/11/2023 15:47	6.93	SU
GN-GSA-MW-2	TEMP	Temperature	7/11/2023 15:47	24.74	C
GN-GSA-MW-2	TURB	Turbidity	7/11/2023 15:47	4.92	NTU
GN-GSA-MW-2	COND	Conductivity	7/11/2023 15:52	540.84	uS/cm
GN-GSA-MW-2	DO	DO	7/11/2023 15:52	1.41	mg/L
GN-GSA-MW-2	DTW	Depth to Water Detail	7/11/2023 15:52	21.8	ft
GN-GSA-MW-2	ORP	Oxidation Reduction Potention	7/11/2023 15:52	-5.97	mv
GN-GSA-MW-2	PH	pH	7/11/2023 15:52	6.94	SU
GN-GSA-MW-2	TEMP	Temperature	7/11/2023 15:52	24.52	C
GN-GSA-MW-2	TURB	Turbidity	7/11/2023 15:52	5.03	NTU
GN-GSA-MW-2	COND	Conductivity	7/11/2023 15:57	531.27	uS/cm
GN-GSA-MW-2	DO	DO	7/11/2023 15:57	2.13	mg/L
GN-GSA-MW-2	DTW	Depth to Water Detail	7/11/2023 15:57	21.91	ft
GN-GSA-MW-2	ORP	Oxidation Reduction Potention	7/11/2023 15:57	5.85	mv
GN-GSA-MW-2	PH	pH	7/11/2023 15:57	6.94	SU
GN-GSA-MW-2	TEMP	Temperature	7/11/2023 15:57	24.46	C
GN-GSA-MW-2	TURB	Turbidity	7/11/2023 15:57	2.3	NTU
GN-GSA-MW-2	COND	Conductivity	7/11/2023 16:02	510.18	uS/cm
GN-GSA-MW-2	DO	DO	7/11/2023 16:02	2.52	mg/L
GN-GSA-MW-2	DTW	Depth to Water Detail	7/11/2023 16:02	22.03	ft
GN-GSA-MW-2	ORP	Oxidation Reduction Potention	7/11/2023 16:02	11.76	mv
GN-GSA-MW-2	PH	pH	7/11/2023 16:02	6.99	SU
GN-GSA-MW-2	TEMP	Temperature	7/11/2023 16:02	24.23	C
GN-GSA-MW-2	TURB	Turbidity	7/11/2023 16:02	2.24	NTU
GN-GSA-MW-2	COND	Conductivity	7/11/2023 16:07	505.16	uS/cm
GN-GSA-MW-2	DO	DO	7/11/2023 16:07	2.67	mg/L
GN-GSA-MW-2	DTW	Depth to Water Detail	7/11/2023 16:07	22.05	ft
GN-GSA-MW-2	ORP	Oxidation Reduction Potention	7/11/2023 16:07	17.51	mv
GN-GSA-MW-2	PH	pH	7/11/2023 16:07	7.03	SU
GN-GSA-MW-2	TEMP	Temperature	7/11/2023 16:07	23.84	C
GN-GSA-MW-2	TURB	Turbidity	7/11/2023 16:07	2.55	NTU
GN-GSA-MW-2	COND	Conductivity	7/11/2023 16:12	504.68	uS/cm
GN-GSA-MW-2	DO	DO	7/11/2023 16:12	2.72	mg/L
GN-GSA-MW-2	DTW	Depth to Water Detail	7/11/2023 16:12	22.06	ft
GN-GSA-MW-2	ORP	Oxidation Reduction Potention	7/11/2023 16:12	23.92	mv
GN-GSA-MW-2	PH	pH	7/11/2023 16:12	7.03	SU
GN-GSA-MW-2	TEMP	Temperature	7/11/2023 16:12	23.83	C
GN-GSA-MW-2	TURB	Turbidity	7/11/2023 16:12	2.32	NTU
GN-GSA-MW-2	COND	Conductivity	7/11/2023 16:17	507.59	uS/cm
GN-GSA-MW-2	DO	DO	7/11/2023 16:17	2.77	mg/L
GN-GSA-MW-2	DTW	Depth to Water Detail	7/11/2023 16:17	22.06	ft
GN-GSA-MW-2	ORP	Oxidation Reduction Potention	7/11/2023 16:17	28.58	mv

**Field Parameters Summary  
Plant Gaston Gypsum Pond**

<b>WELL ID</b>	<b>PARAMETER</b>	<b>DESCRIPTION</b>	<b>TIME OF READING</b>	<b>VALUE</b>	<b>UNIT</b>
GN-GSA-MW-2	PH	pH	7/11/2023 16:17	7.04	SU
GN-GSA-MW-2	SULFIDE	Sulfide	7/11/2023 16:17	0	mg/L
GN-GSA-MW-2	TEMP	Temperature	7/11/2023 16:17	24.13	C
GN-GSA-MW-2	TURB	Turbidity	7/11/2023 16:17	2.24	NTU

**Field Parameters Summary  
Plant Gaston Gypsum Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-3	COND	Conductivity	7/12/2023 11:16	0.04	uS/cm
GN-GSA-MW-3	DO	DO	7/12/2023 11:16	6.76	mg/L
GN-GSA-MW-3	DTW	Depth to Water Detail	7/12/2023 11:16	30.52	ft
GN-GSA-MW-3	ORP	Oxidation Reduction Potention	7/12/2023 11:16	216.31	mv
GN-GSA-MW-3	PH	pH	7/12/2023 11:16	5.86	SU
GN-GSA-MW-3	TEMP	Temperature	7/12/2023 11:16	36.59	C
GN-GSA-MW-3	TURB	Turbidity	7/12/2023 11:16	14.6	NTU
GN-GSA-MW-3	COND	Conductivity	7/12/2023 11:20	232.24	uS/cm
GN-GSA-MW-3	DO	DO	7/12/2023 11:20	0.92	mg/L
GN-GSA-MW-3	DTW	Depth to Water Detail	7/12/2023 11:20	30.68	ft
GN-GSA-MW-3	ORP	Oxidation Reduction Potention	7/12/2023 11:20	233.02	mv
GN-GSA-MW-3	PH	pH	7/12/2023 11:20	5.98	SU
GN-GSA-MW-3	TEMP	Temperature	7/12/2023 11:20	21.48	C
GN-GSA-MW-3	TURB	Turbidity	7/12/2023 11:20	14.9	NTU
GN-GSA-MW-3	COND	Conductivity	7/12/2023 11:25	275.49	uS/cm
GN-GSA-MW-3	DO	DO	7/12/2023 11:25	0.94	mg/L
GN-GSA-MW-3	DTW	Depth to Water Detail	7/12/2023 11:25	30.68	ft
GN-GSA-MW-3	ORP	Oxidation Reduction Potention	7/12/2023 11:25	245.65	mv
GN-GSA-MW-3	PH	pH	7/12/2023 11:25	5.85	SU
GN-GSA-MW-3	TEMP	Temperature	7/12/2023 11:25	21.51	C
GN-GSA-MW-3	TURB	Turbidity	7/12/2023 11:25	13.5	NTU
GN-GSA-MW-3	COND	Conductivity	7/12/2023 11:30	294.52	uS/cm
GN-GSA-MW-3	DO	DO	7/12/2023 11:30	0.9	mg/L
GN-GSA-MW-3	DTW	Depth to Water Detail	7/12/2023 11:30	30.68	ft
GN-GSA-MW-3	ORP	Oxidation Reduction Potention	7/12/2023 11:30	244.54	mv
GN-GSA-MW-3	PH	pH	7/12/2023 11:30	5.89	SU
GN-GSA-MW-3	TEMP	Temperature	7/12/2023 11:30	21.73	C
GN-GSA-MW-3	TURB	Turbidity	7/12/2023 11:30	13.4	NTU
GN-GSA-MW-3	COND	Conductivity	7/12/2023 11:35	341.31	uS/cm
GN-GSA-MW-3	DO	DO	7/12/2023 11:35	0.91	mg/L
GN-GSA-MW-3	DTW	Depth to Water Detail	7/12/2023 11:35	30.68	ft
GN-GSA-MW-3	ORP	Oxidation Reduction Potention	7/12/2023 11:35	239	mv
GN-GSA-MW-3	PH	pH	7/12/2023 11:35	6.04	SU
GN-GSA-MW-3	TEMP	Temperature	7/12/2023 11:35	21.82	C
GN-GSA-MW-3	TURB	Turbidity	7/12/2023 11:35	11.8	NTU
GN-GSA-MW-3	COND	Conductivity	7/12/2023 11:40	351.94	uS/cm
GN-GSA-MW-3	DO	DO	7/12/2023 11:40	0.96	mg/L
GN-GSA-MW-3	DTW	Depth to Water Detail	7/12/2023 11:40	30.68	ft
GN-GSA-MW-3	ORP	Oxidation Reduction Potention	7/12/2023 11:40	235.19	mv
GN-GSA-MW-3	PH	pH	7/12/2023 11:40	6.12	SU
GN-GSA-MW-3	TEMP	Temperature	7/12/2023 11:40	21.2	C
GN-GSA-MW-3	TURB	Turbidity	7/12/2023 11:40	11.08	NTU
GN-GSA-MW-3	COND	Conductivity	7/12/2023 11:45	355.56	uS/cm
GN-GSA-MW-3	DO	DO	7/12/2023 11:45	0.99	mg/L
GN-GSA-MW-3	DTW	Depth to Water Detail	7/12/2023 11:45	30.68	ft
GN-GSA-MW-3	ORP	Oxidation Reduction Potention	7/12/2023 11:45	232.15	mv

**Field Parameters Summary  
Plant Gaston Gypsum Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-3	PH	pH	7/12/2023 11:45	6.17	SU
GN-GSA-MW-3	TEMP	Temperature	7/12/2023 11:45	21.05	C
GN-GSA-MW-3	TURB	Turbidity	7/12/2023 11:45	10.91	NTU
GN-GSA-MW-3	COND	Conductivity	7/12/2023 11:50	359.76	uS/cm
GN-GSA-MW-3	DO	DO	7/12/2023 11:50	1.01	mg/L
GN-GSA-MW-3	DTW	Depth to Water Detail	7/12/2023 11:50	30.68	ft
GN-GSA-MW-3	ORP	Oxidation Reduction Potention	7/12/2023 11:50	228.77	mv
GN-GSA-MW-3	PH	pH	7/12/2023 11:50	6.21	SU
GN-GSA-MW-3	SULFIDE	Sulfide	7/12/2023 11:50	0	mg/L
GN-GSA-MW-3	TEMP	Temperature	7/12/2023 11:50	21.46	C
GN-GSA-MW-3	TURB	Turbidity	7/12/2023 11:50	9.94	NTU

**Field Parameters Summary  
Plant Gaston Gypsum Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-5	COND	Conductivity	7/10/2023 12:30	608.38	uS/cm
GN-GSA-MW-5	DO	DO	7/10/2023 12:30	0.35	mg/L
GN-GSA-MW-5	DTW	Depth to Water Detail	7/10/2023 12:30	29.62	ft
GN-GSA-MW-5	ORP	Oxidation Reduction Potention	7/10/2023 12:30	-26.61	mv
GN-GSA-MW-5	PH	pH	7/10/2023 12:30	6.33	SU
GN-GSA-MW-5	TEMP	Temperature	7/10/2023 12:30	19.92	C
GN-GSA-MW-5	TURB	Turbidity	7/10/2023 12:30	21.6	NTU
GN-GSA-MW-5	COND	Conductivity	7/10/2023 12:35	633.52	uS/cm
GN-GSA-MW-5	DO	DO	7/10/2023 12:35	0.29	mg/L
GN-GSA-MW-5	DTW	Depth to Water Detail	7/10/2023 12:35	29.72	ft
GN-GSA-MW-5	ORP	Oxidation Reduction Potention	7/10/2023 12:35	-15.33	mv
GN-GSA-MW-5	PH	pH	7/10/2023 12:35	6.28	SU
GN-GSA-MW-5	TEMP	Temperature	7/10/2023 12:35	19.79	C
GN-GSA-MW-5	TURB	Turbidity	7/10/2023 12:35	12.06	NTU
GN-GSA-MW-5	COND	Conductivity	7/10/2023 12:40	640.8	uS/cm
GN-GSA-MW-5	DO	DO	7/10/2023 12:40	0.25	mg/L
GN-GSA-MW-5	DTW	Depth to Water Detail	7/10/2023 12:40	29.76	ft
GN-GSA-MW-5	ORP	Oxidation Reduction Potention	7/10/2023 12:40	-13.63	mv
GN-GSA-MW-5	PH	pH	7/10/2023 12:40	6.3	SU
GN-GSA-MW-5	TEMP	Temperature	7/10/2023 12:40	19.86	C
GN-GSA-MW-5	TURB	Turbidity	7/10/2023 12:40	9.24	NTU
GN-GSA-MW-5	COND	Conductivity	7/10/2023 12:45	647.55	uS/cm
GN-GSA-MW-5	DO	DO	7/10/2023 12:45	0.25	mg/L
GN-GSA-MW-5	DTW	Depth to Water Detail	7/10/2023 12:45	29.78	ft
GN-GSA-MW-5	ORP	Oxidation Reduction Potention	7/10/2023 12:45	-11.66	mv
GN-GSA-MW-5	PH	pH	7/10/2023 12:45	6.3	SU
GN-GSA-MW-5	SULFIDE	Sulfide	7/10/2023 12:45	0	mg/L
GN-GSA-MW-5	TEMP	Temperature	7/10/2023 12:45	19.88	C
GN-GSA-MW-5	TURB	Turbidity	7/10/2023 12:45	8.68	NTU

**Field Parameters Summary  
Plant Gaston Gypsum Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-6	COND	Conductivity	7/10/2023 13:41	28.22	uS/cm
GN-GSA-MW-6	DO	DO	7/10/2023 13:41	0.57	mg/L
GN-GSA-MW-6	DTW	Depth to Water Detail	7/10/2023 13:41	29.25	ft
GN-GSA-MW-6	ORP	Oxidation Reduction Potention	7/10/2023 13:41	236.56	mv
GN-GSA-MW-6	PH	pH	7/10/2023 13:41	4.13	SU
GN-GSA-MW-6	TEMP	Temperature	7/10/2023 13:41	21.06	C
GN-GSA-MW-6	TURB	Turbidity	7/10/2023 13:41	19.3	NTU
GN-GSA-MW-6	COND	Conductivity	7/10/2023 13:46	28.08	uS/cm
GN-GSA-MW-6	DO	DO	7/10/2023 13:46	0.4	mg/L
GN-GSA-MW-6	DTW	Depth to Water Detail	7/10/2023 13:46	29.27	ft
GN-GSA-MW-6	ORP	Oxidation Reduction Potention	7/10/2023 13:46	271.29	mv
GN-GSA-MW-6	PH	pH	7/10/2023 13:46	4.23	SU
GN-GSA-MW-6	TEMP	Temperature	7/10/2023 13:46	21.27	C
GN-GSA-MW-6	TURB	Turbidity	7/10/2023 13:46	7.54	NTU
GN-GSA-MW-6	COND	Conductivity	7/10/2023 13:51	28.09	uS/cm
GN-GSA-MW-6	DO	DO	7/10/2023 13:51	0.37	mg/L
GN-GSA-MW-6	DTW	Depth to Water Detail	7/10/2023 13:51	29.27	ft
GN-GSA-MW-6	ORP	Oxidation Reduction Potention	7/10/2023 13:51	283.33	mv
GN-GSA-MW-6	PH	pH	7/10/2023 13:51	4.39	SU
GN-GSA-MW-6	TEMP	Temperature	7/10/2023 13:51	21.38	C
GN-GSA-MW-6	TURB	Turbidity	7/10/2023 13:51	5.22	NTU
GN-GSA-MW-6	COND	Conductivity	7/10/2023 13:56	28.09	uS/cm
GN-GSA-MW-6	DO	DO	7/10/2023 13:56	0.36	mg/L
GN-GSA-MW-6	DTW	Depth to Water Detail	7/10/2023 13:56	29.27	ft
GN-GSA-MW-6	ORP	Oxidation Reduction Potention	7/10/2023 13:56	292.83	mv
GN-GSA-MW-6	PH	pH	7/10/2023 13:56	4.45	SU
GN-GSA-MW-6	TEMP	Temperature	7/10/2023 13:56	21.43	C
GN-GSA-MW-6	TURB	Turbidity	7/10/2023 13:56	4.11	NTU
GN-GSA-MW-6	COND	Conductivity	7/10/2023 14:01	28.17	uS/cm
GN-GSA-MW-6	DO	DO	7/10/2023 14:01	0.34	mg/L
GN-GSA-MW-6	DTW	Depth to Water Detail	7/10/2023 14:01	29.27	ft
GN-GSA-MW-6	ORP	Oxidation Reduction Potention	7/10/2023 14:01	329.84	mv
GN-GSA-MW-6	PH	pH	7/10/2023 14:01	3.95	SU
GN-GSA-MW-6	TEMP	Temperature	7/10/2023 14:01	21.54	C
GN-GSA-MW-6	TURB	Turbidity	7/10/2023 14:01	5.21	NTU
GN-GSA-MW-6	COND	Conductivity	7/10/2023 14:06	28.39	uS/cm
GN-GSA-MW-6	DO	DO	7/10/2023 14:06	0.34	mg/L
GN-GSA-MW-6	DTW	Depth to Water Detail	7/10/2023 14:06	29.27	ft
GN-GSA-MW-6	ORP	Oxidation Reduction Potention	7/10/2023 14:06	355.35	mv
GN-GSA-MW-6	PH	pH	7/10/2023 14:06	3.66	SU
GN-GSA-MW-6	TEMP	Temperature	7/10/2023 14:06	21.32	C
GN-GSA-MW-6	TURB	Turbidity	7/10/2023 14:06	3.07	NTU
GN-GSA-MW-6	COND	Conductivity	7/10/2023 14:11	28.21	uS/cm
GN-GSA-MW-6	DO	DO	7/10/2023 14:11	0.36	mg/L
GN-GSA-MW-6	DTW	Depth to Water Detail	7/10/2023 14:11	29.27	ft
GN-GSA-MW-6	ORP	Oxidation Reduction Potention	7/10/2023 14:11	345.32	mv

**Field Parameters Summary  
Plant Gaston Gypsum Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-6	PH	pH	7/10/2023 14:11	3.93	SU
GN-GSA-MW-6	TEMP	Temperature	7/10/2023 14:11	20.94	C
GN-GSA-MW-6	TURB	Turbidity	7/10/2023 14:11	2.45	NTU
GN-GSA-MW-6	COND	Conductivity	7/10/2023 14:16	26.4	uS/cm
GN-GSA-MW-6	DO	DO	7/10/2023 14:16	0.35	mg/L
GN-GSA-MW-6	DTW	Depth to Water Detail	7/10/2023 14:16	29.27	ft
GN-GSA-MW-6	ORP	Oxidation Reduction Potention	7/10/2023 14:16	339.66	mv
GN-GSA-MW-6	PH	pH	7/10/2023 14:16	4.12	SU
GN-GSA-MW-6	TEMP	Temperature	7/10/2023 14:16	20.93	C
GN-GSA-MW-6	TURB	Turbidity	7/10/2023 14:16	2.37	NTU
GN-GSA-MW-6	COND	Conductivity	7/10/2023 14:21	28.32	uS/cm
GN-GSA-MW-6	DO	DO	7/10/2023 14:21	0.33	mg/L
GN-GSA-MW-6	DTW	Depth to Water Detail	7/10/2023 14:21	29.27	ft
GN-GSA-MW-6	ORP	Oxidation Reduction Potention	7/10/2023 14:21	335.16	mv
GN-GSA-MW-6	PH	pH	7/10/2023 14:21	4.26	SU
GN-GSA-MW-6	TEMP	Temperature	7/10/2023 14:21	20.95	C
GN-GSA-MW-6	TURB	Turbidity	7/10/2023 14:21	2.43	NTU
GN-GSA-MW-6	COND	Conductivity	7/10/2023 14:26	28.29	uS/cm
GN-GSA-MW-6	DO	DO	7/10/2023 14:26	0.14	mg/L
GN-GSA-MW-6	DTW	Depth to Water Detail	7/10/2023 14:26	29.27	ft
GN-GSA-MW-6	ORP	Oxidation Reduction Potention	7/10/2023 14:26	335.5	mv
GN-GSA-MW-6	PH	pH	7/10/2023 14:26	4.34	SU
GN-GSA-MW-6	TEMP	Temperature	7/10/2023 14:26	20.99	C
GN-GSA-MW-6	TURB	Turbidity	7/10/2023 14:26	2.09	NTU
GN-GSA-MW-6	COND	Conductivity	7/10/2023 14:31	28.26	uS/cm
GN-GSA-MW-6	DO	DO	7/10/2023 14:31	0.14	mg/L
GN-GSA-MW-6	DTW	Depth to Water Detail	7/10/2023 14:31	29.27	ft
GN-GSA-MW-6	ORP	Oxidation Reduction Potention	7/10/2023 14:31	335.23	mv
GN-GSA-MW-6	PH	pH	7/10/2023 14:31	4.4	SU
GN-GSA-MW-6	SULFIDE	Sulfide	7/10/2023 14:31	0	mg/L
GN-GSA-MW-6	TEMP	Temperature	7/10/2023 14:31	20.89	C
GN-GSA-MW-6	TURB	Turbidity	7/10/2023 14:31	2.17	NTU



**Field Parameters Summary  
Plant Gaston Gypsum Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-7	COND	Conductivity	7/10/2023 15:17	399.19	uS/cm
GN-GSA-MW-7	DO	DO	7/10/2023 15:17	1.5	mg/L
GN-GSA-MW-7	DTW	Depth to Water Detail	7/10/2023 15:17	28.09	ft
GN-GSA-MW-7	ORP	Oxidation Reduction Potention	7/10/2023 15:17	559.07	mv
GN-GSA-MW-7	PH	pH	7/10/2023 15:17	6.55	SU
GN-GSA-MW-7	TEMP	Temperature	7/10/2023 15:17	24.17	C
GN-GSA-MW-7	TURB	Turbidity	7/10/2023 15:17	2.16	NTU
GN-GSA-MW-7	COND	Conductivity	7/10/2023 15:22	397.82	uS/cm
GN-GSA-MW-7	DO	DO	7/10/2023 15:22	1.38	mg/L
GN-GSA-MW-7	DTW	Depth to Water Detail	7/10/2023 15:22	28.31	ft
GN-GSA-MW-7	ORP	Oxidation Reduction Potention	7/10/2023 15:22	564.66	mv
GN-GSA-MW-7	PH	pH	7/10/2023 15:22	6.58	SU
GN-GSA-MW-7	TEMP	Temperature	7/10/2023 15:22	24.1	C
GN-GSA-MW-7	TURB	Turbidity	7/10/2023 15:22	1.83	NTU
GN-GSA-MW-7	COND	Conductivity	7/10/2023 15:27	396.71	uS/cm
GN-GSA-MW-7	DO	DO	7/10/2023 15:27	1.45	mg/L
GN-GSA-MW-7	DTW	Depth to Water Detail	7/10/2023 15:27	28.66	ft
GN-GSA-MW-7	ORP	Oxidation Reduction Potention	7/10/2023 15:27	558.77	mv
GN-GSA-MW-7	PH	pH	7/10/2023 15:27	6.64	SU
GN-GSA-MW-7	TEMP	Temperature	7/10/2023 15:27	24.7	C
GN-GSA-MW-7	TURB	Turbidity	7/10/2023 15:27	1.87	NTU
GN-GSA-MW-7	COND	Conductivity	7/10/2023 15:32	394.15	uS/cm
GN-GSA-MW-7	DO	DO	7/10/2023 15:32	1.8	mg/L
GN-GSA-MW-7	DTW	Depth to Water Detail	7/10/2023 15:32	28.86	ft
GN-GSA-MW-7	ORP	Oxidation Reduction Potention	7/10/2023 15:32	554.55	mv
GN-GSA-MW-7	PH	pH	7/10/2023 15:32	6.66	SU
GN-GSA-MW-7	TEMP	Temperature	7/10/2023 15:32	24.53	C
GN-GSA-MW-7	TURB	Turbidity	7/10/2023 15:32	1.81	NTU
GN-GSA-MW-7	COND	Conductivity	7/10/2023 15:37	393.69	uS/cm
GN-GSA-MW-7	DO	DO	7/10/2023 15:37	2.1	mg/L
GN-GSA-MW-7	DTW	Depth to Water Detail	7/10/2023 15:37	29.06	ft
GN-GSA-MW-7	ORP	Oxidation Reduction Potention	7/10/2023 15:37	548.33	mv
GN-GSA-MW-7	PH	pH	7/10/2023 15:37	6.65	SU
GN-GSA-MW-7	TEMP	Temperature	7/10/2023 15:37	24.85	C
GN-GSA-MW-7	TURB	Turbidity	7/10/2023 15:37	3.01	NTU
GN-GSA-MW-7	COND	Conductivity	7/10/2023 15:42	390.38	uS/cm
GN-GSA-MW-7	DO	DO	7/10/2023 15:42	2.13	mg/L
GN-GSA-MW-7	DTW	Depth to Water Detail	7/10/2023 15:42	29.12	ft
GN-GSA-MW-7	ORP	Oxidation Reduction Potention	7/10/2023 15:42	537.52	mv
GN-GSA-MW-7	PH	pH	7/10/2023 15:42	6.64	SU
GN-GSA-MW-7	TEMP	Temperature	7/10/2023 15:42	24.62	C
GN-GSA-MW-7	TURB	Turbidity	7/10/2023 15:42	2.02	NTU
GN-GSA-MW-7	COND	Conductivity	7/10/2023 15:47	388.38	uS/cm
GN-GSA-MW-7	DO	DO	7/10/2023 15:47	2.02	mg/L
GN-GSA-MW-7	DTW	Depth to Water Detail	7/10/2023 15:47	29.23	ft
GN-GSA-MW-7	ORP	Oxidation Reduction Potention	7/10/2023 15:47	516.63	mv

**Field Parameters Summary  
Plant Gaston Gypsum Pond**

<b>WELL ID</b>	<b>PARAMETER</b>	<b>DESCRIPTION</b>	<b>TIME OF READING</b>	<b>VALUE</b>	<b>UNIT</b>
GN-GSA-MW-7	PH	pH	7/10/2023 15:47	6.66	SU
GN-GSA-MW-7	SULFIDE	Sulfide	7/10/2023 15:47	0	mg/L
GN-GSA-MW-7	TEMP	Temperature	7/10/2023 15:47	24.79	C
GN-GSA-MW-7	TURB	Turbidity	7/10/2023 15:47	1.89	NTU

**Field Parameters Summary  
Plant Gaston Gypsum Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-8	COND	Conductivity	7/11/2023 8:34	321.2	uS/cm
GN-GSA-MW-8	DO	DO	7/11/2023 8:34	0.99	mg/L
GN-GSA-MW-8	DTW	Depth to Water Detail	7/11/2023 8:34	21.42	ft
GN-GSA-MW-8	ORP	Oxidation Reduction Potention	7/11/2023 8:34	87.06	mv
GN-GSA-MW-8	PH	pH	7/11/2023 8:34	7.25	SU
GN-GSA-MW-8	TEMP	Temperature	7/11/2023 8:34	21.72	C
GN-GSA-MW-8	TURB	Turbidity	7/11/2023 8:34	8.23	NTU
GN-GSA-MW-8	COND	Conductivity	7/11/2023 8:39	321.61	uS/cm
GN-GSA-MW-8	DO	DO	7/11/2023 8:39	0.98	mg/L
GN-GSA-MW-8	DTW	Depth to Water Detail	7/11/2023 8:39	21.48	ft
GN-GSA-MW-8	ORP	Oxidation Reduction Potention	7/11/2023 8:39	-4.51	mv
GN-GSA-MW-8	PH	pH	7/11/2023 8:39	7.27	SU
GN-GSA-MW-8	TEMP	Temperature	7/11/2023 8:39	21.73	C
GN-GSA-MW-8	TURB	Turbidity	7/11/2023 8:39	7.17	NTU
GN-GSA-MW-8	COND	Conductivity	7/11/2023 8:44	320.88	uS/cm
GN-GSA-MW-8	DO	DO	7/11/2023 8:44	0.99	mg/L
GN-GSA-MW-8	DTW	Depth to Water Detail	7/11/2023 8:44	21.52	ft
GN-GSA-MW-8	ORP	Oxidation Reduction Potention	7/11/2023 8:44	-24.51	mv
GN-GSA-MW-8	PH	pH	7/11/2023 8:44	7.3	SU
GN-GSA-MW-8	TEMP	Temperature	7/11/2023 8:44	21.77	C
GN-GSA-MW-8	TURB	Turbidity	7/11/2023 8:44	6.08	NTU
GN-GSA-MW-8	COND	Conductivity	7/11/2023 8:49	320.77	uS/cm
GN-GSA-MW-8	DO	DO	7/11/2023 8:49	1	mg/L
GN-GSA-MW-8	DTW	Depth to Water Detail	7/11/2023 8:49	21.56	ft
GN-GSA-MW-8	ORP	Oxidation Reduction Potention	7/11/2023 8:49	-34.5	mv
GN-GSA-MW-8	PH	pH	7/11/2023 8:49	7.32	SU
GN-GSA-MW-8	SULFIDE	Sulfide	7/11/2023 8:49	0	mg/L
GN-GSA-MW-8	TEMP	Temperature	7/11/2023 8:49	21.78	C
GN-GSA-MW-8	TURB	Turbidity	7/11/2023 8:49	4.69	NTU

**Field Parameters Summary  
Plant Gaston Gypsum Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-9	COND	Conductivity	7/11/2023 9:44	183.74	uS/cm
GN-GSA-MW-9	DO	DO	7/11/2023 9:44	0.88	mg/L
GN-GSA-MW-9	DTW	Depth to Water Detail	7/11/2023 9:44	23.61	ft
GN-GSA-MW-9	ORP	Oxidation Reduction Potention	7/11/2023 9:44	135.4	mv
GN-GSA-MW-9	PH	pH	7/11/2023 9:44	5.63	SU
GN-GSA-MW-9	TEMP	Temperature	7/11/2023 9:44	20.4	C
GN-GSA-MW-9	TURB	Turbidity	7/11/2023 9:44	3.8	NTU
GN-GSA-MW-9	COND	Conductivity	7/11/2023 9:49	214.31	uS/cm
GN-GSA-MW-9	DO	DO	7/11/2023 9:49	0.5	mg/L
GN-GSA-MW-9	DTW	Depth to Water Detail	7/11/2023 9:49	24.06	ft
GN-GSA-MW-9	ORP	Oxidation Reduction Potention	7/11/2023 9:49	140.09	mv
GN-GSA-MW-9	PH	pH	7/11/2023 9:49	5.77	SU
GN-GSA-MW-9	TEMP	Temperature	7/11/2023 9:49	20.45	C
GN-GSA-MW-9	TURB	Turbidity	7/11/2023 9:49	2.84	NTU
GN-GSA-MW-9	COND	Conductivity	7/11/2023 9:54	243.96	uS/cm
GN-GSA-MW-9	DO	DO	7/11/2023 9:54	0.51	mg/L
GN-GSA-MW-9	DTW	Depth to Water Detail	7/11/2023 9:54	24.31	ft
GN-GSA-MW-9	ORP	Oxidation Reduction Potention	7/11/2023 9:54	139.12	mv
GN-GSA-MW-9	PH	pH	7/11/2023 9:54	5.91	SU
GN-GSA-MW-9	TEMP	Temperature	7/11/2023 9:54	20.36	C
GN-GSA-MW-9	TURB	Turbidity	7/11/2023 9:54	3.36	NTU
GN-GSA-MW-9	COND	Conductivity	7/11/2023 9:59	259.1	uS/cm
GN-GSA-MW-9	DO	DO	7/11/2023 9:59	0.45	mg/L
GN-GSA-MW-9	DTW	Depth to Water Detail	7/11/2023 9:59	24.71	ft
GN-GSA-MW-9	ORP	Oxidation Reduction Potention	7/11/2023 9:59	136.96	mv
GN-GSA-MW-9	PH	pH	7/11/2023 9:59	6.02	SU
GN-GSA-MW-9	TEMP	Temperature	7/11/2023 9:59	20.29	C
GN-GSA-MW-9	TURB	Turbidity	7/11/2023 9:59	3.07	NTU
GN-GSA-MW-9	COND	Conductivity	7/11/2023 10:04	266.84	uS/cm
GN-GSA-MW-9	DO	DO	7/11/2023 10:04	0.45	mg/L
GN-GSA-MW-9	DTW	Depth to Water Detail	7/11/2023 10:04	24.89	ft
GN-GSA-MW-9	ORP	Oxidation Reduction Potention	7/11/2023 10:04	134.62	mv
GN-GSA-MW-9	PH	pH	7/11/2023 10:04	6.1	SU
GN-GSA-MW-9	TEMP	Temperature	7/11/2023 10:04	20.43	C
GN-GSA-MW-9	TURB	Turbidity	7/11/2023 10:04	2.94	NTU
GN-GSA-MW-9	COND	Conductivity	7/11/2023 10:09	274.23	uS/cm
GN-GSA-MW-9	DO	DO	7/11/2023 10:09	0.4	mg/L
GN-GSA-MW-9	DTW	Depth to Water Detail	7/11/2023 10:09	25.05	ft
GN-GSA-MW-9	ORP	Oxidation Reduction Potention	7/11/2023 10:09	132.28	mv
GN-GSA-MW-9	PH	pH	7/11/2023 10:09	6.16	SU
GN-GSA-MW-9	TEMP	Temperature	7/11/2023 10:09	20.39	C
GN-GSA-MW-9	TURB	Turbidity	7/11/2023 10:09	2.7	NTU
GN-GSA-MW-9	COND	Conductivity	7/11/2023 10:14	276.2	uS/cm
GN-GSA-MW-9	DO	DO	7/11/2023 10:14	0.42	mg/L
GN-GSA-MW-9	DTW	Depth to Water Detail	7/11/2023 10:14	25.16	ft
GN-GSA-MW-9	ORP	Oxidation Reduction Potention	7/11/2023 10:14	129.43	mv

**Field Parameters Summary  
Plant Gaston Gypsum Pond**

<b>WELL ID</b>	<b>PARAMETER</b>	<b>DESCRIPTION</b>	<b>TIME OF READING</b>	<b>VALUE</b>	<b>UNIT</b>
GN-GSA-MW-9	PH	pH	7/11/2023 10:14	6.23	SU
GN-GSA-MW-9	SULFIDE	Sulfide	7/11/2023 10:14	0	mg/L
GN-GSA-MW-9	TEMP	Temperature	7/11/2023 10:14	20.47	C
GN-GSA-MW-9	TURB	Turbidity	7/11/2023 10:14	2.7	NTU

**Field Parameters Summary  
Plant Gaston Gypsum Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-10	COND	Conductivity	7/11/2023 10:50	457.16	uS/cm
GN-GSA-MW-10	DO	DO	7/11/2023 10:50	0.37	mg/L
GN-GSA-MW-10	DTW	Depth to Water Detail	7/11/2023 10:50	21.61	ft
GN-GSA-MW-10	ORP	Oxidation Reduction Potention	7/11/2023 10:50	92.94	mv
GN-GSA-MW-10	PH	pH	7/11/2023 10:50	6.85	SU
GN-GSA-MW-10	TEMP	Temperature	7/11/2023 10:50	21.44	C
GN-GSA-MW-10	TURB	Turbidity	7/11/2023 10:50	7.22	NTU
GN-GSA-MW-10	COND	Conductivity	7/11/2023 10:55	459.87	uS/cm
GN-GSA-MW-10	DO	DO	7/11/2023 10:55	0.23	mg/L
GN-GSA-MW-10	DTW	Depth to Water Detail	7/11/2023 10:55	21.71	ft
GN-GSA-MW-10	ORP	Oxidation Reduction Potention	7/11/2023 10:55	91.78	mv
GN-GSA-MW-10	PH	pH	7/11/2023 10:55	6.85	SU
GN-GSA-MW-10	TEMP	Temperature	7/11/2023 10:55	21.48	C
GN-GSA-MW-10	TURB	Turbidity	7/11/2023 10:55	7.68	NTU
GN-GSA-MW-10	COND	Conductivity	7/11/2023 11:00	461.36	uS/cm
GN-GSA-MW-10	DO	DO	7/11/2023 11:00	0.19	mg/L
GN-GSA-MW-10	DTW	Depth to Water Detail	7/11/2023 11:00	21.81	ft
GN-GSA-MW-10	ORP	Oxidation Reduction Potention	7/11/2023 11:00	90.22	mv
GN-GSA-MW-10	PH	pH	7/11/2023 11:00	6.87	SU
GN-GSA-MW-10	TEMP	Temperature	7/11/2023 11:00	21.47	C
GN-GSA-MW-10	TURB	Turbidity	7/11/2023 11:00	5.23	NTU
GN-GSA-MW-10	COND	Conductivity	7/11/2023 11:05	461.59	uS/cm
GN-GSA-MW-10	DO	DO	7/11/2023 11:05	0.18	mg/L
GN-GSA-MW-10	DTW	Depth to Water Detail	7/11/2023 11:05	21.9	ft
GN-GSA-MW-10	ORP	Oxidation Reduction Potention	7/11/2023 11:05	88.45	mv
GN-GSA-MW-10	PH	pH	7/11/2023 11:05	6.89	SU
GN-GSA-MW-10	SULFIDE	Sulfide	7/11/2023 11:05	0	mg/L
GN-GSA-MW-10	TEMP	Temperature	7/11/2023 11:05	21.59	C
GN-GSA-MW-10	TURB	Turbidity	7/11/2023 11:05	3.78	NTU

**Field Parameters Summary  
Plant Gaston Gypsum Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-11	COND	Conductivity	7/11/2023 11:52	184.03	uS/cm
GN-GSA-MW-11	DO	DO	7/11/2023 11:52	1.27	mg/L
GN-GSA-MW-11	DTW	Depth to Water Detail	7/11/2023 11:52	21.29	ft
GN-GSA-MW-11	ORP	Oxidation Reduction Potention	7/11/2023 11:52	220.19	mv
GN-GSA-MW-11	PH	pH	7/11/2023 11:52	5.59	SU
GN-GSA-MW-11	TEMP	Temperature	7/11/2023 11:52	21.51	C
GN-GSA-MW-11	TURB	Turbidity	7/11/2023 11:52	2.25	NTU
GN-GSA-MW-11	COND	Conductivity	7/11/2023 11:57	152.35	uS/cm
GN-GSA-MW-11	DO	DO	7/11/2023 11:57	0.7	mg/L
GN-GSA-MW-11	DTW	Depth to Water Detail	7/11/2023 11:57	21.29	ft
GN-GSA-MW-11	ORP	Oxidation Reduction Potention	7/11/2023 11:57	226.55	mv
GN-GSA-MW-11	PH	pH	7/11/2023 11:57	5.35	SU
GN-GSA-MW-11	TEMP	Temperature	7/11/2023 11:57	21.44	C
GN-GSA-MW-11	TURB	Turbidity	7/11/2023 11:57	1.96	NTU
GN-GSA-MW-11	COND	Conductivity	7/11/2023 12:02	145.29	uS/cm
GN-GSA-MW-11	DO	DO	7/11/2023 12:02	0.56	mg/L
GN-GSA-MW-11	DTW	Depth to Water Detail	7/11/2023 12:02	21.29	ft
GN-GSA-MW-11	ORP	Oxidation Reduction Potention	7/11/2023 12:02	235.16	mv
GN-GSA-MW-11	PH	pH	7/11/2023 12:02	5.3	SU
GN-GSA-MW-11	TEMP	Temperature	7/11/2023 12:02	21.61	C
GN-GSA-MW-11	TURB	Turbidity	7/11/2023 12:02	3.08	NTU
GN-GSA-MW-11	COND	Conductivity	7/11/2023 12:07	142.13	uS/cm
GN-GSA-MW-11	DO	DO	7/11/2023 12:07	0.58	mg/L
GN-GSA-MW-11	DTW	Depth to Water Detail	7/11/2023 12:07	21.29	ft
GN-GSA-MW-11	ORP	Oxidation Reduction Potention	7/11/2023 12:07	240.95	mv
GN-GSA-MW-11	PH	pH	7/11/2023 12:07	5.32	SU
GN-GSA-MW-11	TEMP	Temperature	7/11/2023 12:07	21.55	C
GN-GSA-MW-11	TURB	Turbidity	7/11/2023 12:07	2.27	NTU
GN-GSA-MW-11	COND	Conductivity	7/11/2023 12:12	139.68	uS/cm
GN-GSA-MW-11	DO	DO	7/11/2023 12:12	0.49	mg/L
GN-GSA-MW-11	DTW	Depth to Water Detail	7/11/2023 12:12	21.29	ft
GN-GSA-MW-11	ORP	Oxidation Reduction Potention	7/11/2023 12:12	247.49	mv
GN-GSA-MW-11	PH	pH	7/11/2023 12:12	5.33	SU
GN-GSA-MW-11	SULFIDE	Sulfide	7/11/2023 12:12	0	mg/L
GN-GSA-MW-11	TEMP	Temperature	7/11/2023 12:12	21.53	C
GN-GSA-MW-11	TURB	Turbidity	7/11/2023 12:12	2.03	NTU

**Field Parameters Summary  
Plant Gaston Gypsum Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-12	COND	Conductivity	7/11/2023 12:51	437.15	uS/cm
GN-GSA-MW-12	DO	DO	7/11/2023 12:51	0.37	mg/L
GN-GSA-MW-12	DTW	Depth to Water Detail	7/11/2023 12:51	19.52	ft
GN-GSA-MW-12	ORP	Oxidation Reduction Potention	7/11/2023 12:51	196.31	mv
GN-GSA-MW-12	PH	pH	7/11/2023 12:51	6.77	SU
GN-GSA-MW-12	TEMP	Temperature	7/11/2023 12:51	20.83	C
GN-GSA-MW-12	TURB	Turbidity	7/11/2023 12:51	1.9	NTU
GN-GSA-MW-12	COND	Conductivity	7/11/2023 12:56	441.8	uS/cm
GN-GSA-MW-12	DO	DO	7/11/2023 12:56	0.22	mg/L
GN-GSA-MW-12	DTW	Depth to Water Detail	7/11/2023 12:56	19.52	ft
GN-GSA-MW-12	ORP	Oxidation Reduction Potention	7/11/2023 12:56	193.62	mv
GN-GSA-MW-12	PH	pH	7/11/2023 12:56	6.72	SU
GN-GSA-MW-12	TEMP	Temperature	7/11/2023 12:56	20.93	C
GN-GSA-MW-12	TURB	Turbidity	7/11/2023 12:56	1.63	NTU
GN-GSA-MW-12	COND	Conductivity	7/11/2023 13:01	444.33	uS/cm
GN-GSA-MW-12	DO	DO	7/11/2023 13:01	0.16	mg/L
GN-GSA-MW-12	DTW	Depth to Water Detail	7/11/2023 13:01	19.52	ft
GN-GSA-MW-12	ORP	Oxidation Reduction Potention	7/11/2023 13:01	186.97	mv
GN-GSA-MW-12	PH	pH	7/11/2023 13:01	6.75	SU
GN-GSA-MW-12	TEMP	Temperature	7/11/2023 13:01	20.86	C
GN-GSA-MW-12	TURB	Turbidity	7/11/2023 13:01	2.08	NTU
GN-GSA-MW-12	COND	Conductivity	7/11/2023 13:06	444.78	uS/cm
GN-GSA-MW-12	DO	DO	7/11/2023 13:06	0.15	mg/L
GN-GSA-MW-12	DTW	Depth to Water Detail	7/11/2023 13:06	19.52	ft
GN-GSA-MW-12	ORP	Oxidation Reduction Potention	7/11/2023 13:06	180.86	mv
GN-GSA-MW-12	PH	pH	7/11/2023 13:06	6.79	SU
GN-GSA-MW-12	SULFIDE	Sulfide	7/11/2023 13:06	0	mg/L
GN-GSA-MW-12	TEMP	Temperature	7/11/2023 13:06	20.89	C
GN-GSA-MW-12	TURB	Turbidity	7/11/2023 13:06	2	NTU



**Field Parameters Summary  
Plant Gaston Gypsum Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-13	COND	Conductivity	7/11/2023 13:42	492.8	uS/cm
GN-GSA-MW-13	DO	DO	7/11/2023 13:42	0.96	mg/L
GN-GSA-MW-13	DTW	Depth to Water Detail	7/11/2023 13:42	22.81	ft
GN-GSA-MW-13	ORP	Oxidation Reduction Potention	7/11/2023 13:42	186.24	mv
GN-GSA-MW-13	PH	pH	7/11/2023 13:42	6.64	SU
GN-GSA-MW-13	TEMP	Temperature	7/11/2023 13:42	21.05	C
GN-GSA-MW-13	TURB	Turbidity	7/11/2023 13:42	1.64	NTU
GN-GSA-MW-13	COND	Conductivity	7/11/2023 13:47	494.56	uS/cm
GN-GSA-MW-13	DO	DO	7/11/2023 13:47	0.94	mg/L
GN-GSA-MW-13	DTW	Depth to Water Detail	7/11/2023 13:47	22.81	ft
GN-GSA-MW-13	ORP	Oxidation Reduction Potention	7/11/2023 13:47	188.04	mv
GN-GSA-MW-13	PH	pH	7/11/2023 13:47	6.59	SU
GN-GSA-MW-13	TEMP	Temperature	7/11/2023 13:47	20.95	C
GN-GSA-MW-13	TURB	Turbidity	7/11/2023 13:47	1.57	NTU
GN-GSA-MW-13	COND	Conductivity	7/11/2023 13:52	492.85	uS/cm
GN-GSA-MW-13	DO	DO	7/11/2023 13:52	0.91	mg/L
GN-GSA-MW-13	DTW	Depth to Water Detail	7/11/2023 13:52	22.81	ft
GN-GSA-MW-13	ORP	Oxidation Reduction Potention	7/11/2023 13:52	186.27	mv
GN-GSA-MW-13	PH	pH	7/11/2023 13:52	6.6	SU
GN-GSA-MW-13	TEMP	Temperature	7/11/2023 13:52	21.08	C
GN-GSA-MW-13	TURB	Turbidity	7/11/2023 13:52	1.68	NTU
GN-GSA-MW-13	COND	Conductivity	7/11/2023 13:57	494.28	uS/cm
GN-GSA-MW-13	DO	DO	7/11/2023 13:57	0.91	mg/L
GN-GSA-MW-13	DTW	Depth to Water Detail	7/11/2023 13:57	22.81	ft
GN-GSA-MW-13	ORP	Oxidation Reduction Potention	7/11/2023 13:57	183.8	mv
GN-GSA-MW-13	PH	pH	7/11/2023 13:57	6.62	SU
GN-GSA-MW-13	SULFIDE	Sulfide	7/11/2023 13:57	0	mg/L
GN-GSA-MW-13	TEMP	Temperature	7/11/2023 13:57	20.74	C
GN-GSA-MW-13	TURB	Turbidity	7/11/2023 13:57	1.61	NTU

**Field Parameters Summary  
Plant Gaston Gypsum Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-14S	COND	Conductivity	7/12/2023 12:33	319	uS/cm
GN-GSA-MW-14S	DO	DO	7/12/2023 12:33	1.11	mg/L
GN-GSA-MW-14S	DTW	Depth to Water Detail	7/12/2023 12:33	23.76	ft
GN-GSA-MW-14S	ORP	Oxidation Reduction Potention	7/12/2023 12:33	181.83	mv
GN-GSA-MW-14S	PH	pH	7/12/2023 12:33	6.45	SU
GN-GSA-MW-14S	TEMP	Temperature	7/12/2023 12:33	20.15	C
GN-GSA-MW-14S	TURB	Turbidity	7/12/2023 12:33	15.7	NTU
GN-GSA-MW-14S	COND	Conductivity	7/12/2023 12:38	325.04	uS/cm
GN-GSA-MW-14S	DO	DO	7/12/2023 12:38	1.11	mg/L
GN-GSA-MW-14S	DTW	Depth to Water Detail	7/12/2023 12:38	23.76	ft
GN-GSA-MW-14S	ORP	Oxidation Reduction Potention	7/12/2023 12:38	133.55	mv
GN-GSA-MW-14S	PH	pH	7/12/2023 12:38	6.44	SU
GN-GSA-MW-14S	TEMP	Temperature	7/12/2023 12:38	20.24	C
GN-GSA-MW-14S	TURB	Turbidity	7/12/2023 12:38	7.18	NTU
GN-GSA-MW-14S	COND	Conductivity	7/12/2023 12:43	327.11	uS/cm
GN-GSA-MW-14S	DO	DO	7/12/2023 12:43	1.21	mg/L
GN-GSA-MW-14S	DTW	Depth to Water Detail	7/12/2023 12:43	23.76	ft
GN-GSA-MW-14S	ORP	Oxidation Reduction Potention	7/12/2023 12:43	80.99	mv
GN-GSA-MW-14S	PH	pH	7/12/2023 12:43	6.49	SU
GN-GSA-MW-14S	TEMP	Temperature	7/12/2023 12:43	20.2	C
GN-GSA-MW-14S	TURB	Turbidity	7/12/2023 12:43	7.16	NTU
GN-GSA-MW-14S	COND	Conductivity	7/12/2023 12:44	327.33	uS/cm
GN-GSA-MW-14S	DO	DO	7/12/2023 12:44	1.22	mg/L
GN-GSA-MW-14S	DTW	Depth to Water Detail	7/12/2023 12:44	23.76	ft
GN-GSA-MW-14S	ORP	Oxidation Reduction Potention	7/12/2023 12:44	67.21	mv
GN-GSA-MW-14S	PH	pH	7/12/2023 12:44	6.5	SU
GN-GSA-MW-14S	TEMP	Temperature	7/12/2023 12:44	20.31	C
GN-GSA-MW-14S	TURB	Turbidity	7/12/2023 12:44	7.08	NTU
GN-GSA-MW-14S	COND	Conductivity	7/12/2023 12:49	328.8	uS/cm
GN-GSA-MW-14S	DO	DO	7/12/2023 12:49	1.34	mg/L
GN-GSA-MW-14S	DTW	Depth to Water Detail	7/12/2023 12:49	23.76	ft
GN-GSA-MW-14S	ORP	Oxidation Reduction Potention	7/12/2023 12:49	47.94	mv
GN-GSA-MW-14S	PH	pH	7/12/2023 12:49	6.55	SU
GN-GSA-MW-14S	TEMP	Temperature	7/12/2023 12:49	20.22	C
GN-GSA-MW-14S	TURB	Turbidity	7/12/2023 12:49	6.68	NTU
GN-GSA-MW-14S	COND	Conductivity	7/12/2023 12:54	329.91	uS/cm
GN-GSA-MW-14S	DO	DO	7/12/2023 12:54	1.47	mg/L
GN-GSA-MW-14S	DTW	Depth to Water Detail	7/12/2023 12:54	23.76	ft
GN-GSA-MW-14S	ORP	Oxidation Reduction Potention	7/12/2023 12:54	40.82	mv
GN-GSA-MW-14S	PH	pH	7/12/2023 12:54	6.59	SU
GN-GSA-MW-14S	TEMP	Temperature	7/12/2023 12:54	20.05	C
GN-GSA-MW-14S	TURB	Turbidity	7/12/2023 12:54	3.69	NTU
GN-GSA-MW-14S	COND	Conductivity	7/12/2023 12:59	330.82	uS/cm
GN-GSA-MW-14S	DO	DO	7/12/2023 12:59	1.56	mg/L
GN-GSA-MW-14S	DTW	Depth to Water Detail	7/12/2023 12:59	23.76	ft
GN-GSA-MW-14S	ORP	Oxidation Reduction Potention	7/12/2023 12:59	33.63	mv

**Field Parameters Summary  
Plant Gaston Gypsum Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-14S	PH	pH	7/12/2023 12:59	6.63	SU
GN-GSA-MW-14S	TEMP	Temperature	7/12/2023 12:59	20.2	C
GN-GSA-MW-14S	TURB	Turbidity	7/12/2023 12:59	3.61	NTU
GN-GSA-MW-14S	COND	Conductivity	7/12/2023 13:04	329.93	uS/cm
GN-GSA-MW-14S	DO	DO	7/12/2023 13:04	1.66	mg/L
GN-GSA-MW-14S	DTW	Depth to Water Detail	7/12/2023 13:04	23.76	ft
GN-GSA-MW-14S	ORP	Oxidation Reduction Potention	7/12/2023 13:04	29.89	mv
GN-GSA-MW-14S	PH	pH	7/12/2023 13:04	6.68	SU
GN-GSA-MW-14S	SULFIDE	Sulfide	7/12/2023 13:04	0	mg/L
GN-GSA-MW-14S	TEMP	Temperature	7/12/2023 13:04	20.22	C
GN-GSA-MW-14S	TURB	Turbidity	7/12/2023 13:04	3.07	NTU

**Field Parameters Summary  
Plant Gaston Gypsum Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-15	COND	Conductivity	7/12/2023 9:09	30.64	uS/cm
GN-GSA-MW-15	DO	DO	7/12/2023 9:09	2.85	mg/L
GN-GSA-MW-15	DTW	Depth to Water Detail	7/12/2023 9:09	22.76	ft
GN-GSA-MW-15	ORP	Oxidation Reduction Potention	7/12/2023 9:09	241.28	mv
GN-GSA-MW-15	PH	pH	7/12/2023 9:09	5.37	SU
GN-GSA-MW-15	TEMP	Temperature	7/12/2023 9:09	20.01	C
GN-GSA-MW-15	TURB	Turbidity	7/12/2023 9:09	13	NTU
GN-GSA-MW-15	COND	Conductivity	7/12/2023 9:14	29.74	uS/cm
GN-GSA-MW-15	DO	DO	7/12/2023 9:14	2.77	mg/L
GN-GSA-MW-15	DTW	Depth to Water Detail	7/12/2023 9:14	23.35	ft
GN-GSA-MW-15	ORP	Oxidation Reduction Potention	7/12/2023 9:14	253.39	mv
GN-GSA-MW-15	PH	pH	7/12/2023 9:14	5.37	SU
GN-GSA-MW-15	TEMP	Temperature	7/12/2023 9:14	19.98	C
GN-GSA-MW-15	TURB	Turbidity	7/12/2023 9:14	15.6	NTU
GN-GSA-MW-15	COND	Conductivity	7/12/2023 9:19	29.42	uS/cm
GN-GSA-MW-15	DO	DO	7/12/2023 9:19	2.74	mg/L
GN-GSA-MW-15	DTW	Depth to Water Detail	7/12/2023 9:19	23.35	ft
GN-GSA-MW-15	ORP	Oxidation Reduction Potention	7/12/2023 9:19	260.38	mv
GN-GSA-MW-15	PH	pH	7/12/2023 9:19	5.4	SU
GN-GSA-MW-15	TEMP	Temperature	7/12/2023 9:19	20.56	C
GN-GSA-MW-15	TURB	Turbidity	7/12/2023 9:19	14.1	NTU
GN-GSA-MW-15	COND	Conductivity	7/12/2023 9:24	28.55	uS/cm
GN-GSA-MW-15	DO	DO	7/12/2023 9:24	2.71	mg/L
GN-GSA-MW-15	DTW	Depth to Water Detail	7/12/2023 9:24	23.35	ft
GN-GSA-MW-15	ORP	Oxidation Reduction Potention	7/12/2023 9:24	270.46	mv
GN-GSA-MW-15	PH	pH	7/12/2023 9:24	5.22	SU
GN-GSA-MW-15	TEMP	Temperature	7/12/2023 9:24	20.67	C
GN-GSA-MW-15	TURB	Turbidity	7/12/2023 9:24	13.3	NTU
GN-GSA-MW-15	COND	Conductivity	7/12/2023 9:29	28.1	uS/cm
GN-GSA-MW-15	DO	DO	7/12/2023 9:29	2.71	mg/L
GN-GSA-MW-15	DTW	Depth to Water Detail	7/12/2023 9:29	23.35	ft
GN-GSA-MW-15	ORP	Oxidation Reduction Potention	7/12/2023 9:29	285.34	mv
GN-GSA-MW-15	PH	pH	7/12/2023 9:29	5.06	SU
GN-GSA-MW-15	TEMP	Temperature	7/12/2023 9:29	20.71	C
GN-GSA-MW-15	TURB	Turbidity	7/12/2023 9:29	11.3	NTU
GN-GSA-MW-15	COND	Conductivity	7/12/2023 9:34	27.56	uS/cm
GN-GSA-MW-15	DO	DO	7/12/2023 9:34	2.63	mg/L
GN-GSA-MW-15	DTW	Depth to Water Detail	7/12/2023 9:34	23.35	ft
GN-GSA-MW-15	ORP	Oxidation Reduction Potention	7/12/2023 9:34	273.46	mv
GN-GSA-MW-15	PH	pH	7/12/2023 9:34	5.19	SU
GN-GSA-MW-15	TEMP	Temperature	7/12/2023 9:34	20.64	C
GN-GSA-MW-15	TURB	Turbidity	7/12/2023 9:34	12.61	NTU
GN-GSA-MW-15	COND	Conductivity	7/12/2023 9:39	28.19	uS/cm
GN-GSA-MW-15	DO	DO	7/12/2023 9:39	2.61	mg/L
GN-GSA-MW-15	DTW	Depth to Water Detail	7/12/2023 9:39	23.35	ft
GN-GSA-MW-15	ORP	Oxidation Reduction Potention	7/12/2023 9:39	251.39	mv

**Field Parameters Summary  
Plant Gaston Gypsum Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-15	PH	pH	7/12/2023 9:39	5.26	SU
GN-GSA-MW-15	TEMP	Temperature	7/12/2023 9:39	20.56	C
GN-GSA-MW-15	TURB	Turbidity	7/12/2023 9:39	12.04	NTU
GN-GSA-MW-15	COND	Conductivity	7/12/2023 9:44	28.55	uS/cm
GN-GSA-MW-15	DO	DO	7/12/2023 9:44	2.65	mg/L
GN-GSA-MW-15	DTW	Depth to Water Detail	7/12/2023 9:44	23.35	ft
GN-GSA-MW-15	ORP	Oxidation Reduction Potention	7/12/2023 9:44	230.38	mv
GN-GSA-MW-15	PH	pH	7/12/2023 9:44	5.29	SU
GN-GSA-MW-15	TEMP	Temperature	7/12/2023 9:44	20.64	C
GN-GSA-MW-15	TURB	Turbidity	7/12/2023 9:44	11.2	NTU
GN-GSA-MW-15	COND	Conductivity	7/12/2023 9:49	30.49	uS/cm
GN-GSA-MW-15	DO	DO	7/12/2023 9:49	2.72	mg/L
GN-GSA-MW-15	DTW	Depth to Water Detail	7/12/2023 9:49	23.35	ft
GN-GSA-MW-15	ORP	Oxidation Reduction Potention	7/12/2023 9:49	188.74	mv
GN-GSA-MW-15	PH	pH	7/12/2023 9:49	5.37	SU
GN-GSA-MW-15	TEMP	Temperature	7/12/2023 9:49	20.67	C
GN-GSA-MW-15	TURB	Turbidity	7/12/2023 9:49	10.56	NTU
GN-GSA-MW-15	COND	Conductivity	7/12/2023 9:54	30.7	uS/cm
GN-GSA-MW-15	DO	DO	7/12/2023 9:54	2.75	mg/L
GN-GSA-MW-15	DTW	Depth to Water Detail	7/12/2023 9:54	23.35	ft
GN-GSA-MW-15	ORP	Oxidation Reduction Potention	7/12/2023 9:54	179.48	mv
GN-GSA-MW-15	PH	pH	7/12/2023 9:54	5.39	SU
GN-GSA-MW-15	TEMP	Temperature	7/12/2023 9:54	20.68	C
GN-GSA-MW-15	TURB	Turbidity	7/12/2023 9:54	10.44	NTU
GN-GSA-MW-15	COND	Conductivity	7/12/2023 9:59	31.2	uS/cm
GN-GSA-MW-15	DO	DO	7/12/2023 9:59	2.78	mg/L
GN-GSA-MW-15	DTW	Depth to Water Detail	7/12/2023 9:59	23.35	ft
GN-GSA-MW-15	ORP	Oxidation Reduction Potention	7/12/2023 9:59	187.33	mv
GN-GSA-MW-15	PH	pH	7/12/2023 9:59	5.09	SU
GN-GSA-MW-15	TEMP	Temperature	7/12/2023 9:59	20.66	C
GN-GSA-MW-15	TURB	Turbidity	7/12/2023 9:59	9.47	NTU
GN-GSA-MW-15	COND	Conductivity	7/12/2023 10:04	30.51	uS/cm
GN-GSA-MW-15	DO	DO	7/12/2023 10:04	2.82	mg/L
GN-GSA-MW-15	DTW	Depth to Water Detail	7/12/2023 10:04	23.35	ft
GN-GSA-MW-15	ORP	Oxidation Reduction Potention	7/12/2023 10:04	191.4	mv
GN-GSA-MW-15	PH	pH	7/12/2023 10:04	5.13	SU
GN-GSA-MW-15	TEMP	Temperature	7/12/2023 10:04	20.63	C
GN-GSA-MW-15	TURB	Turbidity	7/12/2023 10:04	9.41	NTU
GN-GSA-MW-15	COND	Conductivity	7/12/2023 10:09	30.24	uS/cm
GN-GSA-MW-15	DO	DO	7/12/2023 10:09	2.85	mg/L
GN-GSA-MW-15	DTW	Depth to Water Detail	7/12/2023 10:09	23.35	ft
GN-GSA-MW-15	ORP	Oxidation Reduction Potention	7/12/2023 10:09	185.04	mv
GN-GSA-MW-15	PH	pH	7/12/2023 10:09	5.3	SU
GN-GSA-MW-15	TEMP	Temperature	7/12/2023 10:09	20.85	C
GN-GSA-MW-15	TURB	Turbidity	7/12/2023 10:09	9.26	NTU
GN-GSA-MW-15	COND	Conductivity	7/12/2023 10:14	30.24	uS/cm

**Field Parameters Summary  
Plant Gaston Gypsum Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-GSA-MW-15	DO	DO	7/12/2023 10:14	2.87	mg/L
GN-GSA-MW-15	DTW	Depth to Water Detail	7/12/2023 10:14	23.35	ft
GN-GSA-MW-15	ORP	Oxidation Reduction Potention	7/12/2023 10:14	181.57	mv
GN-GSA-MW-15	PH	pH	7/12/2023 10:14	5.36	SU
GN-GSA-MW-15	TEMP	Temperature	7/12/2023 10:14	20.73	C
GN-GSA-MW-15	TURB	Turbidity	7/12/2023 10:14	8.65	NTU
GN-GSA-MW-15	COND	Conductivity	7/12/2023 10:19	30.52	uS/cm
GN-GSA-MW-15	DO	DO	7/12/2023 10:19	2.86	mg/L
GN-GSA-MW-15	DTW	Depth to Water Detail	7/12/2023 10:19	23.35	ft
GN-GSA-MW-15	ORP	Oxidation Reduction Potention	7/12/2023 10:19	178.26	mv
GN-GSA-MW-15	PH	pH	7/12/2023 10:19	5.38	SU
GN-GSA-MW-15	SULFIDE	Sulfide	7/12/2023 10:19	0	mg/L
GN-GSA-MW-15	TEMP	Temperature	7/12/2023 10:19	20.95	C
GN-GSA-MW-15	TURB	Turbidity	7/12/2023 10:19	8.04	NTU

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

# *Analytical Report*



**Sample Group :** WMWGASG\_1415

**Project/Site :** Gaston Gypsum  
Wilsonville, AL 35186

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

**Attention :** Dustin Brooks & Greg Dyer

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

August 11, 2023

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on July 13, 2023. 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, 2024

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

Sincerely,

Quality Control: **Brooke  
Caton**

Digitally signed by Brooke  
Caton  
Date: 2023.08.11  
13:22:39 -05'00'

Supervision: **T Durant  
Maske**

Digitally signed by T Durant Maske  
DN: cn=T Durant Maske, gn=T Durant Maske c=US  
United States u=US United States  
e=t.durante@southernco.com  
Reason: I am the author of this document  
Location:  
Date: 2023-08-14 12:54:05:00



### REPORT OF LABORATORY ANALYSIS

This Certificate states the physical and/or chemical characteristics of the sample as submitted.  
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Alabama Power's General Test Laboratory.





Total Metals ICP

Gaston Gypsum

WMWGASG\_1415

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD12784	759954	WMWGASG_1415
BD12785	759954	WMWGASG_1415
BD12786	759954	WMWGASG_1415
BD12787	759954	WMWGASG_1415
BD12788	759954	WMWGASG_1415
BD12789	759954	WMWGASG_1415
BD12790	759954	WMWGASG_1415
BD12791	759954	WMWGASG_1415
BD12792	759954	WMWGASG_1415
BD12793	759954	WMWGASG_1415
BD12794	759955	WMWGASG_1415
BD12795	759955	WMWGASG_1415
BD12796	759955	WMWGASG_1415
BD12797	759955	WMWGASG_1415
BD12798	759955	WMWGASG_1415
BD12799	759955	WMWGASG_1415
BD12800	759955	WMWGASG_1415
BD12801	759955	WMWGASG_1415
BD12802	759955	WMWGASG_1415

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

#### General Quality Control Procedures:

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

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

Matrix Specific Quality Control Procedures:

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

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for accuracy were met, except for the following:
    - BD12793 Calcium MS/MSD spike levels were less than 30% of the sample concentrations.
    - BD12802 Calcium MS/MSD spike levels were less than 30% of the sample concentrations.
  - A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD12784	Calcium, Iron	10.15
BD12786	Calcium	10.15
BD12787	Calcium	10.15
BD12788	Calcium	10.15
BD12789	Calcium	10.15
BD12790	Calcium	10.15
BD12792	Calcium	10.15
BD12793	Calcium	10.15
BD12794	Calcium	10.15
BD12795	Calcium	10.15
BD12799	Calcium	10.15
BD12801	Calcium	10.15
BD12802	Calcium	10.15

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

Dissolved Metals ICP

Gaston Gypsum

WMWGASG\_1415

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD12784	759958	WMWGASG_1415
BD12785	759958	WMWGASG_1415
BD12786	759958	WMWGASG_1415
BD12787	759958	WMWGASG_1415
BD12788	759958, 762281	WMWGASG_1415
BD12789	759958	WMWGASG_1415
BD12790	759958	WMWGASG_1415
BD12791	759958	WMWGASG_1415
BD12792	759958, 762281	WMWGASG_1415
BD12793	759958	WMWGASG_1415
BD12794	759959	WMWGASG_1415
BD12795	759959	WMWGASG_1415
BD12797	759959	WMWGASG_1415
BD12799	759959	WMWGASG_1415
BD12801	759959	WMWGASG_1415
BD12802	759959	WMWGASG_1415

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

General Quality Control Procedures:

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

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

Matrix Specific Quality Control Procedures:

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

- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for accuracy were met, except for the following:
    - BD12792 Calcium MS/MSD spike levels were less than 30% of the sample concentrations.
    - BD12793 Calcium MS/MSD spike levels were less than 30% of the sample concentrations.
    - BD12802 Calcium MS/MSD spike levels were less than 30% of the sample concentrations.
  - A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD12784	Calcium, Iron	10.15
BD12786	Calcium	10.15
BD12787	Calcium	10.15
BD12788	Calcium	10.15
BD12789	Calcium	10.15
BD12790	Calcium	10.15
BD12792	Calcium	10.15
BD12793	Calcium	10.15
BD12794	Calcium	10.15
BD12795	Calcium	10.15
BD12799	Calcium	10.15
BD12801	Calcium	10.15
BD12802	Calcium	10.15

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

Total Metals ICPMS

Gaston Gypsum

WMWGASG\_1415

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD12784	760394	WMWGASG_1415
BD12785	760394	WMWGASG_1415
BD12786	760394	WMWGASG_1415
BD12787	760394	WMWGASG_1415
BD12788	760394	WMWGASG_1415
BD12789	760394	WMWGASG_1415
BD12790	760394	WMWGASG_1415
BD12791	760394	WMWGASG_1415
BD12792	760394	WMWGASG_1415
BD12793	760394	WMWGASG_1415
BD12794	760395	WMWGASG_1415
BD12795	760395	WMWGASG_1415
BD12796	760395	WMWGASG_1415
BD12797	760395	WMWGASG_1415
BD12798	760395	WMWGASG_1415
BD12799	760395	WMWGASG_1415
BD12800	760395	WMWGASG_1415
BD12801	760395	WMWGASG_1415
BD12802	760395	WMWGASG_1415

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

#### General Quality Control Procedures:

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

- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

#### Matrix Specific Quality Control Procedures:

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

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

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD12794	Barium	5.075

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

Dissolved Metals ICPMS

Gaston Gypsum

WMWGASG\_1415

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD12784	760190	WMWGASG_1415
BD12785	760190	WMWGASG_1415
BD12786	760190	WMWGASG_1415
BD12787	760190	WMWGASG_1415
BD12788	760190	WMWGASG_1415
BD12789	760190	WMWGASG_1415
BD12790	760190	WMWGASG_1415
BD12791	760190	WMWGASG_1415
BD12792	760190	WMWGASG_1415
BD12793	760190	WMWGASG_1415
BD12794	760204	WMWGASG_1415
BD12795	760204	WMWGASG_1415
BD12797	760204	WMWGASG_1415
BD12799	760204	WMWGASG_1415
BD12801	760204	WMWGASG_1415
BD12802	760204	WMWGASG_1415

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

General Quality Control Procedures:

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

- The method blank associated with each preparation batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

#### Matrix Specific Quality Control Procedures:

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

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

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD12794	Barium	5.075

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



Mercury

Gaston Gypsum

WMWGASG\_1415

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD12784	760151	WMWGASG_1415
BD12785	760151	WMWGASG_1415
BD12786	760151	WMWGASG_1415
BD12787	760151	WMWGASG_1415
BD12788	760151	WMWGASG_1415
BD12789	760151	WMWGASG_1415
BD12790	760151	WMWGASG_1415
BD12791	760151	WMWGASG_1415
BD12792	760151	WMWGASG_1415
BD12793	760151	WMWGASG_1415
BD12794	760152	WMWGASG_1415
BD12795	760152	WMWGASG_1415
BD12796	760152	WMWGASG_1415
BD12797	760152	WMWGASG_1415
BD12798	760152	WMWGASG_1415
BD12799	760152	WMWGASG_1415
BD12800	760152	WMWGASG_1415
BD12801	760152	WMWGASG_1415
BD12802	760152	WMWGASG_1415

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

General Quality Control Procedures:

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

- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch was below the limit of quantitation for the requested analyte.
- All calibration met criteria for the requested analyte.
- All response signals were satisfactory.

### Matrix Specific Quality Control Procedures:

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

- A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for accuracy were met.
  - A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution.

Total Dissolved Solids

Gaston Gypsum

WMWGASG\_1415

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD12784	759787	WMWGASG_1415
BD12785	759787	WMWGASG_1415
BD12786	759787	WMWGASG_1415
BD12787	759787	WMWGASG_1415
BD12788	759788	WMWGASG_1415
BD12789	759788	WMWGASG_1415
BD12790	759788	WMWGASG_1415
BD12791	759788	WMWGASG_1415
BD12792	759788	WMWGASG_1415
BD12793	759788	WMWGASG_1415
BD12794	759788	WMWGASG_1415
BD12795	759788	WMWGASG_1415
BD12796	759788	WMWGASG_1415
BD12797	759788	WMWGASG_1415
BD12798	760174	WMWGASG_1415
BD12799	760174	WMWGASG_1415
BD12800	760174	WMWGASG_1415
BD12801	760174	WMWGASG_1415
BD12802	760174	WMWGASG_1415

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

General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch, and RPD was ≤10%.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue <2.5mg had the maximum volume of 150mL filtered. Affected samples are as follows:
  - BD12785

## Case Narrative

- BD12796
- BD12798
- BD12800

Alkalinity

Gaston Gypsum

WMWGASG\_1415

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD12784	760349, 760350, 760351, 760352	WMWGASG_1415
BD12785	760349, 760350, 760351, 760352	WMWGASG_1415
BD12786	760349, 760350, 760351, 760352	WMWGASG_1415
BD12787	760349, 760350, 760351, 760352	WMWGASG_1415
BD12788	760349, 760350, 760351, 760352	WMWGASG_1415
BD12789	760349, 760350, 760351, 760352	WMWGASG_1415
BD12790	760349, 760350, 760351, 760352	WMWGASG_1415
BD12791	760349, 760350, 760351, 760352	WMWGASG_1415
BD12792	760349, 760350, 760351, 760352	WMWGASG_1415
BD12793	760349, 760350, 760351, 760352	WMWGASG_1415
BD12794	760349, 760350, 760351, 760352	WMWGASG_1415
BD12795	760349, 760350, 760351, 760352	WMWGASG_1415
BD12797	760833, 760834, 760835, 760836	WMWGASG_1415
BD12799	760833, 760834, 760835, 760836	WMWGASG_1415
BD12801	760833, 760834, 760835, 760836	WMWGASG_1415
BD12802	760833, 760834, 760835, 760836	WMWGASG_1415

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.

Anions

Gaston Gypsum

WMWGASG\_1415

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD12784	759811, 759935, 760643	WMWGASG_1415
BD12785	759811, 759935, 760643	WMWGASG_1415
BD12786	759811, 759935, 760643	WMWGASG_1415
BD12787	759811, 759935, 760643	WMWGASG_1415
BD12788	759811, 759935, 760643	WMWGASG_1415
BD12789	759811, 759935, 760643	WMWGASG_1415
BD12790	759811, 759935, 760643	WMWGASG_1415
BD12791	759811, 759935, 760643	WMWGASG_1415
BD12792	759811, 759935, 760643	WMWGASG_1415
BD12793	759812, 759936, 760644	WMWGASG_1415
BD12794	759812, 759936, 760644	WMWGASG_1415
BD12795	759812, 759936, 760644	WMWGASG_1415
BD12796	759812, 759936, 760644	WMWGASG_1415
BD12797	759812, 759936, 760644	WMWGASG_1415
BD12798	759812, 759936, 760644	WMWGASG_1415
BD12799	759812, 759936, 760644	WMWGASG_1415
BD12800	759812, 759936, 760644	WMWGASG_1415
BD12801	759812, 759936, 760644	WMWGASG_1415
BD12802	759812, 759936, 760644	WMWGASG_1415

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

General Quality Control Procedures:

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

- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

#### Matrix Specific Quality Control Procedures:

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

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

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD12784	Sulfate	10
BD12791	Chloride	2

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

Nitrate-Nitrite

Gaston Gypsum

WMWGASG\_1415

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD12784	759808	WMWGASG_1415
BD12785	759808	WMWGASG_1415
BD12786	759808	WMWGASG_1415
BD12787	759808	WMWGASG_1415
BD12788	759808	WMWGASG_1415
BD12789	759808	WMWGASG_1415
BD12790	759808	WMWGASG_1415
BD12791	759808	WMWGASG_1415
BD12792	759808	WMWGASG_1415
BD12793	759808	WMWGASG_1415
BD12794	759809	WMWGASG_1415
BD12795	759809	WMWGASG_1415
BD12796	759809	WMWGASG_1415
BD12797	759809	WMWGASG_1415
BD12798	759809	WMWGASG_1415
BD12799	759809	WMWGASG_1415
BD12800	759809	WMWGASG_1415
BD12801	759809	WMWGASG_1415
BD12802	759809	WMWGASG_1415

4. All of the above samples were prepared and analyzed for NO<sub>x</sub> by EPA 353.2.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

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



- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and were below limit of detection.
- All continued calibration blanks (CCB) were below the limit of detection.

### EPA 353.2 Specific QC:

- Prior to sample analysis, Cadmium coil reduction efficiency check met criteria.
  - Matrix Specific QC:
    - A sample duplicate was run and criteria for precision was met.
    - A matrix spike was run and criteria for accuracy was met.
7. All samples were analyzed without a dilution factor.
  8. The raw data results are shown with dilution factors included.

Total Organic Carbon

Gaston Gypsum

WMWGASG\_1415

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD12784	759772	WMWGASG_1415
BD12785	759772	WMWGASG_1415
BD12786	759772	WMWGASG_1415
BD12787	759772	WMWGASG_1415
BD12788	759772	WMWGASG_1415
BD12789	759772	WMWGASG_1415
BD12790	759772	WMWGASG_1415
BD12791	759772	WMWGASG_1415
BD12792	759772	WMWGASG_1415
BD12793	759772	WMWGASG_1415
BD12794	759773	WMWGASG_1415
BD12795	759773	WMWGASG_1415
BD12796	759773	WMWGASG_1415
BD12797	759773	WMWGASG_1415
BD12798	759773	WMWGASG_1415
BD12799	759773	WMWGASG_1415
BD12800	759773	WMWGASG_1415
BD12801	759773	WMWGASG_1415
BD12802	759773	WMWGASG_1415

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

General Quality Control Procedures:

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

Matrix Specific Quality Control Procedures:

## Case Narrative

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
  - A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.
  8. The raw data results are shown with dilution factors included.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-5

**Location Code:** WMWGASG  
**Collected:** 7/10/23 12:50  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12784

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	7/17/23 12:00	7/18/23 10:25		1.015	0.0436	mg/L	0.030000	0.1015	J
* Calcium, Total	7/17/23 12:00	7/18/23 12:23		10.15	85.0	mg/L	0.70035	4.06	
* Iron, Total	7/17/23 12:00	7/18/23 12:23		10.15	4.99	mg/L	0.08120	0.406	
* Lithium, Total	7/17/23 12:00	7/18/23 10:25		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	7/17/23 12:00	7/18/23 10:25		1.015	21.6	mg/L	0.021315	0.406	
* Molybdenum, Total	7/17/23 12:00	7/18/23 10:25		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	7/17/23 12:00	7/18/23 10:25		1	11.1	mg/L			
* Silicon, Total	7/17/23 12:00	7/18/23 10:25		1.015	5.21	mg/L	0.02030	0.25375	
* Sodium, Total	7/17/23 12:00	7/18/23 10:25		1.015	18.8	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>							
* Boron, Dissolved	7/17/23 08:56	7/19/23 10:46		1.015	0.0432	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	7/17/23 08:56	7/19/23 12:59		10.15	10.9	mg/L	0.70035	4.06	
* Iron, Dissolved	7/17/23 08:56	7/19/23 12:59		10.15	0.575	mg/L	0.08120	0.4060	
* Lithium, Dissolved	7/17/23 08:56	7/19/23 10:46		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	7/17/23 08:56	7/19/23 10:46		1.015	21.8	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/17/23 08:56	7/19/23 12:15		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	7/17/23 08:56	7/19/23 10:46		1	11.0	mg/L			
* Silicon, Dissolved	7/17/23 08:56	7/19/23 10:46		1.015	5.13	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/17/23 08:56	7/19/23 10:46		1.015	17.8	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	7/17/23 12:00	7/17/23 13:48		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	7/17/23 12:00	7/17/23 13:48		1.015	0.0671	mg/L	0.009135	0.05075	
* Arsenic, Total	7/17/23 12:00	7/17/23 13:48		1.015	0.00130	mg/L	0.000112	0.000203	
* Barium, Total	7/17/23 12:00	7/17/23 13:48		1.015	0.0839	mg/L	0.000508	0.001015	
* Beryllium, Total	7/17/23 12:00	7/17/23 13:48		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/17/23 12:00	7/17/23 13:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/17/23 12:00	7/17/23 13:48		1.015	0.000239	mg/L	0.000203	0.001015	J
* Cobalt, Total	7/17/23 12:00	7/17/23 13:48		1.015	0.00350	mg/L	0.000068	0.000203	
* Lead, Total	7/17/23 12:00	7/17/23 13:48		1.015	0.0000925	mg/L	0.000068	0.000203	J
* Manganese, Total	7/17/23 12:00	7/17/23 13:48		1.015	0.896	mg/L	0.000152	0.001015	

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-5

**Location Code:** WMWGASG  
**Collected:** 7/10/23 12:50  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12784

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/17/23 12:00	7/17/23 13:48		1.015	0.465	mg/L	0.169505	0.5075	J
* Selenium, Total	7/17/23 12:00	7/17/23 13:48		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/17/23 12:00	7/17/23 13:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	7/17/23 08:56	7/17/23 10:36		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/17/23 08:56	7/17/23 10:36		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/17/23 08:56	7/17/23 10:36		1.015	0.00133	mg/L	0.000112	0.000203	
* Barium, Dissolved	7/17/23 08:56	7/17/23 10:36		1.015	0.0803	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/17/23 08:56	7/17/23 10:36		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/17/23 08:56	7/17/23 10:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/17/23 08:56	7/17/23 10:36		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/17/23 08:56	7/17/23 10:36		1.015	0.00345	mg/L	0.000068	0.000203	
* Lead, Dissolved	7/17/23 08:56	7/17/23 10:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/17/23 08:56	7/17/23 10:36		1.015	0.881	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/17/23 08:56	7/17/23 10:36		1.015	0.446	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	7/17/23 08:56	7/17/23 10:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/17/23 08:56	7/17/23 10:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	7/18/23 12:52	7/18/23 17:25		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	7/13/23 14:03	7/13/23 14:03		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	7/17/23 10:37	7/17/23 14:47		1	164	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	7/13/23 11:25	7/18/23 14:00		1	444	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	7/17/23 10:37	7/17/23 14:47		1	164	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	7/17/23 10:37	7/17/23 14:47		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 4500H+ B</b>		<b>Analyst: DHC</b>							
Alkalinity pH Endpoint	7/17/23 10:37	7/17/23 14:47		1	4.56	SU		2	

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-5

**Location Code:** WMWGASG  
**Collected:** 7/10/23 12:50  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12784

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	7/13/23 17:48	7/13/23 17:48		1	1.29	mg/L	1.00	2	J
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	7/13/23 13:59	7/13/23 13:59		1	8.17	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	7/14/23 09:55	7/14/23 09:55		1	0.0990	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: CES</b>							
* Sulfate	7/21/23 10:45	7/21/23 10:45		10	191	mg/L	6.0	20	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	7/10/23 12:45	7/10/23 12:45			647.55	uS/cm			FA
pH	7/10/23 12:45	7/10/23 12:45			6.30	SU			FA
Temperature	7/10/23 12:45	7/10/23 12:45			19.88	C			FA
Turbidity	7/10/23 12:45	7/10/23 12:45			8.68	NTU			FA
Sulfide	7/10/23 12:45	7/10/23 12:45			0	mg/L			FA

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/10/23 12:50  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-5

**Laboratory ID Number:** BD12784

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD12793	Aluminum, Dissolved	mg/L	-0.000164	0.0198	0.100	0.106	0.103	0.104	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD12793	Aluminum, Total	mg/L	0.000890	0.0198	0.100	0.112	0.110	0.114	0.0850 to 0.115	112	70.0 to 130	1.80	20.0
BD12793	Antimony, Dissolved	mg/L	0.000440	0.00100	0.100	0.0941	0.0924	0.0898	0.0850 to 0.115	94.1	70.0 to 130	1.82	20.0
BD12793	Antimony, Total	mg/L	0.000480	0.00100	0.100	0.0944	0.0962	0.0959	0.0850 to 0.115	94.4	70.0 to 130	1.89	20.0
BD12793	Arsenic, Dissolved	mg/L	0.0000143	0.000200	0.100	0.105	0.102	0.102	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BD12793	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.0984	0.0987	0.102	0.0850 to 0.115	98.3	70.0 to 130	0.304	20.0
BD12793	Barium, Dissolved	mg/L	0.0000152	0.00100	0.100	0.149	0.147	0.104	0.0850 to 0.115	107	70.0 to 130	1.35	20.0
BD12793	Barium, Total	mg/L	0.0000323	0.00100	0.100	0.150	0.149	0.105	0.0850 to 0.115	107	70.0 to 130	0.669	20.0
BD12793	Beryllium, Dissolved	mg/L	0.0000110	0.000880	0.100	0.0914	0.0925	0.0984	0.0850 to 0.115	91.4	70.0 to 130	1.20	20.0
BD12793	Beryllium, Total	mg/L	0.0000081	0.000880	0.100	0.0903	0.0861	0.0962	0.0850 to 0.115	90.3	70.0 to 130	4.76	20.0
BD12793	Boron, Dissolved	mg/L	0.000014	0.0650	1.00	1.02	1.04	1.00	0.850 to 1.15	102	70.0 to 130	1.94	20.0
BD12793	Boron, Total	mg/L	-0.000501	0.0650	1.00	1.02	1.03	1.00	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BD12793	Cadmium, Dissolved	mg/L	0.0000047	0.000147	0.100	0.104	0.0984	0.102	0.0850 to 0.115	104	70.0 to 130	5.53	20.0
BD12793	Cadmium, Total	mg/L	0.0000090	0.000147	0.100	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD12793	Calcium, Dissolved	mg/L	0.00449	0.152	5.00	115	122	5.13	4.25 to 5.75	-80.0	70.0 to 130	5.91	20.0
BD12793	Calcium, Total	mg/L	-0.0111	0.152	5.00	104	103	5.08	4.25 to 5.75	-20.0	70.0 to 130	0.966	20.0
BD12792	Chloride	mg/L	-0.0166	1.00	10.0	14.1	14.0	9.89	9.00 to 11.0	103	80.0 to 120	0.712	20.0
BD12793	Chromium, Dissolved	mg/L	-0.0000223	0.000440	0.100	0.106	0.105	0.105	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD12793	Chromium, Total	mg/L	-0.0000974	0.000440	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD12793	Cobalt, Dissolved	mg/L	-0.0000023	0.000147	0.100	0.105	0.103	0.106	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD12793	Cobalt, Total	mg/L	-0.0000015	0.000147	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD12792	Fluoride	mg/L	-0.0135	0.125	2.50	2.56	2.56	2.55	2.25 to 2.75	102	80.0 to 120	0.00	20.0
BD12793	Iron, Dissolved	mg/L	-0.00150	0.0176	0.2	0.198	0.199	0.203	0.170 to 0.230	99.0	70.0 to 130	0.504	20.0
BD12793	Iron, Total	mg/L	-0.00158	0.0176	0.2	0.201	0.204	0.203	0.170 to 0.230	100	70.0 to 130	1.48	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/10/23 12:50  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-5

**Laboratory ID Number:** BD12784

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD12793	Lead, Dissolved	mg/L	0.0000159	0.000147	0.100	0.0985	0.105	0.105	0.0850 to 0.115	98.5	70.0 to 130	6.39	20.0
BD12793	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.105	0.106	0.102	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD12793	Lithium, Dissolved	mg/L	-0.00056	0.0154	0.200	0.202	0.207	0.196	0.170 to 0.230	101	70.0 to 130	2.44	20.0
BD12793	Lithium, Total	mg/L	0.000108	0.0154	0.200	0.204	0.204	0.200	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD12793	Magnesium, Dissolved	mg/L	-0.00231	0.0462	5.00	16.4	16.3	4.94	4.25 to 5.75	98.0	70.0 to 130	0.612	20.0
BD12793	Magnesium, Total	mg/L	0.00970	0.0462	5.00	16.3	16.3	4.97	4.25 to 5.75	96.0	70.0 to 130	0.00	20.0
BD12793	Manganese, Dissolved	mg/L	-0.0000472	0.00033	0.100	0.106	0.104	0.107	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD12793	Manganese, Total	mg/L	-0.0000467	0.00033	0.100	0.104	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD12793	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00398	0.00401	0.00401	0.00340 to 0.00460	99.5	70.0 to 130	0.751	20.0
BD12793	Molybdenum, Dissolved	mg/L	0.00219	0.0100	0.2	0.194	0.199	0.197	0.170 to 0.230	97.0	70.0 to 130	2.54	20.0
BD12793	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.199	0.201	0.198	0.170 to 0.230	99.5	70.0 to 130	1.00	20.0
BD12793	Potassium, Dissolved	mg/L	0.0297	0.367	10.0	12.1	11.9	11.2	8.50 to 11.5	111	70.0 to 130	1.67	20.0
BD12793	Potassium, Total	mg/L	0.0159	0.367	10.0	12.1	11.8	11.2	8.50 to 11.5	112	70.0 to 130	2.51	20.0
BD12793	Selenium, Dissolved	mg/L	0.0000984	0.00100	0.100	0.107	0.107	0.108	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD12793	Selenium, Total	mg/L	0.0000416	0.00100	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD12793	Silicon, Dissolved	mg/L	-0.00168	0.0440	1.00	5.71	5.73	1.03	0.850 to 1.15	102	70.0 to 130	0.350	20.0
BD12793	Silicon, Total	mg/L	0.000428	0.0440	1.00	5.73	5.72	1.03	0.850 to 1.15	100	70.0 to 130	0.175	20.0
BD12793	Sodium, Dissolved	mg/L	0.00156	0.0880	5.00	7.83	7.98	4.94	4.25 to 5.75	100	70.0 to 130	1.90	20.0
BD12793	Sodium, Total	mg/L	0.00381	0.0880	5.00	7.79	7.76	4.96	4.25 to 5.75	99.4	70.0 to 130	0.386	20.0
BD12792	Sulfate	mg/L	0.160	2.0	20.0	30.8	31.1	20.2	18.0 to 22.0	107	80.0 to 120	0.969	20.0
BD12793	Thallium, Dissolved	mg/L	0.0000065	0.000147	0.100	0.102	0.0997	0.100	0.0850 to 0.115	102	70.0 to 130	2.28	20.0
BD12793	Thallium, Total	mg/L	0.0000125	0.000147	0.100	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD12793	Total Organic Carbon	mg/L	0.125	1.00	10.0	8.72	10.1	9.78		87.2	80.0 to 120	14.7	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



## Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/10/23 12:50  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-5

**Laboratory ID Number:** BD12784

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD12788	Alkalinity	mg CaCO3/L					145	50.3	45.0 to 55.0			0.687	10.0
BD12793	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.54	0.386	2.03	1.80 to 2.20	108	90.0 to 110	0.774	15.0
BD12787	Solids, Dissolved	mg/L	1.00	25.0			179	52.0	40.0 to 60.0			1.66	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-6

**Location Code:** WMWGASG  
**Collected:** 7/10/23 14:35  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12785

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	7/17/23 12:00	7/18/23 10:28		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	7/17/23 12:00	7/18/23 10:28		1.015	0.589	mg/L	0.070035	0.406	
* Iron, Total	7/17/23 12:00	7/18/23 10:28		1.015	0.0483	mg/L	0.008120	0.0406	
* Lithium, Total	7/17/23 12:00	7/18/23 10:28		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	7/17/23 12:00	7/18/23 10:28		1.015	0.397	mg/L	0.021315	0.406	J
* Molybdenum, Total	7/17/23 12:00	7/18/23 10:28		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	7/17/23 12:00	7/18/23 10:28		1	8.95	mg/L			
* Silicon, Total	7/17/23 12:00	7/18/23 10:28		1.015	4.18	mg/L	0.02030	0.25375	
* Sodium, Total	7/17/23 12:00	7/18/23 10:28		1.015	2.90	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>						
* Boron, Dissolved	7/17/23 08:56	7/19/23 10:49		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	7/17/23 08:56	7/19/23 10:49		1.015	0.761	mg/L	0.070035	0.406	
* Iron, Dissolved	7/17/23 08:56	7/19/23 10:49		1.015	0.0444	mg/L	0.008120	0.0406	
* Lithium, Dissolved	7/17/23 08:56	7/19/23 10:49		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	7/17/23 08:56	7/19/23 10:49		1.015	0.427	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/17/23 08:56	7/19/23 12:18		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	7/17/23 08:56	7/19/23 10:49		1	8.88	mg/L			
* Silicon, Dissolved	7/17/23 08:56	7/19/23 10:49		1.015	4.15	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/17/23 08:56	7/19/23 10:49		1.015	2.89	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	7/17/23 12:00	7/17/23 13:52		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	7/17/23 12:00	7/17/23 13:52		1.015	0.109	mg/L	0.009135	0.05075	
* Arsenic, Total	7/17/23 12:00	7/17/23 13:52		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	7/17/23 12:00	7/17/23 13:52		1.015	0.0195	mg/L	0.000508	0.001015	
* Beryllium, Total	7/17/23 12:00	7/17/23 13:52		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/17/23 12:00	7/17/23 13:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/17/23 12:00	7/17/23 13:52		1.015	0.000217	mg/L	0.000203	0.001015	J
* Cobalt, Total	7/17/23 12:00	7/17/23 13:52		1.015	0.000713	mg/L	0.000068	0.000203	
* Lead, Total	7/17/23 12:00	7/17/23 13:52		1.015	0.000324	mg/L	0.000068	0.000203	
* Manganese, Total	7/17/23 12:00	7/17/23 13:52		1.015	0.00955	mg/L	0.000152	0.001015	

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-6

**Location Code:** WMWGASG  
**Collected:** 7/10/23 14:35  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12785

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/17/23 12:00	7/17/23 13:52		1.015	0.196	mg/L	0.169505	0.5075	J
* Selenium, Total	7/17/23 12:00	7/17/23 13:52		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/17/23 12:00	7/17/23 13:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	7/17/23 08:56	7/17/23 10:39		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/17/23 08:56	7/17/23 10:39		1.015	0.0942	mg/L	0.009135	0.05075	
* Arsenic, Dissolved	7/17/23 08:56	7/17/23 10:39		1.015	0.000116	mg/L	0.000112	0.000203	J
* Barium, Dissolved	7/17/23 08:56	7/17/23 10:39		1.015	0.0187	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/17/23 08:56	7/17/23 10:39		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/17/23 08:56	7/17/23 10:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/17/23 08:56	7/17/23 10:39		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/17/23 08:56	7/17/23 10:39		1.015	0.000742	mg/L	0.000068	0.000203	
* Lead, Dissolved	7/17/23 08:56	7/17/23 10:39		1.015	0.000348	mg/L	0.000068	0.000203	
* Manganese, Dissolved	7/17/23 08:56	7/17/23 10:39		1.015	0.00978	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/17/23 08:56	7/17/23 10:39		1.015	0.202	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	7/17/23 08:56	7/17/23 10:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/17/23 08:56	7/17/23 10:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	7/18/23 12:52	7/18/23 17:29		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	7/13/23 14:05	7/13/23 14:05		1	0.217	mg/L as N	0.20	0.3	J
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	7/17/23 10:37	7/17/23 14:47		1	4.30	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	7/13/23 11:25	7/18/23 14:00		1	Not Detected	mg/L		25	U
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	7/17/23 10:37	7/17/23 14:47		1	4.30	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	7/17/23 10:37	7/17/23 14:47		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 4500H+ B</b>		<b>Analyst: DHC</b>							
Alkalinity pH Endpoint	7/17/23 10:37	7/17/23 14:47		1	4.22	SU		2	

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-6

**Location Code:** WMWGASG  
**Collected:** 7/10/23 14:35  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12785

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	7/13/23 18:05	7/13/23 18:05		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	7/13/23 14:00	7/13/23 14:00		1	3.44	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	7/14/23 09:56	7/14/23 09:56		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: CES</b>							
* Sulfate	7/21/23 10:33	7/21/23 10:33		1	0.940	mg/L	0.6	2	J
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	7/10/23 14:31	7/10/23 14:31			28.26	uS/cm			FA
pH	7/10/23 14:31	7/10/23 14:31			4.40	SU			FA
Temperature	7/10/23 14:31	7/10/23 14:31			20.89	C			FA
Turbidity	7/10/23 14:31	7/10/23 14:31			2.17	NTU			FA
Sulfide	7/10/23 14:31	7/10/23 14:31			0	mg/L			FA

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/10/23 14:35  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-6

**Laboratory ID Number:** BD12785

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD12793	Aluminum, Dissolved	mg/L	-0.000164	0.0198	0.100	0.106	0.103	0.104	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD12793	Aluminum, Total	mg/L	0.000890	0.0198	0.100	0.112	0.110	0.114	0.0850 to 0.115	112	70.0 to 130	1.80	20.0
BD12793	Antimony, Dissolved	mg/L	0.000440	0.00100	0.100	0.0941	0.0924	0.0898	0.0850 to 0.115	94.1	70.0 to 130	1.82	20.0
BD12793	Antimony, Total	mg/L	0.000480	0.00100	0.100	0.0944	0.0962	0.0959	0.0850 to 0.115	94.4	70.0 to 130	1.89	20.0
BD12793	Arsenic, Dissolved	mg/L	0.0000143	0.000200	0.100	0.105	0.102	0.102	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BD12793	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.0984	0.0987	0.102	0.0850 to 0.115	98.3	70.0 to 130	0.304	20.0
BD12793	Barium, Dissolved	mg/L	0.0000152	0.00100	0.100	0.149	0.147	0.104	0.0850 to 0.115	107	70.0 to 130	1.35	20.0
BD12793	Barium, Total	mg/L	0.0000323	0.00100	0.100	0.150	0.149	0.105	0.0850 to 0.115	107	70.0 to 130	0.669	20.0
BD12793	Beryllium, Dissolved	mg/L	0.0000110	0.000880	0.100	0.0914	0.0925	0.0984	0.0850 to 0.115	91.4	70.0 to 130	1.20	20.0
BD12793	Beryllium, Total	mg/L	0.0000081	0.000880	0.100	0.0903	0.0861	0.0962	0.0850 to 0.115	90.3	70.0 to 130	4.76	20.0
BD12793	Boron, Dissolved	mg/L	0.000014	0.0650	1.00	1.02	1.04	1.00	0.850 to 1.15	102	70.0 to 130	1.94	20.0
BD12793	Boron, Total	mg/L	-0.000501	0.0650	1.00	1.02	1.03	1.00	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BD12793	Cadmium, Dissolved	mg/L	0.0000047	0.000147	0.100	0.104	0.0984	0.102	0.0850 to 0.115	104	70.0 to 130	5.53	20.0
BD12793	Cadmium, Total	mg/L	0.0000090	0.000147	0.100	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD12793	Calcium, Dissolved	mg/L	0.00449	0.152	5.00	115	122	5.13	4.25 to 5.75	-80.0	70.0 to 130	5.91	20.0
BD12793	Calcium, Total	mg/L	-0.0111	0.152	5.00	104	103	5.08	4.25 to 5.75	-20.0	70.0 to 130	0.966	20.0
BD12792	Chloride	mg/L	-0.0166	1.00	10.0	14.1	14.0	9.89	9.00 to 11.0	103	80.0 to 120	0.712	20.0
BD12793	Chromium, Dissolved	mg/L	-0.0000223	0.000440	0.100	0.106	0.105	0.105	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD12793	Chromium, Total	mg/L	-0.0000974	0.000440	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD12793	Cobalt, Dissolved	mg/L	-0.0000023	0.000147	0.100	0.105	0.103	0.106	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD12793	Cobalt, Total	mg/L	-0.0000015	0.000147	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD12792	Fluoride	mg/L	-0.0135	0.125	2.50	2.56	2.56	2.55	2.25 to 2.75	102	80.0 to 120	0.00	20.0
BD12793	Iron, Dissolved	mg/L	-0.00150	0.0176	0.2	0.198	0.199	0.203	0.170 to 0.230	99.0	70.0 to 130	0.504	20.0
BD12793	Iron, Total	mg/L	-0.00158	0.0176	0.2	0.201	0.204	0.203	0.170 to 0.230	100	70.0 to 130	1.48	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/10/23 14:35  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-6

**Laboratory ID Number:** BD12785

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD12793	Lead, Dissolved	mg/L	0.0000159	0.000147	0.100	0.0985	0.105	0.105	0.0850 to 0.115	98.5	70.0 to 130	6.39	20.0
BD12793	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.105	0.106	0.102	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD12793	Lithium, Dissolved	mg/L	-0.00056	0.0154	0.200	0.202	0.207	0.196	0.170 to 0.230	101	70.0 to 130	2.44	20.0
BD12793	Lithium, Total	mg/L	0.000108	0.0154	0.200	0.204	0.204	0.200	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD12793	Magnesium, Dissolved	mg/L	-0.00231	0.0462	5.00	16.4	16.3	4.94	4.25 to 5.75	98.0	70.0 to 130	0.612	20.0
BD12793	Magnesium, Total	mg/L	0.00970	0.0462	5.00	16.3	16.3	4.97	4.25 to 5.75	96.0	70.0 to 130	0.00	20.0
BD12793	Manganese, Dissolved	mg/L	-0.0000472	0.00033	0.100	0.106	0.104	0.107	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD12793	Manganese, Total	mg/L	-0.0000467	0.00033	0.100	0.104	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD12793	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00398	0.00401	0.00401	0.00340 to 0.00460	99.5	70.0 to 130	0.751	20.0
BD12793	Molybdenum, Dissolved	mg/L	0.00219	0.0100	0.2	0.194	0.199	0.197	0.170 to 0.230	97.0	70.0 to 130	2.54	20.0
BD12793	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.199	0.201	0.198	0.170 to 0.230	99.5	70.0 to 130	1.00	20.0
BD12793	Potassium, Dissolved	mg/L	0.0297	0.367	10.0	12.1	11.9	11.2	8.50 to 11.5	111	70.0 to 130	1.67	20.0
BD12793	Potassium, Total	mg/L	0.0159	0.367	10.0	12.1	11.8	11.2	8.50 to 11.5	112	70.0 to 130	2.51	20.0
BD12793	Selenium, Dissolved	mg/L	0.0000984	0.00100	0.100	0.107	0.107	0.108	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD12793	Selenium, Total	mg/L	0.0000416	0.00100	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD12793	Silicon, Dissolved	mg/L	-0.00168	0.0440	1.00	5.71	5.73	1.03	0.850 to 1.15	102	70.0 to 130	0.350	20.0
BD12793	Silicon, Total	mg/L	0.000428	0.0440	1.00	5.73	5.72	1.03	0.850 to 1.15	100	70.0 to 130	0.175	20.0
BD12793	Sodium, Dissolved	mg/L	0.00156	0.0880	5.00	7.83	7.98	4.94	4.25 to 5.75	100	70.0 to 130	1.90	20.0
BD12793	Sodium, Total	mg/L	0.00381	0.0880	5.00	7.79	7.76	4.96	4.25 to 5.75	99.4	70.0 to 130	0.386	20.0
BD12792	Sulfate	mg/L	0.160	2.0	20.0	30.8	31.1	20.2	18.0 to 22.0	107	80.0 to 120	0.969	20.0
BD12793	Thallium, Dissolved	mg/L	0.0000065	0.000147	0.100	0.102	0.0997	0.100	0.0850 to 0.115	102	70.0 to 130	2.28	20.0
BD12793	Thallium, Total	mg/L	0.0000125	0.000147	0.100	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD12793	Total Organic Carbon	mg/L	0.125	1.00	10.0	8.72	10.1	9.78		87.2	80.0 to 120	14.7	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/10/23 14:35  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-6

**Laboratory ID Number:** BD12785

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD12788	Alkalinity	mg CaCO3/L					145	50.3	45.0 to 55.0			0.687	10.0
BD12793	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.54	0.386	2.03	1.80 to 2.20	108	90.0 to 110	0.774	15.0
BD12787	Solids, Dissolved	mg/L	1.00	25.0			179	52.0	40.0 to 60.0			1.66	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-7

**Location Code:** WMWGASG  
**Collected:** 7/10/23 15:50  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12786

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	7/17/23 12:00	7/18/23 10:31		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	7/17/23 12:00	7/18/23 12:26		10.15	65.6	mg/L	0.70035	4.06	
* Iron, Total	7/17/23 12:00	7/18/23 10:31		1.015	0.0552	mg/L	0.008120	0.0406	
* Lithium, Total	7/17/23 12:00	7/18/23 10:31		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	7/17/23 12:00	7/18/23 10:31		1.015	9.04	mg/L	0.021315	0.406	
* Molybdenum, Total	7/17/23 12:00	7/18/23 10:31		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	7/17/23 12:00	7/18/23 10:31		1	7.17	mg/L			
* Silicon, Total	7/17/23 12:00	7/18/23 10:31		1.015	3.35	mg/L	0.02030	0.25375	
* Sodium, Total	7/17/23 12:00	7/18/23 10:31		1.015	5.00	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>						
* Boron, Dissolved	7/17/23 08:56	7/19/23 10:52		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	7/17/23 08:56	7/19/23 13:03		10.15	78.9	mg/L	0.70035	4.06	
* Iron, Dissolved	7/17/23 08:56	7/19/23 10:52		1.015	0.0381	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	7/17/23 08:56	7/19/23 10:52		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	7/17/23 08:56	7/19/23 10:52		1.015	8.70	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/17/23 08:56	7/19/23 12:22		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	7/17/23 08:56	7/19/23 10:52		1	7.23	mg/L			
* Silicon, Dissolved	7/17/23 08:56	7/19/23 10:52		1.015	3.38	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/17/23 08:56	7/19/23 10:52		1.015	5.16	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	7/17/23 12:00	7/17/23 13:56		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	7/17/23 12:00	7/17/23 13:56		1.015	0.000416	mg/L	0.000112	0.000203	
* Aluminum, Total	7/17/23 12:00	7/17/23 13:56		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	7/17/23 12:00	7/17/23 13:56		1.015	0.0165	mg/L	0.000508	0.001015	
* Beryllium, Total	7/17/23 12:00	7/17/23 13:56		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/17/23 12:00	7/17/23 13:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/17/23 12:00	7/17/23 13:56		1.015	0.000299	mg/L	0.000203	0.001015	J
* Cobalt, Total	7/17/23 12:00	7/17/23 13:56		1.015	0.000572	mg/L	0.000068	0.000203	
* Lead, Total	7/17/23 12:00	7/17/23 13:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/17/23 12:00	7/17/23 13:56		1.015	0.257	mg/L	0.000152	0.001015	

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-7

**Location Code:** WMWGASG  
**Collected:** 7/10/23 15:50  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12786

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/17/23 12:00	7/17/23 13:56		1.015	0.763	mg/L	0.169505	0.5075	
* Selenium, Total	7/17/23 12:00	7/17/23 13:56		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/17/23 12:00	7/17/23 13:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	7/17/23 08:56	7/17/23 10:43		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/17/23 08:56	7/17/23 10:43		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/17/23 08:56	7/17/23 10:43		1.015	0.000463	mg/L	0.000112	0.000203	
* Barium, Dissolved	7/17/23 08:56	7/17/23 10:43		1.015	0.0142	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/17/23 08:56	7/17/23 10:43		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/17/23 08:56	7/17/23 10:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/17/23 08:56	7/17/23 10:43		1.015	0.000388	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	7/17/23 08:56	7/17/23 10:43		1.015	0.000466	mg/L	0.000068	0.000203	
* Lead, Dissolved	7/17/23 08:56	7/17/23 10:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/17/23 08:56	7/17/23 10:43		1.015	0.223	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/17/23 08:56	7/17/23 10:43		1.015	0.735	mg/L	0.169505	0.5075	
* Selenium, Dissolved	7/17/23 08:56	7/17/23 10:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/17/23 08:56	7/17/23 10:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	7/18/23 12:52	7/18/23 17:33		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	7/13/23 14:07	7/13/23 14:07		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	7/17/23 10:37	7/17/23 14:47		1	198	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	7/13/23 11:25	7/18/23 14:00		1	216	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	7/17/23 10:37	7/17/23 14:47		1	198	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	7/17/23 10:37	7/17/23 14:47		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 4500H+ B</b>		<b>Analyst: DHC</b>							
Alkalinity pH Endpoint	7/17/23 10:37	7/17/23 14:47		1	4.56	SU		2	

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-7

**Location Code:** WMWGASG  
**Collected:** 7/10/23 15:50  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12786

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	7/13/23 18:23	7/13/23 18:23		1	1.07	mg/L	1.00	2	J
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	7/13/23 14:01	7/13/23 14:01		1	3.33	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	7/14/23 09:58	7/14/23 09:58		1	0.100	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: CES</b>							
* Sulfate	7/21/23 10:35	7/21/23 10:35		1	5.64	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	7/10/23 15:47	7/10/23 15:47			388.38	uS/cm			FA
pH	7/10/23 15:47	7/10/23 15:47			6.66	SU			FA
Temperature	7/10/23 15:47	7/10/23 15:47			24.79	C			FA
Turbidity	7/10/23 15:47	7/10/23 15:47			1.89	NTU			FA
Sulfide	7/10/23 15:47	7/10/23 15:47			0	mg/L			FA

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/10/23 15:50  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-7

**Laboratory ID Number:** BD12786

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD12793	Aluminum, Dissolved	mg/L	-0.000164	0.0198	0.100	0.106	0.103	0.104	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD12793	Aluminum, Total	mg/L	0.000890	0.0198	0.100	0.112	0.110	0.114	0.0850 to 0.115	112	70.0 to 130	1.80	20.0
BD12793	Antimony, Dissolved	mg/L	0.000440	0.00100	0.100	0.0941	0.0924	0.0898	0.0850 to 0.115	94.1	70.0 to 130	1.82	20.0
BD12793	Antimony, Total	mg/L	0.000480	0.00100	0.100	0.0944	0.0962	0.0959	0.0850 to 0.115	94.4	70.0 to 130	1.89	20.0
BD12793	Arsenic, Dissolved	mg/L	0.0000143	0.000200	0.100	0.105	0.102	0.102	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BD12793	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.0984	0.0987	0.102	0.0850 to 0.115	98.3	70.0 to 130	0.304	20.0
BD12793	Barium, Dissolved	mg/L	0.0000152	0.00100	0.100	0.149	0.147	0.104	0.0850 to 0.115	107	70.0 to 130	1.35	20.0
BD12793	Barium, Total	mg/L	0.0000323	0.00100	0.100	0.150	0.149	0.105	0.0850 to 0.115	107	70.0 to 130	0.669	20.0
BD12793	Beryllium, Dissolved	mg/L	0.0000110	0.000880	0.100	0.0914	0.0925	0.0984	0.0850 to 0.115	91.4	70.0 to 130	1.20	20.0
BD12793	Beryllium, Total	mg/L	0.0000081	0.000880	0.100	0.0903	0.0861	0.0962	0.0850 to 0.115	90.3	70.0 to 130	4.76	20.0
BD12793	Boron, Dissolved	mg/L	0.000014	0.0650	1.00	1.02	1.04	1.00	0.850 to 1.15	102	70.0 to 130	1.94	20.0
BD12793	Boron, Total	mg/L	-0.000501	0.0650	1.00	1.02	1.03	1.00	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BD12793	Cadmium, Dissolved	mg/L	0.0000047	0.000147	0.100	0.104	0.0984	0.102	0.0850 to 0.115	104	70.0 to 130	5.53	20.0
BD12793	Cadmium, Total	mg/L	0.0000090	0.000147	0.100	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD12793	Calcium, Dissolved	mg/L	0.00449	0.152	5.00	115	122	5.13	4.25 to 5.75	-80.0	70.0 to 130	5.91	20.0
BD12793	Calcium, Total	mg/L	-0.0111	0.152	5.00	104	103	5.08	4.25 to 5.75	-20.0	70.0 to 130	0.966	20.0
BD12792	Chloride	mg/L	-0.0166	1.00	10.0	14.1	14.0	9.89	9.00 to 11.0	103	80.0 to 120	0.712	20.0
BD12793	Chromium, Dissolved	mg/L	-0.0000223	0.000440	0.100	0.106	0.105	0.105	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD12793	Chromium, Total	mg/L	-0.0000974	0.000440	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD12793	Cobalt, Dissolved	mg/L	-0.0000023	0.000147	0.100	0.105	0.103	0.106	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD12793	Cobalt, Total	mg/L	-0.0000015	0.000147	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD12792	Fluoride	mg/L	-0.0135	0.125	2.50	2.56	2.56	2.55	2.25 to 2.75	102	80.0 to 120	0.00	20.0
BD12793	Iron, Dissolved	mg/L	-0.00150	0.0176	0.2	0.198	0.199	0.203	0.170 to 0.230	99.0	70.0 to 130	0.504	20.0
BD12793	Iron, Total	mg/L	-0.00158	0.0176	0.2	0.201	0.204	0.203	0.170 to 0.230	100	70.0 to 130	1.48	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/10/23 15:50  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-7

**Laboratory ID Number:** BD12786

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD12793	Lead, Dissolved	mg/L	0.0000159	0.000147	0.100	0.0985	0.105	0.105	0.0850 to 0.115	98.5	70.0 to 130	6.39	20.0
BD12793	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.105	0.106	0.102	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD12793	Lithium, Dissolved	mg/L	-0.00056	0.0154	0.200	0.202	0.207	0.196	0.170 to 0.230	101	70.0 to 130	2.44	20.0
BD12793	Lithium, Total	mg/L	0.000108	0.0154	0.200	0.204	0.204	0.200	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD12793	Magnesium, Dissolved	mg/L	-0.00231	0.0462	5.00	16.4	16.3	4.94	4.25 to 5.75	98.0	70.0 to 130	0.612	20.0
BD12793	Magnesium, Total	mg/L	0.00970	0.0462	5.00	16.3	16.3	4.97	4.25 to 5.75	96.0	70.0 to 130	0.00	20.0
BD12793	Manganese, Dissolved	mg/L	-0.0000472	0.00033	0.100	0.106	0.104	0.107	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD12793	Manganese, Total	mg/L	-0.0000467	0.00033	0.100	0.104	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD12793	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00398	0.00401	0.00401	0.00340 to 0.00460	99.5	70.0 to 130	0.751	20.0
BD12793	Molybdenum, Dissolved	mg/L	0.00219	0.0100	0.2	0.194	0.199	0.197	0.170 to 0.230	97.0	70.0 to 130	2.54	20.0
BD12793	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.199	0.201	0.198	0.170 to 0.230	99.5	70.0 to 130	1.00	20.0
BD12793	Potassium, Dissolved	mg/L	0.0297	0.367	10.0	12.1	11.9	11.2	8.50 to 11.5	111	70.0 to 130	1.67	20.0
BD12793	Potassium, Total	mg/L	0.0159	0.367	10.0	12.1	11.8	11.2	8.50 to 11.5	112	70.0 to 130	2.51	20.0
BD12793	Selenium, Dissolved	mg/L	0.0000984	0.00100	0.100	0.107	0.107	0.108	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD12793	Selenium, Total	mg/L	0.0000416	0.00100	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD12793	Silicon, Dissolved	mg/L	-0.00168	0.0440	1.00	5.71	5.73	1.03	0.850 to 1.15	102	70.0 to 130	0.350	20.0
BD12793	Silicon, Total	mg/L	0.000428	0.0440	1.00	5.73	5.72	1.03	0.850 to 1.15	100	70.0 to 130	0.175	20.0
BD12793	Sodium, Dissolved	mg/L	0.00156	0.0880	5.00	7.83	7.98	4.94	4.25 to 5.75	100	70.0 to 130	1.90	20.0
BD12793	Sodium, Total	mg/L	0.00381	0.0880	5.00	7.79	7.76	4.96	4.25 to 5.75	99.4	70.0 to 130	0.386	20.0
BD12792	Sulfate	mg/L	0.160	2.0	20.0	30.8	31.1	20.2	18.0 to 22.0	107	80.0 to 120	0.969	20.0
BD12793	Thallium, Dissolved	mg/L	0.0000065	0.000147	0.100	0.102	0.0997	0.100	0.0850 to 0.115	102	70.0 to 130	2.28	20.0
BD12793	Thallium, Total	mg/L	0.0000125	0.000147	0.100	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD12793	Total Organic Carbon	mg/L	0.125	1.00	10.0	8.72	10.1	9.78		87.2	80.0 to 120	14.7	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/10/23 15:50  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-7

**Laboratory ID Number:** BD12786

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD12788	Alkalinity	mg CaCO3/L					145	50.3	45.0 to 55.0			0.687	10.0
BD12793	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.54	0.386	2.03	1.80 to 2.20	108	90.0 to 110	0.774	15.0
BD12787	Solids, Dissolved	mg/L	1.00	25.0			179	52.0	40.0 to 60.0			1.66	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-8

**Location Code:** WMWGASG  
**Collected:** 7/11/23 08:53  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12787

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	7/17/23 12:00	7/18/23 10:34		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	7/17/23 12:00	7/18/23 12:29		10.15	55.0	mg/L	0.70035	4.06		
* Iron, Total	7/17/23 12:00	7/18/23 10:34		1.015	0.432	mg/L	0.008120	0.0406		
* Lithium, Total	7/17/23 12:00	7/18/23 10:34		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	7/17/23 12:00	7/18/23 10:34		1.015	10.4	mg/L	0.021315	0.406		
* Molybdenum, Total	7/17/23 12:00	7/18/23 10:34		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	7/17/23 12:00	7/18/23 10:34		1	8.67	mg/L				
* Silicon, Total	7/17/23 12:00	7/18/23 10:34		1.015	4.05	mg/L	0.02030	0.25375		
* Sodium, Total	7/17/23 12:00	7/18/23 10:34		1.015	1.33	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	7/17/23 08:56	7/19/23 10:55		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	7/17/23 08:56	7/19/23 13:06		10.15	65.5	mg/L	0.70035	4.06		
* Iron, Dissolved	7/17/23 08:56	7/19/23 10:55		1.015	0.291	mg/L	0.008120	0.0406		
* Lithium, Dissolved	7/17/23 08:56	7/19/23 10:55		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	7/17/23 08:56	7/19/23 10:55		1.015	10.5	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	7/17/23 08:56	7/19/23 12:25		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	7/17/23 08:56	7/19/23 10:55		1	8.50	mg/L				
* Silicon, Dissolved	7/17/23 08:56	7/19/23 10:55		1.015	3.97	mg/L	0.02030	0.25375		
* Sodium, Dissolved	7/17/23 08:56	7/19/23 10:55		1.015	1.36	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	7/17/23 12:00	7/17/23 13:59		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	7/17/23 12:00	7/17/23 13:59		1.015	0.0155	mg/L	0.009135	0.05075	J	
* Arsenic, Total	7/17/23 12:00	7/17/23 13:59		1.015	0.00119	mg/L	0.000112	0.000203		
* Barium, Total	7/17/23 12:00	7/17/23 13:59		1.015	0.0271	mg/L	0.000508	0.001015		
* Beryllium, Total	7/17/23 12:00	7/17/23 13:59		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	7/17/23 12:00	7/17/23 13:59		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	7/17/23 12:00	7/17/23 13:59		1.015	0.000371	mg/L	0.000203	0.001015	J	
* Cobalt, Total	7/17/23 12:00	7/17/23 13:59		1.015	0.000144	mg/L	0.000068	0.000203	J	
* Lead, Total	7/17/23 12:00	7/17/23 13:59		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	7/17/23 12:00	7/17/23 13:59		1.015	0.105	mg/L	0.000152	0.001015		

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-8

**Location Code:** WMWGASG  
**Collected:** 7/11/23 08:53  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12787

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/17/23 12:00	7/17/23 13:59		1.015	1.58	mg/L	0.169505	0.5075	
* Selenium, Total	7/17/23 12:00	7/17/23 13:59		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/17/23 12:00	7/17/23 13:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	7/17/23 08:56	7/17/23 10:47		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/17/23 08:56	7/17/23 10:47		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/17/23 08:56	7/17/23 10:47		1.015	0.00105	mg/L	0.000112	0.000203	
* Barium, Dissolved	7/17/23 08:56	7/17/23 10:47		1.015	0.0277	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/17/23 08:56	7/17/23 10:47		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/17/23 08:56	7/17/23 10:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/17/23 08:56	7/17/23 10:47		1.015	0.000307	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	7/17/23 08:56	7/17/23 10:47		1.015	0.000116	mg/L	0.000068	0.000203	J
* Lead, Dissolved	7/17/23 08:56	7/17/23 10:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/17/23 08:56	7/17/23 10:47		1.015	0.0858	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/17/23 08:56	7/17/23 10:47		1.015	1.54	mg/L	0.169505	0.5075	
* Selenium, Dissolved	7/17/23 08:56	7/17/23 10:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/17/23 08:56	7/17/23 10:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	7/18/23 12:52	7/18/23 17:36		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	7/13/23 14:09	7/13/23 14:09		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	7/17/23 10:37	7/17/23 14:47		1	170	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	7/13/23 11:25	7/18/23 14:00		1	182	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	7/17/23 10:37	7/17/23 14:47		1	169	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	7/17/23 10:37	7/17/23 14:47		1	1.18	mg CaCO3/L		0.5	
<b>Analytical Method: SM 4500H+ B</b>		<b>Analyst: DHC</b>							
Alkalinity pH Endpoint	7/17/23 10:37	7/17/23 14:47		1	4.56	SU		2	

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-8

**Location Code:** WMWGASG  
**Collected:** 7/11/23 08:53  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12787

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	7/13/23 18:40	7/13/23 18:40		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	7/13/23 14:03	7/13/23 14:03		1	1.56	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	7/14/23 09:59	7/14/23 09:59		1	0.0857	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: CES</b>							
* Sulfate	7/21/23 10:36	7/21/23 10:36		1	4.37	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	7/11/23 08:49	7/11/23 08:49			320.77	uS/cm			FA
pH	7/11/23 08:49	7/11/23 08:49			7.32	SU			FA
Temperature	7/11/23 08:49	7/11/23 08:49			21.78	C			FA
Turbidity	7/11/23 08:49	7/11/23 08:49			4.69	NTU			FA
Sulfide	7/11/23 08:49	7/11/23 08:49			0	mg/L			FA

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/11/23 08:53  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-8

**Laboratory ID Number:** BD12787

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD12793	Aluminum, Dissolved	mg/L	-0.000164	0.0198	0.100	0.106	0.103	0.104	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD12793	Aluminum, Total	mg/L	0.000890	0.0198	0.100	0.112	0.110	0.114	0.0850 to 0.115	112	70.0 to 130	1.80	20.0
BD12793	Antimony, Dissolved	mg/L	0.000440	0.00100	0.100	0.0941	0.0924	0.0898	0.0850 to 0.115	94.1	70.0 to 130	1.82	20.0
BD12793	Antimony, Total	mg/L	0.000480	0.00100	0.100	0.0944	0.0962	0.0959	0.0850 to 0.115	94.4	70.0 to 130	1.89	20.0
BD12793	Arsenic, Dissolved	mg/L	0.0000143	0.000200	0.100	0.105	0.102	0.102	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BD12793	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.0984	0.0987	0.102	0.0850 to 0.115	98.3	70.0 to 130	0.304	20.0
BD12793	Barium, Dissolved	mg/L	0.0000152	0.00100	0.100	0.149	0.147	0.104	0.0850 to 0.115	107	70.0 to 130	1.35	20.0
BD12793	Barium, Total	mg/L	0.0000323	0.00100	0.100	0.150	0.149	0.105	0.0850 to 0.115	107	70.0 to 130	0.669	20.0
BD12793	Beryllium, Dissolved	mg/L	0.0000110	0.000880	0.100	0.0914	0.0925	0.0984	0.0850 to 0.115	91.4	70.0 to 130	1.20	20.0
BD12793	Beryllium, Total	mg/L	0.0000081	0.000880	0.100	0.0903	0.0861	0.0962	0.0850 to 0.115	90.3	70.0 to 130	4.76	20.0
BD12793	Boron, Dissolved	mg/L	0.000014	0.0650	1.00	1.02	1.04	1.00	0.850 to 1.15	102	70.0 to 130	1.94	20.0
BD12793	Boron, Total	mg/L	-0.000501	0.0650	1.00	1.02	1.03	1.00	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BD12793	Cadmium, Dissolved	mg/L	0.0000047	0.000147	0.100	0.104	0.0984	0.102	0.0850 to 0.115	104	70.0 to 130	5.53	20.0
BD12793	Cadmium, Total	mg/L	0.0000090	0.000147	0.100	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD12793	Calcium, Dissolved	mg/L	0.00449	0.152	5.00	115	122	5.13	4.25 to 5.75	-80.0	70.0 to 130	5.91	20.0
BD12793	Calcium, Total	mg/L	-0.0111	0.152	5.00	104	103	5.08	4.25 to 5.75	-20.0	70.0 to 130	0.966	20.0
BD12792	Chloride	mg/L	-0.0166	1.00	10.0	14.1	14.0	9.89	9.00 to 11.0	103	80.0 to 120	0.712	20.0
BD12793	Chromium, Dissolved	mg/L	-0.0000223	0.000440	0.100	0.106	0.105	0.105	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD12793	Chromium, Total	mg/L	-0.0000974	0.000440	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD12793	Cobalt, Dissolved	mg/L	-0.0000023	0.000147	0.100	0.105	0.103	0.106	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD12793	Cobalt, Total	mg/L	-0.0000015	0.000147	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD12792	Fluoride	mg/L	-0.0135	0.125	2.50	2.56	2.56	2.55	2.25 to 2.75	102	80.0 to 120	0.00	20.0
BD12793	Iron, Dissolved	mg/L	-0.00150	0.0176	0.2	0.198	0.199	0.203	0.170 to 0.230	99.0	70.0 to 130	0.504	20.0
BD12793	Iron, Total	mg/L	-0.00158	0.0176	0.2	0.201	0.204	0.203	0.170 to 0.230	100	70.0 to 130	1.48	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/11/23 08:53  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-8

**Laboratory ID Number:** BD12787

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD12793	Lead, Dissolved	mg/L	0.0000159	0.000147	0.100	0.0985	0.105	0.105	0.0850 to 0.115	98.5	70.0 to 130	6.39	20.0
BD12793	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.105	0.106	0.102	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD12793	Lithium, Dissolved	mg/L	-0.00056	0.0154	0.200	0.202	0.207	0.196	0.170 to 0.230	101	70.0 to 130	2.44	20.0
BD12793	Lithium, Total	mg/L	0.000108	0.0154	0.200	0.204	0.204	0.200	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD12793	Magnesium, Dissolved	mg/L	-0.00231	0.0462	5.00	16.4	16.3	4.94	4.25 to 5.75	98.0	70.0 to 130	0.612	20.0
BD12793	Magnesium, Total	mg/L	0.00970	0.0462	5.00	16.3	16.3	4.97	4.25 to 5.75	96.0	70.0 to 130	0.00	20.0
BD12793	Manganese, Dissolved	mg/L	-0.0000472	0.00033	0.100	0.106	0.104	0.107	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD12793	Manganese, Total	mg/L	-0.0000467	0.00033	0.100	0.104	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD12793	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00398	0.00401	0.00401	0.00340 to 0.00460	99.5	70.0 to 130	0.751	20.0
BD12793	Molybdenum, Dissolved	mg/L	0.00219	0.0100	0.2	0.194	0.199	0.197	0.170 to 0.230	97.0	70.0 to 130	2.54	20.0
BD12793	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.199	0.201	0.198	0.170 to 0.230	99.5	70.0 to 130	1.00	20.0
BD12793	Potassium, Dissolved	mg/L	0.0297	0.367	10.0	12.1	11.9	11.2	8.50 to 11.5	111	70.0 to 130	1.67	20.0
BD12793	Potassium, Total	mg/L	0.0159	0.367	10.0	12.1	11.8	11.2	8.50 to 11.5	112	70.0 to 130	2.51	20.0
BD12793	Selenium, Dissolved	mg/L	0.0000984	0.00100	0.100	0.107	0.107	0.108	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD12793	Selenium, Total	mg/L	0.0000416	0.00100	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD12793	Silicon, Dissolved	mg/L	-0.00168	0.0440	1.00	5.71	5.73	1.03	0.850 to 1.15	102	70.0 to 130	0.350	20.0
BD12793	Silicon, Total	mg/L	0.000428	0.0440	1.00	5.73	5.72	1.03	0.850 to 1.15	100	70.0 to 130	0.175	20.0
BD12793	Sodium, Dissolved	mg/L	0.00156	0.0880	5.00	7.83	7.98	4.94	4.25 to 5.75	100	70.0 to 130	1.90	20.0
BD12793	Sodium, Total	mg/L	0.00381	0.0880	5.00	7.79	7.76	4.96	4.25 to 5.75	99.4	70.0 to 130	0.386	20.0
BD12792	Sulfate	mg/L	0.160	2.0	20.0	30.8	31.1	20.2	18.0 to 22.0	107	80.0 to 120	0.969	20.0
BD12793	Thallium, Dissolved	mg/L	0.0000065	0.000147	0.100	0.102	0.0997	0.100	0.0850 to 0.115	102	70.0 to 130	2.28	20.0
BD12793	Thallium, Total	mg/L	0.0000125	0.000147	0.100	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD12793	Total Organic Carbon	mg/L	0.125	1.00	10.0	8.72	10.1	9.78		87.2	80.0 to 120	14.7	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/11/23 08:53  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-8

**Laboratory ID Number:** BD12787

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD12788	Alkalinity	mg CaCO3/L					145	50.3	45.0 to 55.0			0.687	10.0
BD12793	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.54	0.386	2.03	1.80 to 2.20	108	90.0 to 110	0.774	15.0
BD12787	Solids, Dissolved	mg/L	1.00	25.0			179	52.0	40.0 to 60.0			1.66	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-9

**Location Code:** WMWGASG  
**Collected:** 7/11/23 10:18  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12788

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	7/17/23 12:00	7/18/23 10:37		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	7/17/23 12:00	7/18/23 12:32		10.15	48.1	mg/L	0.70035	4.06		
* Iron, Total	7/17/23 12:00	7/18/23 10:37		1.015	0.0917	mg/L	0.008120	0.0406		
* Lithium, Total	7/17/23 12:00	7/18/23 10:37		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	7/17/23 12:00	7/18/23 10:37		1.015	6.52	mg/L	0.021315	0.406		
* Molybdenum, Total	7/17/23 12:00	7/18/23 10:37		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	7/17/23 12:00	7/18/23 10:37		1	9.52	mg/L				
* Silicon, Total	7/17/23 12:00	7/18/23 10:37		1.015	4.45	mg/L	0.02030	0.25375		
* Sodium, Total	7/17/23 12:00	7/18/23 10:37		1.015	2.80	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	7/17/23 08:56	7/19/23 10:59		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	8/4/23 11:28	8/4/23 12:58		10.15	45.8	mg/L	0.70035	4.06		
* Iron, Dissolved	7/17/23 08:56	7/19/23 10:59		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	7/17/23 08:56	7/19/23 10:59		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	7/17/23 08:56	7/19/23 10:59		1.015	6.63	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	7/17/23 08:56	7/19/23 12:28		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	7/17/23 08:56	7/19/23 10:59		1	9.48	mg/L				
* Silicon, Dissolved	7/17/23 08:56	7/19/23 10:59		1.015	4.43	mg/L	0.02030	0.25375		
* Sodium, Dissolved	7/17/23 08:56	7/19/23 10:59		1.015	2.76	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	7/17/23 12:00	7/17/23 14:03		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	7/17/23 12:00	7/17/23 14:03		1.015	0.0233	mg/L	0.009135	0.05075	J	
* Arsenic, Total	7/17/23 12:00	7/17/23 14:03		1.015	Not Detected	mg/L	0.000112	0.000203	U	
* Barium, Total	7/17/23 12:00	7/17/23 14:03		1.015	0.0241	mg/L	0.000508	0.001015		
* Beryllium, Total	7/17/23 12:00	7/17/23 14:03		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	7/17/23 12:00	7/17/23 14:03		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	7/17/23 12:00	7/17/23 14:03		1.015	0.000207	mg/L	0.000203	0.001015	J	
* Cobalt, Total	7/17/23 12:00	7/17/23 14:03		1.015	0.0000730	mg/L	0.000068	0.000203	J	
* Lead, Total	7/17/23 12:00	7/17/23 14:03		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	7/17/23 12:00	7/17/23 14:03		1.015	0.00982	mg/L	0.000152	0.001015		

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-9

**Location Code:** WMWGASG  
**Collected:** 7/11/23 10:18  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12788

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/17/23 12:00	7/17/23 14:03		1.015	0.792	mg/L	0.169505	0.5075	
* Selenium, Total	7/17/23 12:00	7/17/23 14:03		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/17/23 12:00	7/17/23 14:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	7/17/23 08:56	7/17/23 10:50		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/17/23 08:56	7/17/23 10:50		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/17/23 08:56	7/17/23 10:50		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	7/17/23 08:56	7/17/23 10:50		1.015	0.0230	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/17/23 08:56	7/17/23 10:50		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/17/23 08:56	7/17/23 10:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/17/23 08:56	7/17/23 10:50		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/17/23 08:56	7/17/23 10:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	7/17/23 08:56	7/17/23 10:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/17/23 08:56	7/17/23 10:50		1.015	0.00980	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/17/23 08:56	7/17/23 10:50		1.015	0.820	mg/L	0.169505	0.5075	
* Selenium, Dissolved	7/17/23 08:56	7/17/23 10:50		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/17/23 08:56	7/17/23 10:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	7/18/23 12:52	7/18/23 17:40		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	7/13/23 14:11	7/13/23 14:11		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	7/17/23 10:37	7/17/23 14:47		1	146	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	7/13/23 11:25	7/18/23 14:00		1	162	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	7/17/23 10:37	7/17/23 14:47		1	146	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	7/17/23 10:37	7/17/23 14:47		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 4500H+ B</b>		<b>Analyst: DHC</b>							
Alkalinity pH Endpoint	7/17/23 10:37	7/17/23 14:47		1	4.54	SU		2	

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-9

**Location Code:** WMWGASG  
**Collected:** 7/11/23 10:18  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12788

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	7/13/23 18:57	7/13/23 18:57		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	7/13/23 14:04	7/13/23 14:04		1	1.87	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	7/14/23 10:00	7/14/23 10:00		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: CES</b>							
* Sulfate	7/21/23 10:37	7/21/23 10:37		1	4.18	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	7/11/23 10:14	7/11/23 10:14			276.20	uS/cm			FA
pH	7/11/23 10:14	7/11/23 10:14			6.23	SU			FA
Temperature	7/11/23 10:14	7/11/23 10:14			20.47	C			FA
Turbidity	7/11/23 10:14	7/11/23 10:14			2.7	NTU			FA
Sulfide	7/11/23 10:14	7/11/23 10:14			0	mg/L			FA

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/11/23 10:18  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-9

**Laboratory ID Number:** BD12788

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD12793	Aluminum, Dissolved	mg/L	-0.000164	0.0198	0.100	0.106	0.103	0.104	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD12793	Aluminum, Total	mg/L	0.000890	0.0198	0.100	0.112	0.110	0.114	0.0850 to 0.115	112	70.0 to 130	1.80	20.0
BD12793	Antimony, Dissolved	mg/L	0.000440	0.00100	0.100	0.0941	0.0924	0.0898	0.0850 to 0.115	94.1	70.0 to 130	1.82	20.0
BD12793	Antimony, Total	mg/L	0.000480	0.00100	0.100	0.0944	0.0962	0.0959	0.0850 to 0.115	94.4	70.0 to 130	1.89	20.0
BD12793	Arsenic, Dissolved	mg/L	0.0000143	0.000200	0.100	0.105	0.102	0.102	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BD12793	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.0984	0.0987	0.102	0.0850 to 0.115	98.3	70.0 to 130	0.304	20.0
BD12793	Barium, Dissolved	mg/L	0.0000152	0.00100	0.100	0.149	0.147	0.104	0.0850 to 0.115	107	70.0 to 130	1.35	20.0
BD12793	Barium, Total	mg/L	0.0000323	0.00100	0.100	0.150	0.149	0.105	0.0850 to 0.115	107	70.0 to 130	0.669	20.0
BD12793	Beryllium, Dissolved	mg/L	0.0000110	0.000880	0.100	0.0914	0.0925	0.0984	0.0850 to 0.115	91.4	70.0 to 130	1.20	20.0
BD12793	Beryllium, Total	mg/L	0.0000081	0.000880	0.100	0.0903	0.0861	0.0962	0.0850 to 0.115	90.3	70.0 to 130	4.76	20.0
BD12793	Boron, Dissolved	mg/L	0.000014	0.0650	1.00	1.02	1.04	1.00	0.850 to 1.15	102	70.0 to 130	1.94	20.0
BD12793	Boron, Total	mg/L	-0.000501	0.0650	1.00	1.02	1.03	1.00	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BD12793	Cadmium, Dissolved	mg/L	0.0000047	0.000147	0.100	0.104	0.0984	0.102	0.0850 to 0.115	104	70.0 to 130	5.53	20.0
BD12793	Cadmium, Total	mg/L	0.0000090	0.000147	0.100	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD12792	Calcium, Dissolved	mg/L	0.00335	0.152	5.00	86.8	86.9	4.83	4.25 to 5.75	178	70.0 to 130	0.115	20.0
BD12793	Calcium, Total	mg/L	-0.0111	0.152	5.00	104	103	5.08	4.25 to 5.75	-20.0	70.0 to 130	0.966	20.0
BD12792	Chloride	mg/L	-0.0166	1.00	10.0	14.1	14.0	9.89	9.00 to 11.0	103	80.0 to 120	0.712	20.0
BD12793	Chromium, Dissolved	mg/L	-0.0000223	0.000440	0.100	0.106	0.105	0.105	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD12793	Chromium, Total	mg/L	-0.0000974	0.000440	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD12793	Cobalt, Dissolved	mg/L	-0.0000023	0.000147	0.100	0.105	0.103	0.106	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD12793	Cobalt, Total	mg/L	-0.0000015	0.000147	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD12792	Fluoride	mg/L	-0.0135	0.125	2.50	2.56	2.56	2.55	2.25 to 2.75	102	80.0 to 120	0.00	20.0
BD12793	Iron, Dissolved	mg/L	-0.00150	0.0176	0.2	0.198	0.199	0.203	0.170 to 0.230	99.0	70.0 to 130	0.504	20.0
BD12793	Iron, Total	mg/L	-0.00158	0.0176	0.2	0.201	0.204	0.203	0.170 to 0.230	100	70.0 to 130	1.48	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/11/23 10:18  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-9

**Laboratory ID Number:** BD12788

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD12793	Lead, Dissolved	mg/L	0.0000159	0.000147	0.100	0.0985	0.105	0.105	0.0850 to 0.115	98.5	70.0 to 130	6.39	20.0
BD12793	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.105	0.106	0.102	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD12793	Lithium, Dissolved	mg/L	-0.00056	0.0154	0.200	0.202	0.207	0.196	0.170 to 0.230	101	70.0 to 130	2.44	20.0
BD12793	Lithium, Total	mg/L	0.000108	0.0154	0.200	0.204	0.204	0.200	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD12793	Magnesium, Dissolved	mg/L	-0.00231	0.0462	5.00	16.4	16.3	4.94	4.25 to 5.75	98.0	70.0 to 130	0.612	20.0
BD12793	Magnesium, Total	mg/L	0.00970	0.0462	5.00	16.3	16.3	4.97	4.25 to 5.75	96.0	70.0 to 130	0.00	20.0
BD12793	Manganese, Dissolved	mg/L	-0.0000472	0.00033	0.100	0.106	0.104	0.107	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD12793	Manganese, Total	mg/L	-0.0000467	0.00033	0.100	0.104	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD12793	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00398	0.00401	0.00401	0.00340 to 0.00460	99.5	70.0 to 130	0.751	20.0
BD12793	Molybdenum, Dissolved	mg/L	0.00219	0.0100	0.2	0.194	0.199	0.197	0.170 to 0.230	97.0	70.0 to 130	2.54	20.0
BD12793	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.199	0.201	0.198	0.170 to 0.230	99.5	70.0 to 130	1.00	20.0
BD12793	Potassium, Dissolved	mg/L	0.0297	0.367	10.0	12.1	11.9	11.2	8.50 to 11.5	111	70.0 to 130	1.67	20.0
BD12793	Potassium, Total	mg/L	0.0159	0.367	10.0	12.1	11.8	11.2	8.50 to 11.5	112	70.0 to 130	2.51	20.0
BD12793	Selenium, Dissolved	mg/L	0.0000984	0.00100	0.100	0.107	0.107	0.108	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD12793	Selenium, Total	mg/L	0.0000416	0.00100	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD12793	Silicon, Dissolved	mg/L	-0.00168	0.0440	1.00	5.71	5.73	1.03	0.850 to 1.15	102	70.0 to 130	0.350	20.0
BD12793	Silicon, Total	mg/L	0.000428	0.0440	1.00	5.73	5.72	1.03	0.850 to 1.15	100	70.0 to 130	0.175	20.0
BD12793	Sodium, Dissolved	mg/L	0.00156	0.0880	5.00	7.83	7.98	4.94	4.25 to 5.75	100	70.0 to 130	1.90	20.0
BD12793	Sodium, Total	mg/L	0.00381	0.0880	5.00	7.79	7.76	4.96	4.25 to 5.75	99.4	70.0 to 130	0.386	20.0
BD12792	Sulfate	mg/L	0.160	2.0	20.0	30.8	31.1	20.2	18.0 to 22.0	107	80.0 to 120	0.969	20.0
BD12793	Thallium, Dissolved	mg/L	0.0000065	0.000147	0.100	0.102	0.0997	0.100	0.0850 to 0.115	102	70.0 to 130	2.28	20.0
BD12793	Thallium, Total	mg/L	0.0000125	0.000147	0.100	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD12793	Total Organic Carbon	mg/L	0.125	1.00	10.0	8.72	10.1	9.78		87.2	80.0 to 120	14.7	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



## Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/11/23 10:18  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-9

**Laboratory ID Number:** BD12788

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD12788	Alkalinity	mg CaCO3/L					145	50.3	45.0 to 55.0			0.687	10.0
BD12793	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.54	0.386	2.03	1.80 to 2.20	108	90.0 to 110	0.774	15.0
BD12795	Solids, Dissolved	mg/L	1.00	25.0			288	52.0	40.0 to 60.0			1.04	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-10

**Location Code:** WMWGASG  
**Collected:** 7/11/23 11:09  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12789

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	7/17/23 12:00	7/18/23 10:40		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	7/17/23 12:00	7/18/23 12:35		10.15	103	mg/L	0.70035	4.06		
* Iron, Total	7/17/23 12:00	7/18/23 10:40		1.015	0.0156	mg/L	0.008120	0.0406	J	
* Lithium, Total	7/17/23 12:00	7/18/23 10:40		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	7/17/23 12:00	7/18/23 10:40		1.015	1.84	mg/L	0.021315	0.406		
* Molybdenum, Total	7/17/23 12:00	7/18/23 10:40		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	7/17/23 12:00	7/18/23 10:40		1	9.42	mg/L				
* Silicon, Total	7/17/23 12:00	7/18/23 10:40		1.015	4.40	mg/L	0.02030	0.25375		
* Sodium, Total	7/17/23 12:00	7/18/23 10:40		1.015	2.00	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	7/17/23 08:56	7/19/23 11:02		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	7/17/23 08:56	7/19/23 13:12		10.15	135	mg/L	0.70035	4.06		
* Iron, Dissolved	7/17/23 08:56	7/19/23 11:02		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	7/17/23 08:56	7/19/23 11:02		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	7/17/23 08:56	7/19/23 11:02		1.015	1.81	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	7/17/23 08:56	7/19/23 12:31		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	7/17/23 08:56	7/19/23 11:02		1	9.31	mg/L				
* Silicon, Dissolved	7/17/23 08:56	7/19/23 11:02		1.015	4.35	mg/L	0.02030	0.25375		
* Sodium, Dissolved	7/17/23 08:56	7/19/23 11:02		1.015	1.96	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	7/17/23 12:00	7/17/23 14:06		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Arsenic, Total	7/17/23 12:00	7/17/23 14:06		1.015	Not Detected	mg/L	0.000112	0.000203	U	
* Aluminum, Total	7/17/23 12:00	7/17/23 14:06		1.015	0.0291	mg/L	0.009135	0.05075	J	
* Barium, Total	7/17/23 12:00	7/17/23 14:06		1.015	0.0381	mg/L	0.000508	0.001015		
* Beryllium, Total	7/17/23 12:00	7/17/23 14:06		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	7/17/23 12:00	7/17/23 14:06		1.015	0.0000792	mg/L	0.000068	0.000203	J	
* Chromium, Total	7/17/23 12:00	7/17/23 14:06		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	7/17/23 12:00	7/17/23 14:06		1.015	0.000174	mg/L	0.000068	0.000203	J	
* Lead, Total	7/17/23 12:00	7/17/23 14:06		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	7/17/23 12:00	7/17/23 14:06		1.015	0.0304	mg/L	0.000152	0.001015		

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-10

**Location Code:** WMWGASG  
**Collected:** 7/11/23 11:09  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12789

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/17/23 12:00	7/17/23 14:06		1.015	0.214	mg/L	0.169505	0.5075	J
* Selenium, Total	7/17/23 12:00	7/17/23 14:06		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/17/23 12:00	7/17/23 14:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	7/17/23 08:56	7/17/23 10:54		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/17/23 08:56	7/17/23 10:54		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/17/23 08:56	7/17/23 10:54		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	7/17/23 08:56	7/17/23 10:54		1.015	0.0359	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/17/23 08:56	7/17/23 10:54		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/17/23 08:56	7/17/23 10:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/17/23 08:56	7/17/23 10:54		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/17/23 08:56	7/17/23 10:54		1.015	0.0000687	mg/L	0.000068	0.000203	J
* Lead, Dissolved	7/17/23 08:56	7/17/23 10:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/17/23 08:56	7/17/23 10:54		1.015	0.0249	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/17/23 08:56	7/17/23 10:54		1.015	0.214	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	7/17/23 08:56	7/17/23 10:54		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/17/23 08:56	7/17/23 10:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	7/18/23 12:52	7/18/23 17:44		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	7/13/23 14:13	7/13/23 14:13		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	7/17/23 10:37	7/17/23 14:47		1	247	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	7/13/23 11:25	7/18/23 14:00		1	268	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	7/17/23 10:37	7/17/23 14:47		1	246	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	7/17/23 10:37	7/17/23 14:47		1	0.699	mg CaCO3/L		0.5	
<b>Analytical Method: SM 4500H+ B</b>		<b>Analyst: DHC</b>							
Alkalinity pH Endpoint	7/17/23 10:37	7/17/23 14:47		1	4.53	SU		2	

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-10

**Location Code:** WMWGASG  
**Collected:** 7/11/23 11:09  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12789

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	7/13/23 19:13	7/13/23 19:13		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	7/13/23 14:05	7/13/23 14:05		1	2.82	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	7/14/23 10:01	7/14/23 10:01		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: CES</b>							
* Sulfate	7/21/23 10:38	7/21/23 10:38		1	1.85	mg/L	0.6	2	J
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	7/11/23 11:05	7/11/23 11:05			461.59	uS/cm			FA
pH	7/11/23 11:05	7/11/23 11:05			6.89	SU			FA
Temperature	7/11/23 11:05	7/11/23 11:05			21.59	C			FA
Turbidity	7/11/23 11:05	7/11/23 11:05			3.78	NTU			FA
Sulfide	7/11/23 11:05	7/11/23 11:05			0	mg/L			FA

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/11/23 11:09  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-10

**Laboratory ID Number:** BD12789

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD12793	Aluminum, Dissolved	mg/L	-0.000164	0.0198	0.100	0.106	0.103	0.104	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD12793	Aluminum, Total	mg/L	0.000890	0.0198	0.100	0.112	0.110	0.114	0.0850 to 0.115	112	70.0 to 130	1.80	20.0
BD12793	Antimony, Dissolved	mg/L	0.000440	0.00100	0.100	0.0941	0.0924	0.0898	0.0850 to 0.115	94.1	70.0 to 130	1.82	20.0
BD12793	Antimony, Total	mg/L	0.000480	0.00100	0.100	0.0944	0.0962	0.0959	0.0850 to 0.115	94.4	70.0 to 130	1.89	20.0
BD12793	Arsenic, Dissolved	mg/L	0.0000143	0.000200	0.100	0.105	0.102	0.102	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BD12793	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.0984	0.0987	0.102	0.0850 to 0.115	98.3	70.0 to 130	0.304	20.0
BD12793	Barium, Dissolved	mg/L	0.0000152	0.00100	0.100	0.149	0.147	0.104	0.0850 to 0.115	107	70.0 to 130	1.35	20.0
BD12793	Barium, Total	mg/L	0.0000323	0.00100	0.100	0.150	0.149	0.105	0.0850 to 0.115	107	70.0 to 130	0.669	20.0
BD12793	Beryllium, Dissolved	mg/L	0.0000110	0.000880	0.100	0.0914	0.0925	0.0984	0.0850 to 0.115	91.4	70.0 to 130	1.20	20.0
BD12793	Beryllium, Total	mg/L	0.0000081	0.000880	0.100	0.0903	0.0861	0.0962	0.0850 to 0.115	90.3	70.0 to 130	4.76	20.0
BD12793	Boron, Dissolved	mg/L	0.000014	0.0650	1.00	1.02	1.04	1.00	0.850 to 1.15	102	70.0 to 130	1.94	20.0
BD12793	Boron, Total	mg/L	-0.000501	0.0650	1.00	1.02	1.03	1.00	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BD12793	Cadmium, Dissolved	mg/L	0.0000047	0.000147	0.100	0.104	0.0984	0.102	0.0850 to 0.115	104	70.0 to 130	5.53	20.0
BD12793	Cadmium, Total	mg/L	0.0000090	0.000147	0.100	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD12793	Calcium, Dissolved	mg/L	0.00449	0.152	5.00	115	122	5.13	4.25 to 5.75	-80.0	70.0 to 130	5.91	20.0
BD12793	Calcium, Total	mg/L	-0.0111	0.152	5.00	104	103	5.08	4.25 to 5.75	-20.0	70.0 to 130	0.966	20.0
BD12792	Chloride	mg/L	-0.0166	1.00	10.0	14.1	14.0	9.89	9.00 to 11.0	103	80.0 to 120	0.712	20.0
BD12793	Chromium, Dissolved	mg/L	-0.0000223	0.000440	0.100	0.106	0.105	0.105	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD12793	Chromium, Total	mg/L	-0.0000974	0.000440	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD12793	Cobalt, Dissolved	mg/L	-0.0000023	0.000147	0.100	0.105	0.103	0.106	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD12793	Cobalt, Total	mg/L	-0.0000015	0.000147	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD12792	Fluoride	mg/L	-0.0135	0.125	2.50	2.56	2.56	2.55	2.25 to 2.75	102	80.0 to 120	0.00	20.0
BD12793	Iron, Dissolved	mg/L	-0.00150	0.0176	0.2	0.198	0.199	0.203	0.170 to 0.230	99.0	70.0 to 130	0.504	20.0
BD12793	Iron, Total	mg/L	-0.00158	0.0176	0.2	0.201	0.204	0.203	0.170 to 0.230	100	70.0 to 130	1.48	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/11/23 11:09  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-10

**Laboratory ID Number:** BD12789

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD12793	Lead, Dissolved	mg/L	0.0000159	0.000147	0.100	0.0985	0.105	0.105	0.0850 to 0.115	98.5	70.0 to 130	6.39	20.0
BD12793	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.105	0.106	0.102	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD12793	Lithium, Dissolved	mg/L	-0.00056	0.0154	0.200	0.202	0.207	0.196	0.170 to 0.230	101	70.0 to 130	2.44	20.0
BD12793	Lithium, Total	mg/L	0.000108	0.0154	0.200	0.204	0.204	0.200	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD12793	Magnesium, Dissolved	mg/L	-0.00231	0.0462	5.00	16.4	16.3	4.94	4.25 to 5.75	98.0	70.0 to 130	0.612	20.0
BD12793	Magnesium, Total	mg/L	0.00970	0.0462	5.00	16.3	16.3	4.97	4.25 to 5.75	96.0	70.0 to 130	0.00	20.0
BD12793	Manganese, Dissolved	mg/L	-0.0000472	0.00033	0.100	0.106	0.104	0.107	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD12793	Manganese, Total	mg/L	-0.0000467	0.00033	0.100	0.104	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD12793	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00398	0.00401	0.00401	0.00340 to 0.00460	99.5	70.0 to 130	0.751	20.0
BD12793	Molybdenum, Dissolved	mg/L	0.00219	0.0100	0.2	0.194	0.199	0.197	0.170 to 0.230	97.0	70.0 to 130	2.54	20.0
BD12793	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.199	0.201	0.198	0.170 to 0.230	99.5	70.0 to 130	1.00	20.0
BD12793	Potassium, Dissolved	mg/L	0.0297	0.367	10.0	12.1	11.9	11.2	8.50 to 11.5	111	70.0 to 130	1.67	20.0
BD12793	Potassium, Total	mg/L	0.0159	0.367	10.0	12.1	11.8	11.2	8.50 to 11.5	112	70.0 to 130	2.51	20.0
BD12793	Selenium, Dissolved	mg/L	0.0000984	0.00100	0.100	0.107	0.107	0.108	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD12793	Selenium, Total	mg/L	0.0000416	0.00100	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD12793	Silicon, Dissolved	mg/L	-0.00168	0.0440	1.00	5.71	5.73	1.03	0.850 to 1.15	102	70.0 to 130	0.350	20.0
BD12793	Silicon, Total	mg/L	0.000428	0.0440	1.00	5.73	5.72	1.03	0.850 to 1.15	100	70.0 to 130	0.175	20.0
BD12793	Sodium, Dissolved	mg/L	0.00156	0.0880	5.00	7.83	7.98	4.94	4.25 to 5.75	100	70.0 to 130	1.90	20.0
BD12793	Sodium, Total	mg/L	0.00381	0.0880	5.00	7.79	7.76	4.96	4.25 to 5.75	99.4	70.0 to 130	0.386	20.0
BD12792	Sulfate	mg/L	0.160	2.0	20.0	30.8	31.1	20.2	18.0 to 22.0	107	80.0 to 120	0.969	20.0
BD12793	Thallium, Dissolved	mg/L	0.0000065	0.000147	0.100	0.102	0.0997	0.100	0.0850 to 0.115	102	70.0 to 130	2.28	20.0
BD12793	Thallium, Total	mg/L	0.0000125	0.000147	0.100	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD12793	Total Organic Carbon	mg/L	0.125	1.00	10.0	8.72	10.1	9.78		87.2	80.0 to 120	14.7	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/11/23 11:09  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-10

**Laboratory ID Number:** BD12789

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BD12788	Alkalinity	mg CaCO3/L					145	50.3	45.0 to 55.0			0.687	10.0
BD12793	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.54	0.386	2.03	1.80 to 2.20	108	90.0 to 110	0.774	15.0
BD12795	Solids, Dissolved	mg/L	1.00	25.0			288	52.0	40.0 to 60.0			1.04	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-10 Dup

**Location Code:** WMWGASG  
**Collected:** 7/11/23 11:09  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12790

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	7/17/23 12:00	7/18/23 10:43		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	7/17/23 12:00	7/19/23 11:55		10.15	112	mg/L	0.70035	4.06		
* Iron, Total	7/17/23 12:00	7/18/23 10:43		1.015	0.0172	mg/L	0.008120	0.0406	J	
* Lithium, Total	7/17/23 12:00	7/18/23 10:43		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	7/17/23 12:00	7/18/23 10:43		1.015	1.81	mg/L	0.021315	0.406		
* Molybdenum, Total	7/17/23 12:00	7/18/23 10:43		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	7/17/23 12:00	7/18/23 10:43		1	9.44	mg/L				
* Silicon, Total	7/17/23 12:00	7/18/23 10:43		1.015	4.41	mg/L	0.02030	0.25375		
* Sodium, Total	7/17/23 12:00	7/18/23 10:43		1.015	1.96	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	7/17/23 08:56	7/19/23 11:05		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	7/17/23 08:56	7/19/23 13:15		10.15	127	mg/L	0.70035	4.06		
* Iron, Dissolved	7/17/23 08:56	7/19/23 11:05		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	7/17/23 08:56	7/19/23 11:05		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	7/17/23 08:56	7/19/23 11:05		1.015	1.78	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	7/17/23 08:56	7/19/23 12:34		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	7/17/23 08:56	7/19/23 11:05		1	9.31	mg/L				
* Silicon, Dissolved	7/17/23 08:56	7/19/23 11:05		1.015	4.35	mg/L	0.02030	0.25375		
* Sodium, Dissolved	7/17/23 08:56	7/19/23 11:05		1.015	1.96	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	7/17/23 12:00	7/17/23 14:10		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Arsenic, Total	7/17/23 12:00	7/17/23 14:10		1.015	Not Detected	mg/L	0.000112	0.000203	U	
* Aluminum, Total	7/17/23 12:00	7/17/23 14:10		1.015	0.0356	mg/L	0.009135	0.05075	J	
* Barium, Total	7/17/23 12:00	7/17/23 14:10		1.015	0.0369	mg/L	0.000508	0.001015		
* Beryllium, Total	7/17/23 12:00	7/17/23 14:10		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	7/17/23 12:00	7/17/23 14:10		1.015	0.0000732	mg/L	0.000068	0.000203	J	
* Chromium, Total	7/17/23 12:00	7/17/23 14:10		1.015	0.000220	mg/L	0.000203	0.001015	J	
* Cobalt, Total	7/17/23 12:00	7/17/23 14:10		1.015	0.000190	mg/L	0.000068	0.000203	J	
* Lead, Total	7/17/23 12:00	7/17/23 14:10		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	7/17/23 12:00	7/17/23 14:10		1.015	0.0311	mg/L	0.000152	0.001015		

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-10 Dup

**Location Code:** WMWGASG  
**Collected:** 7/11/23 11:09  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12790

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/17/23 12:00	7/17/23 14:10		1.015	0.207	mg/L	0.169505	0.5075	J
* Selenium, Total	7/17/23 12:00	7/17/23 14:10		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/17/23 12:00	7/17/23 14:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	7/17/23 08:56	7/17/23 10:57		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/17/23 08:56	7/17/23 10:57		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/17/23 08:56	7/17/23 10:57		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	7/17/23 08:56	7/17/23 10:57		1.015	0.0358	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/17/23 08:56	7/17/23 10:57		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/17/23 08:56	7/17/23 10:57		1.015	0.0000892	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	7/17/23 08:56	7/17/23 10:57		1.015	0.000204	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	7/17/23 08:56	7/17/23 10:57		1.015	0.0000739	mg/L	0.000068	0.000203	J
* Lead, Dissolved	7/17/23 08:56	7/17/23 10:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/17/23 08:56	7/17/23 10:57		1.015	0.0254	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/17/23 08:56	7/17/23 10:57		1.015	0.210	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	7/17/23 08:56	7/17/23 10:57		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/17/23 08:56	7/17/23 10:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	7/18/23 12:52	7/18/23 17:48		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	7/13/23 14:14	7/13/23 14:14		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	7/17/23 10:37	7/17/23 14:47		1	247	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	7/13/23 11:25	7/18/23 14:00		1	269	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	7/17/23 10:37	7/17/23 14:47		1	246	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	7/17/23 10:37	7/17/23 14:47		1	0.699	mg CaCO3/L		0.5	
<b>Analytical Method: SM 4500H+ B</b>		<b>Analyst: DHC</b>							
Alkalinity pH Endpoint	7/17/23 10:37	7/17/23 14:47		1	4.50	SU		2	

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-10 Dup

**Location Code:** WMWGASG  
**Collected:** 7/11/23 11:09  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12790

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	7/13/23 19:28	7/13/23 19:28		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	7/13/23 14:06	7/13/23 14:06		1	2.90	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	7/14/23 10:02	7/14/23 10:02		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: CES</b>							
* Sulfate	7/21/23 10:39	7/21/23 10:39		1	1.88	mg/L	0.6	2	J
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	7/11/23 11:05	7/11/23 11:05			461.59	uS/cm			FA
pH	7/11/23 11:05	7/11/23 11:05			6.89	SU			FA
Temperature	7/11/23 11:05	7/11/23 11:05			21.59	C			FA
Turbidity	7/11/23 11:05	7/11/23 11:05			3.78	NTU			FA
Sulfide	7/11/23 11:05	7/11/23 11:05			0	mg/L			FA

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/11/23 11:09  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-10 Dup

**Laboratory ID Number:** BD12790

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD12793	Aluminum, Dissolved	mg/L	-0.000164	0.0198	0.100	0.106	0.103	0.104	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD12793	Aluminum, Total	mg/L	0.000890	0.0198	0.100	0.112	0.110	0.114	0.0850 to 0.115	112	70.0 to 130	1.80	20.0
BD12793	Antimony, Dissolved	mg/L	0.000440	0.00100	0.100	0.0941	0.0924	0.0898	0.0850 to 0.115	94.1	70.0 to 130	1.82	20.0
BD12793	Antimony, Total	mg/L	0.000480	0.00100	0.100	0.0944	0.0962	0.0959	0.0850 to 0.115	94.4	70.0 to 130	1.89	20.0
BD12793	Arsenic, Dissolved	mg/L	0.0000143	0.000200	0.100	0.105	0.102	0.102	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BD12793	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.0984	0.0987	0.102	0.0850 to 0.115	98.3	70.0 to 130	0.304	20.0
BD12793	Barium, Dissolved	mg/L	0.0000152	0.00100	0.100	0.149	0.147	0.104	0.0850 to 0.115	107	70.0 to 130	1.35	20.0
BD12793	Barium, Total	mg/L	0.0000323	0.00100	0.100	0.150	0.149	0.105	0.0850 to 0.115	107	70.0 to 130	0.669	20.0
BD12793	Beryllium, Dissolved	mg/L	0.0000110	0.000880	0.100	0.0914	0.0925	0.0984	0.0850 to 0.115	91.4	70.0 to 130	1.20	20.0
BD12793	Beryllium, Total	mg/L	0.0000081	0.000880	0.100	0.0903	0.0861	0.0962	0.0850 to 0.115	90.3	70.0 to 130	4.76	20.0
BD12793	Boron, Dissolved	mg/L	0.000014	0.0650	1.00	1.02	1.04	1.00	0.850 to 1.15	102	70.0 to 130	1.94	20.0
BD12793	Boron, Total	mg/L	-0.000501	0.0650	1.00	1.02	1.03	1.00	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BD12793	Cadmium, Dissolved	mg/L	0.0000047	0.000147	0.100	0.104	0.0984	0.102	0.0850 to 0.115	104	70.0 to 130	5.53	20.0
BD12793	Cadmium, Total	mg/L	0.0000090	0.000147	0.100	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD12793	Calcium, Dissolved	mg/L	0.00449	0.152	5.00	115	122	5.13	4.25 to 5.75	-80.0	70.0 to 130	5.91	20.0
BD12793	Calcium, Total	mg/L	-0.0111	0.152	5.00	104	103	5.08	4.25 to 5.75	-20.0	70.0 to 130	0.966	20.0
BD12792	Chloride	mg/L	-0.0166	1.00	10.0	14.1	14.0	9.89	9.00 to 11.0	103	80.0 to 120	0.712	20.0
BD12793	Chromium, Dissolved	mg/L	-0.0000223	0.000440	0.100	0.106	0.105	0.105	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD12793	Chromium, Total	mg/L	-0.0000974	0.000440	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD12793	Cobalt, Dissolved	mg/L	-0.0000023	0.000147	0.100	0.105	0.103	0.106	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD12793	Cobalt, Total	mg/L	-0.0000015	0.000147	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD12792	Fluoride	mg/L	-0.0135	0.125	2.50	2.56	2.56	2.55	2.25 to 2.75	102	80.0 to 120	0.00	20.0
BD12793	Iron, Dissolved	mg/L	-0.00150	0.0176	0.2	0.198	0.199	0.203	0.170 to 0.230	99.0	70.0 to 130	0.504	20.0
BD12793	Iron, Total	mg/L	-0.00158	0.0176	0.2	0.201	0.204	0.203	0.170 to 0.230	100	70.0 to 130	1.48	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/11/23 11:09  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-10 Dup

**Laboratory ID Number:** BD12790

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD12793	Lead, Dissolved	mg/L	0.0000159	0.000147	0.100	0.0985	0.105	0.105	0.0850 to 0.115	98.5	70.0 to 130	6.39	20.0
BD12793	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.105	0.106	0.102	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD12793	Lithium, Dissolved	mg/L	-0.00056	0.0154	0.200	0.202	0.207	0.196	0.170 to 0.230	101	70.0 to 130	2.44	20.0
BD12793	Lithium, Total	mg/L	0.000108	0.0154	0.200	0.204	0.204	0.200	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD12793	Magnesium, Dissolved	mg/L	-0.00231	0.0462	5.00	16.4	16.3	4.94	4.25 to 5.75	98.0	70.0 to 130	0.612	20.0
BD12793	Magnesium, Total	mg/L	0.00970	0.0462	5.00	16.3	16.3	4.97	4.25 to 5.75	96.0	70.0 to 130	0.00	20.0
BD12793	Manganese, Dissolved	mg/L	-0.0000472	0.00033	0.100	0.106	0.104	0.107	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD12793	Manganese, Total	mg/L	-0.0000467	0.00033	0.100	0.104	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD12793	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00398	0.00401	0.00401	0.00340 to 0.00460	99.5	70.0 to 130	0.751	20.0
BD12793	Molybdenum, Dissolved	mg/L	0.00219	0.0100	0.2	0.194	0.199	0.197	0.170 to 0.230	97.0	70.0 to 130	2.54	20.0
BD12793	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.199	0.201	0.198	0.170 to 0.230	99.5	70.0 to 130	1.00	20.0
BD12793	Potassium, Dissolved	mg/L	0.0297	0.367	10.0	12.1	11.9	11.2	8.50 to 11.5	111	70.0 to 130	1.67	20.0
BD12793	Potassium, Total	mg/L	0.0159	0.367	10.0	12.1	11.8	11.2	8.50 to 11.5	112	70.0 to 130	2.51	20.0
BD12793	Selenium, Dissolved	mg/L	0.0000984	0.00100	0.100	0.107	0.107	0.108	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD12793	Selenium, Total	mg/L	0.0000416	0.00100	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD12793	Silicon, Dissolved	mg/L	-0.00168	0.0440	1.00	5.71	5.73	1.03	0.850 to 1.15	102	70.0 to 130	0.350	20.0
BD12793	Silicon, Total	mg/L	0.000428	0.0440	1.00	5.73	5.72	1.03	0.850 to 1.15	100	70.0 to 130	0.175	20.0
BD12793	Sodium, Dissolved	mg/L	0.00156	0.0880	5.00	7.83	7.98	4.94	4.25 to 5.75	100	70.0 to 130	1.90	20.0
BD12793	Sodium, Total	mg/L	0.00381	0.0880	5.00	7.79	7.76	4.96	4.25 to 5.75	99.4	70.0 to 130	0.386	20.0
BD12792	Sulfate	mg/L	0.160	2.0	20.0	30.8	31.1	20.2	18.0 to 22.0	107	80.0 to 120	0.969	20.0
BD12793	Thallium, Dissolved	mg/L	0.0000065	0.000147	0.100	0.102	0.0997	0.100	0.0850 to 0.115	102	70.0 to 130	2.28	20.0
BD12793	Thallium, Total	mg/L	0.0000125	0.000147	0.100	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD12793	Total Organic Carbon	mg/L	0.125	1.00	10.0	8.72	10.1	9.78		87.2	80.0 to 120	14.7	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/11/23 11:09  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-10 Dup

**Laboratory ID Number:** BD12790

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD12788	Alkalinity	mg CaCO3/L					145	50.3	45.0 to 55.0			0.687	10.0
BD12793	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.54	0.386	2.03	1.80 to 2.20	108	90.0 to 110	0.774	15.0
BD12795	Solids, Dissolved	mg/L	1.00	25.0			288	52.0	40.0 to 60.0			1.04	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-11

**Location Code:** WMWGASG  
**Collected:** 7/11/23 12:15  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12791

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	7/17/23 12:00	7/18/23 10:47		1.015	0.0659	mg/L	0.030000	0.1015	J
* Calcium, Total	7/17/23 12:00	7/18/23 10:47		1.015	14.7	mg/L	0.070035	0.406	
* Iron, Total	7/17/23 12:00	7/18/23 10:47		1.015	0.0237	mg/L	0.008120	0.0406	J
* Lithium, Total	7/17/23 12:00	7/18/23 10:47		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	7/17/23 12:00	7/18/23 10:47		1.015	2.66	mg/L	0.021315	0.406	
* Molybdenum, Total	7/17/23 12:00	7/18/23 10:47		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	7/17/23 12:00	7/18/23 10:47		1	7.45	mg/L			
* Silicon, Total	7/17/23 12:00	7/18/23 10:47		1.015	3.48	mg/L	0.02030	0.25375	
* Sodium, Total	7/17/23 12:00	7/18/23 10:47		1.015	6.18	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>							
* Boron, Dissolved	7/17/23 08:56	7/19/23 11:08		1.015	0.0674	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	7/17/23 08:56	7/19/23 11:08		1.015	14.9	mg/L	0.070035	0.406	
* Iron, Dissolved	7/17/23 08:56	7/19/23 11:08		1.015	0.0244	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	7/17/23 08:56	7/19/23 11:08		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	7/17/23 08:56	7/19/23 11:08		1.015	2.65	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/17/23 08:56	7/19/23 12:37		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	7/17/23 08:56	7/19/23 11:08		1	7.38	mg/L			
* Silicon, Dissolved	7/17/23 08:56	7/19/23 11:08		1.015	3.45	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/17/23 08:56	7/19/23 11:08		1.015	6.11	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	7/17/23 12:00	7/17/23 14:13		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	7/17/23 12:00	7/17/23 14:13		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Aluminum, Total	7/17/23 12:00	7/17/23 14:13		1.015	0.0156	mg/L	0.009135	0.05075	J
* Barium, Total	7/17/23 12:00	7/17/23 14:13		1.015	0.0152	mg/L	0.000508	0.001015	
* Beryllium, Total	7/17/23 12:00	7/17/23 14:13		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/17/23 12:00	7/17/23 14:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/17/23 12:00	7/17/23 14:13		1.015	0.000239	mg/L	0.000203	0.001015	J
* Cobalt, Total	7/17/23 12:00	7/17/23 14:13		1.015	0.00288	mg/L	0.000068	0.000203	
* Lead, Total	7/17/23 12:00	7/17/23 14:13		1.015	0.000108	mg/L	0.000068	0.000203	J
* Manganese, Total	7/17/23 12:00	7/17/23 14:13		1.015	0.190	mg/L	0.000152	0.001015	

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-11

**Location Code:** WMWGASG  
**Collected:** 7/11/23 12:15  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12791

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/17/23 12:00	7/17/23 14:13		1.015	0.315	mg/L	0.169505	0.5075	J
* Selenium, Total	7/17/23 12:00	7/17/23 14:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/17/23 12:00	7/17/23 14:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	7/17/23 08:56	7/17/23 11:01		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/17/23 08:56	7/17/23 11:01		1.015	0.0101	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	7/17/23 08:56	7/17/23 11:01		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	7/17/23 08:56	7/17/23 11:01		1.015	0.0157	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/17/23 08:56	7/17/23 11:01		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/17/23 08:56	7/17/23 11:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/17/23 08:56	7/17/23 11:01		1.015	0.000243	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	7/17/23 08:56	7/17/23 11:01		1.015	0.00302	mg/L	0.000068	0.000203	
* Lead, Dissolved	7/17/23 08:56	7/17/23 11:01		1.015	0.000120	mg/L	0.000068	0.000203	J
* Manganese, Dissolved	7/17/23 08:56	7/17/23 11:01		1.015	0.200	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/17/23 08:56	7/17/23 11:01		1.015	0.316	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	7/17/23 08:56	7/17/23 11:01		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/17/23 08:56	7/17/23 11:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	7/18/23 12:52	7/18/23 17:52		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	7/13/23 14:16	7/13/23 14:16		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	7/17/23 10:37	7/17/23 14:47		1	31.6	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	7/13/23 11:25	7/18/23 14:00		1	90.7	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	7/17/23 10:37	7/17/23 14:47		1	31.6	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	7/17/23 10:37	7/17/23 14:47		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 4500H+ B</b>		<b>Analyst: DHC</b>							
Alkalinity pH Endpoint	7/17/23 10:37	7/17/23 14:47		1	4.46	SU		2	

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-11

**Location Code:** WMWGASG  
**Collected:** 7/11/23 12:15  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12791

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	7/13/23 19:42	7/13/23 19:42		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	7/13/23 14:12	7/13/23 14:12		2	21.4	mg/L	1.00	2	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	7/14/23 10:04	7/14/23 10:04		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: CES</b>							
* Sulfate	7/21/23 10:41	7/21/23 10:41		1	1.97	mg/L	0.6	2	J
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	7/11/23 12:12	7/11/23 12:12			139.68	uS/cm			FA
pH	7/11/23 12:12	7/11/23 12:12			5.33	SU			FA
Temperature	7/11/23 12:12	7/11/23 12:12			21.53	C			FA
Turbidity	7/11/23 12:12	7/11/23 12:12			2.03	NTU			FA
Sulfide	7/11/23 12:12	7/11/23 12:12			0	mg/L			FA

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/11/23 12:15  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-11

**Laboratory ID Number:** BD12791

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD12793	Aluminum, Dissolved	mg/L	-0.000164	0.0198	0.100	0.106	0.103	0.104	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD12793	Aluminum, Total	mg/L	0.000890	0.0198	0.100	0.112	0.110	0.114	0.0850 to 0.115	112	70.0 to 130	1.80	20.0
BD12793	Antimony, Dissolved	mg/L	0.000440	0.00100	0.100	0.0941	0.0924	0.0898	0.0850 to 0.115	94.1	70.0 to 130	1.82	20.0
BD12793	Antimony, Total	mg/L	0.000480	0.00100	0.100	0.0944	0.0962	0.0959	0.0850 to 0.115	94.4	70.0 to 130	1.89	20.0
BD12793	Arsenic, Dissolved	mg/L	0.0000143	0.000200	0.100	0.105	0.102	0.102	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BD12793	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.0984	0.0987	0.102	0.0850 to 0.115	98.3	70.0 to 130	0.304	20.0
BD12793	Barium, Dissolved	mg/L	0.0000152	0.00100	0.100	0.149	0.147	0.104	0.0850 to 0.115	107	70.0 to 130	1.35	20.0
BD12793	Barium, Total	mg/L	0.0000323	0.00100	0.100	0.150	0.149	0.105	0.0850 to 0.115	107	70.0 to 130	0.669	20.0
BD12793	Beryllium, Dissolved	mg/L	0.0000110	0.000880	0.100	0.0914	0.0925	0.0984	0.0850 to 0.115	91.4	70.0 to 130	1.20	20.0
BD12793	Beryllium, Total	mg/L	0.0000081	0.000880	0.100	0.0903	0.0861	0.0962	0.0850 to 0.115	90.3	70.0 to 130	4.76	20.0
BD12793	Boron, Dissolved	mg/L	0.000014	0.0650	1.00	1.02	1.04	1.00	0.850 to 1.15	102	70.0 to 130	1.94	20.0
BD12793	Boron, Total	mg/L	-0.000501	0.0650	1.00	1.02	1.03	1.00	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BD12793	Cadmium, Dissolved	mg/L	0.0000047	0.000147	0.100	0.104	0.0984	0.102	0.0850 to 0.115	104	70.0 to 130	5.53	20.0
BD12793	Cadmium, Total	mg/L	0.0000090	0.000147	0.100	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD12793	Calcium, Dissolved	mg/L	0.00449	0.152	5.00	115	122	5.13	4.25 to 5.75	-80.0	70.0 to 130	5.91	20.0
BD12793	Calcium, Total	mg/L	-0.0111	0.152	5.00	104	103	5.08	4.25 to 5.75	-20.0	70.0 to 130	0.966	20.0
BD12792	Chloride	mg/L	-0.0166	1.00	10.0	14.1	14.0	9.89	9.00 to 11.0	103	80.0 to 120	0.712	20.0
BD12793	Chromium, Dissolved	mg/L	-0.0000223	0.000440	0.100	0.106	0.105	0.105	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD12793	Chromium, Total	mg/L	-0.0000974	0.000440	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD12793	Cobalt, Dissolved	mg/L	-0.0000023	0.000147	0.100	0.105	0.103	0.106	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD12793	Cobalt, Total	mg/L	-0.0000015	0.000147	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD12792	Fluoride	mg/L	-0.0135	0.125	2.50	2.56	2.56	2.55	2.25 to 2.75	102	80.0 to 120	0.00	20.0
BD12793	Iron, Dissolved	mg/L	-0.00150	0.0176	0.2	0.198	0.199	0.203	0.170 to 0.230	99.0	70.0 to 130	0.504	20.0
BD12793	Iron, Total	mg/L	-0.00158	0.0176	0.2	0.201	0.204	0.203	0.170 to 0.230	100	70.0 to 130	1.48	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/11/23 12:15  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-11

**Laboratory ID Number:** BD12791

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD12793	Lead, Dissolved	mg/L	0.0000159	0.000147	0.100	0.0985	0.105	0.105	0.0850 to 0.115	98.5	70.0 to 130	6.39	20.0
BD12793	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.105	0.106	0.102	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD12793	Lithium, Dissolved	mg/L	-0.00056	0.0154	0.200	0.202	0.207	0.196	0.170 to 0.230	101	70.0 to 130	2.44	20.0
BD12793	Lithium, Total	mg/L	0.000108	0.0154	0.200	0.204	0.204	0.200	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD12793	Magnesium, Dissolved	mg/L	-0.00231	0.0462	5.00	16.4	16.3	4.94	4.25 to 5.75	98.0	70.0 to 130	0.612	20.0
BD12793	Magnesium, Total	mg/L	0.00970	0.0462	5.00	16.3	16.3	4.97	4.25 to 5.75	96.0	70.0 to 130	0.00	20.0
BD12793	Manganese, Dissolved	mg/L	-0.0000472	0.00033	0.100	0.106	0.104	0.107	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD12793	Manganese, Total	mg/L	-0.0000467	0.00033	0.100	0.104	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD12793	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00398	0.00401	0.00401	0.00340 to 0.00460	99.5	70.0 to 130	0.751	20.0
BD12793	Molybdenum, Dissolved	mg/L	0.00219	0.0100	0.2	0.194	0.199	0.197	0.170 to 0.230	97.0	70.0 to 130	2.54	20.0
BD12793	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.199	0.201	0.198	0.170 to 0.230	99.5	70.0 to 130	1.00	20.0
BD12793	Potassium, Dissolved	mg/L	0.0297	0.367	10.0	12.1	11.9	11.2	8.50 to 11.5	111	70.0 to 130	1.67	20.0
BD12793	Potassium, Total	mg/L	0.0159	0.367	10.0	12.1	11.8	11.2	8.50 to 11.5	112	70.0 to 130	2.51	20.0
BD12793	Selenium, Dissolved	mg/L	0.0000984	0.00100	0.100	0.107	0.107	0.108	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD12793	Selenium, Total	mg/L	0.0000416	0.00100	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD12793	Silicon, Dissolved	mg/L	-0.00168	0.0440	1.00	5.71	5.73	1.03	0.850 to 1.15	102	70.0 to 130	0.350	20.0
BD12793	Silicon, Total	mg/L	0.000428	0.0440	1.00	5.73	5.72	1.03	0.850 to 1.15	100	70.0 to 130	0.175	20.0
BD12793	Sodium, Dissolved	mg/L	0.00156	0.0880	5.00	7.83	7.98	4.94	4.25 to 5.75	100	70.0 to 130	1.90	20.0
BD12793	Sodium, Total	mg/L	0.00381	0.0880	5.00	7.79	7.76	4.96	4.25 to 5.75	99.4	70.0 to 130	0.386	20.0
BD12792	Sulfate	mg/L	0.160	2.0	20.0	30.8	31.1	20.2	18.0 to 22.0	107	80.0 to 120	0.969	20.0
BD12793	Thallium, Dissolved	mg/L	0.0000065	0.000147	0.100	0.102	0.0997	0.100	0.0850 to 0.115	102	70.0 to 130	2.28	20.0
BD12793	Thallium, Total	mg/L	0.0000125	0.000147	0.100	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD12793	Total Organic Carbon	mg/L	0.125	1.00	10.0	8.72	10.1	9.78		87.2	80.0 to 120	14.7	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/11/23 12:15  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-11

**Laboratory ID Number:** BD12791

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD12788	Alkalinity	mg CaCO3/L					145	50.3	45.0 to 55.0			0.687	10.0
BD12793	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.54	0.386	2.03	1.80 to 2.20	108	90.0 to 110	0.774	15.0
BD12795	Solids, Dissolved	mg/L	1.00	25.0			288	52.0	40.0 to 60.0			1.04	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-12

**Location Code:** WMWGASG  
**Collected:** 7/11/23 13:10  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12792

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	7/17/23 12:00	7/18/23 10:50		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	7/17/23 12:00	7/18/23 12:39		10.15	81.1	mg/L	0.70035	4.06	
* Iron, Total	7/17/23 12:00	7/18/23 10:50		1.015	0.0110	mg/L	0.008120	0.0406	J
* Lithium, Total	7/17/23 12:00	7/18/23 10:50		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	7/17/23 12:00	7/18/23 10:50		1.015	9.76	mg/L	0.021315	0.406	
* Molybdenum, Total	7/17/23 12:00	7/18/23 10:50		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	7/17/23 12:00	7/18/23 10:50		1	8.07	mg/L			
* Silicon, Total	7/17/23 12:00	7/18/23 10:50		1.015	3.77	mg/L	0.02030	0.25375	
* Sodium, Total	7/17/23 12:00	7/18/23 10:50		1.015	2.70	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>						
* Boron, Dissolved	7/17/23 08:56	7/19/23 11:11		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	8/4/23 11:28	8/4/23 13:01		10.15	77.9	mg/L	0.70035	4.06	RA
* Iron, Dissolved	7/17/23 08:56	7/19/23 11:11		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	7/17/23 08:56	7/19/23 11:11		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	7/17/23 08:56	7/19/23 11:11		1.015	10.1	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/17/23 08:56	7/19/23 12:40		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	7/17/23 08:56	7/19/23 11:11		1	8.02	mg/L			
* Silicon, Dissolved	7/17/23 08:56	7/19/23 11:11		1.015	3.75	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/17/23 08:56	7/19/23 11:11		1.015	2.70	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	7/17/23 12:00	7/17/23 14:17		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	7/17/23 12:00	7/17/23 14:17		1.015	0.000124	mg/L	0.000112	0.000203	J
* Aluminum, Total	7/17/23 12:00	7/17/23 14:17		1.015	0.0134	mg/L	0.009135	0.05075	J
* Barium, Total	7/17/23 12:00	7/17/23 14:17		1.015	0.0227	mg/L	0.000508	0.001015	
* Beryllium, Total	7/17/23 12:00	7/17/23 14:17		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/17/23 12:00	7/17/23 14:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/17/23 12:00	7/17/23 14:17		1.015	0.000361	mg/L	0.000203	0.001015	J
* Cobalt, Total	7/17/23 12:00	7/17/23 14:17		1.015	0.0000747	mg/L	0.000068	0.000203	J
* Lead, Total	7/17/23 12:00	7/17/23 14:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/17/23 12:00	7/17/23 14:17		1.015	0.0591	mg/L	0.000152	0.001015	

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-12

**Location Code:** WMWGASG  
**Collected:** 7/11/23 13:10  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12792

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/17/23 12:00	7/17/23 14:17		1.015	0.302	mg/L	0.169505	0.5075	J
* Selenium, Total	7/17/23 12:00	7/17/23 14:17		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/17/23 12:00	7/17/23 14:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	7/17/23 08:56	7/17/23 11:04		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/17/23 08:56	7/17/23 11:04		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/17/23 08:56	7/17/23 11:04		1.015	0.000138	mg/L	0.000112	0.000203	J
* Barium, Dissolved	7/17/23 08:56	7/17/23 11:04		1.015	0.0227	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/17/23 08:56	7/17/23 11:04		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/17/23 08:56	7/17/23 11:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/17/23 08:56	7/17/23 11:04		1.015	0.000209	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	7/17/23 08:56	7/17/23 11:04		1.015	0.0000729	mg/L	0.000068	0.000203	J
* Lead, Dissolved	7/17/23 08:56	7/17/23 11:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/17/23 08:56	7/17/23 11:04		1.015	0.0624	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/17/23 08:56	7/17/23 11:04		1.015	0.314	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	7/17/23 08:56	7/17/23 11:04		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/17/23 08:56	7/17/23 11:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	7/18/23 12:52	7/18/23 17:56		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	7/13/23 14:18	7/13/23 14:18		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	7/17/23 10:37	7/17/23 14:47		1	228	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	7/13/23 11:25	7/18/23 14:00		1	258	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	7/17/23 10:37	7/17/23 14:47		1	227	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	7/17/23 10:37	7/17/23 14:47		1	1.15	mg CaCO3/L		0.5	
<b>Analytical Method: SM 4500H+ B</b>		<b>Analyst: DHC</b>							
Alkalinity pH Endpoint	7/17/23 10:37	7/17/23 14:47		1	4.53	SU		2	

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-12

**Location Code:** WMWGASG  
**Collected:** 7/11/23 13:10  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12792

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	7/13/23 19:57	7/13/23 19:57		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	7/13/23 14:09	7/13/23 14:09		1	3.84	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	7/14/23 10:05	7/14/23 10:05		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: CES</b>							
* Sulfate	7/21/23 10:42	7/21/23 10:42		1	9.46	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	7/11/23 13:06	7/11/23 13:06			444.78	uS/cm			FA
pH	7/11/23 13:06	7/11/23 13:06			6.79	SU			FA
Temperature	7/11/23 13:06	7/11/23 13:06			20.89	C			FA
Turbidity	7/11/23 13:06	7/11/23 13:06			2	NTU			FA
Sulfide	7/11/23 13:06	7/11/23 13:06			0	mg/L			FA

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/11/23 13:10  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-12

**Laboratory ID Number:** BD12792

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD12793	Aluminum, Dissolved	mg/L	-0.000164	0.0198	0.100	0.106	0.103	0.104	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD12793	Aluminum, Total	mg/L	0.000890	0.0198	0.100	0.112	0.110	0.114	0.0850 to 0.115	112	70.0 to 130	1.80	20.0
BD12793	Antimony, Dissolved	mg/L	0.000440	0.00100	0.100	0.0941	0.0924	0.0898	0.0850 to 0.115	94.1	70.0 to 130	1.82	20.0
BD12793	Antimony, Total	mg/L	0.000480	0.00100	0.100	0.0944	0.0962	0.0959	0.0850 to 0.115	94.4	70.0 to 130	1.89	20.0
BD12793	Arsenic, Dissolved	mg/L	0.0000143	0.000200	0.100	0.105	0.102	0.102	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BD12793	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.0984	0.0987	0.102	0.0850 to 0.115	98.3	70.0 to 130	0.304	20.0
BD12793	Barium, Dissolved	mg/L	0.0000152	0.00100	0.100	0.149	0.147	0.104	0.0850 to 0.115	107	70.0 to 130	1.35	20.0
BD12793	Barium, Total	mg/L	0.0000323	0.00100	0.100	0.150	0.149	0.105	0.0850 to 0.115	107	70.0 to 130	0.669	20.0
BD12793	Beryllium, Dissolved	mg/L	0.0000110	0.000880	0.100	0.0914	0.0925	0.0984	0.0850 to 0.115	91.4	70.0 to 130	1.20	20.0
BD12793	Beryllium, Total	mg/L	0.0000081	0.000880	0.100	0.0903	0.0861	0.0962	0.0850 to 0.115	90.3	70.0 to 130	4.76	20.0
BD12793	Boron, Dissolved	mg/L	0.000014	0.0650	1.00	1.02	1.04	1.00	0.850 to 1.15	102	70.0 to 130	1.94	20.0
BD12793	Boron, Total	mg/L	-0.000501	0.0650	1.00	1.02	1.03	1.00	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BD12793	Cadmium, Dissolved	mg/L	0.0000047	0.000147	0.100	0.104	0.0984	0.102	0.0850 to 0.115	104	70.0 to 130	5.53	20.0
BD12793	Cadmium, Total	mg/L	0.0000090	0.000147	0.100	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD12792	Calcium, Dissolved	mg/L	0.00335	0.152	5.00	86.8	86.9	4.83	4.25 to 5.75	178	70.0 to 130	0.115	20.0
BD12793	Calcium, Total	mg/L	-0.0111	0.152	5.00	104	103	5.08	4.25 to 5.75	-20.0	70.0 to 130	0.966	20.0
BD12792	Chloride	mg/L	-0.0166	1.00	10.0	14.1	14.0	9.89	9.00 to 11.0	103	80.0 to 120	0.712	20.0
BD12793	Chromium, Dissolved	mg/L	-0.0000223	0.000440	0.100	0.106	0.105	0.105	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD12793	Chromium, Total	mg/L	-0.0000974	0.000440	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD12793	Cobalt, Dissolved	mg/L	-0.0000023	0.000147	0.100	0.105	0.103	0.106	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD12793	Cobalt, Total	mg/L	-0.0000015	0.000147	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD12792	Fluoride	mg/L	-0.0135	0.125	2.50	2.56	2.56	2.55	2.25 to 2.75	102	80.0 to 120	0.00	20.0
BD12793	Iron, Dissolved	mg/L	-0.00150	0.0176	0.2	0.198	0.199	0.203	0.170 to 0.230	99.0	70.0 to 130	0.504	20.0
BD12793	Iron, Total	mg/L	-0.00158	0.0176	0.2	0.201	0.204	0.203	0.170 to 0.230	100	70.0 to 130	1.48	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/11/23 13:10  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-12

**Laboratory ID Number:** BD12792

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD12793	Lead, Dissolved	mg/L	0.0000159	0.000147	0.100	0.0985	0.105	0.105	0.0850 to 0.115	98.5	70.0 to 130	6.39	20.0
BD12793	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.105	0.106	0.102	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD12793	Lithium, Dissolved	mg/L	-0.00056	0.0154	0.200	0.202	0.207	0.196	0.170 to 0.230	101	70.0 to 130	2.44	20.0
BD12793	Lithium, Total	mg/L	0.000108	0.0154	0.200	0.204	0.204	0.200	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD12793	Magnesium, Dissolved	mg/L	-0.00231	0.0462	5.00	16.4	16.3	4.94	4.25 to 5.75	98.0	70.0 to 130	0.612	20.0
BD12793	Magnesium, Total	mg/L	0.00970	0.0462	5.00	16.3	16.3	4.97	4.25 to 5.75	96.0	70.0 to 130	0.00	20.0
BD12793	Manganese, Dissolved	mg/L	-0.0000472	0.00033	0.100	0.106	0.104	0.107	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD12793	Manganese, Total	mg/L	-0.0000467	0.00033	0.100	0.104	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD12793	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00398	0.00401	0.00401	0.00340 to 0.00460	99.5	70.0 to 130	0.751	20.0
BD12793	Molybdenum, Dissolved	mg/L	0.00219	0.0100	0.2	0.194	0.199	0.197	0.170 to 0.230	97.0	70.0 to 130	2.54	20.0
BD12793	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.199	0.201	0.198	0.170 to 0.230	99.5	70.0 to 130	1.00	20.0
BD12793	Potassium, Dissolved	mg/L	0.0297	0.367	10.0	12.1	11.9	11.2	8.50 to 11.5	111	70.0 to 130	1.67	20.0
BD12793	Potassium, Total	mg/L	0.0159	0.367	10.0	12.1	11.8	11.2	8.50 to 11.5	112	70.0 to 130	2.51	20.0
BD12793	Selenium, Dissolved	mg/L	0.0000984	0.00100	0.100	0.107	0.107	0.108	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD12793	Selenium, Total	mg/L	0.0000416	0.00100	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD12793	Silicon, Dissolved	mg/L	-0.00168	0.0440	1.00	5.71	5.73	1.03	0.850 to 1.15	102	70.0 to 130	0.350	20.0
BD12793	Silicon, Total	mg/L	0.000428	0.0440	1.00	5.73	5.72	1.03	0.850 to 1.15	100	70.0 to 130	0.175	20.0
BD12793	Sodium, Dissolved	mg/L	0.00156	0.0880	5.00	7.83	7.98	4.94	4.25 to 5.75	100	70.0 to 130	1.90	20.0
BD12793	Sodium, Total	mg/L	0.00381	0.0880	5.00	7.79	7.76	4.96	4.25 to 5.75	99.4	70.0 to 130	0.386	20.0
BD12792	Sulfate	mg/L	0.160	2.0	20.0	30.8	31.1	20.2	18.0 to 22.0	107	80.0 to 120	0.969	20.0
BD12793	Thallium, Dissolved	mg/L	0.0000065	0.000147	0.100	0.102	0.0997	0.100	0.0850 to 0.115	102	70.0 to 130	2.28	20.0
BD12793	Thallium, Total	mg/L	0.0000125	0.000147	0.100	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD12793	Total Organic Carbon	mg/L	0.125	1.00	10.0	8.72	10.1	9.78		87.2	80.0 to 120	14.7	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



## Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/11/23 13:10  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-12

**Laboratory ID Number:** BD12792

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD12788	Alkalinity	mg CaCO3/L					145	50.3	45.0 to 55.0			0.687	10.0
BD12793	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.54	0.386	2.03	1.80 to 2.20	108	90.0 to 110	0.774	15.0
BD12795	Solids, Dissolved	mg/L	1.00	25.0			288	52.0	40.0 to 60.0			1.04	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-13

**Location Code:** WMWGASG  
**Collected:** 7/11/23 14:00  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12793

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	7/17/23 12:00	7/18/23 10:53		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	7/17/23 12:00	7/18/23 12:42		10.15	105	mg/L	0.70035	4.06	RA	
* Iron, Total	7/17/23 12:00	7/18/23 10:53		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	7/17/23 12:00	7/18/23 10:53		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	7/17/23 12:00	7/18/23 10:53		1.015	11.5	mg/L	0.021315	0.406		
* Molybdenum, Total	7/17/23 12:00	7/18/23 10:53		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	7/17/23 12:00	7/18/23 10:53		1	10.1	mg/L				
* Silicon, Total	7/17/23 12:00	7/18/23 10:53		1.015	4.73	mg/L	0.02030	0.25375		
* Sodium, Total	7/17/23 12:00	7/18/23 10:53		1.015	2.82	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	7/17/23 08:56	7/19/23 11:14		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	7/17/23 08:56	7/19/23 13:21		10.15	119	mg/L	0.70035	4.06	RA	
* Iron, Dissolved	7/17/23 08:56	7/19/23 11:14		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	7/17/23 08:56	7/19/23 11:14		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	7/17/23 08:56	7/19/23 11:14		1.015	11.5	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	7/17/23 08:56	7/19/23 12:44		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	7/17/23 08:56	7/19/23 11:14		1	10.0	mg/L				
* Silicon, Dissolved	7/17/23 08:56	7/19/23 11:14		1.015	4.69	mg/L	0.02030	0.25375		
* Sodium, Dissolved	7/17/23 08:56	7/19/23 11:14		1.015	2.81	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	7/17/23 12:00	7/17/23 14:20		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	7/17/23 12:00	7/17/23 14:20		1.015	Not Detected	mg/L	0.009135	0.05075	U	
* Arsenic, Total	7/17/23 12:00	7/17/23 14:20		1.015	0.000131	mg/L	0.000112	0.000203	J	
* Barium, Total	7/17/23 12:00	7/17/23 14:20		1.015	0.0426	mg/L	0.000508	0.001015		
* Beryllium, Total	7/17/23 12:00	7/17/23 14:20		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	7/17/23 12:00	7/17/23 14:20		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	7/17/23 12:00	7/17/23 14:20		1.015	0.000446	mg/L	0.000203	0.001015	J	
* Cobalt, Total	7/17/23 12:00	7/17/23 14:20		1.015	0.0000737	mg/L	0.000068	0.000203	J	
* Lead, Total	7/17/23 12:00	7/17/23 14:20		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	7/17/23 12:00	7/17/23 14:20		1.015	0.00109	mg/L	0.000152	0.001015		

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-13

**Location Code:** WMWGASG  
**Collected:** 7/11/23 14:00  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12793

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/17/23 12:00	7/17/23 14:20		1.015	0.943	mg/L	0.169505	0.5075	
* Selenium, Total	7/17/23 12:00	7/17/23 14:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/17/23 12:00	7/17/23 14:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	7/17/23 08:56	7/17/23 11:08		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/17/23 08:56	7/17/23 11:08		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/17/23 08:56	7/17/23 11:08		1.015	0.000146	mg/L	0.000112	0.000203	J
* Barium, Dissolved	7/17/23 08:56	7/17/23 11:08		1.015	0.0421	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/17/23 08:56	7/17/23 11:08		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/17/23 08:56	7/17/23 11:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/17/23 08:56	7/17/23 11:08		1.015	0.000465	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	7/17/23 08:56	7/17/23 11:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	7/17/23 08:56	7/17/23 11:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/17/23 08:56	7/17/23 11:08		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Potassium, Dissolved	7/17/23 08:56	7/17/23 11:08		1.015	0.976	mg/L	0.169505	0.5075	
* Selenium, Dissolved	7/17/23 08:56	7/17/23 11:08		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/17/23 08:56	7/17/23 11:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	7/18/23 12:52	7/18/23 18:00		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	7/13/23 14:20	7/13/23 14:20		1	0.389	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	7/17/23 10:37	7/17/23 14:47		1	254	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	7/13/23 11:25	7/18/23 14:00		1	283	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	7/17/23 10:37	7/17/23 14:47		1	253	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	7/17/23 10:37	7/17/23 14:47		1	0.585	mg CaCO3/L		0.5	
<b>Analytical Method: SM 4500H+ B</b>		<b>Analyst: DHC</b>							
Alkalinity pH Endpoint	7/17/23 10:37	7/17/23 14:47		1	4.55	SU		2	

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-13

**Location Code:** WMWGASG  
**Collected:** 7/11/23 14:00  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12793

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	7/13/23 20:11	7/13/23 20:11		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	7/13/23 14:23	7/13/23 14:23		1	3.69	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	7/14/23 13:38	7/14/23 13:38		1	0.103	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: CES</b>							
* Sulfate	7/21/23 10:56	7/21/23 10:56		1	9.40	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	7/11/23 13:57	7/11/23 13:57			494.28	uS/cm			FA
pH	7/11/23 13:57	7/11/23 13:57			6.62	SU			FA
Temperature	7/11/23 13:57	7/11/23 13:57			20.74	C			FA
Turbidity	7/11/23 13:57	7/11/23 13:57			1.61	NTU			FA
Sulfide	7/11/23 13:57	7/11/23 13:57			0	mg/L			FA

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/11/23 14:00  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-13

**Laboratory ID Number:** BD12793

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD12793	Aluminum, Dissolved	mg/L	-0.000164	0.0198	0.100	0.106	0.103	0.104	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD12793	Aluminum, Total	mg/L	0.000890	0.0198	0.100	0.112	0.110	0.114	0.0850 to 0.115	112	70.0 to 130	1.80	20.0
BD12793	Antimony, Dissolved	mg/L	0.000440	0.00100	0.100	0.0941	0.0924	0.0898	0.0850 to 0.115	94.1	70.0 to 130	1.82	20.0
BD12793	Antimony, Total	mg/L	0.000480	0.00100	0.100	0.0944	0.0962	0.0959	0.0850 to 0.115	94.4	70.0 to 130	1.89	20.0
BD12793	Arsenic, Dissolved	mg/L	0.0000143	0.000200	0.100	0.105	0.102	0.102	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BD12793	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.0984	0.0987	0.102	0.0850 to 0.115	98.3	70.0 to 130	0.304	20.0
BD12793	Barium, Dissolved	mg/L	0.0000152	0.00100	0.100	0.149	0.147	0.104	0.0850 to 0.115	107	70.0 to 130	1.35	20.0
BD12793	Barium, Total	mg/L	0.0000323	0.00100	0.100	0.150	0.149	0.105	0.0850 to 0.115	107	70.0 to 130	0.669	20.0
BD12793	Beryllium, Dissolved	mg/L	0.0000110	0.000880	0.100	0.0914	0.0925	0.0984	0.0850 to 0.115	91.4	70.0 to 130	1.20	20.0
BD12793	Beryllium, Total	mg/L	0.0000081	0.000880	0.100	0.0903	0.0861	0.0962	0.0850 to 0.115	90.3	70.0 to 130	4.76	20.0
BD12793	Boron, Dissolved	mg/L	0.000014	0.0650	1.00	1.02	1.04	1.00	0.850 to 1.15	102	70.0 to 130	1.94	20.0
BD12793	Boron, Total	mg/L	-0.000501	0.0650	1.00	1.02	1.03	1.00	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BD12793	Cadmium, Dissolved	mg/L	0.0000047	0.000147	0.100	0.104	0.0984	0.102	0.0850 to 0.115	104	70.0 to 130	5.53	20.0
BD12793	Cadmium, Total	mg/L	0.0000090	0.000147	0.100	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD12793	Calcium, Dissolved	mg/L	0.00449	0.152	5.00	115	122	5.13	4.25 to 5.75	-80.0	70.0 to 130	5.91	20.0
BD12793	Calcium, Total	mg/L	-0.0111	0.152	5.00	104	103	5.08	4.25 to 5.75	-20.0	70.0 to 130	0.966	20.0
BD12802	Chloride	mg/L	-0.00598	1.00	10.0	12.6	12.7	9.93	9.00 to 11.0	102	80.0 to 120	0.791	20.0
BD12793	Chromium, Dissolved	mg/L	-0.0000223	0.000440	0.100	0.106	0.105	0.105	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD12793	Chromium, Total	mg/L	-0.0000974	0.000440	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD12793	Cobalt, Dissolved	mg/L	-0.0000023	0.000147	0.100	0.105	0.103	0.106	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD12793	Cobalt, Total	mg/L	-0.0000015	0.000147	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD12802	Fluoride	mg/L	0.038	0.125	2.50	2.67	2.69	2.70	2.25 to 2.75	107	80.0 to 120	0.746	20.0
BD12793	Iron, Dissolved	mg/L	-0.00150	0.0176	0.2	0.198	0.199	0.203	0.170 to 0.230	99.0	70.0 to 130	0.504	20.0
BD12793	Iron, Total	mg/L	-0.00158	0.0176	0.2	0.201	0.204	0.203	0.170 to 0.230	100	70.0 to 130	1.48	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/11/23 14:00  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-13

**Laboratory ID Number:** BD12793

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD12793	Lead, Dissolved	mg/L	0.0000159	0.000147	0.100	0.0985	0.105	0.105	0.0850 to 0.115	98.5	70.0 to 130	6.39	20.0
BD12793	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.105	0.106	0.102	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD12793	Lithium, Dissolved	mg/L	-0.00056	0.0154	0.200	0.202	0.207	0.196	0.170 to 0.230	101	70.0 to 130	2.44	20.0
BD12793	Lithium, Total	mg/L	0.000108	0.0154	0.200	0.204	0.204	0.200	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD12793	Magnesium, Dissolved	mg/L	-0.00231	0.0462	5.00	16.4	16.3	4.94	4.25 to 5.75	98.0	70.0 to 130	0.612	20.0
BD12793	Magnesium, Total	mg/L	0.00970	0.0462	5.00	16.3	16.3	4.97	4.25 to 5.75	96.0	70.0 to 130	0.00	20.0
BD12793	Manganese, Dissolved	mg/L	-0.0000472	0.00033	0.100	0.106	0.104	0.107	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD12793	Manganese, Total	mg/L	-0.0000467	0.00033	0.100	0.104	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD12793	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00398	0.00401	0.00401	0.00340 to 0.00460	99.5	70.0 to 130	0.751	20.0
BD12793	Molybdenum, Dissolved	mg/L	0.00219	0.0100	0.2	0.194	0.199	0.197	0.170 to 0.230	97.0	70.0 to 130	2.54	20.0
BD12793	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.199	0.201	0.198	0.170 to 0.230	99.5	70.0 to 130	1.00	20.0
BD12793	Potassium, Dissolved	mg/L	0.0297	0.367	10.0	12.1	11.9	11.2	8.50 to 11.5	111	70.0 to 130	1.67	20.0
BD12793	Potassium, Total	mg/L	0.0159	0.367	10.0	12.1	11.8	11.2	8.50 to 11.5	112	70.0 to 130	2.51	20.0
BD12793	Selenium, Dissolved	mg/L	0.0000984	0.00100	0.100	0.107	0.107	0.108	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD12793	Selenium, Total	mg/L	0.0000416	0.00100	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD12793	Silicon, Dissolved	mg/L	-0.00168	0.0440	1.00	5.71	5.73	1.03	0.850 to 1.15	102	70.0 to 130	0.350	20.0
BD12793	Silicon, Total	mg/L	0.000428	0.0440	1.00	5.73	5.72	1.03	0.850 to 1.15	100	70.0 to 130	0.175	20.0
BD12793	Sodium, Dissolved	mg/L	0.00156	0.0880	5.00	7.83	7.98	4.94	4.25 to 5.75	100	70.0 to 130	1.90	20.0
BD12793	Sodium, Total	mg/L	0.00381	0.0880	5.00	7.79	7.76	4.96	4.25 to 5.75	99.4	70.0 to 130	0.386	20.0
BD12802	Sulfate	mg/L	-0.143	2.0	20.0	23.3	24.1	20.1	18.0 to 22.0	103	80.0 to 120	3.38	20.0
BD12793	Thallium, Dissolved	mg/L	0.0000065	0.000147	0.100	0.102	0.0997	0.100	0.0850 to 0.115	102	70.0 to 130	2.28	20.0
BD12793	Thallium, Total	mg/L	0.0000125	0.000147	0.100	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD12793	Total Organic Carbon	mg/L	0.125	1.00	10.0	8.72	10.1	9.78		87.2	80.0 to 120	14.7	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/11/23 14:00  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-13

**Laboratory ID Number:** BD12793

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD12788	Alkalinity	mg CaCO3/L					145	50.3	45.0 to 55.0			0.687	10.0
BD12793	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.54	0.386	2.03	1.80 to 2.20	108	90.0 to 110	0.774	15.0
BD12795	Solids, Dissolved	mg/L	1.00	25.0			288	52.0	40.0 to 60.0			1.04	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-1

**Location Code:** WMWGASG  
**Collected:** 7/11/23 14:53  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12794

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	7/17/23 12:00	7/18/23 11:09		1.015	0.0346	mg/L	0.030000	0.1015	J
* Calcium, Total	7/17/23 12:00	7/18/23 12:51		10.15	47.2	mg/L	0.70035	4.06	
* Iron, Total	7/17/23 12:00	7/18/23 11:09		1.015	0.189	mg/L	0.008120	0.0406	
* Lithium, Total	7/17/23 12:00	7/18/23 11:09		1.015	0.00982	mg/L	0.007105	0.01999956	J
* Magnesium, Total	7/17/23 12:00	7/18/23 11:09		1.015	20.8	mg/L	0.021315	0.406	
* Molybdenum, Total	7/17/23 12:00	7/18/23 11:09		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	7/17/23 12:00	7/18/23 11:09		1	20.1	mg/L			
* Silicon, Total	7/17/23 12:00	7/18/23 11:09		1.015	9.40	mg/L	0.02030	0.25375	
* Sodium, Total	7/17/23 12:00	7/18/23 11:09		1.015	8.97	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	7/17/23 08:56	7/19/23 11:30		1.015	0.0347	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	7/17/23 08:56	7/19/23 13:31		10.15	46.5	mg/L	0.70035	4.06	
* Iron, Dissolved	7/17/23 08:56	7/19/23 11:30		1.015	0.175	mg/L	0.008120	0.0406	
* Lithium, Dissolved	7/17/23 08:56	7/19/23 11:30		1.015	0.00986	mg/L	0.007105	0.01999956	J
* Magnesium, Dissolved	7/17/23 08:56	7/19/23 11:30		1.015	20.2	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/17/23 08:56	7/19/23 11:30		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	7/17/23 08:56	7/19/23 11:30		1	20.0	mg/L			
* Silicon, Dissolved	7/17/23 08:56	7/19/23 11:30		1.015	9.34	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/17/23 08:56	7/19/23 11:30		1.015	8.60	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	7/17/23 12:00	7/17/23 14:42		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	7/17/23 12:00	7/17/23 14:42		1.015	0.00179	mg/L	0.000112	0.000203	
* Aluminum, Total	7/17/23 12:00	7/17/23 14:42		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	7/17/23 12:00	7/17/23 15:36		5.075	2.43	mg/L	0.002538	0.005075	
* Beryllium, Total	7/17/23 12:00	7/17/23 14:42		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/17/23 12:00	7/17/23 14:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/17/23 12:00	7/17/23 14:42		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	7/17/23 12:00	7/17/23 14:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	7/17/23 12:00	7/17/23 14:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/17/23 12:00	7/17/23 14:42		1.015	0.00590	mg/L	0.000152	0.001015	

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-1

**Location Code:** WMWGASG  
**Collected:** 7/11/23 14:53  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12794

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/17/23 12:00	7/17/23 14:42		1.015	1.22	mg/L	0.169505	0.5075	
* Selenium, Total	7/17/23 12:00	7/17/23 14:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/17/23 12:00	7/17/23 14:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	7/17/23 08:56	7/17/23 11:29		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/17/23 08:56	7/17/23 11:29		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/17/23 08:56	7/17/23 11:29		1.015	0.00152	mg/L	0.000112	0.000203	
* Barium, Dissolved	7/17/23 08:56	7/17/23 11:58		5.075	2.28	mg/L	0.002538	0.005075	
* Beryllium, Dissolved	7/17/23 08:56	7/17/23 11:29		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/17/23 08:56	7/17/23 11:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/17/23 08:56	7/17/23 11:29		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/17/23 08:56	7/17/23 11:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	7/17/23 08:56	7/17/23 11:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/17/23 08:56	7/17/23 11:29		1.015	0.00572	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/17/23 08:56	7/17/23 11:29		1.015	1.22	mg/L	0.169505	0.5075	
* Selenium, Dissolved	7/17/23 08:56	7/17/23 11:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/17/23 08:56	7/17/23 11:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	7/18/23 12:52	7/18/23 18:20		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	7/13/23 14:29	7/13/23 14:29		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	7/17/23 10:37	7/17/23 14:47		1	199	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	7/13/23 11:25	7/18/23 14:00		1	215	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	7/17/23 10:37	7/17/23 14:47		1	197	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	7/17/23 10:37	7/17/23 14:47		1	2.08	mg CaCO3/L		0.5	
<b>Analytical Method: SM 4500H+ B</b>		<b>Analyst: DHC</b>							
Alkalinity pH Endpoint	7/17/23 10:37	7/17/23 14:47		1	4.54	SU		2	

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-1

**Location Code:** WMWGASG  
**Collected:** 7/11/23 14:53  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12794

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	7/13/23 21:38	7/13/23 21:38		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	7/13/23 14:24	7/13/23 14:24		1	2.18	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	7/14/23 13:39	7/14/23 13:39		1	0.300	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: CES</b>							
* Sulfate	7/21/23 10:57	7/21/23 10:57		1	4.01	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	7/11/23 14:50	7/11/23 14:50			372.42	uS/cm			FA
pH	7/11/23 14:50	7/11/23 14:50			7.58	SU			FA
Temperature	7/11/23 14:50	7/11/23 14:50			21.67	C			FA
Turbidity	7/11/23 14:50	7/11/23 14:50			1.88	NTU			FA
Sulfide	7/11/23 14:50	7/11/23 14:50			0	mg/L			FA

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/11/23 14:53  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-1

**Laboratory ID Number:** BD12794

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD12802	Aluminum, Dissolved	mg/L	-0.000164	0.0198	0.100	0.105	0.103	0.104	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD12802	Aluminum, Total	mg/L	0.000890	0.0198	0.100	0.139	0.135	0.114	0.0850 to 0.115	113	70.0 to 130	2.92	20.0
BD12802	Antimony, Dissolved	mg/L	0.000440	0.00100	0.100	0.0911	0.0932	0.0898	0.0850 to 0.115	91.1	70.0 to 130	2.28	20.0
BD12802	Antimony, Total	mg/L	0.000480	0.00100	0.100	0.0947	0.0958	0.0959	0.0850 to 0.115	94.7	70.0 to 130	1.15	20.0
BD12802	Arsenic, Dissolved	mg/L	0.0000143	0.000200	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD12802	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.102	0.0995	0.102	0.0850 to 0.115	102	70.0 to 130	2.48	20.0
BD12802	Barium, Dissolved	mg/L	0.0000152	0.00100	0.100	0.129	0.130	0.104	0.0850 to 0.115	104	70.0 to 130	0.772	20.0
BD12802	Barium, Total	mg/L	0.0000323	0.00100	0.100	0.129	0.130	0.105	0.0850 to 0.115	104	70.0 to 130	0.772	20.0
BD12802	Beryllium, Dissolved	mg/L	0.0000110	0.000880	0.100	0.0986	0.0933	0.0984	0.0850 to 0.115	98.6	70.0 to 130	5.52	20.0
BD12802	Beryllium, Total	mg/L	0.0000081	0.000880	0.100	0.0926	0.0946	0.0962	0.0850 to 0.115	92.6	70.0 to 130	2.14	20.0
BD12802	Boron, Dissolved	mg/L	0.000014	0.0650	1.00	1.02	1.02	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD12802	Boron, Total	mg/L	-0.000501	0.0650	1.00	1.02	1.02	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD12802	Cadmium, Dissolved	mg/L	0.0000047	0.000147	0.100	0.104	0.102	0.102	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD12802	Cadmium, Total	mg/L	0.0000090	0.000147	0.100	0.100	0.101	0.100	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD12802	Calcium, Dissolved	mg/L	0.00449	0.152	5.00	66.0	66.5	5.13	4.25 to 5.75	30.0	70.0 to 130	0.755	20.0
BD12802	Calcium, Total	mg/L	-0.0111	0.152	5.00	62.0	61.5	5.08	4.25 to 5.75	8.00	70.0 to 130	0.810	20.0
BD12802	Chloride	mg/L	-0.00598	1.00	10.0	12.6	12.7	9.93	9.00 to 11.0	102	80.0 to 120	0.791	20.0
BD12802	Chromium, Dissolved	mg/L	-0.0000223	0.000440	0.100	0.104	0.104	0.105	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD12802	Chromium, Total	mg/L	-0.0000974	0.000440	0.100	0.104	0.101	0.103	0.0850 to 0.115	103	70.0 to 130	2.93	20.0
BD12802	Cobalt, Dissolved	mg/L	-0.0000023	0.000147	0.100	0.104	0.103	0.106	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD12802	Cobalt, Total	mg/L	-0.0000015	0.000147	0.100	0.105	0.100	0.103	0.0850 to 0.115	105	70.0 to 130	4.88	20.0
BD12802	Fluoride	mg/L	0.038	0.125	2.50	2.67	2.69	2.70	2.25 to 2.75	107	80.0 to 120	0.746	20.0
BD12802	Iron, Dissolved	mg/L	-0.00150	0.0176	0.2	0.222	0.234	0.203	0.170 to 0.230	101	70.0 to 130	5.26	20.0
BD12802	Iron, Total	mg/L	-0.00158	0.0176	0.2	0.233	0.238	0.203	0.170 to 0.230	100	70.0 to 130	2.12	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/11/23 14:53  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-1

**Laboratory ID Number:** BD12794

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD12802	Lead, Dissolved	mg/L	0.0000159	0.000147	0.100	0.108	0.116	0.105	0.0850 to 0.115	108	70.0 to 130	7.14	20.0
BD12802	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.109	0.109	0.102	0.0850 to 0.115	109	70.0 to 130	0.00	20.0
BD12802	Lithium, Dissolved	mg/L	-0.00056	0.0154	0.200	0.201	0.198	0.196	0.170 to 0.230	100	70.0 to 130	1.50	20.0
BD12802	Lithium, Total	mg/L	0.000108	0.0154	0.200	0.208	0.205	0.200	0.170 to 0.230	104	70.0 to 130	1.45	20.0
BD12802	Magnesium, Dissolved	mg/L	-0.00231	0.0462	5.00	13.9	13.6	4.94	4.25 to 5.75	97.8	70.0 to 130	2.18	20.0
BD12802	Magnesium, Total	mg/L	0.00970	0.0462	5.00	13.9	13.9	4.97	4.25 to 5.75	98.2	70.0 to 130	0.00	20.0
BD12802	Manganese, Dissolved	mg/L	-0.0000472	0.00033	0.100	0.116	0.116	0.107	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD12802	Manganese, Total	mg/L	-0.0000467	0.00033	0.100	0.119	0.116	0.104	0.0850 to 0.115	105	70.0 to 130	2.55	20.0
BD12802	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00398	0.00399	0.00401	0.00340 to 0.00460	99.5	70.0 to 130	0.251	20.0
BD12802	Molybdenum, Dissolved	mg/L	0.00219	0.0100	0.2	0.196	0.198	0.197	0.170 to 0.230	98.0	70.0 to 130	1.02	20.0
BD12802	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.199	0.200	0.198	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD12802	Potassium, Dissolved	mg/L	0.0297	0.367	10.0	11.6	11.6	11.2	8.50 to 11.5	108	70.0 to 130	0.00	20.0
BD12802	Potassium, Total	mg/L	0.0159	0.367	10.0	11.9	11.8	11.2	8.50 to 11.5	111	70.0 to 130	0.844	20.0
BD12802	Selenium, Dissolved	mg/L	0.0000984	0.00100	0.100	0.106	0.105	0.108	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD12802	Selenium, Total	mg/L	0.0000416	0.00100	0.100	0.102	0.102	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD12802	Silicon, Dissolved	mg/L	-0.00168	0.0440	1.00	5.84	5.83	1.03	0.850 to 1.15	101	70.0 to 130	0.171	20.0
BD12802	Silicon, Total	mg/L	0.000428	0.0440	1.00	5.90	5.88	1.03	0.850 to 1.15	103	70.0 to 130	0.340	20.0
BD12802	Sodium, Dissolved	mg/L	0.00156	0.0880	5.00	13.2	12.9	4.94	4.25 to 5.75	102	70.0 to 130	2.30	20.0
BD12802	Sodium, Total	mg/L	0.00381	0.0880	5.00	13.5	13.3	4.96	4.25 to 5.75	103	70.0 to 130	1.49	20.0
BD12802	Sulfate	mg/L	-0.143	2.0	20.0	23.3	24.1	20.1	18.0 to 22.0	103	80.0 to 120	3.38	20.0
BD12802	Thallium, Dissolved	mg/L	0.0000065	0.000147	0.100	0.0996	0.114	0.100	0.0850 to 0.115	99.6	70.0 to 130	13.5	20.0
BD12802	Thallium, Total	mg/L	0.0000125	0.000147	0.100	0.102	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD12802	Total Organic Carbon	mg/L	0.122	1.00	10.0	10.4	9.64	10.1		104	80.0 to 120	7.58	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/11/23 14:53  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-1

**Laboratory ID Number:** BD12794

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD12788	Alkalinity	mg CaCO3/L					145	50.3	45.0 to 55.0			0.687	10.0
BD12802	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.37	0.258	1.97	1.80 to 2.20	106	90.0 to 110	3.95	15.0
BD12795	Solids, Dissolved	mg/L	1.00	25.0			288	52.0	40.0 to 60.0			1.04	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-2

**Location Code:** WMWGASG  
**Collected:** 7/11/23 16:20  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12795

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	7/17/23 12:00	7/18/23 11:12		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	7/17/23 12:00	7/18/23 12:54		10.15	79.7	mg/L	0.70035	4.06		
* Iron, Total	7/17/23 12:00	7/18/23 11:12		1.015	0.0595	mg/L	0.008120	0.0406		
* Lithium, Total	7/17/23 12:00	7/18/23 11:12		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	7/17/23 12:00	7/18/23 11:12		1.015	20.3	mg/L	0.021315	0.406		
* Molybdenum, Total	7/17/23 12:00	7/18/23 11:12		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	7/17/23 12:00	7/18/23 11:12		1	11.7	mg/L				
* Silicon, Total	7/17/23 12:00	7/18/23 11:12		1.015	5.48	mg/L	0.02030	0.25375		
* Sodium, Total	7/17/23 12:00	7/18/23 11:12		1.015	2.17	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>								
* Boron, Dissolved	7/17/23 08:56	7/19/23 11:33		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	7/17/23 08:56	7/19/23 13:34		10.15	93.4	mg/L	0.70035	4.06		
* Iron, Dissolved	7/17/23 08:56	7/19/23 11:33		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	7/17/23 08:56	7/19/23 11:33		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	7/17/23 08:56	7/19/23 11:33		1.015	20.1	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	7/17/23 08:56	7/19/23 11:33		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	7/17/23 08:56	7/19/23 11:33		1	11.7	mg/L				
* Silicon, Dissolved	7/17/23 08:56	7/19/23 11:33		1.015	5.48	mg/L	0.02030	0.25375		
* Sodium, Dissolved	7/17/23 08:56	7/19/23 11:33		1.015	2.34	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	7/17/23 12:00	7/17/23 14:45		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Arsenic, Total	7/17/23 12:00	7/17/23 14:45		1.015	0.000148	mg/L	0.000112	0.000203	J	
* Aluminum, Total	7/17/23 12:00	7/17/23 14:45		1.015	Not Detected	mg/L	0.009135	0.05075	U	
* Barium, Total	7/17/23 12:00	7/17/23 14:45		1.015	0.0359	mg/L	0.000508	0.001015		
* Beryllium, Total	7/17/23 12:00	7/17/23 14:45		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	7/17/23 12:00	7/17/23 14:45		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	7/17/23 12:00	7/17/23 14:45		1.015	0.000560	mg/L	0.000203	0.001015	J	
* Cobalt, Total	7/17/23 12:00	7/17/23 14:45		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	7/17/23 12:00	7/17/23 14:45		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	7/17/23 12:00	7/17/23 14:45		1.015	0.00247	mg/L	0.000152	0.001015		

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-2

**Location Code:** WMWGASG  
**Collected:** 7/11/23 16:20  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12795

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/17/23 12:00	7/17/23 14:45		1.015	0.566	mg/L	0.169505	0.5075	
* Selenium, Total	7/17/23 12:00	7/17/23 14:45		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/17/23 12:00	7/17/23 14:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	7/17/23 08:56	7/17/23 11:33		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/17/23 08:56	7/17/23 11:33		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/17/23 08:56	7/17/23 11:33		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	7/17/23 08:56	7/17/23 11:33		1.015	0.0357	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/17/23 08:56	7/17/23 11:33		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/17/23 08:56	7/17/23 11:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/17/23 08:56	7/17/23 11:33		1.015	0.000680	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	7/17/23 08:56	7/17/23 11:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	7/17/23 08:56	7/17/23 11:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/17/23 08:56	7/17/23 11:33		1.015	0.000657	mg/L	0.000152	0.001015	J
* Potassium, Dissolved	7/17/23 08:56	7/17/23 11:33		1.015	0.863	mg/L	0.169505	0.5075	
* Selenium, Dissolved	7/17/23 08:56	7/17/23 11:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/17/23 08:56	7/17/23 11:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	7/18/23 12:52	7/18/23 18:24		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	7/13/23 14:31	7/13/23 14:31		1	0.467	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	7/17/23 10:37	7/17/23 14:47		1	267	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	7/13/23 11:25	7/18/23 14:00		1	291	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	7/17/23 10:37	7/17/23 14:47		1	266	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	7/17/23 10:37	7/17/23 14:47		1	0.908	mg CaCO3/L		0.5	
<b>Analytical Method: SM 4500H+ B</b>		<b>Analyst: DHC</b>							
Alkalinity pH Endpoint	7/17/23 10:37	7/17/23 14:47		1	4.49	SU		2	

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-2

**Location Code:** WMWGASG  
**Collected:** 7/11/23 16:20  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12795

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	7/13/23 21:52	7/13/23 21:52		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	7/13/23 14:26	7/13/23 14:26		1	3.58	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	7/14/23 13:40	7/14/23 13:40		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: CES</b>							
* Sulfate	7/21/23 10:58	7/21/23 10:58		1	6.77	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	7/11/23 16:17	7/11/23 16:17			507.59	uS/cm			FA
pH	7/11/23 16:17	7/11/23 16:17			7.04	SU			FA
Temperature	7/11/23 16:17	7/11/23 16:17			24.13	C			FA
Turbidity	7/11/23 16:17	7/11/23 16:17			2.24	NTU			FA
Sulfide	7/11/23 16:17	7/11/23 16:17			0	mg/L			FA

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/11/23 16:20  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-2

**Laboratory ID Number:** BD12795

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD12802	Aluminum, Dissolved	mg/L	-0.000164	0.0198	0.100	0.105	0.103	0.104	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD12802	Aluminum, Total	mg/L	0.000890	0.0198	0.100	0.139	0.135	0.114	0.0850 to 0.115	113	70.0 to 130	2.92	20.0
BD12802	Antimony, Dissolved	mg/L	0.000440	0.00100	0.100	0.0911	0.0932	0.0898	0.0850 to 0.115	91.1	70.0 to 130	2.28	20.0
BD12802	Antimony, Total	mg/L	0.000480	0.00100	0.100	0.0947	0.0958	0.0959	0.0850 to 0.115	94.7	70.0 to 130	1.15	20.0
BD12802	Arsenic, Dissolved	mg/L	0.0000143	0.000200	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD12802	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.102	0.0995	0.102	0.0850 to 0.115	102	70.0 to 130	2.48	20.0
BD12802	Barium, Dissolved	mg/L	0.0000152	0.00100	0.100	0.129	0.130	0.104	0.0850 to 0.115	104	70.0 to 130	0.772	20.0
BD12802	Barium, Total	mg/L	0.0000323	0.00100	0.100	0.129	0.130	0.105	0.0850 to 0.115	104	70.0 to 130	0.772	20.0
BD12802	Beryllium, Dissolved	mg/L	0.0000110	0.000880	0.100	0.0986	0.0933	0.0984	0.0850 to 0.115	98.6	70.0 to 130	5.52	20.0
BD12802	Beryllium, Total	mg/L	0.0000081	0.000880	0.100	0.0926	0.0946	0.0962	0.0850 to 0.115	92.6	70.0 to 130	2.14	20.0
BD12802	Boron, Dissolved	mg/L	0.000014	0.0650	1.00	1.02	1.02	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD12802	Boron, Total	mg/L	-0.000501	0.0650	1.00	1.02	1.02	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD12802	Cadmium, Dissolved	mg/L	0.0000047	0.000147	0.100	0.104	0.102	0.102	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD12802	Cadmium, Total	mg/L	0.0000090	0.000147	0.100	0.100	0.101	0.100	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD12802	Calcium, Dissolved	mg/L	0.00449	0.152	5.00	66.0	66.5	5.13	4.25 to 5.75	30.0	70.0 to 130	0.755	20.0
BD12802	Calcium, Total	mg/L	-0.0111	0.152	5.00	62.0	61.5	5.08	4.25 to 5.75	8.00	70.0 to 130	0.810	20.0
BD12802	Chloride	mg/L	-0.00598	1.00	10.0	12.6	12.7	9.93	9.00 to 11.0	102	80.0 to 120	0.791	20.0
BD12802	Chromium, Dissolved	mg/L	-0.0000223	0.000440	0.100	0.104	0.104	0.105	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD12802	Chromium, Total	mg/L	-0.0000974	0.000440	0.100	0.104	0.101	0.103	0.0850 to 0.115	103	70.0 to 130	2.93	20.0
BD12802	Cobalt, Dissolved	mg/L	-0.0000023	0.000147	0.100	0.104	0.103	0.106	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD12802	Cobalt, Total	mg/L	-0.0000015	0.000147	0.100	0.105	0.100	0.103	0.0850 to 0.115	105	70.0 to 130	4.88	20.0
BD12802	Fluoride	mg/L	0.038	0.125	2.50	2.67	2.69	2.70	2.25 to 2.75	107	80.0 to 120	0.746	20.0
BD12802	Iron, Dissolved	mg/L	-0.00150	0.0176	0.2	0.222	0.234	0.203	0.170 to 0.230	101	70.0 to 130	5.26	20.0
BD12802	Iron, Total	mg/L	-0.00158	0.0176	0.2	0.233	0.238	0.203	0.170 to 0.230	100	70.0 to 130	2.12	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/11/23 16:20  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-2

**Laboratory ID Number:** BD12795

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD12802	Lead, Dissolved	mg/L	0.0000159	0.000147	0.100	0.108	0.116	0.105	0.0850 to 0.115	108	70.0 to 130	7.14	20.0
BD12802	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.109	0.109	0.102	0.0850 to 0.115	109	70.0 to 130	0.00	20.0
BD12802	Lithium, Dissolved	mg/L	-0.00056	0.0154	0.200	0.201	0.198	0.196	0.170 to 0.230	100	70.0 to 130	1.50	20.0
BD12802	Lithium, Total	mg/L	0.000108	0.0154	0.200	0.208	0.205	0.200	0.170 to 0.230	104	70.0 to 130	1.45	20.0
BD12802	Magnesium, Dissolved	mg/L	-0.00231	0.0462	5.00	13.9	13.6	4.94	4.25 to 5.75	97.8	70.0 to 130	2.18	20.0
BD12802	Magnesium, Total	mg/L	0.00970	0.0462	5.00	13.9	13.9	4.97	4.25 to 5.75	98.2	70.0 to 130	0.00	20.0
BD12802	Manganese, Dissolved	mg/L	-0.0000472	0.00033	0.100	0.116	0.116	0.107	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD12802	Manganese, Total	mg/L	-0.0000467	0.00033	0.100	0.119	0.116	0.104	0.0850 to 0.115	105	70.0 to 130	2.55	20.0
BD12802	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00398	0.00399	0.00401	0.00340 to 0.00460	99.5	70.0 to 130	0.251	20.0
BD12802	Molybdenum, Dissolved	mg/L	0.00219	0.0100	0.2	0.196	0.198	0.197	0.170 to 0.230	98.0	70.0 to 130	1.02	20.0
BD12802	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.199	0.200	0.198	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD12802	Potassium, Dissolved	mg/L	0.0297	0.367	10.0	11.6	11.6	11.2	8.50 to 11.5	108	70.0 to 130	0.00	20.0
BD12802	Potassium, Total	mg/L	0.0159	0.367	10.0	11.9	11.8	11.2	8.50 to 11.5	111	70.0 to 130	0.844	20.0
BD12802	Selenium, Dissolved	mg/L	0.0000984	0.00100	0.100	0.106	0.105	0.108	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD12802	Selenium, Total	mg/L	0.0000416	0.00100	0.100	0.102	0.102	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD12802	Silicon, Dissolved	mg/L	-0.00168	0.0440	1.00	5.84	5.83	1.03	0.850 to 1.15	101	70.0 to 130	0.171	20.0
BD12802	Silicon, Total	mg/L	0.000428	0.0440	1.00	5.90	5.88	1.03	0.850 to 1.15	103	70.0 to 130	0.340	20.0
BD12802	Sodium, Dissolved	mg/L	0.00156	0.0880	5.00	13.2	12.9	4.94	4.25 to 5.75	102	70.0 to 130	2.30	20.0
BD12802	Sodium, Total	mg/L	0.00381	0.0880	5.00	13.5	13.3	4.96	4.25 to 5.75	103	70.0 to 130	1.49	20.0
BD12802	Sulfate	mg/L	-0.143	2.0	20.0	23.3	24.1	20.1	18.0 to 22.0	103	80.0 to 120	3.38	20.0
BD12802	Thallium, Dissolved	mg/L	0.0000065	0.000147	0.100	0.0996	0.114	0.100	0.0850 to 0.115	99.6	70.0 to 130	13.5	20.0
BD12802	Thallium, Total	mg/L	0.0000125	0.000147	0.100	0.102	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD12802	Total Organic Carbon	mg/L	0.122	1.00	10.0	10.4	9.64	10.1		104	80.0 to 120	7.58	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/11/23 16:20  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-2

**Laboratory ID Number:** BD12795

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BD12788	Alkalinity	mg CaCO3/L					145	50.3	45.0 to 55.0			0.687	10.0
BD12802	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.37	0.258	1.97	1.80 to 2.20	106	90.0 to 110	3.95	15.0
BD12795	Solids, Dissolved	mg/L	1.00	25.0			288	52.0	40.0 to 60.0			1.04	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum Field Blank-1

**Location Code:** WMWGASGFB  
**Collected:** 7/11/23 17:05  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12796

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	7/17/23 12:00	7/18/23 11:15		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	7/17/23 12:00	7/18/23 11:15		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	7/17/23 12:00	7/18/23 11:15		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	7/17/23 12:00	7/18/23 11:15		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	7/17/23 12:00	7/18/23 11:15		1.015	0.0226	mg/L	0.021315	0.406	J
* Molybdenum, Total	7/17/23 12:00	7/18/23 11:15		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	7/17/23 12:00	7/18/23 11:15		1	Not Detected	mg/L			
* Silicon, Total	7/17/23 12:00	7/18/23 11:15		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	7/17/23 12:00	7/18/23 11:15		1.015	Not Detected	mg/L	0.04060	0.406	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	7/17/23 12:00	7/17/23 14:49		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	7/17/23 12:00	7/17/23 14:49		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	7/17/23 12:00	7/17/23 14:49		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	7/17/23 12:00	7/17/23 14:49		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	7/17/23 12:00	7/17/23 14:49		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/17/23 12:00	7/17/23 14:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/17/23 12:00	7/17/23 14:49		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	7/17/23 12:00	7/17/23 14:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	7/17/23 12:00	7/17/23 14:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/17/23 12:00	7/17/23 14:49		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Potassium, Total	7/17/23 12:00	7/17/23 14:49		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	7/17/23 12:00	7/17/23 14:49		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/17/23 12:00	7/17/23 14:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	7/18/23 12:52	7/18/23 18:28		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	7/13/23 14:33	7/13/23 14:33		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	7/13/23 11:25	7/18/23 14:00		1	Not Detected	mg/L		25	U

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

**Comments:**

# Certificate Of Analysis

**Description:** Gaston Gypsum Field Blank-1

**Location Code:** WMWASGFB

**Collected:** 7/11/23 17:05

**Customer ID:**

**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12796

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	7/13/23 22:06	7/13/23 22:06		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	7/13/23 14:27	7/13/23 14:27		1	Not Detected	mg/L	0.50	1	U
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	7/14/23 13:41	7/14/23 13:41		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: CES</b>							
* Sulfate	7/21/23 11:07	7/21/23 11:07		1	Not Detected	mg/L	0.6	2	U

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

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**Comments:**

# Batch QC Summary

**Customer Account:** WMWGASGFB

**Sample Date:** 7/11/23 17:05

**Customer ID:**

**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum Field Blank-1

**Laboratory ID Number:** BD12796

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD12802	Aluminum, Total	mg/L	0.000890	0.0198	0.100	0.139	0.135	0.114	0.0850 to 0.115	113	70.0 to 130	2.92	20.0
BD12802	Antimony, Total	mg/L	0.000480	0.00100	0.100	0.0947	0.0958	0.0959	0.0850 to 0.115	94.7	70.0 to 130	1.15	20.0
BD12802	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.102	0.0995	0.102	0.0850 to 0.115	102	70.0 to 130	2.48	20.0
BD12802	Barium, Total	mg/L	0.0000323	0.00100	0.100	0.129	0.130	0.105	0.0850 to 0.115	104	70.0 to 130	0.772	20.0
BD12802	Beryllium, Total	mg/L	0.0000081	0.000880	0.100	0.0926	0.0946	0.0962	0.0850 to 0.115	92.6	70.0 to 130	2.14	20.0
BD12802	Boron, Total	mg/L	-0.000501	0.0650	1.00	1.02	1.02	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD12802	Cadmium, Total	mg/L	0.0000090	0.000147	0.100	0.100	0.101	0.100	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD12802	Calcium, Total	mg/L	-0.0111	0.152	5.00	62.0	61.5	5.08	4.25 to 5.75	8.00	70.0 to 130	0.810	20.0
BD12802	Chloride	mg/L	-0.00598	1.00	10.0	12.6	12.7	9.93	9.00 to 11.0	102	80.0 to 120	0.791	20.0
BD12802	Chromium, Total	mg/L	-0.0000974	0.000440	0.100	0.104	0.101	0.103	0.0850 to 0.115	103	70.0 to 130	2.93	20.0
BD12802	Cobalt, Total	mg/L	-0.0000015	0.000147	0.100	0.105	0.100	0.103	0.0850 to 0.115	105	70.0 to 130	4.88	20.0
BD12802	Fluoride	mg/L	0.038	0.125	2.50	2.67	2.69	2.70	2.25 to 2.75	107	80.0 to 120	0.746	20.0
BD12802	Iron, Total	mg/L	-0.00158	0.0176	0.2	0.233	0.238	0.203	0.170 to 0.230	100	70.0 to 130	2.12	20.0
BD12802	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.109	0.109	0.102	0.0850 to 0.115	109	70.0 to 130	0.00	20.0
BD12802	Lithium, Total	mg/L	0.000108	0.0154	0.200	0.208	0.205	0.200	0.170 to 0.230	104	70.0 to 130	1.45	20.0
BD12802	Magnesium, Total	mg/L	0.00970	0.0462	5.00	13.9	13.9	4.97	4.25 to 5.75	98.2	70.0 to 130	0.00	20.0
BD12802	Manganese, Total	mg/L	-0.0000467	0.00033	0.100	0.119	0.116	0.104	0.0850 to 0.115	105	70.0 to 130	2.55	20.0
BD12802	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00398	0.00399	0.00401	0.00340 to 0.00460	99.5	70.0 to 130	0.251	20.0
BD12802	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.199	0.200	0.198	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD12802	Potassium, Total	mg/L	0.0159	0.367	10.0	11.9	11.8	11.2	8.50 to 11.5	111	70.0 to 130	0.844	20.0
BD12802	Selenium, Total	mg/L	0.0000416	0.00100	0.100	0.102	0.102	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD12802	Silicon, Total	mg/L	0.000428	0.0440	1.00	5.90	5.88	1.03	0.850 to 1.15	103	70.0 to 130	0.340	20.0
BD12802	Sodium, Total	mg/L	0.00381	0.0880	5.00	13.5	13.3	4.96	4.25 to 5.75	103	70.0 to 130	1.49	20.0
BD12802	Sulfate	mg/L	-0.143	2.0	20.0	23.3	24.1	20.1	18.0 to 22.0	103	80.0 to 120	3.38	20.0

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGASGFB

**Sample Date:** 7/11/23 17:05

**Customer ID:**

**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum Field Blank-1

**Laboratory ID Number:** BD12796

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BD12802	Thallium, Total	mg/L	0.0000125	0.000147	0.100	0.102	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD12802	Total Organic Carbon	mg/L	0.122	1.00	10.0	10.4	9.64	10.1		104	80.0 to 120	7.58	20.0

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**Comments:**

# Batch QC Summary

**Customer Account:** WMWGASGFB  
**Sample Date:** 7/11/23 17:05  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum Field Blank-1

**Laboratory ID Number:** BD12796

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD12802	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.37	0.258	1.97	1.80 to 2.20	106	90.0 to 110	3.95	15.0
BD12795	Solids, Dissolved	mg/L	1.00	25.0			288	52.0	40.0 to 60.0			1.04	10.0

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**Comments:**



# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-15

**Location Code:** WMWGASG  
**Collected:** 7/12/23 10:23  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12797

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	7/17/23 12:00	7/18/23 11:18		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	7/17/23 12:00	7/18/23 11:18		1.015	3.81	mg/L	0.070035	0.406		
* Iron, Total	7/17/23 12:00	7/18/23 11:18		1.015	0.245	mg/L	0.008120	0.0406		
* Lithium, Total	7/17/23 12:00	7/18/23 11:18		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	7/17/23 12:00	7/18/23 11:18		1.015	0.279	mg/L	0.021315	0.406	J	
* Molybdenum, Total	7/17/23 12:00	7/18/23 11:18		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	7/17/23 12:00	7/18/23 11:18		1	9.42	mg/L				
* Silicon, Total	7/17/23 12:00	7/18/23 11:18		1.015	4.40	mg/L	0.02030	0.25375		
* Sodium, Total	7/17/23 12:00	7/18/23 11:18		1.015	1.07	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	7/17/23 08:56	7/19/23 11:37		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	7/17/23 08:56	7/19/23 11:37		1.015	4.36	mg/L	0.070035	0.406		
* Iron, Dissolved	7/17/23 08:56	7/19/23 11:37		1.015	0.215	mg/L	0.008120	0.0406		
* Lithium, Dissolved	7/17/23 08:56	7/19/23 11:37		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	7/17/23 08:56	7/19/23 11:37		1.015	0.425	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	7/17/23 08:56	7/19/23 11:37		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	7/17/23 08:56	7/19/23 11:37		1	9.31	mg/L				
* Silicon, Dissolved	7/17/23 08:56	7/19/23 11:37		1.015	4.35	mg/L	0.02030	0.25375		
* Sodium, Dissolved	7/17/23 08:56	7/19/23 11:37		1.015	1.04	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	7/17/23 12:00	7/17/23 14:53		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	7/17/23 12:00	7/17/23 14:53		1.015	0.0680	mg/L	0.009135	0.05075		
* Arsenic, Total	7/17/23 12:00	7/17/23 14:53		1.015	0.000216	mg/L	0.000112	0.000203		
* Barium, Total	7/17/23 12:00	7/17/23 14:53		1.015	0.00706	mg/L	0.000508	0.001015		
* Beryllium, Total	7/17/23 12:00	7/17/23 14:53		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	7/17/23 12:00	7/17/23 14:53		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	7/17/23 12:00	7/17/23 14:53		1.015	0.000272	mg/L	0.000203	0.001015	J	
* Cobalt, Total	7/17/23 12:00	7/17/23 14:53		1.015	0.000541	mg/L	0.000068	0.000203		
* Lead, Total	7/17/23 12:00	7/17/23 14:53		1.015	0.000122	mg/L	0.000068	0.000203	J	
* Manganese, Total	7/17/23 12:00	7/17/23 14:53		1.015	0.0540	mg/L	0.000152	0.001015		

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-15

**Location Code:** WMWGASG  
**Collected:** 7/12/23 10:23  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12797

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/17/23 12:00	7/17/23 14:53		1.015	0.257	mg/L	0.169505	0.5075	J
* Selenium, Total	7/17/23 12:00	7/17/23 14:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/17/23 12:00	7/17/23 14:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	7/17/23 08:56	7/17/23 11:36		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/17/23 08:56	7/17/23 11:36		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/17/23 08:56	7/17/23 11:36		1.015	0.000189	mg/L	0.000112	0.000203	J
* Barium, Dissolved	7/17/23 08:56	7/17/23 11:36		1.015	0.00666	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/17/23 08:56	7/17/23 11:36		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/17/23 08:56	7/17/23 11:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/17/23 08:56	7/17/23 11:36		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/17/23 08:56	7/17/23 11:36		1.015	0.000495	mg/L	0.000068	0.000203	
* Lead, Dissolved	7/17/23 08:56	7/17/23 11:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/17/23 08:56	7/17/23 11:36		1.015	0.0551	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/17/23 08:56	7/17/23 11:36		1.015	0.256	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	7/17/23 08:56	7/17/23 11:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/17/23 08:56	7/17/23 11:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	7/18/23 12:52	7/18/23 18:31		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	7/13/23 14:35	7/13/23 14:35		1	0.237	mg/L as N	0.20	0.3	J
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	7/21/23 09:31	7/21/23 11:47		1	8.43	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	7/13/23 11:25	7/18/23 14:00		1	32.0	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	7/21/23 09:31	7/21/23 11:47		1	8.42	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	7/21/23 09:31	7/21/23 11:47		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 4500H+ B</b>		<b>Analyst: DHC</b>							
Alkalinity pH Endpoint	7/21/23 09:31	7/21/23 11:47		1	4.17	SU		2	

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-15

**Location Code:** WMWGASG  
**Collected:** 7/12/23 10:23  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12797

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	7/13/23 22:21	7/13/23 22:21		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	7/13/23 14:28	7/13/23 14:28		1	2.04	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	7/14/23 13:42	7/14/23 13:42		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: CES</b>							
* Sulfate	7/21/23 10:59	7/21/23 10:59		1	8.91	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	7/12/23 10:19	7/12/23 10:19			30.52	uS/cm			FA
pH	7/12/23 10:19	7/12/23 10:19			5.38	SU			FA
Temperature	7/12/23 10:19	7/12/23 10:19			20.95	C			FA
Turbidity	7/12/23 10:19	7/12/23 10:19			8.04	NTU			FA
Sulfide	7/12/23 10:19	7/12/23 10:19			0	mg/L			FA

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/12/23 10:23  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-15

**Laboratory ID Number:** BD12797

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD12802	Aluminum, Dissolved	mg/L	-0.000164	0.0198	0.100	0.105	0.103	0.104	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD12802	Aluminum, Total	mg/L	0.000890	0.0198	0.100	0.139	0.135	0.114	0.0850 to 0.115	113	70.0 to 130	2.92	20.0
BD12802	Antimony, Dissolved	mg/L	0.000440	0.00100	0.100	0.0911	0.0932	0.0898	0.0850 to 0.115	91.1	70.0 to 130	2.28	20.0
BD12802	Antimony, Total	mg/L	0.000480	0.00100	0.100	0.0947	0.0958	0.0959	0.0850 to 0.115	94.7	70.0 to 130	1.15	20.0
BD12802	Arsenic, Dissolved	mg/L	0.0000143	0.000200	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD12802	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.102	0.0995	0.102	0.0850 to 0.115	102	70.0 to 130	2.48	20.0
BD12802	Barium, Dissolved	mg/L	0.0000152	0.00100	0.100	0.129	0.130	0.104	0.0850 to 0.115	104	70.0 to 130	0.772	20.0
BD12802	Barium, Total	mg/L	0.0000323	0.00100	0.100	0.129	0.130	0.105	0.0850 to 0.115	104	70.0 to 130	0.772	20.0
BD12802	Beryllium, Dissolved	mg/L	0.0000110	0.000880	0.100	0.0986	0.0933	0.0984	0.0850 to 0.115	98.6	70.0 to 130	5.52	20.0
BD12802	Beryllium, Total	mg/L	0.0000081	0.000880	0.100	0.0926	0.0946	0.0962	0.0850 to 0.115	92.6	70.0 to 130	2.14	20.0
BD12802	Boron, Dissolved	mg/L	0.000014	0.0650	1.00	1.02	1.02	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD12802	Boron, Total	mg/L	-0.000501	0.0650	1.00	1.02	1.02	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD12802	Cadmium, Dissolved	mg/L	0.0000047	0.000147	0.100	0.104	0.102	0.102	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD12802	Cadmium, Total	mg/L	0.0000090	0.000147	0.100	0.100	0.101	0.100	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD12802	Calcium, Dissolved	mg/L	0.00449	0.152	5.00	66.0	66.5	5.13	4.25 to 5.75	30.0	70.0 to 130	0.755	20.0
BD12802	Calcium, Total	mg/L	-0.0111	0.152	5.00	62.0	61.5	5.08	4.25 to 5.75	8.00	70.0 to 130	0.810	20.0
BD12802	Chloride	mg/L	-0.00598	1.00	10.0	12.6	12.7	9.93	9.00 to 11.0	102	80.0 to 120	0.791	20.0
BD12802	Chromium, Dissolved	mg/L	-0.0000223	0.000440	0.100	0.104	0.104	0.105	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD12802	Chromium, Total	mg/L	-0.0000974	0.000440	0.100	0.104	0.101	0.103	0.0850 to 0.115	103	70.0 to 130	2.93	20.0
BD12802	Cobalt, Dissolved	mg/L	-0.0000023	0.000147	0.100	0.104	0.103	0.106	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD12802	Cobalt, Total	mg/L	-0.0000015	0.000147	0.100	0.105	0.100	0.103	0.0850 to 0.115	105	70.0 to 130	4.88	20.0
BD12802	Fluoride	mg/L	0.038	0.125	2.50	2.67	2.69	2.70	2.25 to 2.75	107	80.0 to 120	0.746	20.0
BD12802	Iron, Dissolved	mg/L	-0.00150	0.0176	0.2	0.222	0.234	0.203	0.170 to 0.230	101	70.0 to 130	5.26	20.0
BD12802	Iron, Total	mg/L	-0.00158	0.0176	0.2	0.233	0.238	0.203	0.170 to 0.230	100	70.0 to 130	2.12	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/12/23 10:23  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-15

**Laboratory ID Number:** BD12797

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD12802	Lead, Dissolved	mg/L	0.0000159	0.000147	0.100	0.108	0.116	0.105	0.0850 to 0.115	108	70.0 to 130	7.14	20.0
BD12802	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.109	0.109	0.102	0.0850 to 0.115	109	70.0 to 130	0.00	20.0
BD12802	Lithium, Dissolved	mg/L	-0.00056	0.0154	0.200	0.201	0.198	0.196	0.170 to 0.230	100	70.0 to 130	1.50	20.0
BD12802	Lithium, Total	mg/L	0.000108	0.0154	0.200	0.208	0.205	0.200	0.170 to 0.230	104	70.0 to 130	1.45	20.0
BD12802	Magnesium, Dissolved	mg/L	-0.00231	0.0462	5.00	13.9	13.6	4.94	4.25 to 5.75	97.8	70.0 to 130	2.18	20.0
BD12802	Magnesium, Total	mg/L	0.00970	0.0462	5.00	13.9	13.9	4.97	4.25 to 5.75	98.2	70.0 to 130	0.00	20.0
BD12802	Manganese, Dissolved	mg/L	-0.0000472	0.00033	0.100	0.116	0.116	0.107	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD12802	Manganese, Total	mg/L	-0.0000467	0.00033	0.100	0.119	0.116	0.104	0.0850 to 0.115	105	70.0 to 130	2.55	20.0
BD12802	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00398	0.00399	0.00401	0.00340 to 0.00460	99.5	70.0 to 130	0.251	20.0
BD12802	Molybdenum, Dissolved	mg/L	0.00219	0.0100	0.2	0.196	0.198	0.197	0.170 to 0.230	98.0	70.0 to 130	1.02	20.0
BD12802	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.199	0.200	0.198	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD12802	Potassium, Dissolved	mg/L	0.0297	0.367	10.0	11.6	11.6	11.2	8.50 to 11.5	108	70.0 to 130	0.00	20.0
BD12802	Potassium, Total	mg/L	0.0159	0.367	10.0	11.9	11.8	11.2	8.50 to 11.5	111	70.0 to 130	0.844	20.0
BD12802	Selenium, Dissolved	mg/L	0.0000984	0.00100	0.100	0.106	0.105	0.108	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD12802	Selenium, Total	mg/L	0.0000416	0.00100	0.100	0.102	0.102	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD12802	Silicon, Dissolved	mg/L	-0.00168	0.0440	1.00	5.84	5.83	1.03	0.850 to 1.15	101	70.0 to 130	0.171	20.0
BD12802	Silicon, Total	mg/L	0.000428	0.0440	1.00	5.90	5.88	1.03	0.850 to 1.15	103	70.0 to 130	0.340	20.0
BD12802	Sodium, Dissolved	mg/L	0.00156	0.0880	5.00	13.2	12.9	4.94	4.25 to 5.75	102	70.0 to 130	2.30	20.0
BD12802	Sodium, Total	mg/L	0.00381	0.0880	5.00	13.5	13.3	4.96	4.25 to 5.75	103	70.0 to 130	1.49	20.0
BD12802	Sulfate	mg/L	-0.143	2.0	20.0	23.3	24.1	20.1	18.0 to 22.0	103	80.0 to 120	3.38	20.0
BD12802	Thallium, Dissolved	mg/L	0.0000065	0.000147	0.100	0.0996	0.114	0.100	0.0850 to 0.115	99.6	70.0 to 130	13.5	20.0
BD12802	Thallium, Total	mg/L	0.0000125	0.000147	0.100	0.102	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD12802	Total Organic Carbon	mg/L	0.122	1.00	10.0	10.4	9.64	10.1		104	80.0 to 120	7.58	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/12/23 10:23  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-15

**Laboratory ID Number:** BD12797

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD12802	Alkalinity	mg CaCO3/L					181	52.2	45.0 to 55.0			0.554	10.0
BD12802	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.37	0.258	1.97	1.80 to 2.20	106	90.0 to 110	3.95	15.0
BD12795	Solids, Dissolved	mg/L	1.00	25.0			288	52.0	40.0 to 60.0			1.04	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum Field Blank-2

**Location Code:** WMWASGFB  
**Collected:** 7/12/23 11:05  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12798

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	7/17/23 12:00	7/18/23 11:21		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	7/17/23 12:00	7/18/23 11:21		1.015	Not Detected	mg/L	0.070035	0.406	U	
* Iron, Total	7/17/23 12:00	7/18/23 11:21		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	7/17/23 12:00	7/18/23 11:21		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	7/17/23 12:00	7/18/23 11:21		1.015	Not Detected	mg/L	0.021315	0.406	U	
* Molybdenum, Total	7/17/23 12:00	7/18/23 11:21		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	7/17/23 12:00	7/18/23 11:21		1	Not Detected	mg/L				
* Silicon, Total	7/17/23 12:00	7/18/23 11:21		1.015	Not Detected	mg/L	0.02030	0.25375	U	
* Sodium, Total	7/17/23 12:00	7/18/23 11:21		1.015	Not Detected	mg/L	0.04060	0.406	U	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	7/17/23 12:00	7/17/23 14:56		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Arsenic, Total	7/17/23 12:00	7/17/23 14:56		1.015	Not Detected	mg/L	0.000112	0.000203	U	
* Aluminum, Total	7/17/23 12:00	7/17/23 14:56		1.015	Not Detected	mg/L	0.009135	0.05075	U	
* Barium, Total	7/17/23 12:00	7/17/23 14:56		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Beryllium, Total	7/17/23 12:00	7/17/23 14:56		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	7/17/23 12:00	7/17/23 14:56		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	7/17/23 12:00	7/17/23 14:56		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	7/17/23 12:00	7/17/23 14:56		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	7/17/23 12:00	7/17/23 14:56		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	7/17/23 12:00	7/17/23 14:56		1.015	Not Detected	mg/L	0.000152	0.001015	U	
* Potassium, Total	7/17/23 12:00	7/17/23 14:56		1.015	Not Detected	mg/L	0.169505	0.5075	U	
* Selenium, Total	7/17/23 12:00	7/17/23 14:56		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	7/17/23 12:00	7/17/23 14:56		1.015	Not Detected	mg/L	0.000068	0.000203	U	
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>								
* Mercury, Total by CVAA	7/18/23 12:52	7/18/23 18:35		1	Not Detected	mg/L	0.0003	0.0005	U	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>								
* Nitrogen, Nitrate/Nitrite	7/13/23 14:37	7/13/23 14:37		1	Not Detected	mg/L as N	0.20	0.3	U	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>								
* Solids, Dissolved	7/18/23 09:42	7/19/23 13:35		1	Not Detected	mg/L		25	U	

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

**Comments:**

# Certificate Of Analysis

**Description:** Gaston Gypsum Field Blank-2

**Location Code:** WMWGASGFB

**Collected:** 7/12/23 11:05

**Customer ID:**

**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12798

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	7/13/23 22:33	7/13/23 22:33		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	7/13/23 14:29	7/13/23 14:29		1	Not Detected	mg/L	0.50	1	U
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	7/14/23 13:44	7/14/23 13:44		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: CES</b>							
* Sulfate	7/21/23 11:08	7/21/23 11:08		1	Not Detected	mg/L	0.6	2	U

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

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**Comments:**



# Batch QC Summary

**Customer Account:** WMWGASGFB

**Sample Date:** 7/12/23 11:05

**Customer ID:**

**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum Field Blank-2

**Laboratory ID Number:** BD12798

Sample	Analysis	Units	MB				Standard		Rec		Prec	Limit	
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec			Limit
BD12802	Aluminum, Total	mg/L	0.000890	0.0198	0.100	0.139	0.135	0.114	0.0850 to 0.115	113	70.0 to 130	2.92	20.0
BD12802	Antimony, Total	mg/L	0.000480	0.00100	0.100	0.0947	0.0958	0.0959	0.0850 to 0.115	94.7	70.0 to 130	1.15	20.0
BD12802	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.102	0.0995	0.102	0.0850 to 0.115	102	70.0 to 130	2.48	20.0
BD12802	Barium, Total	mg/L	0.0000323	0.00100	0.100	0.129	0.130	0.105	0.0850 to 0.115	104	70.0 to 130	0.772	20.0
BD12802	Beryllium, Total	mg/L	0.0000081	0.000880	0.100	0.0926	0.0946	0.0962	0.0850 to 0.115	92.6	70.0 to 130	2.14	20.0
BD12802	Boron, Total	mg/L	-0.000501	0.0650	1.00	1.02	1.02	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD12802	Cadmium, Total	mg/L	0.0000090	0.000147	0.100	0.100	0.101	0.100	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD12802	Calcium, Total	mg/L	-0.0111	0.152	5.00	62.0	61.5	5.08	4.25 to 5.75	8.00	70.0 to 130	0.810	20.0
BD12802	Chloride	mg/L	-0.00598	1.00	10.0	12.6	12.7	9.93	9.00 to 11.0	102	80.0 to 120	0.791	20.0
BD12802	Chromium, Total	mg/L	-0.0000974	0.000440	0.100	0.104	0.101	0.103	0.0850 to 0.115	103	70.0 to 130	2.93	20.0
BD12802	Cobalt, Total	mg/L	-0.0000015	0.000147	0.100	0.105	0.100	0.103	0.0850 to 0.115	105	70.0 to 130	4.88	20.0
BD12802	Fluoride	mg/L	0.038	0.125	2.50	2.67	2.69	2.70	2.25 to 2.75	107	80.0 to 120	0.746	20.0
BD12802	Iron, Total	mg/L	-0.00158	0.0176	0.2	0.233	0.238	0.203	0.170 to 0.230	100	70.0 to 130	2.12	20.0
BD12802	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.109	0.109	0.102	0.0850 to 0.115	109	70.0 to 130	0.00	20.0
BD12802	Lithium, Total	mg/L	0.000108	0.0154	0.200	0.208	0.205	0.200	0.170 to 0.230	104	70.0 to 130	1.45	20.0
BD12802	Magnesium, Total	mg/L	0.00970	0.0462	5.00	13.9	13.9	4.97	4.25 to 5.75	98.2	70.0 to 130	0.00	20.0
BD12802	Manganese, Total	mg/L	-0.0000467	0.00033	0.100	0.119	0.116	0.104	0.0850 to 0.115	105	70.0 to 130	2.55	20.0
BD12802	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00398	0.00399	0.00401	0.00340 to 0.00460	99.5	70.0 to 130	0.251	20.0
BD12802	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.199	0.200	0.198	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD12802	Potassium, Total	mg/L	0.0159	0.367	10.0	11.9	11.8	11.2	8.50 to 11.5	111	70.0 to 130	0.844	20.0
BD12802	Selenium, Total	mg/L	0.0000416	0.00100	0.100	0.102	0.102	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD12802	Silicon, Total	mg/L	0.000428	0.0440	1.00	5.90	5.88	1.03	0.850 to 1.15	103	70.0 to 130	0.340	20.0
BD12802	Sodium, Total	mg/L	0.00381	0.0880	5.00	13.5	13.3	4.96	4.25 to 5.75	103	70.0 to 130	1.49	20.0
BD12802	Sulfate	mg/L	-0.143	2.0	20.0	23.3	24.1	20.1	18.0 to 22.0	103	80.0 to 120	3.38	20.0

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGASGFB

**Sample Date:** 7/12/23 11:05

**Customer ID:**

**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum Field Blank-2

**Laboratory ID Number:** BD12798

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BD12802	Thallium, Total	mg/L	0.0000125	0.000147	0.100	0.102	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD12802	Total Organic Carbon	mg/L	0.122	1.00	10.0	10.4	9.64	10.1		104	80.0 to 120	7.58	20.0

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**Comments:**

## Batch QC Summary

**Customer Account:** WMWGASGFB

**Sample Date:** 7/12/23 11:05

**Customer ID:**

**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum Field Blank-2

**Laboratory ID Number:** BD12798

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BD12802	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.37	0.258	1.97	1.80 to 2.20	106	90.0 to 110	3.95	15.0
BD12802	Solids, Dissolved	mg/L	0.0000	25.0			190	54.0	40.0 to 60.0			1.05	10.0

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**Comments:**

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-3

**Location Code:** WMWGASG  
**Collected:** 7/12/23 11:55  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12799

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	7/17/23 12:00	7/18/23 11:25		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	7/17/23 12:00	7/18/23 12:58		10.15	78.4	mg/L	0.70035	4.06		
* Iron, Total	7/17/23 12:00	7/18/23 11:25		1.015	0.0396	mg/L	0.008120	0.0406	J	
* Lithium, Total	7/17/23 12:00	7/18/23 11:25		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	7/17/23 12:00	7/18/23 11:25		1.015	2.68	mg/L	0.021315	0.406		
* Molybdenum, Total	7/17/23 12:00	7/18/23 11:25		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	7/17/23 12:00	7/18/23 11:25		1	7.83	mg/L				
* Silicon, Total	7/17/23 12:00	7/18/23 11:25		1.015	3.66	mg/L	0.02030	0.25375		
* Sodium, Total	7/17/23 12:00	7/18/23 11:25		1.015	4.36	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	7/17/23 08:56	7/19/23 11:40		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	7/17/23 08:56	7/19/23 13:44		10.15	82.8	mg/L	0.70035	4.06		
* Iron, Dissolved	7/17/23 08:56	7/19/23 11:40		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	7/17/23 08:56	7/19/23 11:40		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	7/17/23 08:56	7/19/23 11:40		1.015	2.57	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	7/17/23 08:56	7/19/23 11:40		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	7/17/23 08:56	7/19/23 11:40		1	7.79	mg/L				
* Silicon, Dissolved	7/17/23 08:56	7/19/23 11:40		1.015	3.64	mg/L	0.02030	0.25375		
* Sodium, Dissolved	7/17/23 08:56	7/19/23 11:40		1.015	4.26	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	7/17/23 12:00	7/17/23 15:00		1.015	0.00123	mg/L	0.000710	0.001015		
* Aluminum, Total	7/17/23 12:00	7/17/23 15:00		1.015	0.0667	mg/L	0.009135	0.05075		
* Arsenic, Total	7/17/23 12:00	7/17/23 15:00		1.015	0.000127	mg/L	0.000112	0.000203	J	
* Barium, Total	7/17/23 12:00	7/17/23 15:00		1.015	0.0279	mg/L	0.000508	0.001015		
* Beryllium, Total	7/17/23 12:00	7/17/23 15:00		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	7/17/23 12:00	7/17/23 15:00		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	7/17/23 12:00	7/17/23 15:00		1.015	0.000378	mg/L	0.000203	0.001015	J	
* Cobalt, Total	7/17/23 12:00	7/17/23 15:00		1.015	0.000386	mg/L	0.000068	0.000203		
* Lead, Total	7/17/23 12:00	7/17/23 15:00		1.015	0.000187	mg/L	0.000068	0.000203	J	
* Manganese, Total	7/17/23 12:00	7/17/23 15:00		1.015	0.0584	mg/L	0.000152	0.001015		

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-3

**Location Code:** WMWGASG  
**Collected:** 7/12/23 11:55  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12799

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/17/23 12:00	7/17/23 15:00		1.015	7.82	mg/L	0.169505	0.5075	
* Selenium, Total	7/17/23 12:00	7/17/23 15:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/17/23 12:00	7/17/23 15:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	7/17/23 08:56	7/17/23 11:40		1.015	0.000820	mg/L	0.000710	0.001015	J
* Aluminum, Dissolved	7/17/23 08:56	7/17/23 11:40		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/17/23 08:56	7/17/23 11:40		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	7/17/23 08:56	7/17/23 11:40		1.015	0.0247	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/17/23 08:56	7/17/23 11:40		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/17/23 08:56	7/17/23 11:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/17/23 08:56	7/17/23 11:40		1.015	0.000304	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	7/17/23 08:56	7/17/23 11:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	7/17/23 08:56	7/17/23 11:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/17/23 08:56	7/17/23 11:40		1.015	0.00685	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/17/23 08:56	7/17/23 11:40		1.015	7.69	mg/L	0.169505	0.5075	
* Selenium, Dissolved	7/17/23 08:56	7/17/23 11:40		1.015	0.000599	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	7/17/23 08:56	7/17/23 11:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	7/18/23 12:52	7/18/23 18:39		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	7/13/23 14:37	7/13/23 14:37		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	7/21/23 09:31	7/21/23 11:47		1	203	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	7/18/23 09:42	7/19/23 13:35		1	227	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	7/21/23 09:31	7/21/23 11:47		1	202	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	7/21/23 09:31	7/21/23 11:47		1	1.14	mg CaCO3/L		0.5	
<b>Analytical Method: SM 4500H+ B</b>		<b>Analyst: DHC</b>							
Alkalinity pH Endpoint	7/21/23 09:31	7/21/23 11:47		1	4.47	SU		2	

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-3

**Location Code:** WMWGASG  
**Collected:** 7/12/23 11:55  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12799

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	7/13/23 22:45	7/13/23 22:45		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	7/13/23 14:30	7/13/23 14:30		1	2.79	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	7/14/23 13:45	7/14/23 13:45		1	0.0634	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: CES</b>							
* Sulfate	7/21/23 11:01	7/21/23 11:01		1	8.92	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	7/12/23 11:50	7/12/23 11:50			359.76	uS/cm			FA
pH	7/12/23 11:50	7/12/23 11:50			6.21	SU			FA
Temperature	7/12/23 11:50	7/12/23 11:50			21.46	C			FA
Turbidity	7/12/23 11:50	7/12/23 11:50			9.94	NTU			FA
Sulfide	7/12/23 11:50	7/12/23 11:50			0	mg/L			FA

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/12/23 11:55  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-3

**Laboratory ID Number:** BD12799

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD12802	Aluminum, Dissolved	mg/L	-0.000164	0.0198	0.100	0.105	0.103	0.104	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD12802	Aluminum, Total	mg/L	0.000890	0.0198	0.100	0.139	0.135	0.114	0.0850 to 0.115	113	70.0 to 130	2.92	20.0
BD12802	Antimony, Dissolved	mg/L	0.000440	0.00100	0.100	0.0911	0.0932	0.0898	0.0850 to 0.115	91.1	70.0 to 130	2.28	20.0
BD12802	Antimony, Total	mg/L	0.000480	0.00100	0.100	0.0947	0.0958	0.0959	0.0850 to 0.115	94.7	70.0 to 130	1.15	20.0
BD12802	Arsenic, Dissolved	mg/L	0.0000143	0.000200	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD12802	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.102	0.0995	0.102	0.0850 to 0.115	102	70.0 to 130	2.48	20.0
BD12802	Barium, Dissolved	mg/L	0.0000152	0.00100	0.100	0.129	0.130	0.104	0.0850 to 0.115	104	70.0 to 130	0.772	20.0
BD12802	Barium, Total	mg/L	0.0000323	0.00100	0.100	0.129	0.130	0.105	0.0850 to 0.115	104	70.0 to 130	0.772	20.0
BD12802	Beryllium, Dissolved	mg/L	0.0000110	0.000880	0.100	0.0986	0.0933	0.0984	0.0850 to 0.115	98.6	70.0 to 130	5.52	20.0
BD12802	Beryllium, Total	mg/L	0.0000081	0.000880	0.100	0.0926	0.0946	0.0962	0.0850 to 0.115	92.6	70.0 to 130	2.14	20.0
BD12802	Boron, Dissolved	mg/L	0.000014	0.0650	1.00	1.02	1.02	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD12802	Boron, Total	mg/L	-0.000501	0.0650	1.00	1.02	1.02	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD12802	Cadmium, Dissolved	mg/L	0.0000047	0.000147	0.100	0.104	0.102	0.102	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD12802	Cadmium, Total	mg/L	0.0000090	0.000147	0.100	0.100	0.101	0.100	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD12802	Calcium, Dissolved	mg/L	0.00449	0.152	5.00	66.0	66.5	5.13	4.25 to 5.75	30.0	70.0 to 130	0.755	20.0
BD12802	Calcium, Total	mg/L	-0.0111	0.152	5.00	62.0	61.5	5.08	4.25 to 5.75	8.00	70.0 to 130	0.810	20.0
BD12802	Chloride	mg/L	-0.00598	1.00	10.0	12.6	12.7	9.93	9.00 to 11.0	102	80.0 to 120	0.791	20.0
BD12802	Chromium, Dissolved	mg/L	-0.0000223	0.000440	0.100	0.104	0.104	0.105	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD12802	Chromium, Total	mg/L	-0.0000974	0.000440	0.100	0.104	0.101	0.103	0.0850 to 0.115	103	70.0 to 130	2.93	20.0
BD12802	Cobalt, Dissolved	mg/L	-0.0000023	0.000147	0.100	0.104	0.103	0.106	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD12802	Cobalt, Total	mg/L	-0.0000015	0.000147	0.100	0.105	0.100	0.103	0.0850 to 0.115	105	70.0 to 130	4.88	20.0
BD12802	Fluoride	mg/L	0.038	0.125	2.50	2.67	2.69	2.70	2.25 to 2.75	107	80.0 to 120	0.746	20.0
BD12802	Iron, Dissolved	mg/L	-0.00150	0.0176	0.2	0.222	0.234	0.203	0.170 to 0.230	101	70.0 to 130	5.26	20.0
BD12802	Iron, Total	mg/L	-0.00158	0.0176	0.2	0.233	0.238	0.203	0.170 to 0.230	100	70.0 to 130	2.12	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/12/23 11:55  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-3

**Laboratory ID Number:** BD12799

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD12802	Lead, Dissolved	mg/L	0.0000159	0.000147	0.100	0.108	0.116	0.105	0.0850 to 0.115	108	70.0 to 130	7.14	20.0
BD12802	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.109	0.109	0.102	0.0850 to 0.115	109	70.0 to 130	0.00	20.0
BD12802	Lithium, Dissolved	mg/L	-0.00056	0.0154	0.200	0.201	0.198	0.196	0.170 to 0.230	100	70.0 to 130	1.50	20.0
BD12802	Lithium, Total	mg/L	0.000108	0.0154	0.200	0.208	0.205	0.200	0.170 to 0.230	104	70.0 to 130	1.45	20.0
BD12802	Magnesium, Dissolved	mg/L	-0.00231	0.0462	5.00	13.9	13.6	4.94	4.25 to 5.75	97.8	70.0 to 130	2.18	20.0
BD12802	Magnesium, Total	mg/L	0.00970	0.0462	5.00	13.9	13.9	4.97	4.25 to 5.75	98.2	70.0 to 130	0.00	20.0
BD12802	Manganese, Dissolved	mg/L	-0.0000472	0.00033	0.100	0.116	0.116	0.107	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD12802	Manganese, Total	mg/L	-0.0000467	0.00033	0.100	0.119	0.116	0.104	0.0850 to 0.115	105	70.0 to 130	2.55	20.0
BD12802	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00398	0.00399	0.00401	0.00340 to 0.00460	99.5	70.0 to 130	0.251	20.0
BD12802	Molybdenum, Dissolved	mg/L	0.00219	0.0100	0.2	0.196	0.198	0.197	0.170 to 0.230	98.0	70.0 to 130	1.02	20.0
BD12802	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.199	0.200	0.198	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD12802	Potassium, Dissolved	mg/L	0.0297	0.367	10.0	11.6	11.6	11.2	8.50 to 11.5	108	70.0 to 130	0.00	20.0
BD12802	Potassium, Total	mg/L	0.0159	0.367	10.0	11.9	11.8	11.2	8.50 to 11.5	111	70.0 to 130	0.844	20.0
BD12802	Selenium, Dissolved	mg/L	0.0000984	0.00100	0.100	0.106	0.105	0.108	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD12802	Selenium, Total	mg/L	0.0000416	0.00100	0.100	0.102	0.102	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD12802	Silicon, Dissolved	mg/L	-0.00168	0.0440	1.00	5.84	5.83	1.03	0.850 to 1.15	101	70.0 to 130	0.171	20.0
BD12802	Silicon, Total	mg/L	0.000428	0.0440	1.00	5.90	5.88	1.03	0.850 to 1.15	103	70.0 to 130	0.340	20.0
BD12802	Sodium, Dissolved	mg/L	0.00156	0.0880	5.00	13.2	12.9	4.94	4.25 to 5.75	102	70.0 to 130	2.30	20.0
BD12802	Sodium, Total	mg/L	0.00381	0.0880	5.00	13.5	13.3	4.96	4.25 to 5.75	103	70.0 to 130	1.49	20.0
BD12802	Sulfate	mg/L	-0.143	2.0	20.0	23.3	24.1	20.1	18.0 to 22.0	103	80.0 to 120	3.38	20.0
BD12802	Thallium, Dissolved	mg/L	0.0000065	0.000147	0.100	0.0996	0.114	0.100	0.0850 to 0.115	99.6	70.0 to 130	13.5	20.0
BD12802	Thallium, Total	mg/L	0.0000125	0.000147	0.100	0.102	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD12802	Total Organic Carbon	mg/L	0.122	1.00	10.0	10.4	9.64	10.1		104	80.0 to 120	7.58	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



## Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/12/23 11:55  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-3

**Laboratory ID Number:** BD12799

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BD12802	Alkalinity	mg CaCO3/L					181	52.2	45.0 to 55.0			0.554	10.0
BD12802	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.37	0.258	1.97	1.80 to 2.20	106	90.0 to 110	3.95	15.0
BD12802	Solids, Dissolved	mg/L	0.0000	25.0			190	54.0	40.0 to 60.0			1.05	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum Equipment Blank-1

**Location Code:** WMWGASGEB  
**Collected:** 7/12/23 12:30  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12800

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	7/17/23 12:00	7/18/23 11:28		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	7/17/23 12:00	7/18/23 11:28		1.015	Not Detected	mg/L	0.070035	0.406	U	
* Iron, Total	7/17/23 12:00	7/18/23 11:28		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	7/17/23 12:00	7/18/23 11:28		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	7/17/23 12:00	7/18/23 11:28		1.015	Not Detected	mg/L	0.021315	0.406	U	
* Molybdenum, Total	7/17/23 12:00	7/18/23 11:28		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	7/17/23 12:00	7/18/23 11:28		1	Not Detected	mg/L				
* Silicon, Total	7/17/23 12:00	7/18/23 11:28		1.015	Not Detected	mg/L	0.02030	0.25375	U	
* Sodium, Total	7/17/23 12:00	7/18/23 11:28		1.015	Not Detected	mg/L	0.04060	0.406	U	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	7/17/23 12:00	7/17/23 15:03		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	7/17/23 12:00	7/17/23 15:03		1.015	Not Detected	mg/L	0.009135	0.05075	U	
* Arsenic, Total	7/17/23 12:00	7/17/23 15:03		1.015	Not Detected	mg/L	0.000112	0.000203	U	
* Barium, Total	7/17/23 12:00	7/17/23 15:03		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Beryllium, Total	7/17/23 12:00	7/17/23 15:03		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	7/17/23 12:00	7/17/23 15:03		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	7/17/23 12:00	7/17/23 15:03		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	7/17/23 12:00	7/17/23 15:03		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	7/17/23 12:00	7/17/23 15:03		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	7/17/23 12:00	7/17/23 15:03		1.015	Not Detected	mg/L	0.000152	0.001015	U	
* Potassium, Total	7/17/23 12:00	7/17/23 15:03		1.015	Not Detected	mg/L	0.169505	0.5075	U	
* Selenium, Total	7/17/23 12:00	7/17/23 15:03		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	7/17/23 12:00	7/17/23 15:03		1.015	Not Detected	mg/L	0.000068	0.000203	U	
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>								
* Mercury, Total by CVAA	7/18/23 12:52	7/18/23 18:43		1	Not Detected	mg/L	0.0003	0.0005	U	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>								
* Nitrogen, Nitrate/Nitrite	7/13/23 14:38	7/13/23 14:38		1	Not Detected	mg/L as N	0.20	0.3	U	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>								
* Solids, Dissolved	7/18/23 09:42	7/19/23 13:35		1	Not Detected	mg/L		25	U	

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

**Comments:**

# Certificate Of Analysis

**Description:** Gaston Gypsum Equipment Blank-1

**Location Code:** WMWGASGEB

**Collected:** 7/12/23 12:30

**Customer ID:**

**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12800

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	7/13/23 22:59	7/13/23 22:59		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	7/13/23 14:32	7/13/23 14:32		1	Not Detected	mg/L	0.50	1	U
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	7/14/23 13:46	7/14/23 13:46		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: CES</b>							
* Sulfate	7/21/23 11:09	7/21/23 11:09		1	Not Detected	mg/L	0.6	2	U

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

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**Comments:**

# Batch QC Summary

**Customer Account:** WMWGASGEB

**Sample Date:** 7/12/23 12:30

**Customer ID:**

**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum Equipment Blank-1

**Laboratory ID Number:** BD12800

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD12802	Aluminum, Total	mg/L	0.000890	0.0198	0.100	0.139	0.135	0.114	0.0850 to 0.115	113	70.0 to 130	2.92	20.0
BD12802	Antimony, Total	mg/L	0.000480	0.00100	0.100	0.0947	0.0958	0.0959	0.0850 to 0.115	94.7	70.0 to 130	1.15	20.0
BD12802	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.102	0.0995	0.102	0.0850 to 0.115	102	70.0 to 130	2.48	20.0
BD12802	Barium, Total	mg/L	0.0000323	0.00100	0.100	0.129	0.130	0.105	0.0850 to 0.115	104	70.0 to 130	0.772	20.0
BD12802	Beryllium, Total	mg/L	0.0000081	0.000880	0.100	0.0926	0.0946	0.0962	0.0850 to 0.115	92.6	70.0 to 130	2.14	20.0
BD12802	Boron, Total	mg/L	-0.000501	0.0650	1.00	1.02	1.02	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD12802	Cadmium, Total	mg/L	0.0000090	0.000147	0.100	0.100	0.101	0.100	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD12802	Calcium, Total	mg/L	-0.0111	0.152	5.00	62.0	61.5	5.08	4.25 to 5.75	8.00	70.0 to 130	0.810	20.0
BD12802	Chloride	mg/L	-0.00598	1.00	10.0	12.6	12.7	9.93	9.00 to 11.0	102	80.0 to 120	0.791	20.0
BD12802	Chromium, Total	mg/L	-0.0000974	0.000440	0.100	0.104	0.101	0.103	0.0850 to 0.115	103	70.0 to 130	2.93	20.0
BD12802	Cobalt, Total	mg/L	-0.0000015	0.000147	0.100	0.105	0.100	0.103	0.0850 to 0.115	105	70.0 to 130	4.88	20.0
BD12802	Fluoride	mg/L	0.038	0.125	2.50	2.67	2.69	2.70	2.25 to 2.75	107	80.0 to 120	0.746	20.0
BD12802	Iron, Total	mg/L	-0.00158	0.0176	0.2	0.233	0.238	0.203	0.170 to 0.230	100	70.0 to 130	2.12	20.0
BD12802	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.109	0.109	0.102	0.0850 to 0.115	109	70.0 to 130	0.00	20.0
BD12802	Lithium, Total	mg/L	0.000108	0.0154	0.200	0.208	0.205	0.200	0.170 to 0.230	104	70.0 to 130	1.45	20.0
BD12802	Magnesium, Total	mg/L	0.00970	0.0462	5.00	13.9	13.9	4.97	4.25 to 5.75	98.2	70.0 to 130	0.00	20.0
BD12802	Manganese, Total	mg/L	-0.0000467	0.00033	0.100	0.119	0.116	0.104	0.0850 to 0.115	105	70.0 to 130	2.55	20.0
BD12802	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00398	0.00399	0.00401	0.00340 to 0.00460	99.5	70.0 to 130	0.251	20.0
BD12802	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.199	0.200	0.198	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD12802	Potassium, Total	mg/L	0.0159	0.367	10.0	11.9	11.8	11.2	8.50 to 11.5	111	70.0 to 130	0.844	20.0
BD12802	Selenium, Total	mg/L	0.0000416	0.00100	0.100	0.102	0.102	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD12802	Silicon, Total	mg/L	0.000428	0.0440	1.00	5.90	5.88	1.03	0.850 to 1.15	103	70.0 to 130	0.340	20.0
BD12802	Sodium, Total	mg/L	0.00381	0.0880	5.00	13.5	13.3	4.96	4.25 to 5.75	103	70.0 to 130	1.49	20.0
BD12802	Sulfate	mg/L	-0.143	2.0	20.0	23.3	24.1	20.1	18.0 to 22.0	103	80.0 to 120	3.38	20.0

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGASGEB

**Sample Date:** 7/12/23 12:30

**Customer ID:**

**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum Equipment Blank-1

**Laboratory ID Number:** BD12800

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BD12802	Thallium, Total	mg/L	0.0000125	0.000147	0.100	0.102	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD12802	Total Organic Carbon	mg/L	0.122	1.00	10.0	10.4	9.64	10.1		104	80.0 to 120	7.58	20.0

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**Comments:**

## Batch QC Summary

**Customer Account:** WMWGASGEB

**Sample Date:** 7/12/23 12:30

**Customer ID:**

**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum Equipment Blank-1

**Laboratory ID Number:** BD12800

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BD12802	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.37	0.258	1.97	1.80 to 2.20	106	90.0 to 110	3.95	15.0
BD12802	Solids, Dissolved	mg/L	0.0000	25.0			190	54.0	40.0 to 60.0			1.05	10.0

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**Comments:**

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-14S

**Location Code:** WMWGASG  
**Collected:** 7/12/23 13:08  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12801

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	7/17/23 12:00	7/18/23 11:31		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	7/17/23 12:00	7/18/23 13:07		10.15	54.0	mg/L	0.70035	4.06		
* Iron, Total	7/17/23 12:00	7/18/23 11:31		1.015	0.0346	mg/L	0.008120	0.0406	J	
* Lithium, Total	7/17/23 12:00	7/18/23 11:31		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	7/17/23 12:00	7/18/23 11:31		1.015	9.06	mg/L	0.021315	0.406		
* Molybdenum, Total	7/17/23 12:00	7/18/23 11:31		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	7/17/23 12:00	7/18/23 11:31		1	10.4	mg/L				
* Silicon, Total	7/17/23 12:00	7/18/23 11:31		1.015	4.87	mg/L	0.02030	0.25375		
* Sodium, Total	7/17/23 12:00	7/18/23 11:31		1.015	8.60	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	7/17/23 08:56	7/19/23 11:43		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	7/17/23 08:56	7/19/23 13:47		10.15	59.6	mg/L	0.70035	4.06		
* Iron, Dissolved	7/17/23 08:56	7/19/23 11:43		1.015	0.0241	mg/L	0.008120	0.0406	J	
* Lithium, Dissolved	7/17/23 08:56	7/19/23 11:43		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	7/17/23 08:56	7/19/23 11:43		1.015	9.03	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	7/17/23 08:56	7/19/23 11:43		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	7/17/23 08:56	7/19/23 11:43		1	10.4	mg/L				
* Silicon, Dissolved	7/17/23 08:56	7/19/23 11:43		1.015	4.84	mg/L	0.02030	0.25375		
* Sodium, Dissolved	7/17/23 08:56	7/19/23 11:43		1.015	8.28	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	7/17/23 12:00	7/17/23 15:07		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	7/17/23 12:00	7/17/23 15:07		1.015	0.0283	mg/L	0.009135	0.05075	J	
* Arsenic, Total	7/17/23 12:00	7/17/23 15:07		1.015	Not Detected	mg/L	0.000112	0.000203	U	
* Barium, Total	7/17/23 12:00	7/17/23 15:07		1.015	0.0258	mg/L	0.000508	0.001015		
* Beryllium, Total	7/17/23 12:00	7/17/23 15:07		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	7/17/23 12:00	7/17/23 15:07		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	7/17/23 12:00	7/17/23 15:07		1.015	0.000639	mg/L	0.000203	0.001015	J	
* Cobalt, Total	7/17/23 12:00	7/17/23 15:07		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	7/17/23 12:00	7/17/23 15:07		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	7/17/23 12:00	7/17/23 15:07		1.015	0.0141	mg/L	0.000152	0.001015		

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-14S

**Location Code:** WMWGASG  
**Collected:** 7/12/23 13:08  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12801

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/17/23 12:00	7/17/23 15:07		1.015	0.837	mg/L	0.169505	0.5075	
* Selenium, Total	7/17/23 12:00	7/17/23 15:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/17/23 12:00	7/17/23 15:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	7/17/23 08:56	7/17/23 11:43		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/17/23 08:56	7/17/23 11:43		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/17/23 08:56	7/17/23 11:43		1.015	0.000118	mg/L	0.000112	0.000203	J
* Barium, Dissolved	7/17/23 08:56	7/17/23 11:43		1.015	0.0254	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/17/23 08:56	7/17/23 11:43		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/17/23 08:56	7/17/23 11:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/17/23 08:56	7/17/23 11:43		1.015	0.000653	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	7/17/23 08:56	7/17/23 11:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	7/17/23 08:56	7/17/23 11:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/17/23 08:56	7/17/23 11:43		1.015	0.0136	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/17/23 08:56	7/17/23 11:43		1.015	0.823	mg/L	0.169505	0.5075	
* Selenium, Dissolved	7/17/23 08:56	7/17/23 11:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/17/23 08:56	7/17/23 11:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	7/18/23 12:52	7/18/23 18:47		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	7/13/23 14:39	7/13/23 14:39		1	0.272	mg/L as N	0.20	0.3	J
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	7/21/23 09:31	7/21/23 11:47		1	182	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	7/18/23 09:42	7/19/23 13:35		1	187	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	7/21/23 09:31	7/21/23 11:47		1	180	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	7/21/23 09:31	7/21/23 11:47		1	1.73	mg CaCO3/L		0.5	
<b>Analytical Method: SM 4500H+ B</b>		<b>Analyst: DHC</b>							
Alkalinity pH Endpoint	7/21/23 09:31	7/21/23 11:47		1	4.52	SU		2	

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-14S

**Location Code:** WMWGASG  
**Collected:** 7/12/23 13:08  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12801

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	7/13/23 23:16	7/13/23 23:16		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	7/13/23 14:33	7/13/23 14:33		1	2.36	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	7/14/23 13:47	7/14/23 13:47		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: CES</b>							
* Sulfate	7/21/23 11:02	7/21/23 11:02		1	2.79	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	7/12/23 13:04	7/12/23 13:04			329.93	uS/cm			FA
pH	7/12/23 13:04	7/12/23 13:04			6.68	SU			FA
Temperature	7/12/23 13:04	7/12/23 13:04			20.22	C			FA
Turbidity	7/12/23 13:04	7/12/23 13:04			3.07	NTU			FA
Sulfide	7/12/23 13:04	7/12/23 13:04			0	mg/L			FA

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/12/23 13:08  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-14S

**Laboratory ID Number:** BD12801

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD12802	Aluminum, Dissolved	mg/L	-0.000164	0.0198	0.100	0.105	0.103	0.104	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD12802	Aluminum, Total	mg/L	0.000890	0.0198	0.100	0.139	0.135	0.114	0.0850 to 0.115	113	70.0 to 130	2.92	20.0
BD12802	Antimony, Dissolved	mg/L	0.000440	0.00100	0.100	0.0911	0.0932	0.0898	0.0850 to 0.115	91.1	70.0 to 130	2.28	20.0
BD12802	Antimony, Total	mg/L	0.000480	0.00100	0.100	0.0947	0.0958	0.0959	0.0850 to 0.115	94.7	70.0 to 130	1.15	20.0
BD12802	Arsenic, Dissolved	mg/L	0.0000143	0.000200	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD12802	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.102	0.0995	0.102	0.0850 to 0.115	102	70.0 to 130	2.48	20.0
BD12802	Barium, Dissolved	mg/L	0.0000152	0.00100	0.100	0.129	0.130	0.104	0.0850 to 0.115	104	70.0 to 130	0.772	20.0
BD12802	Barium, Total	mg/L	0.0000323	0.00100	0.100	0.129	0.130	0.105	0.0850 to 0.115	104	70.0 to 130	0.772	20.0
BD12802	Beryllium, Dissolved	mg/L	0.0000110	0.000880	0.100	0.0986	0.0933	0.0984	0.0850 to 0.115	98.6	70.0 to 130	5.52	20.0
BD12802	Beryllium, Total	mg/L	0.0000081	0.000880	0.100	0.0926	0.0946	0.0962	0.0850 to 0.115	92.6	70.0 to 130	2.14	20.0
BD12802	Boron, Dissolved	mg/L	0.000014	0.0650	1.00	1.02	1.02	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD12802	Boron, Total	mg/L	-0.000501	0.0650	1.00	1.02	1.02	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD12802	Cadmium, Dissolved	mg/L	0.0000047	0.000147	0.100	0.104	0.102	0.102	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD12802	Cadmium, Total	mg/L	0.0000090	0.000147	0.100	0.100	0.101	0.100	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD12802	Calcium, Dissolved	mg/L	0.00449	0.152	5.00	66.0	66.5	5.13	4.25 to 5.75	30.0	70.0 to 130	0.755	20.0
BD12802	Calcium, Total	mg/L	-0.0111	0.152	5.00	62.0	61.5	5.08	4.25 to 5.75	8.00	70.0 to 130	0.810	20.0
BD12802	Chloride	mg/L	-0.00598	1.00	10.0	12.6	12.7	9.93	9.00 to 11.0	102	80.0 to 120	0.791	20.0
BD12802	Chromium, Dissolved	mg/L	-0.0000223	0.000440	0.100	0.104	0.104	0.105	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD12802	Chromium, Total	mg/L	-0.0000974	0.000440	0.100	0.104	0.101	0.103	0.0850 to 0.115	103	70.0 to 130	2.93	20.0
BD12802	Cobalt, Dissolved	mg/L	-0.0000023	0.000147	0.100	0.104	0.103	0.106	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD12802	Cobalt, Total	mg/L	-0.0000015	0.000147	0.100	0.105	0.100	0.103	0.0850 to 0.115	105	70.0 to 130	4.88	20.0
BD12802	Fluoride	mg/L	0.038	0.125	2.50	2.67	2.69	2.70	2.25 to 2.75	107	80.0 to 120	0.746	20.0
BD12802	Iron, Dissolved	mg/L	-0.00150	0.0176	0.2	0.222	0.234	0.203	0.170 to 0.230	101	70.0 to 130	5.26	20.0
BD12802	Iron, Total	mg/L	-0.00158	0.0176	0.2	0.233	0.238	0.203	0.170 to 0.230	100	70.0 to 130	2.12	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/12/23 13:08  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-14S

**Laboratory ID Number:** BD12801

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD12802	Lead, Dissolved	mg/L	0.0000159	0.000147	0.100	0.108	0.116	0.105	0.0850 to 0.115	108	70.0 to 130	7.14	20.0
BD12802	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.109	0.109	0.102	0.0850 to 0.115	109	70.0 to 130	0.00	20.0
BD12802	Lithium, Dissolved	mg/L	-0.00056	0.0154	0.200	0.201	0.198	0.196	0.170 to 0.230	100	70.0 to 130	1.50	20.0
BD12802	Lithium, Total	mg/L	0.000108	0.0154	0.200	0.208	0.205	0.200	0.170 to 0.230	104	70.0 to 130	1.45	20.0
BD12802	Magnesium, Dissolved	mg/L	-0.00231	0.0462	5.00	13.9	13.6	4.94	4.25 to 5.75	97.8	70.0 to 130	2.18	20.0
BD12802	Magnesium, Total	mg/L	0.00970	0.0462	5.00	13.9	13.9	4.97	4.25 to 5.75	98.2	70.0 to 130	0.00	20.0
BD12802	Manganese, Dissolved	mg/L	-0.0000472	0.00033	0.100	0.116	0.116	0.107	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD12802	Manganese, Total	mg/L	-0.0000467	0.00033	0.100	0.119	0.116	0.104	0.0850 to 0.115	105	70.0 to 130	2.55	20.0
BD12802	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00398	0.00399	0.00401	0.00340 to 0.00460	99.5	70.0 to 130	0.251	20.0
BD12802	Molybdenum, Dissolved	mg/L	0.00219	0.0100	0.2	0.196	0.198	0.197	0.170 to 0.230	98.0	70.0 to 130	1.02	20.0
BD12802	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.199	0.200	0.198	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD12802	Potassium, Dissolved	mg/L	0.0297	0.367	10.0	11.6	11.6	11.2	8.50 to 11.5	108	70.0 to 130	0.00	20.0
BD12802	Potassium, Total	mg/L	0.0159	0.367	10.0	11.9	11.8	11.2	8.50 to 11.5	111	70.0 to 130	0.844	20.0
BD12802	Selenium, Dissolved	mg/L	0.0000984	0.00100	0.100	0.106	0.105	0.108	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD12802	Selenium, Total	mg/L	0.0000416	0.00100	0.100	0.102	0.102	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD12802	Silicon, Dissolved	mg/L	-0.00168	0.0440	1.00	5.84	5.83	1.03	0.850 to 1.15	101	70.0 to 130	0.171	20.0
BD12802	Silicon, Total	mg/L	0.000428	0.0440	1.00	5.90	5.88	1.03	0.850 to 1.15	103	70.0 to 130	0.340	20.0
BD12802	Sodium, Dissolved	mg/L	0.00156	0.0880	5.00	13.2	12.9	4.94	4.25 to 5.75	102	70.0 to 130	2.30	20.0
BD12802	Sodium, Total	mg/L	0.00381	0.0880	5.00	13.5	13.3	4.96	4.25 to 5.75	103	70.0 to 130	1.49	20.0
BD12802	Sulfate	mg/L	-0.143	2.0	20.0	23.3	24.1	20.1	18.0 to 22.0	103	80.0 to 120	3.38	20.0
BD12802	Thallium, Dissolved	mg/L	0.0000065	0.000147	0.100	0.0996	0.114	0.100	0.0850 to 0.115	99.6	70.0 to 130	13.5	20.0
BD12802	Thallium, Total	mg/L	0.0000125	0.000147	0.100	0.102	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD12802	Total Organic Carbon	mg/L	0.122	1.00	10.0	10.4	9.64	10.1		104	80.0 to 120	7.58	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/12/23 13:08  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-14S

**Laboratory ID Number:** BD12801

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD12802	Alkalinity	mg CaCO3/L					181	52.2	45.0 to 55.0			0.554	10.0
BD12802	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.37	0.258	1.97	1.80 to 2.20	106	90.0 to 110	3.95	15.0
BD12802	Solids, Dissolved	mg/L	0.0000	25.0			190	54.0	40.0 to 60.0			1.05	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-14S Dup

**Location Code:** WMWGASG  
**Collected:** 7/12/23 13:08  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12802

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	7/17/23 12:00	7/18/23 11:34		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	7/17/23 12:00	7/18/23 13:10		10.15	61.6	mg/L	0.70035	4.06	RA	
* Iron, Total	7/17/23 12:00	7/18/23 11:34		1.015	0.0327	mg/L	0.008120	0.0406	J	
* Lithium, Total	7/17/23 12:00	7/18/23 11:34		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	7/17/23 12:00	7/18/23 11:34		1.015	8.99	mg/L	0.021315	0.406		
* Molybdenum, Total	7/17/23 12:00	7/18/23 11:34		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	7/17/23 12:00	7/18/23 11:34		1	10.4	mg/L				
* Silicon, Total	7/17/23 12:00	7/18/23 11:34		1.015	4.87	mg/L	0.02030	0.25375		
* Sodium, Total	7/17/23 12:00	7/18/23 11:34		1.015	8.34	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	7/17/23 08:56	7/19/23 11:46		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	7/17/23 08:56	7/19/23 13:50		10.15	64.5	mg/L	0.70035	4.06	RA	
* Iron, Dissolved	7/17/23 08:56	7/19/23 11:46		1.015	0.0204	mg/L	0.008120	0.0406	J	
* Lithium, Dissolved	7/17/23 08:56	7/19/23 11:46		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	7/17/23 08:56	7/19/23 11:46		1.015	9.01	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	7/17/23 08:56	7/19/23 11:46		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	7/17/23 08:56	7/19/23 11:46		1	10.3	mg/L				
* Silicon, Dissolved	7/17/23 08:56	7/19/23 11:46		1.015	4.83	mg/L	0.02030	0.25375		
* Sodium, Dissolved	7/17/23 08:56	7/19/23 11:46		1.015	8.12	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	7/17/23 12:00	7/17/23 15:10		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	7/17/23 12:00	7/17/23 15:10		1.015	0.0258	mg/L	0.009135	0.05075	J	
* Arsenic, Total	7/17/23 12:00	7/17/23 15:10		1.015	Not Detected	mg/L	0.000112	0.000203	U	
* Barium, Total	7/17/23 12:00	7/17/23 15:10		1.015	0.0252	mg/L	0.000508	0.001015		
* Beryllium, Total	7/17/23 12:00	7/17/23 15:10		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	7/17/23 12:00	7/17/23 15:10		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	7/17/23 12:00	7/17/23 15:10		1.015	0.000631	mg/L	0.000203	0.001015	J	
* Cobalt, Total	7/17/23 12:00	7/17/23 15:10		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	7/17/23 12:00	7/17/23 15:10		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	7/17/23 12:00	7/17/23 15:10		1.015	0.0138	mg/L	0.000152	0.001015		

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-14S Dup

**Location Code:** WMWGASG  
**Collected:** 7/12/23 13:08  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12802

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/17/23 12:00	7/17/23 15:10		1.015	0.814	mg/L	0.169505	0.5075	
* Selenium, Total	7/17/23 12:00	7/17/23 15:10		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/17/23 12:00	7/17/23 15:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	7/17/23 08:56	7/17/23 11:47		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/17/23 08:56	7/17/23 11:47		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/17/23 08:56	7/17/23 11:47		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	7/17/23 08:56	7/17/23 11:47		1.015	0.0247	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/17/23 08:56	7/17/23 11:47		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/17/23 08:56	7/17/23 11:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/17/23 08:56	7/17/23 11:47		1.015	0.000740	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	7/17/23 08:56	7/17/23 11:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	7/17/23 08:56	7/17/23 11:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/17/23 08:56	7/17/23 11:47		1.015	0.0135	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/17/23 08:56	7/17/23 11:47		1.015	0.802	mg/L	0.169505	0.5075	
* Selenium, Dissolved	7/17/23 08:56	7/17/23 11:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/17/23 08:56	7/17/23 11:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	7/18/23 12:52	7/18/23 18:51		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	7/13/23 14:40	7/13/23 14:40		1	0.248	mg/L as N	0.20	0.3	J
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	7/21/23 09:31	7/21/23 11:47		1	180	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	7/18/23 09:42	7/19/23 13:35		1	192	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	7/21/23 09:31	7/21/23 11:47		1	179	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	7/21/23 09:31	7/21/23 11:47		1	0.844	mg CaCO3/L		0.5	
<b>Analytical Method: SM 4500H+ B</b>		<b>Analyst: DHC</b>							
Alkalinity pH Endpoint	7/21/23 09:31	7/21/23 11:47		1	4.48	SU		2	

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Gaston Gypsum - MW-14S Dup

**Location Code:** WMWGASG  
**Collected:** 7/12/23 13:08  
**Customer ID:**  
**Submittal Date:** 7/13/23 09:46

**Laboratory ID Number:** BD12802

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	7/13/23 23:33	7/13/23 23:33		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	7/13/23 14:34	7/13/23 14:34		1	2.43	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	7/14/23 13:48	7/14/23 13:48		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: CES</b>							
* Sulfate	7/21/23 11:03	7/21/23 11:03		1	2.72	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	7/12/23 13:04	7/12/23 13:04			329.93	uS/cm			FA
pH	7/12/23 13:04	7/12/23 13:04			6.68	SU			FA
Temperature	7/12/23 13:04	7/12/23 13:04			20.22	C			FA
Turbidity	7/12/23 13:04	7/12/23 13:04			3.07	NTU			FA
Sulfide	7/12/23 13:04	7/12/23 13:04			0	mg/L			FA

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

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/12/23 13:08  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-14S Dup

**Laboratory ID Number:** BD12802

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD12802	Aluminum, Dissolved	mg/L	-0.000164	0.0198	0.100	0.105	0.103	0.104	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD12802	Aluminum, Total	mg/L	0.000890	0.0198	0.100	0.139	0.135	0.114	0.0850 to 0.115	113	70.0 to 130	2.92	20.0
BD12802	Antimony, Dissolved	mg/L	0.000440	0.00100	0.100	0.0911	0.0932	0.0898	0.0850 to 0.115	91.1	70.0 to 130	2.28	20.0
BD12802	Antimony, Total	mg/L	0.000480	0.00100	0.100	0.0947	0.0958	0.0959	0.0850 to 0.115	94.7	70.0 to 130	1.15	20.0
BD12802	Arsenic, Dissolved	mg/L	0.0000143	0.000200	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD12802	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.102	0.0995	0.102	0.0850 to 0.115	102	70.0 to 130	2.48	20.0
BD12802	Barium, Dissolved	mg/L	0.0000152	0.00100	0.100	0.129	0.130	0.104	0.0850 to 0.115	104	70.0 to 130	0.772	20.0
BD12802	Barium, Total	mg/L	0.0000323	0.00100	0.100	0.129	0.130	0.105	0.0850 to 0.115	104	70.0 to 130	0.772	20.0
BD12802	Beryllium, Dissolved	mg/L	0.0000110	0.000880	0.100	0.0986	0.0933	0.0984	0.0850 to 0.115	98.6	70.0 to 130	5.52	20.0
BD12802	Beryllium, Total	mg/L	0.0000081	0.000880	0.100	0.0926	0.0946	0.0962	0.0850 to 0.115	92.6	70.0 to 130	2.14	20.0
BD12802	Boron, Dissolved	mg/L	0.000014	0.0650	1.00	1.02	1.02	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD12802	Boron, Total	mg/L	-0.000501	0.0650	1.00	1.02	1.02	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD12802	Cadmium, Dissolved	mg/L	0.0000047	0.000147	0.100	0.104	0.102	0.102	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD12802	Cadmium, Total	mg/L	0.0000090	0.000147	0.100	0.100	0.101	0.100	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD12802	Calcium, Dissolved	mg/L	0.00449	0.152	5.00	66.0	66.5	5.13	4.25 to 5.75	30.0	70.0 to 130	0.755	20.0
BD12802	Calcium, Total	mg/L	-0.0111	0.152	5.00	62.0	61.5	5.08	4.25 to 5.75	8.00	70.0 to 130	0.810	20.0
BD12802	Chloride	mg/L	-0.00598	1.00	10.0	12.6	12.7	9.93	9.00 to 11.0	102	80.0 to 120	0.791	20.0
BD12802	Chromium, Dissolved	mg/L	-0.0000223	0.000440	0.100	0.104	0.104	0.105	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD12802	Chromium, Total	mg/L	-0.0000974	0.000440	0.100	0.104	0.101	0.103	0.0850 to 0.115	103	70.0 to 130	2.93	20.0
BD12802	Cobalt, Dissolved	mg/L	-0.0000023	0.000147	0.100	0.104	0.103	0.106	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD12802	Cobalt, Total	mg/L	-0.0000015	0.000147	0.100	0.105	0.100	0.103	0.0850 to 0.115	105	70.0 to 130	4.88	20.0
BD12802	Fluoride	mg/L	0.038	0.125	2.50	2.67	2.69	2.70	2.25 to 2.75	107	80.0 to 120	0.746	20.0
BD12802	Iron, Dissolved	mg/L	-0.00150	0.0176	0.2	0.222	0.234	0.203	0.170 to 0.230	101	70.0 to 130	5.26	20.0
BD12802	Iron, Total	mg/L	-0.00158	0.0176	0.2	0.233	0.238	0.203	0.170 to 0.230	100	70.0 to 130	2.12	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/12/23 13:08  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-14S Dup

**Laboratory ID Number:** BD12802

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD12802	Lead, Dissolved	mg/L	0.0000159	0.000147	0.100	0.108	0.116	0.105	0.0850 to 0.115	108	70.0 to 130	7.14	20.0
BD12802	Lead, Total	mg/L	0.0000118	0.000147	0.100	0.109	0.109	0.102	0.0850 to 0.115	109	70.0 to 130	0.00	20.0
BD12802	Lithium, Dissolved	mg/L	-0.00056	0.0154	0.200	0.201	0.198	0.196	0.170 to 0.230	100	70.0 to 130	1.50	20.0
BD12802	Lithium, Total	mg/L	0.000108	0.0154	0.200	0.208	0.205	0.200	0.170 to 0.230	104	70.0 to 130	1.45	20.0
BD12802	Magnesium, Dissolved	mg/L	-0.00231	0.0462	5.00	13.9	13.6	4.94	4.25 to 5.75	97.8	70.0 to 130	2.18	20.0
BD12802	Magnesium, Total	mg/L	0.00970	0.0462	5.00	13.9	13.9	4.97	4.25 to 5.75	98.2	70.0 to 130	0.00	20.0
BD12802	Manganese, Dissolved	mg/L	-0.0000472	0.00033	0.100	0.116	0.116	0.107	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD12802	Manganese, Total	mg/L	-0.0000467	0.00033	0.100	0.119	0.116	0.104	0.0850 to 0.115	105	70.0 to 130	2.55	20.0
BD12802	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00398	0.00399	0.00401	0.00340 to 0.00460	99.5	70.0 to 130	0.251	20.0
BD12802	Molybdenum, Dissolved	mg/L	0.00219	0.0100	0.2	0.196	0.198	0.197	0.170 to 0.230	98.0	70.0 to 130	1.02	20.0
BD12802	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.199	0.200	0.198	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD12802	Potassium, Dissolved	mg/L	0.0297	0.367	10.0	11.6	11.6	11.2	8.50 to 11.5	108	70.0 to 130	0.00	20.0
BD12802	Potassium, Total	mg/L	0.0159	0.367	10.0	11.9	11.8	11.2	8.50 to 11.5	111	70.0 to 130	0.844	20.0
BD12802	Selenium, Dissolved	mg/L	0.0000984	0.00100	0.100	0.106	0.105	0.108	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD12802	Selenium, Total	mg/L	0.0000416	0.00100	0.100	0.102	0.102	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD12802	Silicon, Dissolved	mg/L	-0.00168	0.0440	1.00	5.84	5.83	1.03	0.850 to 1.15	101	70.0 to 130	0.171	20.0
BD12802	Silicon, Total	mg/L	0.000428	0.0440	1.00	5.90	5.88	1.03	0.850 to 1.15	103	70.0 to 130	0.340	20.0
BD12802	Sodium, Dissolved	mg/L	0.00156	0.0880	5.00	13.2	12.9	4.94	4.25 to 5.75	102	70.0 to 130	2.30	20.0
BD12802	Sodium, Total	mg/L	0.00381	0.0880	5.00	13.5	13.3	4.96	4.25 to 5.75	103	70.0 to 130	1.49	20.0
BD12802	Sulfate	mg/L	-0.143	2.0	20.0	23.3	24.1	20.1	18.0 to 22.0	103	80.0 to 120	3.38	20.0
BD12802	Thallium, Dissolved	mg/L	0.0000065	0.000147	0.100	0.0996	0.114	0.100	0.0850 to 0.115	99.6	70.0 to 130	13.5	20.0
BD12802	Thallium, Total	mg/L	0.0000125	0.000147	0.100	0.102	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD12802	Total Organic Carbon	mg/L	0.122	1.00	10.0	10.4	9.64	10.1		104	80.0 to 120	7.58	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGASG  
**Sample Date:** 7/12/23 13:08  
**Customer ID:**  
**Delivery Date:** 7/13/23 09:46

**Description:** Gaston Gypsum - MW-14S Dup

**Laboratory ID Number:** BD12802

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD12802	Alkalinity	mg CaCO3/L					181	52.2	45.0 to 55.0			0.554	10.0
BD12802	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.37	0.258	1.97	1.80 to 2.20	106	90.0 to 110	3.95	15.0
BD12802	Solids, Dissolved	mg/L	0.0000	25.0			190	54.0	40.0 to 60.0			1.05	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Definitions

**Project Number:** WMWGASG\_1415

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

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



# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

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

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

Comments: Samples turned in to lab. TJD 1625 07/12/2023

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-5	07/10/2023	12:50	6	Groundwater		BD12784	<input checked="" type="checkbox"/>
MW-6	07/10/2023	14:35	6	Groundwater		BD12785	<input checked="" type="checkbox"/>
MW-7	07/10/2023	15:50	6	Groundwater		BD12786	<input checked="" type="checkbox"/>
MW-8	07/11/2023	08:53	6	Groundwater		BD12787	<input checked="" type="checkbox"/>
MW-9	07/11/2023	10:18	6	Groundwater		BD12788	<input checked="" type="checkbox"/>
MW-10	07/11/2023	11:09	6	Groundwater		BD12789	<input checked="" type="checkbox"/>
MW-10 Dup	07/11/2023	11:09	6	Sample Duplicate		BD12790	<input checked="" type="checkbox"/>
MW-11	07/11/2023	12:15	6	Groundwater		BD12791	<input checked="" type="checkbox"/>
MW-12	07/11/2023	13:10	6	Groundwater		BD12792	<input checked="" type="checkbox"/>
MW-13	07/11/2023	14:00	6	Groundwater		BD12793	<input checked="" type="checkbox"/>
MW-1	07/11/2023	14:53	6	Groundwater		BD12794	<input checked="" type="checkbox"/>
MW-2	07/11/2023	16:20	6	Groundwater		BD12795	<input checked="" type="checkbox"/>
FB-1	07/11/2023	17:05	5	Field Blank		BD12796	<input checked="" type="checkbox"/>
MW-15	07/12/2023	10:23	6	Groundwater		BD12797	<input checked="" type="checkbox"/>
FB-2	07/12/2023	11:05	5	Field Blank		BD12798	<input checked="" type="checkbox"/>
MW-3	07/12/2023	11:55	6	Groundwater		BD12799	<input checked="" type="checkbox"/>
EB-1	07/12/2023	12:30	5	Equipment Blank		BD12800	<input checked="" type="checkbox"/>
MW-14S	07/12/2023	13:08	6	Groundwater		BD12801	<input checked="" type="checkbox"/>
MW-14S Dup	07/12/2023	13:08	6	Sample Duplicate		BD12802	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
	Brooke Caton <small>Digitally signed by Brooke Caton Date: 2023.07.13 09:44:04 -05'00'</small>	07/13/2023 09:44

SmarTroll ID	7586-41445-5-4	Cooler Temp	1.1 °C
Turbidity ID	4677-23343-4-2	Thermometer ID	10614-61208-2-1
Sample Event	1415	pH Strip ID	10620-61242-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.

Total Metals and Alkalinity are not performed on Dissolved Sets

Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

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

Bottles	1 Radium	1 L	3 N/A	N/A	5 N/A	N/A	7 N/A	N/A
	2 N/A	N/A	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

Comments: Samples turned in to lab. TJD 1625 07/12/2023. Rad ms/MSD @ MW-5

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-5	07/10/2023	12:50	3	Groundwater		BD12803	<input checked="" type="checkbox"/>
MW-6	07/10/2023	14:35	1	Groundwater		BD12804	<input checked="" type="checkbox"/>
MW-7	07/10/2023	15:50	1	Groundwater		BD12805	<input checked="" type="checkbox"/>
MW-8	07/11/2023	08:53	1	Groundwater		BD12806	<input checked="" type="checkbox"/>
MW-9	07/11/2023	10:18	1	Groundwater		BD12807	<input checked="" type="checkbox"/>
MW-10	07/11/2023	11:09	1	Groundwater		BD12808	<input checked="" type="checkbox"/>
MW-10 Dup	07/11/2023	11:09	1	Sample Duplicate		BD12809	<input checked="" type="checkbox"/>
MW-11	07/11/2023	12:15	1	Groundwater		BD12810	<input checked="" type="checkbox"/>
MW-12	07/11/2023	13:10	1	Groundwater		BD12811	<input checked="" type="checkbox"/>
MW-13	07/11/2023	14:00	1	Groundwater		BD12812	<input checked="" type="checkbox"/>
MW-1	07/11/2023	14:53	1	Groundwater		BD12813	<input checked="" type="checkbox"/>
MW-2	07/11/2023	16:20	1	Groundwater		BD12814	<input checked="" type="checkbox"/>
FB-1	07/11/2023	17:05	1	Field Blank		BD12815	<input checked="" type="checkbox"/>
MW-15	07/12/2023	10:23	1	Groundwater		BD12816	<input checked="" type="checkbox"/>
FB-2	07/12/2023	11:05	1	Field Blank		BD12817	<input checked="" type="checkbox"/>
MW-3	07/12/2023	11:55	1	Groundwater		BD12818	<input checked="" type="checkbox"/>
EB-1	07/12/2023	12:30	1	Equipment Blank		BD12819	<input checked="" type="checkbox"/>
MW-14S	07/12/2023	13:08	1	Groundwater		BD12820	<input checked="" type="checkbox"/>
MW-14S Dup	07/12/2023	13:08	1	Sample Duplicate		BD12821	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
	Brooke Caton <small>Digitally signed by Brooke Caton Date: 2023.07.13 09:44:17 -05'00'</small>	07/13/2023 09:44

SmarTroll ID	7586-41445-5-4	Cooler Temp	N/A
Turbidity ID	4677-23343-4-2	Thermometer ID	N/A
Sample Event	1415	pH Strip ID	10620-61242-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.

Total Metals and Alkalinity are not performed on Dissolved Sets

Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



August 24, 2023

Brooke Caton  
Alabama Power  
744 Highway 87  
Calera, AL 35040

RE: Project: WMWGASG\_1415  
Pace Project No.: 30607006

Dear Brooke Caton:

Enclosed are the analytical results for sample(s) received by the laboratory on July 19, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

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

Sincerely,

Skyler C. Richmond  
skyler.richmond@pacelabs.com  
(724)850-5600  
Project Manager

Enclosures

cc: Blaine Denton, Alabama Power  
Renee Jernigan, Alabama Power



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: WMWGASG\_1415  
Pace Project No.: 30607006

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### Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601  
ANAB DOD-ELAP Rad Accreditation #: L2417  
ANABISO/IEC 17025:2017 Rad Cert#: L24170  
Alabama Certification #: 41590  
Arizona Certification #: AZ0734  
Arkansas Certification  
California Certification #: 2950  
Colorado Certification #: PA01547  
Connecticut Certification #: PH-0694  
EPA Region 4 DW Rad  
Florida/TNI Certification #: E87683  
Georgia Certification #: C040  
Guam Certification  
Hawaii Certification  
Idaho Certification  
Illinois Certification  
Indiana Certification  
Iowa Certification #: 391  
Kansas Certification #: E-10358  
Kentucky Certification #: KY90133  
KY WW Permit #: KY0098221  
KY WW Permit #: KY0000221  
Louisiana DHH/TNI Certification #: LA010  
Louisiana DEQ/TNI Certification #: 04086  
Maine Certification #: 2023021  
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 #: PA014572023-03  
New Hampshire/TNI Certification #: 297622  
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 #: PA200002-015  
Pennsylvania/TNI Certification #: 65-00282  
Puerto Rico Certification #: PA01457  
Rhode Island Certification #: 65-00282  
South Dakota Certification  
Tennessee Certification #: TN02867  
Texas/TNI Certification #: T104704188-22-18  
Utah/TNI Certification #: PA014572223-14  
USDA Soil Permit #: 525-23-67-77263  
Vermont Dept. of Health: ID# VT-0282  
Virgin Island/PADEP Certification  
Virginia/VELAP Certification #: 460198  
Washington Certification #: C868  
West Virginia DEP Certification #: 143  
West Virginia DHHR Certification #: 9964C  
Wisconsin Approve List for Rad

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: WMWGASG\_1415  
Pace Project No.: 30607006

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30607006001	BD12803 MW-5	Water	07/10/23 12:50	07/19/23 15:10
30607006002	BD12803 MW-5 MS	Water	07/10/23 12:50	07/19/23 15:10
30607006003	BD12803 MW-5 MSD	Water	07/10/23 12:50	07/19/23 15:10
30607006004	BD12804 MW-6	Water	07/10/23 14:35	07/19/23 15:10
30607006005	BD12805 MW-7	Water	07/10/23 15:50	07/19/23 15:10
30607006006	BD12806 MW-8	Water	07/11/23 08:53	07/19/23 15:10
30607006007	BD12807 MW-9	Water	07/11/23 10:18	07/19/23 15:10
30607006008	BD12808 MW-10	Water	07/11/23 11:09	07/19/23 15:10
30607006009	BD12809 MW-10 Dup	Water	07/11/23 11:09	07/19/23 15:10
30607006010	BD12810 MW-11	Water	07/11/23 12:15	07/19/23 15:10
30607006011	BD12811 MW-12	Water	07/11/23 13:10	07/19/23 15:10
30607006012	BD12812 MW-13	Water	07/11/23 14:00	07/19/23 15:10
30607006013	BD12813 MW-1	Water	07/11/23 14:53	07/19/23 15:10
30607006014	BD12814 MW-2	Water	07/11/23 16:20	07/19/23 15:10
30607006015	BD12815 FB-1	Water	07/11/23 17:05	07/19/23 15:10
30607006016	BD12816 MW-15	Water	07/12/23 10:23	07/19/23 15:10
30607006017	BD12817 FB-2	Water	07/12/23 11:05	07/19/23 15:10
30607006018	BD12818 MW-3	Water	07/12/23 11:55	07/19/23 15:10
30607006019	BD12819 EB-1	Water	07/12/23 12:30	07/19/23 15:10
30607006020	BD12820 MW-14S	Water	07/12/23 13:08	07/19/23 15:10
30607006021	BD12821 MW-14S Dup	Water	07/12/23 13:08	07/19/23 15:10

## REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: WMWGASG\_1415  
 Pace Project No.: 30607006

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30607006001	BD12803 MW-5	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30607006002	BD12803 MW-5 MS	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30607006003	BD12803 MW-5 MSD	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30607006004	BD12804 MW-6	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30607006005	BD12805 MW-7	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30607006006	BD12806 MW-8	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30607006007	BD12807 MW-9	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30607006008	BD12808 MW-10	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30607006009	BD12809 MW-10 Dup	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30607006010	BD12810 MW-11	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30607006011	BD12811 MW-12	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30607006012	BD12812 MW-13	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30607006013	BD12813 MW-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA

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**SAMPLE ANALYTE COUNT**

Project: WMWGASG\_1415  
 Pace Project No.: 30607006

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30607006014	BD12814 MW-2	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30607006015	BD12815 FB-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30607006016	BD12816 MW-15	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30607006017	BD12817 FB-2	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30607006018	BD12818 MW-3	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30607006019	BD12819 EB-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30607006020	BD12820 MW-14S	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30607006021	BD12821 MW-14S Dup	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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## PROJECT NARRATIVE

Project: WMWGASG\_1415  
Pace Project No.: 30607006

---

**Method:** EPA 9315  
**Description:** 9315 Total Radium  
**Client:** Alabama Power  
**Date:** August 24, 2023

### 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:

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## PROJECT NARRATIVE

Project: WMWGASG\_1415  
Pace Project No.: 30607006

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**Method:** EPA 9320  
**Description:** 9320 Radium 228  
**Client:** Alabama Power  
**Date:** August 24, 2023

### 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:

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## PROJECT NARRATIVE

Project: WMWGASG\_1415  
Pace Project No.: 30607006

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**Method:** Total Radium Calculation  
**Description:** Total Radium 228+226  
**Client:** Alabama Power  
**Date:** August 24, 2023

**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: WMWGASG\_1415  
 Pace Project No.: 30607006

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.501 ± 0.286 (0.418)</b> <b>C:94% T:NA</b>	pCi/L	08/17/23 08:42	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.925 ± 0.349 (0.461)</b> <b>C:76% T:85%</b>	pCi/L	08/02/23 11:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.43 ± 0.635 (0.879)</b>	pCi/L	08/17/23 21:42	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGASG\_1415  
 Pace Project No.: 30607006

**Sample: BD12803 MW-5 MS**      **Lab ID: 30607006002**      Collected: 07/10/23 12:50      Received: 07/19/23 15:10      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	<b>112.54 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	08/17/23 08:42	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>93.66 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	08/02/23 11:10	15262-20-1	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGASG\_1415  
 Pace Project No.: 30607006

**Sample: BD12803 MW-5 MSD**      **Lab ID: 30607006003**      Collected: 07/10/23 12:50      Received: 07/19/23 15:10      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	<b>104.67 %REC 7.25RPD ±</b> <b>NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	08/17/23 09:29	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>94.19 %REC 0.56RPD ± NA</b> <b>(NA)</b> <b>C:NA T:NA</b>	pCi/L	08/02/23 11:07	15262-20-1	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGASG\_1415  
 Pace Project No.: 30607006

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.415 ± 0.254 (0.373)</b> <b>C:96% T:NA</b>	pCi/L	08/17/23 12:13	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.526U ± 0.325 (0.590)</b> <b>C:76% T:83%</b>	pCi/L	08/02/23 11:08	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.941U ± 0.579 (0.963)</b>	pCi/L	08/17/23 21:42	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGASG\_1415  
 Pace Project No.: 30607006

**Sample: BD12805 MW-7**      **Lab ID: 30607006005**      Collected: 07/10/23 15:50      Received: 07/19/23 15:10      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	<b>0.399U ± 0.282 (0.490)</b> <b>C:100% T:NA</b>	pCi/L	08/17/23 08:46	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.691 ± 0.334 (0.549)</b> <b>C:80% T:84%</b>	pCi/L	08/02/23 11:08	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.09 ± 0.616 (1.04)</b>	pCi/L	08/17/23 21:42	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGASG\_1415  
 Pace Project No.: 30607006

**Sample: BD12806 MW-8**      **Lab ID: 30607006006**      Collected: 07/11/23 08:53      Received: 07/19/23 15:10      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	<b>1.11 ± 0.413 (0.427)</b> <b>C:94% T:NA</b>	pCi/L	08/16/23 13:48	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.0899U ± 0.316 (0.715)</b> <b>C:76% T:85%</b>	pCi/L	08/02/23 11:08	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.20 ± 0.729 (1.14)</b>	pCi/L	08/17/23 21:43	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGASG\_1415  
 Pace Project No.: 30607006

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.110U ± 0.214 (0.495)</b> <b>C:94% T:NA</b>	pCi/L	08/16/23 13:48	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.602U ± 0.402 (0.781)</b> <b>C:81% T:84%</b>	pCi/L	08/02/23 11:08	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.712U ± 0.616 (1.28)</b>	pCi/L	08/17/23 21:43	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGASG\_1415  
 Pace Project No.: 30607006

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.449U ± 0.337 (0.634)</b> <b>C:94% T:NA</b>	pCi/L	08/16/23 13:46	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>1.06 ± 0.413 (0.640)</b> <b>C:81% T:91%</b>	pCi/L	08/02/23 11:08	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.51 ± 0.750 (1.27)</b>	pCi/L	08/17/23 21:43	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGASG\_1415  
 Pace Project No.: 30607006

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.239U ± 0.283 (0.596)</b> <b>C:94% T:NA</b>	pCi/L	08/16/23 13:46	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.989 ± 0.464 (0.807)</b> <b>C:75% T:86%</b>	pCi/L	08/02/23 11:08	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.23U ± 0.747 (1.40)</b>	pCi/L	08/17/23 21:43	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGASG\_1415  
 Pace Project No.: 30607006

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: BD12810 MW-11</b> <b>Lab ID: 30607006010</b> Collected: 07/11/23 12:15      Received: 07/19/23 15:10      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.394U ± 0.278 (0.473)</b> <b>C:92% T:NA</b>	pCi/L	08/16/23 13:46	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.279U ± 0.391 (0.841)</b> <b>C:77% T:87%</b>	pCi/L	08/02/23 11:08	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.673U ± 0.669 (1.31)</b>	pCi/L	08/17/23 21:43	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGASG\_1415  
 Pace Project No.: 30607006

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.469U ± 0.311 (0.516)</b> <b>C:91% T:NA</b>	pCi/L	08/16/23 13:46	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.238U ± 0.322 (0.687)</b> <b>C:79% T:83%</b>	pCi/L	08/02/23 11:08	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.707U ± 0.633 (1.20)</b>	pCi/L	08/17/23 21:43	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGASG\_1415  
 Pace Project No.: 30607006

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.389U ± 0.290 (0.523)</b> <b>C:92% T:NA</b>	pCi/L	08/16/23 13:44	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.327U ± 0.297 (0.599)</b> <b>C:78% T:84%</b>	pCi/L	08/02/23 11:08	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.716U ± 0.587 (1.12)</b>	pCi/L	08/17/23 21:43	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGASG\_1415  
 Pace Project No.: 30607006

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.983 ± 0.395 (0.425)</b> <b>C:94% T:NA</b>	pCi/L	08/16/23 13:44	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.589U ± 0.337 (0.603)</b> <b>C:79% T:85%</b>	pCi/L	08/02/23 11:08	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.57 ± 0.732 (1.03)</b>	pCi/L	08/17/23 21:43	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGASG\_1415  
 Pace Project No.: 30607006

**Sample: BD12814 MW-2**      **Lab ID: 30607006014**      Collected: 07/11/23 16:20      Received: 07/19/23 15:10      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	<b>0.185U ± 0.215 (0.447)</b> <b>C:103% T:NA</b>	pCi/L	08/16/23 16:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.197U ± 0.347 (0.759)</b> <b>C:75% T:79%</b>	pCi/L	08/02/23 11:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.382U ± 0.562 (1.21)</b>	pCi/L	08/17/23 21:43	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGASG\_1415  
 Pace Project No.: 30607006

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.691 ± 0.333 (0.433)</b> <b>C:86% T:NA</b>	pCi/L	08/16/23 16:01	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.445U ± 0.345 (0.677)</b> <b>C:72% T:86%</b>	pCi/L	08/02/23 11:08	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.14 ± 0.678 (1.11)</b>	pCi/L	08/17/23 21:43	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGASG\_1415  
 Pace Project No.: 30607006

**Sample: BD12816 MW-15**      **Lab ID: 30607006016**      Collected: 07/12/23 10:23      Received: 07/19/23 15:10      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	<b>0.348U ± 0.267 (0.484)</b> <b>C:97% T:NA</b>	pCi/L	08/16/23 16:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.205U ± 0.304 (0.656)</b> <b>C:78% T:83%</b>	pCi/L	08/02/23 11:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.553U ± 0.571 (1.14)</b>	pCi/L	08/17/23 21:43	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGASG\_1415  
 Pace Project No.: 30607006

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.402U ± 0.335 (0.652)</b> <b>C:94% T:NA</b>	pCi/L	08/16/23 16:04	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.208U ± 0.291 (0.624)</b> <b>C:79% T:88%</b>	pCi/L	08/02/23 11:09	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.610U ± 0.626 (1.28)</b>	pCi/L	08/17/23 21:44	7440-14-4	

**REPORT OF LABORATORY ANALYSIS**

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGASG\_1415  
 Pace Project No.: 30607006

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.554 ± 0.321 (0.529)</b> <b>C:106% T:NA</b>	pCi/L	08/16/23 16:04	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.587U ± 0.345 (0.631)</b> <b>C:83% T:87%</b>	pCi/L	08/02/23 11:09	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.14U ± 0.666 (1.16)</b>	pCi/L	08/17/23 21:44	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGASG\_1415  
 Pace Project No.: 30607006

**Sample: BD12819 EB-1**      **Lab ID: 30607006019**      Collected: 07/12/23 12:30      Received: 07/19/23 15:10      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	<b>0.321U ± 0.253 (0.452)</b> <b>C:93% T:NA</b>	pCi/L	08/16/23 16:04	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.237U ± 0.276 (0.579)</b> <b>C:81% T:90%</b>	pCi/L	08/16/23 12:43	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.558U ± 0.529 (1.03)</b>	pCi/L	08/23/23 11:54	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGASG\_1415  
 Pace Project No.: 30607006

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.425U ± 0.282 (0.468)</b> <b>C:103% T:NA</b>	pCi/L	08/16/23 16:04	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.865U ± 0.502 (0.944)</b> <b>C:67% T:87%</b>	pCi/L	08/02/23 11:09	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.29U ± 0.784 (1.41)</b>	pCi/L	08/17/23 21:44	7440-14-4	

**REPORT OF LABORATORY ANALYSIS**

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGASG\_1415  
 Pace Project No.: 30607006

**Sample: BD12821 MW-14S Dup**      **Lab ID: 30607006021**      Collected: 07/12/23 13:08      Received: 07/19/23 15:10      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	<b>0.613 ± 0.324 (0.463)</b> <b>C:91% T:NA</b>	pCi/L	08/17/23 12:10	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.645U ± 0.402 (0.763)</b> <b>C:77% T:86%</b>	pCi/L	08/02/23 11:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.26 ± 0.726 (1.23)</b>	pCi/L	08/17/23 21:44	7440-14-4	

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: WMWGASG\_1415  
 Pace Project No.: 30607006

QC Batch: 604659	Analysis Method: EPA 9315
QC Batch Method: EPA 9315	Analysis Description: 9315 Total Radium
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30607006021

METHOD BLANK: 2940310 Matrix: Water

Associated Lab Samples: 30607006021

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.183 ± 0.120 (0.197) C:94% T:NA	pCi/L	08/17/23 12:10	

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: WMWGASG\_1415  
 Pace Project No.: 30607006

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QC Batch:	604181	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30607006001, 30607006002, 30607006003, 30607006004, 30607006005, 30607006006, 30607006007, 30607006008, 30607006009, 30607006010, 30607006011, 30607006012, 30607006013, 30607006014, 30607006015, 30607006016, 30607006017, 30607006018, 30607006019, 30607006020

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METHOD BLANK: 2937704 Matrix: Water

Associated Lab Samples: 30607006001, 30607006002, 30607006003, 30607006004, 30607006005, 30607006006, 30607006007, 30607006008, 30607006009, 30607006010, 30607006011, 30607006012, 30607006013, 30607006014, 30607006015, 30607006016, 30607006017, 30607006018, 30607006019, 30607006020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0795 ± 0.104 (0.223) C:93% T:NA	pCi/L	08/16/23 19:25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: WMWGASG\_1415  
 Pace Project No.: 30607006

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QC Batch:	604231	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30607006001, 30607006002, 30607006003, 30607006004, 30607006005, 30607006006, 30607006007, 30607006008, 30607006009, 30607006010, 30607006011, 30607006012, 30607006013, 30607006014, 30607006015, 30607006016, 30607006017, 30607006018, 30607006020, 30607006021

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METHOD BLANK: 2937949 Matrix: Water

Associated Lab Samples: 30607006001, 30607006002, 30607006003, 30607006004, 30607006005, 30607006006, 30607006007, 30607006008, 30607006009, 30607006010, 30607006011, 30607006012, 30607006013, 30607006014, 30607006015, 30607006016, 30607006017, 30607006018, 30607006020, 30607006021

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.236 ± 0.257 (0.532) C:77% T:88%	pCi/L	08/02/23 11:09	

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: WMWGASG\_1415  
 Pace Project No.: 30607006

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QC Batch: 607648	Analysis Method: EPA 9320
QC Batch Method: EPA 9320	Analysis Description: 9320 Radium 228
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30607006019

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METHOD BLANK: 2956323 Matrix: Water

Associated Lab Samples: 30607006019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.697 ± 0.348 (0.591) C:80% T:86%	pCi/L	08/16/23 12:43	

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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## QUALIFIERS

Project: WMWGASG\_1415  
Pace Project No.: 30607006

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: WMWGASG\_1415  
 Pace Project No.: 30607006

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30607006001	BD12803 MW-5	EPA 9315	604181		
30607006002	BD12803 MW-5 MS	EPA 9315	604181		
30607006003	BD12803 MW-5 MSD	EPA 9315	604181		
30607006004	BD12804 MW-6	EPA 9315	604181		
30607006005	BD12805 MW-7	EPA 9315	604181		
30607006006	BD12806 MW-8	EPA 9315	604181		
30607006007	BD12807 MW-9	EPA 9315	604181		
30607006008	BD12808 MW-10	EPA 9315	604181		
30607006009	BD12809 MW-10 Dup	EPA 9315	604181		
30607006010	BD12810 MW-11	EPA 9315	604181		
30607006011	BD12811 MW-12	EPA 9315	604181		
30607006012	BD12812 MW-13	EPA 9315	604181		
30607006013	BD12813 MW-1	EPA 9315	604181		
30607006014	BD12814 MW-2	EPA 9315	604181		
30607006015	BD12815 FB-1	EPA 9315	604181		
30607006016	BD12816 MW-15	EPA 9315	604181		
30607006017	BD12817 FB-2	EPA 9315	604181		
30607006018	BD12818 MW-3	EPA 9315	604181		
30607006019	BD12819 EB-1	EPA 9315	604181		
30607006020	BD12820 MW-14S	EPA 9315	604181		
30607006021	BD12821 MW-14S Dup	EPA 9315	604659		
30607006001	BD12803 MW-5	EPA 9320	604231		
30607006002	BD12803 MW-5 MS	EPA 9320	604231		
30607006003	BD12803 MW-5 MSD	EPA 9320	604231		
30607006004	BD12804 MW-6	EPA 9320	604231		
30607006005	BD12805 MW-7	EPA 9320	604231		
30607006006	BD12806 MW-8	EPA 9320	604231		
30607006007	BD12807 MW-9	EPA 9320	604231		
30607006008	BD12808 MW-10	EPA 9320	604231		
30607006009	BD12809 MW-10 Dup	EPA 9320	604231		
30607006010	BD12810 MW-11	EPA 9320	604231		
30607006011	BD12811 MW-12	EPA 9320	604231		
30607006012	BD12812 MW-13	EPA 9320	604231		
30607006013	BD12813 MW-1	EPA 9320	604231		
30607006014	BD12814 MW-2	EPA 9320	604231		
30607006015	BD12815 FB-1	EPA 9320	604231		
30607006016	BD12816 MW-15	EPA 9320	604231		
30607006017	BD12817 FB-2	EPA 9320	604231		
30607006018	BD12818 MW-3	EPA 9320	604231		
30607006019	BD12819 EB-1	EPA 9320	607648		
30607006020	BD12820 MW-14S	EPA 9320	604231		
30607006021	BD12821 MW-14S Dup	EPA 9320	604231		
30607006001	BD12803 MW-5	Total Radium Calculation	609511		
30607006004	BD12804 MW-6	Total Radium Calculation	609511		
30607006005	BD12805 MW-7	Total Radium Calculation	609511		
30607006006	BD12806 MW-8	Total Radium Calculation	609511		

**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGASG\_1415  
Pace Project No.: 30607006

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30607006007	BD12807 MW-9	Total Radium Calculation	609511		
30607006008	BD12808 MW-10	Total Radium Calculation	609511		
30607006009	BD12809 MW-10 Dup	Total Radium Calculation	609511		
30607006010	BD12810 MW-11	Total Radium Calculation	609511		
30607006011	BD12811 MW-12	Total Radium Calculation	609511		
30607006012	BD12812 MW-13	Total Radium Calculation	609511		
30607006013	BD12813 MW-1	Total Radium Calculation	609511		
30607006014	BD12814 MW-2	Total Radium Calculation	609511		
30607006015	BD12815 FB-1	Total Radium Calculation	609511		
30607006016	BD12816 MW-15	Total Radium Calculation	609511		
30607006017	BD12817 FB-2	Total Radium Calculation	609511		
30607006018	BD12818 MW-3	Total Radium Calculation	609511		
30607006019	BD12819 EB-1	Total Radium Calculation	610586		
30607006020	BD12820 MW-14S	Total Radium Calculation	609511		
30607006021	BD12821 MW-14S Dup	Total Radium Calculation	609511		

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY / Analytical Request Document

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


Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Alabama Power Company	Report To:	Brooke Catton	Attention:	Brooke Catton
Address:	744 Highway 87 GSC Bldg #8 Calera, AL 35040	Copy To:	Renee Jernigan & Blaine Denton	Company Name:	Alabama Power Co.
Email To:	tbwill@southemco.com	Purchase Order #:	APC87119-0001	Address:	744 Highway 87 GSC Bldg #8
Phone:	205-664-6101   Fax	Project Name:	Plant Gaston Gypsum Storage Area	Pace Quote:	CCR
Requested Due Date:	28 days	Project Number:	WMWGASG_1415	Pace Project Manager:	Skyler Richmond
				Pace Profile #:	16788
				Regulatory Agency:	AL

ITEM #	Description	Station Name Location_ID	Site Name Facility_ID	Matrix Spike/Matrix Spike Duplicate	Field Filtered	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Preservatives	Analyses Test	EPA 9315	EPA 9320	Total Radium Sum	Residual Chlorine (Y/N)
							START DATE	TIME							
1	BD12803	MW-5	APCO-GN-GSA-MW-5	APCO_Gaston_GypsumStore	x	GW G	7/10/2013	12:50	3	Unpreserved	X	X	X	X	001, 002, 1003
2	BD12804	MW-6	APCO-GN-GSA-MW-6	APCO_Gaston_GypsumStore		GW G	7/10/2013	14:35	1	H2SO4	X	X	X	X	004
3	BD12805	MW-7	APCO-GN-GSA-MW-7	APCO_Gaston_GypsumStore		GW G	7/10/2013	15:50	1	HNO3	X	X	X	X	005
4	BD12806	MW-8	APCO-GN-GSA-MW-8	APCO_Gaston_GypsumStore		GW G	7/11/2013	8:53	1	Unpreserved	X	X	X	X	006
5	BD12807	MW-9	APCO-GN-GSA-MW-9	APCO_Gaston_GypsumStore		GW G	7/11/2013	10:18	1	H2SO4	X	X	X	X	007
6	BD12808	MW-10	APCO-GN-GSA-MW-10	APCO_Gaston_GypsumStore		GW G	7/11/2013	11:09	1	HNO3	X	X	X	X	008
7	BD12809	MW-10 Dup	APCO-GN-GSA-MW-10	APCO_Gaston_GypsumStore	x	GW G	7/11/2013	11:09	1	Unpreserved	X	X	X	X	009
8	BD12810	MW-11	APCO-GN-GSA-MW-11	APCO_Gaston_GypsumStore		GW G	7/11/2013	12:15	1	H2SO4	X	X	X	X	010
9	BD12811	MW-12	APCO-GN-GSA-MW-12	APCO_Gaston_GypsumStore		GW G	7/11/2013	13:10	1	HNO3	X	X	X	X	011
10	BD12812	MW-13	APCO-GN-GSA-MW-13	APCO_Gaston_GypsumStore		GW G	7/11/2013	14:00	1	Unpreserved	X	X	X	X	012
11	BD12813	MW-1	APCO-GN-GSA-MW-1	APCO_Gaston_GypsumStore		GW G	7/11/2013	14:53	1	H2SO4	X	X	X	X	013
12	BD12814	MW-2	APCO-GN-GSA-MW-2	APCO_Gaston_GypsumStore		GW G	7/11/2013	16:20	1	HNO3	X	X	X	X	014

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP in C
	Brooke Catton/ APC GTL	7/14/2013	14:00	<i>Brooke Catton</i>	7/19/13	15:10	

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: T.J. Daugherty  
 SIGNATURE of SAMPLER: *T.J. Daugherty*  
 DATE Signed: *7/19/13*

**WO#: 30607006**



30607006

# CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company: Alabama Power Company	Report To: Brooke Catton	Company Name: Alabama Power Co.	Attention: Brooke Catton	Company Name: Alabama Power Co.	Address: 744 Highway 87 GSC Bldg #8
Address: 744 Highway 87 GSC Bldg #8	Copy To: Renee Jernigan & Blaine Denton	Address: 744 Highway 87 GSC Bldg #8	Address: 744 Highway 87 GSC Bldg #8	Address: 744 Highway 87 GSC Bldg #8	Address: 744 Highway 87 GSC Bldg #8
City: Calera, AL 35040	Purchase Order #: APC87119-0001	City: Calera, AL 35040	City: Calera, AL 35040	City: Calera, AL 35040	City: Calera, AL 35040
Email To: ibwill@alpower.com	Project Name: Plant Gaston Gypsum Storage Area	City: Calera, AL 35040	City: Calera, AL 35040	City: Calera, AL 35040	City: Calera, AL 35040
Phone: 205-664-6101	Project Number: WNVGASG_1415	City: Calera, AL 35040	City: Calera, AL 35040	City: Calera, AL 35040	City: Calera, AL 35040
Requested Due Date: 28 days	Requested Due Date: 28 days	City: Calera, AL 35040	City: Calera, AL 35040	City: Calera, AL 35040	City: Calera, AL 35040

ITEM #	Description	Station Name Location_ID	Site Name Facility_ID	Sample Duplicate	Matrix Spike/Matrix Spike Duplicate	Field Filtered	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Preservatives	Analyses Test	EPA 9315	EPA 9320	Total Radium Sum	Residual Chlorine (Y/N)
									DATE	TIME							
1	BD12815	APCO-GN-GSA-FB-01	APCO_Gaston_GypsumStore				GW	G	7/11/2023	17:05	1	HNO3	X	X	X		
2	BD12816	APCO-GN-GSA-MW-15	APCO_Gaston_GypsumStore				GW	G	7/12/2023	10:23	1	H2SO4	X	X	X		
3	BD12817	APCO-GN-GSA-FB-02	APCO_Gaston_GypsumStore				GW	G	7/12/2023	11:05	1	Unpreserved	X	X	X		
4	BD12818	APCO-GN-GSA-MW-3	APCO_Gaston_GypsumStore				GW	G	7/12/2023	11:55	1	HNO3	X	X	X		
5	BD12819	APCO-GN-GSA-EB-01	APCO_Gaston_GypsumStore				GW	G	7/12/2023	12:30	1	HNO3	X	X	X		
6	BD12820	APCO-GN-GSA-MW-14S	APCO_Gaston_GypsumStore				GW	G	7/12/2023	13:08	1	HNO3	X	X	X		
7	BD12821	APCO-GN-GSA-MW-14S Dup	APCO_Gaston_GypsumStore	X			GW	G	7/12/2023	13:08	1	HNO3	X	X	X		
8																	
9																	
10																	
11																	
12																	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Brooke Catton/ APC-GTL	7/14/2023	14:00	<i>Brooke Catton</i>	7/19/23	15:10	N Y Y

**WO#: 30607006**


PM: SCR Due Date: 08/17/23

CLIENT: ALABAMA PWR

SAMPLER NAME AND SIGNATURE: PRINT Name of SAMPLER: SIGNATURE of SAMPLER:

DATE Signed: TJ Daugherty

Received on: TEMP in C: Residual Chlorine (Y/N):


**DC#\_Title: ENV-FRM-GBUR-0088 v05\_Sample Condition Upon Receipt- Pittsburgh**  
**WO#: 30607006**  
 Effective Date: 07/06/2023  
 PM: SCR Due Date: 08/17/23  
 CLIENT: ALABAMA PWR  
 Client Name: Alabama Power

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other Initial / Date  
 Tracking Number: 6368 8465 6527  
 Examined By: PS 7/14/23  
 Custody Seal on Cooler/Box Present:  Yes  No Seals Intact:  Yes  No Labeled By: PS 7/14/23  
 Thermometer Used: \_\_\_\_\_ Type of Ice: Wet Blue None Temped By: \_\_\_\_\_  
 Cooler Temperature: Observed Temp \_\_\_\_\_ °C Correction Factor: \_\_\_\_\_ °C Final Temp: \_\_\_\_\_ °C  
 Temp should be above freezing to 6°C

Comments:	Yes	No	NA	pH paper Lot# 1003121	D.P.D. Residual Chlorine Lot # _____
Chain of Custody Present	/			1.	
Chain of Custody Filled Out: -Were client corrections present on COC	/			2.	
Chain of Custody Relinquished		/		3. No Sig.	
Sampler Name & Signature on COC:		/		4. NO sig.	
Sample Labels match COC: -Includes date/time/ID Matrix: <u>WT</u>	/			5.	
Samples Arrived within Hold Time:	/			6.	
Short Hold Time Analysis (<72hr remaining):		/		7.	
Rush Turn Around Time Requested:		/		8.	
Sufficient Volume:	/			9.	
Correct Containers Used: -Pace Containers Used	/			10.	
Containers Intact:	/			11.	
Orthophosphate field filtered:			/	12.	
Hex Cr Aqueous samples field filtered:			/	13.	
Organic Samples checked for dechlorination			/	14.	
Filtered volume received for dissolved tests:			/	15.	
All containers checked for preservation: exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix	/			16.	
All containers meet method preservation requirements:	/			Initial when completed <u>PS</u>	Date/Time of Preservation
				Lot# of added Preservative	
8260C/D: Headspace in VOA Vials (> 6mm)			/	17.	
624.1: Headspace in VOA Vials (0mm)			/	18.	
Trip Blank Present:			/	Trip blank custody seal present? YES or NO	
Rad Samples Screened <0.5 mrem/hr.	/			Initial when completed <u>AWL</u>	Date: <u>7/19/23</u> Survey Meter SN: <u>1563</u>
Comments:					

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office. PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

Client

Site Plant Eastern Gypsum

Page 1 of 2

Profile Number

Notes

16788

Sample Line Item	Amber Glass										Plastic							Vials						Other						
	Matrix	AG1H	AG3S	AG3U	AG5U	AG5T	BP1N	BP1U	BP2S	BP2U	BP3C	BP3N	BP3S	BP3U	DG9S	VG9H	VG9T	VG9U	VOAK	WG9U	WG9T	WG9U	ZPLC	GCUB	GJN	12GN	GN	BG1U		
001	WT																													
002																														
003																														
004																														
005																														
006																														
007																														
008																														
009																														
010																														
011																														
012																														

Container Codes

Glass	
GJN	1 Gallon Jug with HNO3
AG5U	100mL amber glass unpreserved
AG5T	100mL amber glass Na Thiosulfate
GJN	1 Gallon Jug
AG1S	1L amber glass H2SO4
AG1H	1L amber glass HCl
AG1T	1L amber glass NA Thiosulfate
BG1U	1L clear glass unpreserved
AG3S	250mL amber glass H2SO4
AG3U	250mL amber glass unpres

**WO#: 30607006**

PM: SCR Due Date: 08/17/23  
 CLIENT: ALABAMA PWR

Qualtrax ID: 55678

Plastic/Misc.	
GCUB	1 gallon cubitainer
12GN	1/2 gallon cubitainer
SP5T	120mL coliform Na Thiosulfate
BP1N	1L plastic HNO3
BP1U	1L plastic unpreserved
BP3S	250mL plastic H2SO4
BP3N	250mL plastic HNO3
BP3U	250mL plastic unpreserved
BP3C	250mL plastic NAOH
BP2S	500mL plastic H2SO4
BP2U	500mL plastic unpreserved

Analytical Services, LLC

Client \_\_\_\_\_ Profile Number \_\_\_\_\_  
 Site \_\_\_\_\_ Notes \_\_\_\_\_  
 Page  7  of  2

Sample Line Item	Matrix	Amber Glass										Plastic										Vials										Other					
		AG1H	AG3S	AG3U	AG5U	AG5T	BP1N	BP1U	BP2S	BP2U	BP3C	BP3N	BP3S	BP3U	DG9S	VG9H	VG9T	VG9U	VOAK	WGKU	WGKU	ZPLC	GCUB	GJN	12GN	GN	BG1U										
013	WT																																				
014																																					
015																																					
016																																					
017																																					
018																																					
019																																					
020																																					
120																																					

Container Codes

Glass	
GJN	1 Gallon Jug with HNO3
DG9S	40mL amber VOA vial H2SO4
AG6U	100mL amber glass unpreserved
VG9U	40mL clear VOA vial
AG5T	100mL amber glass Na Thiosulfate
VG9T	40mL clear VOA vial Na Thiosulfate
GJN	1 Gallon Jug
VG9H	40mL clear VOA vial HCl
AG1S	1L amber glass H2SO4
JGFU	4oz amber wide jar
AG1H	1L amber glass HCl
WGFU	4oz wide jar unpreserved
AG1T	1L amber glass NA Thiosulfate
BG2U	500mL clear glass unpreserved
BG1U	1L clear glass unpreserved
AG2U	500mL amber glass unpreserved
AG3S	250mL amber glass H2O
AG3U	250mL amber glass un

**WO#: 30607006**

PM: SCR Due Date: 08/17/23  
 CLIENT: ALABAMA PHR

Qualtrax ID: 55678

Plastic/Misc.	
GCUB	1 gallon cubitainer
12GN	1/2 gallon cubitainer
SP5T	120mL coliform Na Thiosulfate
BP1N	1L plastic HNO3
BP1U	1L plastic unpreserved
BP3S	250mL plastic H2SO4
BP3N	250mL plastic HNO3
BP3U	250mL plastic unpreserved
BP3C	250mL plastic NAOH
BP2S	500mL plastic H2SO4
BP2U	500mL plastic unpreserved

EZI	5g Encore
VOAK	Kit Volatile Solid
I	Wipe/Swab
ZPLC	Siploc Bag
WT	Water
SL	Solid
OL	Non-Aq Liquid
WP	Wipe

# Quality Control Sample Performance Assessment



*Analyst Must Manually Enter All Fields Highlighted in Yellow.*

Test: Ra-226  
Analyst: SLC  
Date: 7/27/2023  
Worklist: 74467  
Matrix: WT

Method Blank Assessment	
MB Sample ID	2937704
MB concentration:	0.080
MB 2 Sigma CSU:	0.104
MB MDC:	0.223
MB Numerical Performance Indicator:	1.50
MB Status vs. Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	
LCS (Y or N)?	Y
LCS74467	LCS74467
Count Date:	8/16/2023
Spike I.D.:	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.014
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.512
Target Conc. (pCi/L, g, F):	4.688
Uncertainty (Calculated):	0.056
Result (pCi/L, g, F):	5.304
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.910
Numerical Performance Indicator:	1.33
Percent Recovery:	113.15%
Status vs Numerical Indicator:	Pass
Status vs Recovery:	N/A
Upper % Recovery Limits:	125%
Lower % Recovery Limits:	75%

Duplicate Sample Assessment	
Sample I.D.:	LCS74467
Duplicate Sample I.D.:	LCS74467
Sample Result (pCi/L, g, F):	5.304
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.910
Sample Duplicate Result (pCi/L, g, F):	5.573
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.958
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-0.399
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.29%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	N/A
% RPD Limit:	25%

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	Sample I.D.:	30607006001	
Spike Volume Used in MS (mL):	Sample MS I.D.:	30607006002	
Spike Volume Used in MSD (mL):	Sample MSD I.D.:	30607006003	
MS Aliquot (L, g, F):	Spike I.D.:	19-033	
MS Target Conc. (pCi/L, g, F):	MS/MSD Decay Corrected Spike Concentration (pCi/mL):	25.335	
MSD Aliquot (L, g, F):	Spike Volume Used in MS (mL):	0.20	
MSD Target Conc. (pCi/L, g, F):	Spike Volume Used in MSD (mL):	0.20	
MS Spike Uncertainty (calculated):	MS Aliquot (L, g, F):	0.202	
MSD Spike Uncertainty (calculated):	MS Target Conc. (pCi/L, g, F):	25.118	
Sample Result:	MSD Aliquot (L, g, F):	0.206	
Sample Result 2 Sigma CSU (pCi/L, g, F):	MSD Target Conc. (pCi/L, g, F):	24.656	
Sample Matrix Spike Duplicate Result:	MS Spike Uncertainty (calculated):	0.301	
Sample Matrix Spike Duplicate Result:	MSD Spike Uncertainty (calculated):	0.296	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	Sample Result:	0.501	
MS Numerical Performance Indicator:	Sample Result 2 Sigma CSU (pCi/L, g, F):	0.286	
MS Numerical Performance Indicator:	Sample Matrix Spike Result:	28.768	
MS Percent Recovery:	Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	4.532	
MSD Percent Recovery:	Sample Matrix Spike Duplicate Result:	26.308	
MS Status vs Numerical Indicator:	Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	4.205	
MS Status vs Recovery:	MS Numerical Performance Indicator:	1.356	
MSD Status vs Numerical Indicator:	MS Numerical Performance Indicator:	0.534	
MSD Status vs Recovery:	MS Percent Recovery:	112.54%	
MS/MSD Upper % Recovery Limits:	MSD Percent Recovery:	104.67%	
MS/MSD Lower % Recovery Limits:	MS Status vs Numerical Indicator:	Pass	
	MSD Status vs Numerical Indicator:	Pass	
	MS Status vs Recovery:	N/A	
	MSD Status vs Recovery:	N/A	
	MS/MSD Upper % Recovery Limits:	125%	
	MS/MSD Lower % Recovery Limits:	75%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30607006001
Sample MS I.D.:	30607006002
Sample Matrix Spike Result:	28.768
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	4.532
Sample Matrix Spike Duplicate Result:	26.308
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	4.205
Duplicate Numerical Performance Indicator:	0.780
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	7.25%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	N/A
% RPD Limit:	25%

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

8-22-23

LAM 8/22/23

# Quality Control Sample Performance Assessment



Analyst *Must Manually Enter All Fields Highlighted in Yellow.*

Test: Ra-226  
Analyst: SLC  
Date: 7/28/2023  
Worklist: 74504  
Matrix: WT

Method Blank Assessment	
MB Sample ID	29-0310
MB concentration:	0.183
M/B 2 Sigma CSU:	0.120
MB MDC:	0.197
MB Numerical Performance Indicator:	2.99
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment		
LCS#	(Y or N)?	Y
LCS74504		LCS74504
Count Date:	8/17/2023	8/17/2023
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.014	24.014
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.503	0.509
Target Conc. (pCi/L, g, F):	4.777	4.719
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	5.918	4.943
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.005	0.860
Numerical Performance Indicator:	2.22	0.51
Percent Recovery:	123.88%	104.74%
Status vs Numerical Indicator:	Warning	Pass
Upper % Recovery Limits:	N/A	N/A
Lower % Recovery Limits:	125%	125%
	75%	75%

Duplicate Sample Assessment	
Sample I.D.:	LCS74504
Duplicate Sample I.D.:	LCS74504
Sample Result (pCi/L, g, F):	5.918
Sample Duplicate Result (pCi/L, g, F):	1.005
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	4.943
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.860
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	1.445
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	16.74%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	N/A
% RPD Limit:	25%

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:			
Sample MS I.D.:			
Sample MSD I.D.:			
Spike I.D.:			
MS/MSD Decay Corrected Spike Concentration (pCi/mL):			
Spike Volume Used in MSD (mL):			
MS Aliquot (L, g, F):			
MS Target Conc. (pCi/L, g, F):			
MSD Target Conc. (pCi/L, g, F):			
MS Spike Uncertainty (calculated):			
MSD Spike Uncertainty (calculated):			
Sample Result:			
Sample Result 2 Sigma CSU (pCi/L, g, F):			
Sample Matrix Spike Result:			
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):			
Sample Matrix Spike Duplicate Result:			
Matrix Spike Duplicate Result 2 Sigma CSU (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:			

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 2 Sigma CSU (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Result 2 Sigma CSU (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:

8/22/23  
LAW8/22/23



# Quality Control Sample Performance Assessment



Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228  
Analyst: VAL  
Date: 7/28/2023  
Worklist: 74471  
Matrix: WT

Method Blank Assessment	
MB Sample ID	2937949
MB concentration:	0.236
MB 2 Sigma CSU:	0.257
MB MDC:	0.532
MB Numerical Performance Indicator:	1.80
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?		N
	LCS74471	LCSD74471	
Count Date:	8/2/2023		LCSD74471
Spike I.D.:	23-043		
Decay Corrected Spike Concentration (pCi/mL):	40.397		
Volume Used (mL):	0.10		
Aliquot Volume (L, g, F):	0.816		
Target Conc. (pCi/L, g, F):	4.952		
Uncertainty (Calculated):	0.243		
Result (pCi/L, g, F):	5.143		
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.085		
Numerical Performance Indicator:	0.34		
Percent Recovery:	103.86%		
Status vs Numerical Indicator:	N/A		
Status vs Recovery:	Pass		
Upper % Recovery Limits:	135%		
Lower % Recovery Limits:	60%		

Duplicate Sample Assessment	Duplicate Matrix Spike Duplicate Sample Assessment
<p>Sample I.D.:</p> <p>Duplicate Sample I.D.:</p> <p>Sample Result (pCi/L, g, F):</p> <p>Sample Duplicate Result (pCi/L, g, F):</p> <p>Sample Result 2 Sigma CSU (pCi/L, g, F):</p> <p>Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):</p> <p>Are sample and/or duplicate results below RL?</p> <p>Duplicate Numerical Performance Indicator:</p> <p>Duplicate RPD:</p> <p>Duplicate Status vs Numerical Indicator:</p> <p>Duplicate Status vs RPD:</p> <p>% RPD Limit:</p>	<p>Sample I.D.:</p> <p>Sample MS I.D.:</p> <p>Sample MSD I.D.:</p> <p>Sample Matrix Spike Result:</p> <p>Sample Matrix Spike Duplicate Result:</p> <p>Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):</p> <p>Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):</p> <p>Duplicate Numerical Performance Indicator:</p> <p>Duplicate Status vs Numerical Indicator:</p> <p>Duplicate Status vs RPD:</p> <p>% RPD Limit:</p>
<p>Enter Duplicate sample IDs if other than LCS/LCSD in the space below.</p> <p>See Below ##</p>	<p>(Based on the Percent Recoveries) MS/MSD Duplicate RPD:</p> <p>MS/MSD Duplicate Status vs Numerical Indicator:</p> <p>MS/MSD Duplicate Status vs RPD:</p> <p>% RPD Limit:</p>

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*Handwritten signature*  
VAL  
8/8/23

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	7/10/2023	
Sample I.D.:	30607006001	
Sample MS I.D.:	30607006002	
Sample MSD I.D.:	30607006003	
Spike I.D.:	23-043	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	40.704	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.802	
MS Target Conc. (pCi/L, g, F):	10.149	
MSD Aliquot (L, g, F):	0.801	
MSD Target Conc. (pCi/L, g, F):	10.158	
MSD Spike Uncertainty (calculated):	0.497	
MSD Spike Uncertainty (calculated):	0.498	
Sample Result:	0.925	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.349	
Sample Matrix Spike Result:	10.430	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	2.061	
Sample Matrix Spike Duplicate Result:	10.492	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	2.067	
MS Numerical Performance Indicator:	-0.587	
MSD Numerical Performance Indicator:	-0.537	
MS Percent Recovery:	93.66%	
MSD Percent Recovery:	94.19%	
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%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30607006001
Sample MS I.D.:	30607006002
Sample MSD I.D.:	30607006003
Sample Matrix Spike Result:	10.430
Sample Matrix Spike Duplicate Result:	2.061
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	10.492
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	2.067
Duplicate Numerical Performance Indicator:	-0.041
Duplicate Status vs Numerical Indicator:	0.56%
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

# Quality Control Sample Performance Assessment



**Analyst** *Must Manually Enter All Fields Highlighted in Yellow.*

Test: Ra-228  
Analyst: JJS1  
Date: 8/14/2023  
Worklist: 74710  
Matrix: WT

Method Blank Assessment	
MB Sample ID	2956323
MB concentration:	0.697
MB 2 Sigma CSU:	0.348
MB MDC:	0.591
MB Numerical Performance Indicator:	3.93
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	
LCSD (Y or N)?	N
LCSD74710	LCSD74710
Count Date:	8/16/2023
Spike I.D.:	23-043
Decay Corrected Spike Concentration (pCi/mL):	40.210
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.815
Target Conc. (pCi/L, g, F):	4.933
Uncertainty (Calculated):	0.242
Result (pCi/L, g, F):	4.823
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.061
Numerical Performance Indicator:	-0.20
Percent Recovery:	97.76%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	135%
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 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:	

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	7/19/2023		
Sample I.D.:	30612020002		
Sample MS I.D.:	30612020003		
Sample MSD I.D.:	30612020004		
Spike I.D.:	23-043		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	40.586		
Spike Volume Used in MS (mL):	0.20		
Spike Volume Used in MSD (mL):	0.20		
MS Aliquot (L, g, F):	0.802		
MS Target Conc. (pCi/L, g, F):	10.119		
MSD Aliquot (L, g, F):	0.802		
MSD Target Conc. (pCi/L, g, F):	10.115		
MS Spike Uncertainty (calculated):	0.496		
MSD Spike Uncertainty (calculated):	0.496		
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.496		
Sample Matrix Spike Result:	0.469		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	10.056		
Sample Matrix Spike Duplicate Result:	1.983		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	10.027		
MS Numerical Performance Indicator:	1.983		
MSD Numerical Performance Indicator:	-1.458		
MS Percent Recovery:	84.59%		
MSD Percent Recovery:	84.34%		
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%		

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30612020002
Sample MS I.D.:	30612020003
Sample MSD I.D.:	30612020004
Sample Matrix Spike Result:	10.056
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.983
Sample Matrix Spike Duplicate Result:	10.027
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.983
Duplicate Numerical Performance Indicator:	0.020
Duplicate Numerical Performance Indicator:	0.29%
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	
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.

VAC (ms) 8/22/23  
8/22/23  
1 of 1

# Appendix D



## Appendix D. Horizontal Groundwater Flow Velocity Calculations Plant Gaston Gypsum Pond

2023 First Semi-Annual Monitoring Event								
Date of Measurement	GN-GSA-MW-6	GN-GSA-MW-7	Distance	Hydraulic Gradient	Hydraulic Conductivity	Effective Porosity	Calculated Groundwater Flow Velocity	Calculated Groundwater Flow Velocity
	$h_1$ (ft)	$h_2$ (ft)	$\Delta l$ (ft)	$\Delta h/\Delta l$ (ft/ft)	K (ft/d)	n	(ft/d)	(ft/yr)
1/17/2023	400.00	398.15	841.04	0.00220	0.42000	0.15	0.006159	2.25

Date of Measurement	GN-GSA-MW-9	GN-GSA-MW-8	Distance	Hydraulic Gradient	Hydraulic Conductivity	Effective Porosity	Calculated Groundwater Flow Velocity	Calculated Groundwater Flow Velocity
	$h_1$ (ft)	$h_2$ (ft)	$\Delta l$ (ft)	$\Delta h/\Delta l$ (ft/ft)	K (ft/d)	n	(ft/d)	(ft/yr)
1/17/2023	398.57	396.96	279.16	0.00577	0.42000	0.15	0.016148	5.89

2023 Second Semi-Annual Monitoring Event								
Date of Measurement	GN-GSA-MW-6	GN-GSA-MW-7	Distance	Hydraulic Gradient	Hydraulic Conductivity	Effective Porosity	Calculated Groundwater Flow Velocity	Calculated Groundwater Flow Velocity
	$h_1$ (ft)	$h_2$ (ft)	$\Delta l$ (ft)	$\Delta h/\Delta l$ (ft/ft)	K (ft/d)	n	(ft/d)	(ft/yr)
7/10/2023	399.24	397.64	841.04	0.00190	0.42000	0.15	0.005327	1.94

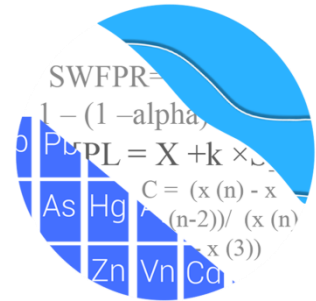
Date of Measurement	GN-GSA-MW-9	GN-GSA-MW-8	Distance	Hydraulic Gradient	Hydraulic Conductivity	Effective Porosity	Calculated Groundwater Flow Velocity	Calculated Groundwater Flow Velocity
	$h_1$ (ft)	$h_2$ (ft)	$\Delta l$ (ft)	$\Delta h/\Delta l$ (ft/ft)	K (ft/d)	n	(ft/d)	(ft/yr)
7/10/2023	399.14	397.06	279.16	0.00745	0.42000	0.15	0.020863	7.61

Notes:

ft = feet; ft/d = feet per day; ft/ft = feet per foot; ft/yr = feet per year

# Appendix E

# GROUNDWATER STATS CONSULTING



March 14, 2023

Southern Company Services  
Attn: Mr. Greg Dyer  
3535 Colonnade Parkway  
Birmingham, AL 35243

Re: Plant Gaston Gypsum Pond  
1<sup>st</sup> Semi-Annual Statistical Analysis – January 2023

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 January 2023 1<sup>st</sup> semi-annual sample event for Alabama Power Company's Plant Gaston Gypsum Pond. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals (CCR) from Electric Utilities (CCR Rule, 2015) as well as with the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling began at site for the CCR program in 2016. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** GN-GSA-MW-2, GN-GSA-MW-3, GN-GSA-MW-14S, and GN-GSA-MW-15
- **Downgradient wells:** GN-GSA-MW-1, GN-GSA-MW-5, GN-GSA-MW-6, GN-GSA-MW-7, GN-GSA-MW-8, GN-GSA-MW-9, GN-GSA-MW-10, GN-GSA-MW-11, GN-GSA-MW-12, and GN-GSA-MW-13
- **Delineation wells:** GN-GSA-GS2-1 and GN-GSA-GS2-4

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was prepared according to the Statistical Analysis Plan approved by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance, and Senior Advisor to Groundwater Stats Consulting. The analysis was reviewed by Andrew Collins, Project Manager 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. 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).

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): 80
- # 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, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the intrawell case, data for all wells and constituents may be re-evaluated when a minimum of 4 new data points are available to determine whether earlier concentrations are representative of present-day groundwater



quality. In the interwell case, prediction limits are updated with upgradient well data following each sampling event after careful screening for any new outliers. While not required for this report, in some cases, deselecting the earlier portion of data may be necessary prior to construction of limits so that resulting statistical limits are conservative (lower) from a regulatory perspective and capable of rapidly detecting changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

### **Background Update Summary – Conducted in Fall 2021**

Intrawell prediction limits, which compare the most recent compliance sample from a given well to historical data from the same well, are updated by testing for the appropriateness of consolidating new sampling observations with the screened background data. The last background update was performed in Fall 2021. This process is described below and requires a minimum of four new data points. Historical data were evaluated for updating with newer data through April 2021 through the use of time series graphs to identify potential outliers, when necessary, as well as with the Mann Whitney test for equality of medians. As discussed in the Statistical Analysis Plan (August 2020), intrawell prediction limits are used to evaluate calcium, chloride, sulfate, and TDS at all wells due to natural spatial variation in groundwater quality for these parameters.

Interwell prediction limits, which compare the most recent sample from each downgradient well to statistical limits constructed from pooled upgradient well data, are updated during each sample event after screening for new outliers. Data from upgradient wells are periodically re-screened for newly developing trends, which may require adjustment of the background period to eliminate the trend. Interwell prediction limits are used to evaluate boron, fluoride, and pH.

### Outlier Analysis

Prior to performing prediction limits, proposed background data through April 2021 were reviewed through visual screening to identify any newly suspected outliers at all wells for calcium, chloride sulfate, and TDS, and through October 2021 at upgradient wells for boron, fluoride, and pH. When identified, values were flagged with "o" and excluded to reduce variation, better represent background conditions, and provide limits that are conservative from a regulatory perspective.

During the background screening, two historical high values for sulfate in well GN-GSA-MW-6 were flagged as outliers. While some records contained historical concentrations of sulfate that are slightly higher than present-day concentrations, no

adjustments were required to these records due to the overall low concentrations throughout the entire record. As mentioned above, flagged data are displayed in a lighter font and as a disconnected symbol on the time series reports, as well as in a lighter font on the accompanying data pages.

### Mann-Whitney Comparison of Medians

For constituents requiring intrawell prediction limits, the Mann Whitney (Wilcoxon Rank Sum) test was used to compare the medians of historical data through May 2019 to compliance data through April 2021. Previously truncated records which resulted from the previous update were evaluated by comparing only the truncated portion of the data set to the more recent measurements. When the medians of the two groups are not statistically significantly different at the 99% confidence level, background data sets are updated to include the newer compliance data. Statistically significant differences (either an increase or decrease in median concentrations) were found between the two groups for the following well/constituent pairs:

#### Increase:

- Calcium: GN-GSA-MW-1, GN-GSA-MW-10, and GN-GSA-MW-13
- Chloride: GN-GSA-MW-11
- Sulfate: GN-GSA-MW-5 and GN-GSA-MW-8
- TDS: GN-GSA-MW-5 and GN-GSA-MW-10

#### Decrease:

- Calcium: GN-GSA-MW-15 (upgradient)
- Chloride: GN-GSA-MW-14S (upgradient)
- Sulfate: GN-GSA-MW-3 (upgradient)

Typically, when the test concludes that the medians of the two groups are statistically significantly different, particularly in the downgradient wells, the background data are not updated to include the newer data unless it can be reasonably justified that the change in concentrations reflects a naturally occurring shift unrelated to practices at the site. In studies such as the current one, in which at least one of the segments being compared is of short duration, the comparison is complicated by the fact that normal short-term variation may be mistaken for long-term change in medians.

While the increasing median concentrations between the background and compliance data were slightly different for calcium in downgradient wells GN-GSA-MW-1, GN-GSA-MW-10, and GN-GSA-MW-13, the majority of the reported measurements in more recent data are stable and similar to concentrations reported within each well's

respective background. Additionally, these concentrations are similar to those reported in at least one upgradient well. Therefore, these records were updated.

The statistically significant increasing differences identified at remaining downgradient wells by the Mann-Whitney test resulted from increases in median concentrations in more recent data. In order to maintain conservative (i.e., lower) statistical limits, the following well/constituent pairs were not updated during the screening:

- Calcium: GN-GSA-MW-5
- Chloride: GN-GSA-MW-11
- Sulfate: GN-GSA-MW-5 and GN-GSA-MW-8
- TDS: GN-GSA-MW-5 and GN-GSA-MW-10

Although not significant at the 99% confidence level, the increases in concentrations for calcium at well GN-GSA-MW-5 would lead to constructing statistical limits that would be difficult to detect any potential release from the facility. Therefore, the background data set for this well/constituent pair was not updated with compliance data.

The statistically significant decreasing differences identified at upgradient wells for calcium and chloride by the Mann-Whitney test resulted from slightly lower medians in more recent data compared to the medians of the historical data in these wells. These records, however, were updated since statistically significant decreases in medians between historical and compliance data sets signify lower concentrations and, subsequently, more conservative (i.e., lower) statistical limits. For sulfate in upgradient well GN-GSA-MW-3, however, more recent observations have stabilized at lower concentrations; therefore, the earlier portion of the record prior to February 2017 with higher concentrations was truncated to construct statistical limits that represent present-day groundwater quality. A list of well/constituent pairs using a truncated portion of their records follows this letter.

All records will be re-evaluated during the next background update. If future concentrations are similar to those observed currently, the earlier portion of the records may require deselection so only more recent data are used to construct statistical limits which are reflective of present-day water quality conditions. If, however, concentrations return to historical lower levels, more recent higher measurements may be flagged as outliers and deselected prior to construction of statistical limits

## Trend Analysis – Upgradient Wells

The Sen's Slope/Mann Kendall trend test was used to evaluate the entire record of data from upgradient wells for parameters utilizing interwell prediction limits. When statistically significant increasing trends are identified in upgradient wells, the earlier portion of data is deselected prior to construction of interwell statistical limits if the trending data would result in statistical limits that are not conservative from a regulatory perspective. No statistically significant trends were identified except for a statistically significant decreasing trend for pH in upgradient well GN-GSA-MW-15. Since the magnitude of the trend is marginal compared to the concentrations, no adjustments were required. A summary of these results was submitted with the Fall 2021 report.

### **Evaluation of Appendix III Parameters – January 2023**

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.

Note that for some well/constituent pairs containing <15% non-detects, such as sulfate in wells GN-GSA-MW-10 and GN-GSA-MW-15, parametric prediction limits slightly changed compared to those established during the background update. An update was made to the Sanitas™ statistical software in October 2022 that determines the percentage of non-detects within a given background record rather than all records evaluated for a given constituent. Simple substitution of 1/2 the reporting limit is applied when the percentage of non-detects is <15% in accordance with the USEPA EPA Unified Guidance (2009). No significant changes resulted from this implementation. Also note that the prediction limit for sulfate at well GN-GSA-MW-6 increased from 1.89 mg/L to 2 mg/L as a result of the reporting limit increasing from 1 mg/L to 2 mg/L. No significant changes occurred.

## Prediction Limits

Intrawell prediction limits, combined with a 1-of-2 resample plan, were constructed for calcium, chloride, sulfate, and TDS using screened background data through April 2021 at each well (Figure D). The January 2023 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.

Interwell prediction limits combined with a 1-of-2 verification strategy were constructed for boron, fluoride, and pH using upgradient well data through January 2023 (Figure E).

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When the resample confirms the initial exceedance, a statistically significant increase (SSI) is identified, and further research is required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If a resample falls within the statistical limit, the initial exceedance is considered to be a false positive result; therefore, no further action is necessary. A summary of the prediction limits results may be found in the Prediction Limit Summary tables following this letter (pages 15-18). Exceedances for both interwell and intrawell prediction limits were identified for the following well/constituent pairs:

### Intrawell:

- Calcium: GN-GSA-MW-5
- Chloride: GN-GSA-MW-2 (upgradient), GN-GSA-MW-11, and GN-GSA-MW-12
- Sulfate: GN-GSA-MW-5 and GN-GSA-MW-8
- TDS: GN-GSA-MW-5

### Interwell:

- Fluoride: GN-GSA-MW-1
- pH: GN-GSA-MW-1, 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 at the 99% confidence level (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 (pages 19-20). Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- 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

Decreasing:

- Calcium: GN-GSA-MW-15 and GN-GSA-MW-3 (both upgradient)
- Chloride: GN-GSA-MW-14S (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, GN-GSA-MW-14S, and GN-GSA-MW-15 (all upgradient)

### **Evaluation of Appendix IV Parameters – January 2023**

Data from all wells for Appendix IV parameters were reassessed for outliers during previous analyses. A summary of previously flagged outliers follows this report.

In accordance with Alabama Department of Environmental Management (ADEM), the Groundwater Protections Standards (GWPS) were updated during the 2021 2<sup>nd</sup> semi-annual statistical analysis. The GWPS will be updated again during the 2023 2<sup>nd</sup> semi-annual statistical analysis. The methodology used to create these GWPS is described below.

#### Interwell Upper Tolerance Limits

First, background limits were determined using upper tolerance limits (UTLs) constructed from pooled upgradient well data through October 2021 (Figure G). The tolerance limits contain a known fraction (coverage) of the background population with a known level of confidence. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. As requested by ADEM to eliminate variation among upgradient well data, nonparametric tolerance limits, which use the highest value in background as the statistical limit, were constructed. A summary of the upper tolerance limits follows this letter (page 21).

## Groundwater Protection Standards

These background limits were then compared to the Maximum Contaminant Levels (MCLs) for each parameter, and the higher of the two was used as the GWPS (Figure H, page 22) 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 January 2023 for each of the Appendix IV parameters (Figure I). These intervals were either parametric or nonparametric confidence intervals depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the highest and lowest values in background as interval limits with 8 samples, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects.

As mentioned above, well/constituent pairs containing 100% non-detects for the most recent 8 samples did not require statistics and 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 (pages 23-24). No confidence interval exceedances were noted.

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,

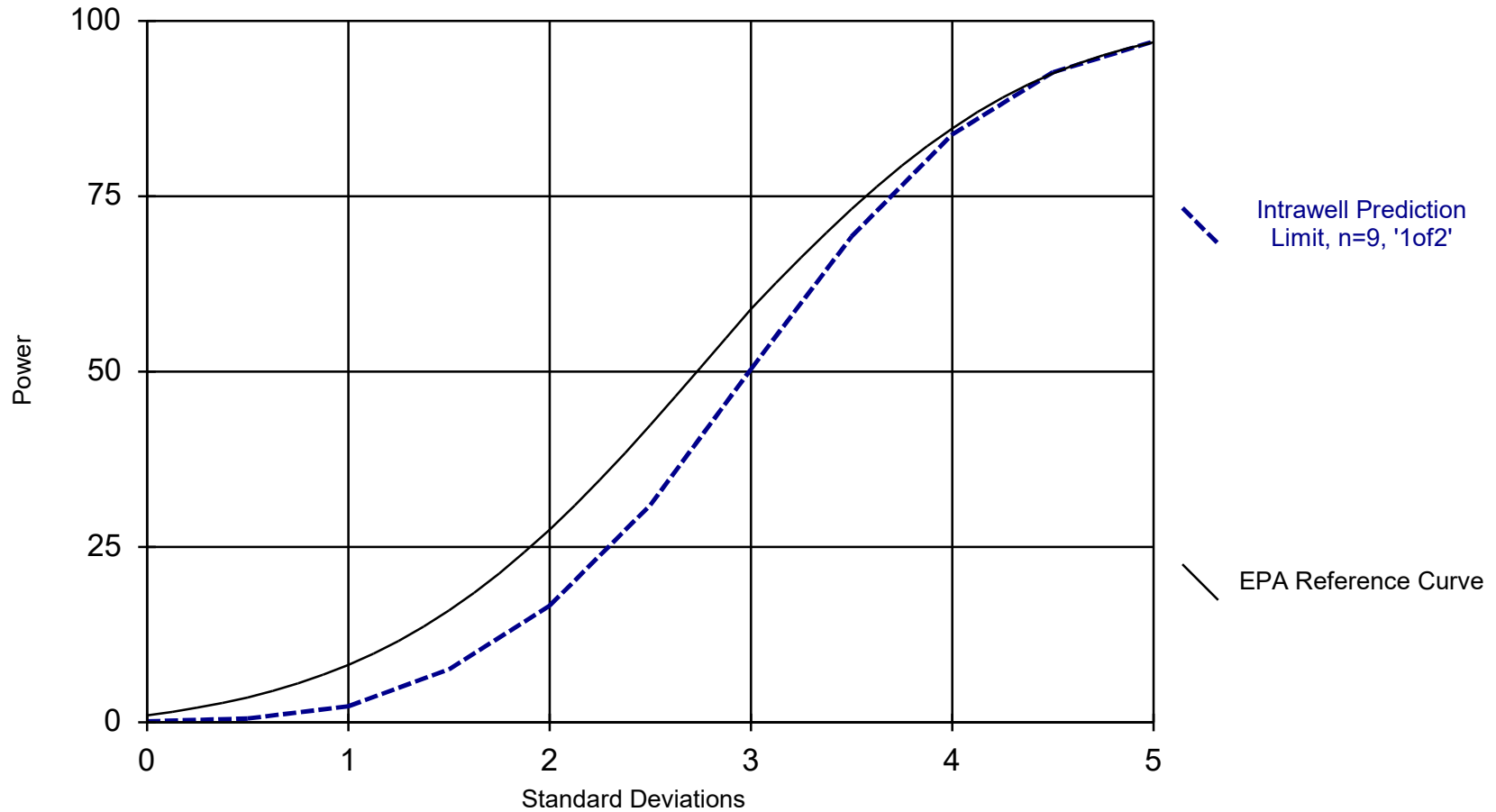


Tristan Clark  
Groundwater Analyst



Andrew Collins  
Project Manager

## Intrawell Power Curve

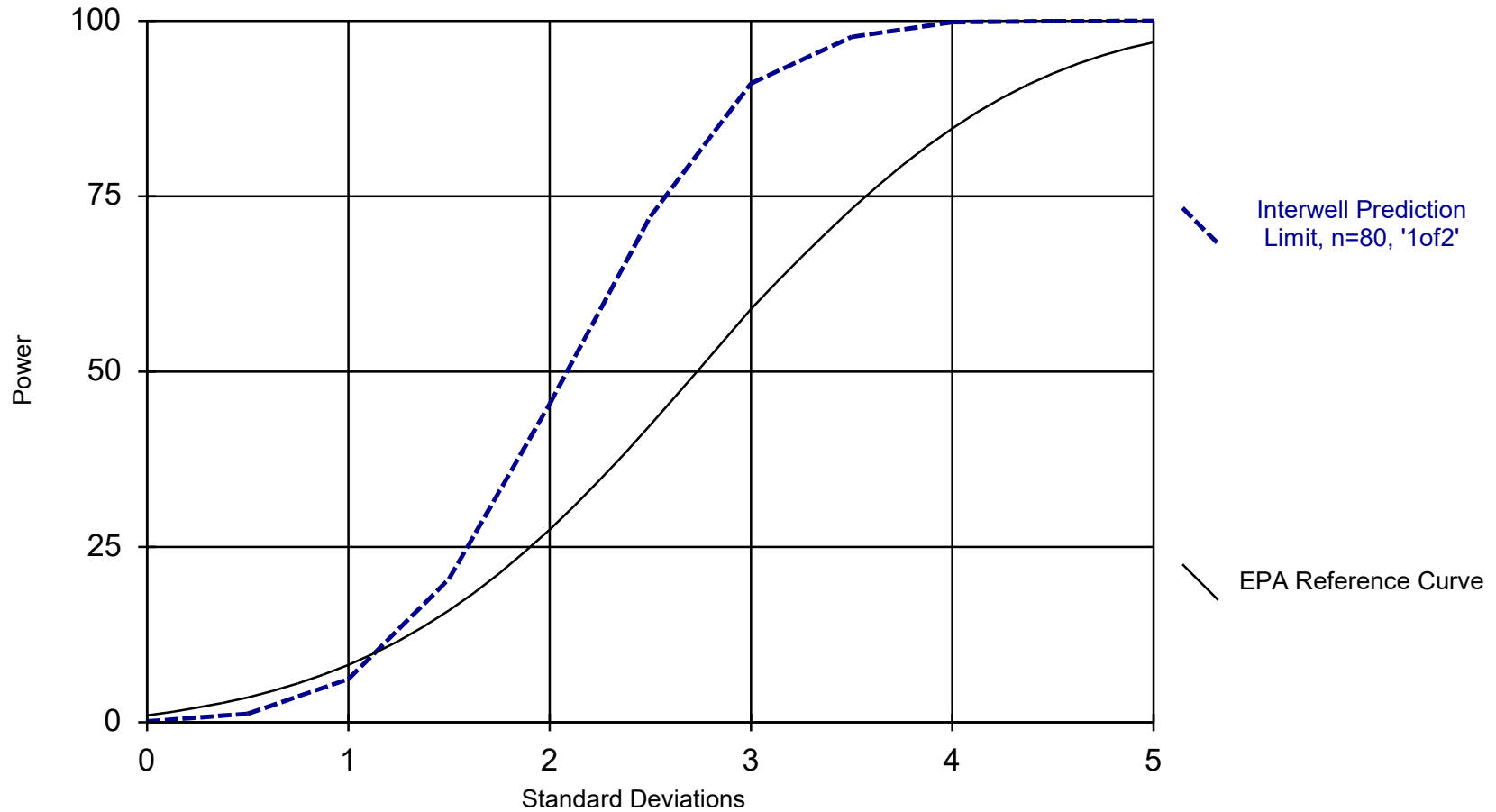


Kappa = 2.961, based on 10 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 3/6/2023 2:29 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA



## Interwell Power Curve



Kappa = 1.984, based on 10 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 3/6/2023 2:37 PM View: Interwell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

# Date Ranges

Date: 3/6/2023 2:15 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

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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

Analysis Run 3/7/2023 1:26 PM View: A4  
Plant Gaston Client: Southern Company Data: Gaston GSA

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**Antimony (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-7, GN-GSA-MW-8, GN-GSA-MW-9

**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

**Fluoride (mg/L)**

GN-GSA-MW-11, GN-GSA-MW-6

**Lead (mg/L)**

GN-GSA-MW-12, GN-GSA-MW-13, GN-GSA-MW-5, GN-GSA-MW-7, GN-GSA-MW-8

**Lithium (mg/L)**

GN-GSA-MW-10, GN-GSA-MW-11, GN-GSA-MW-12, GN-GSA-MW-13, GN-GSA-MW-5, GN-GSA-MW-6, GN-GSA-MW-7, GN-GSA-MW-8, GN-GSA-MW-9

**Mercury (mg/L)**

GN-GSA-MW-1, GN-GSA-MW-10, GN-GSA-MW-11, GN-GSA-MW-12, GN-GSA-MW-13, GN-GSA-MW-5, GN-GSA-MW-6, GN-GSA-MW-7, GN-GSA-MW-8, GN-GSA-MW-9

**Molybdenum (mg/L)**

GN-GSA-MW-10, GN-GSA-MW-11, GN-GSA-MW-6

**Selenium (mg/L)**

GN-GSA-MW-1, GN-GSA-MW-10, GN-GSA-MW-11, GN-GSA-MW-12, GN-GSA-MW-13, GN-GSA-MW-5, GN-GSA-MW-6, GN-GSA-MW-7, GN-GSA-MW-8, GN-GSA-MW-9

**Thallium (mg/L)**

GN-GSA-MW-1, GN-GSA-MW-10, GN-GSA-MW-11, GN-GSA-MW-12, GN-GSA-MW-13, GN-GSA-MW-5, GN-GSA-MW-6, GN-GSA-MW-7, GN-GSA-MW-8, GN-GSA-MW-9

# Intrawell Prediction Limit - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 3/6/2023, 2:28 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-5	71.16	n/a	1/18/2023	85.6	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	1/18/2023	14.6	Yes	9	4.269	1.162	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-12	5.443	n/a	1/18/2023	5.68	Yes	16	3.16	0.9566	6.25	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-2	4.633	n/a	1/17/2023	4.76	Yes	16	3.649	0.4125	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-5	37.06	n/a	1/18/2023	121	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	1/18/2023	3.71	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	1/18/2023	362	Yes	9	203.3	30.98	0	None	No	0.0007523	Param Intra 1 of 2

# Intrawell Prediction Limit - All Results

Plant Gaston    Client: Southern Company    Data: Gaston GSA    Printed 3/6/2023, 2:28 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	1/17/2023	43.5	No	16	39.03	4.343	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-10	108.2	n/a	1/18/2023	103	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	1/18/2023	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	1/18/2023	83.3	No	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	1/18/2023	93.7	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	1/17/2023	54.1	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	1/17/2023	4.39	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	1/17/2023	83.4	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	1/18/2023	87.9	No	16	84.59	17.13	0	None	No	0.0007523	Param Intra 1 of 2
<b>Calcium (mg/L)</b>	<b>GN-GSA-MW-5</b>	<b>71.16</b>	<b>n/a</b>	<b>1/18/2023</b>	<b>85.6</b>	<b>Yes</b>	<b>12</b>	<b>54.73</b>	<b>6.323</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0007523</b>	<b>Param Intra 1 of 2</b>
Calcium (mg/L)	GN-GSA-MW-6	1.491	n/a	1/18/2023	0.583	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	1/17/2023	66.8	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	1/18/2023	53.8	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	1/18/2023	48.8	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	1/17/2023	2.31	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	1/18/2023	3.09	No	16	7.867	2.545	6.25	None	x^2	0.0007523	Param Intra 1 of 2
<b>Chloride (mg/L)</b>	<b>GN-GSA-MW-11</b>	<b>7.709</b>	<b>n/a</b>	<b>1/18/2023</b>	<b>14.6</b>	<b>Yes</b>	<b>9</b>	<b>4.269</b>	<b>1.162</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0007523</b>	<b>Param Intra 1 of 2</b>
<b>Chloride (mg/L)</b>	<b>GN-GSA-MW-12</b>	<b>5.443</b>	<b>n/a</b>	<b>1/18/2023</b>	<b>5.68</b>	<b>Yes</b>	<b>16</b>	<b>3.16</b>	<b>0.9566</b>	<b>6.25</b>	<b>None</b>	<b>No</b>	<b>0.0007523</b>	<b>Param Intra 1 of 2</b>
Chloride (mg/L)	GN-GSA-MW-13	4.799	n/a	1/18/2023	3.8	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	1/17/2023	2.58	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	1/17/2023	2.11	No	16	2.366	0.8163	6.25	None	No	0.0007523	Param Intra 1 of 2
<b>Chloride (mg/L)</b>	<b>GN-GSA-MW-2</b>	<b>4.633</b>	<b>n/a</b>	<b>1/17/2023</b>	<b>4.76</b>	<b>Yes</b>	<b>16</b>	<b>3.649</b>	<b>0.4125</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0007523</b>	<b>Param Intra 1 of 2</b>
Chloride (mg/L)	GN-GSA-MW-3	3.779	n/a	1/18/2023	2.84	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	1/18/2023	9.67	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	1/18/2023	3.69	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	1/17/2023	3.65	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	1/18/2023	1.71	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	1/18/2023	2.01	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	1/17/2023	4.25	No	16	4.188	0.9103	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-10	2.5	n/a	1/18/2023	1.96J	No	16	n/a	n/a	12.5	n/a	n/a	0.006456	NP Intra (normality) 1 of 2
Sulfate (mg/L)	GN-GSA-MW-11	14.58	n/a	1/18/2023	2.95	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	1/18/2023	15.6	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	1/18/2023	8.51	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	1/17/2023	2.83	No	16	7.728	3.872	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-15	5.131	n/a	1/17/2023	1.99J	No	16	2.83	0.9643	6.25	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-2	11.38	n/a	1/17/2023	6.01	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	1/18/2023	7.56	No	11	11.88	2.842	0	None	No	0.0007523	Param Intra 1 of 2
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-5</b>	<b>37.06</b>	<b>n/a</b>	<b>1/18/2023</b>	<b>121</b>	<b>Yes</b>	<b>9</b>	<b>15.51</b>	<b>7.278</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0007523</b>	<b>Param Intra 1 of 2</b>
Sulfate (mg/L)	GN-GSA-MW-6	2	n/a	1/18/2023	2ND	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	1/17/2023	6.1	No	16	9.522	2.123	0	None	No	0.0007523	Param Intra 1 of 2
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-8</b>	<b>2.935</b>	<b>n/a</b>	<b>1/18/2023</b>	<b>3.71</b>	<b>Yes</b>	<b>9</b>	<b>1.843</b>	<b>0.3686</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0007523</b>	<b>Param Intra 1 of 2</b>
Sulfate (mg/L)	GN-GSA-MW-9	6.776	n/a	1/18/2023	3.93	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	1/17/2023	199	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	1/18/2023	266	No	9	251.8	7.496	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-11	105.2	n/a	1/18/2023	68	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	1/18/2023	262	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	1/18/2023	280	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	1/17/2023	189	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	1/17/2023	28	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	1/17/2023	270	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	1/18/2023	246	No	16	268.7	50.11	0	None	No	0.0007523	Param Intra 1 of 2
<b>TDS (mg/L)</b>	<b>GN-GSA-MW-5</b>	<b>295.1</b>	<b>n/a</b>	<b>1/18/2023</b>	<b>362</b>	<b>Yes</b>	<b>9</b>	<b>203.3</b>	<b>30.98</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0007523</b>	<b>Param Intra 1 of 2</b>
TDS (mg/L)	GN-GSA-MW-6	30	n/a	1/18/2023	25ND	No	16	n/a	n/a	68.75	n/a	n/a	0.006456	NP Intra (NDs) 1 of 2
TDS (mg/L)	GN-GSA-MW-7	256.7	n/a	1/17/2023	218	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	1/18/2023	172	No	16	188.9	5.691	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-9	212	n/a	1/18/2023	152	No	16	170.2	17.53	0	None	No	0.0007523	Param Intra 1 of 2

# Interwell Prediction Limit - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 3/6/2023, 2:33 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	0.125	n/a	1/17/2023	0.358	Yes	84	n/a	n/a	44.05	n/a	n/a	0.0002728	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-1	7.53	5.25	1/17/2023	7.69	Yes	84	n/a	n/a	0	n/a	n/a	0.0005457	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-6	7.53	5.25	1/18/2023	4.75	Yes	84	n/a	n/a	0	n/a	n/a	0.0005457	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-8	7.53	5.25	1/18/2023	7.54	Yes	84	n/a	n/a	0	n/a	n/a	0.0005457	NP Inter (normality) 1 of 2

# Interwell Prediction Limit - All Results

Plant Gaston    Client: Southern Company    Data: Gaston GSA    Printed 3/6/2023, 2:33 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	1/17/2023	0.035J	No	80	n/a	n/a	98.75	n/a	n/a	0.0002971	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-10	0.1015	n/a	1/18/2023	0.1015ND	No	80	n/a	n/a	98.75	n/a	n/a	0.0002971	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-11	0.1015	n/a	1/18/2023	0.0603J	No	80	n/a	n/a	98.75	n/a	n/a	0.0002971	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-12	0.1015	n/a	1/18/2023	0.1015ND	No	80	n/a	n/a	98.75	n/a	n/a	0.0002971	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-13	0.1015	n/a	1/18/2023	0.1015ND	No	80	n/a	n/a	98.75	n/a	n/a	0.0002971	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-5	0.1015	n/a	1/18/2023	0.0416J	No	80	n/a	n/a	98.75	n/a	n/a	0.0002971	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-6	0.1015	n/a	1/18/2023	0.1015ND	No	80	n/a	n/a	98.75	n/a	n/a	0.0002971	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-7	0.1015	n/a	1/17/2023	0.1015ND	No	80	n/a	n/a	98.75	n/a	n/a	0.0002971	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-8	0.1015	n/a	1/18/2023	0.1015ND	No	80	n/a	n/a	98.75	n/a	n/a	0.0002971	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-9	0.1015	n/a	1/18/2023	0.1015ND	No	80	n/a	n/a	98.75	n/a	n/a	0.0002971	NP Inter (NDs) 1 of 2
<b>Fluoride (mg/L)</b>	<b>GN-GSA-MW-1</b>	<b>0.125</b>	<b>n/a</b>	<b>1/17/2023</b>	<b>0.358</b>	<b>Yes</b>	<b>84</b>	<b>n/a</b>	<b>n/a</b>	<b>44.05</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0002728</b>	<b>NP Inter (normality) 1 of 2</b>
Fluoride (mg/L)	GN-GSA-MW-10	0.125	n/a	1/18/2023	0.125ND	No	84	n/a	n/a	44.05	n/a	n/a	0.0002728	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-11	0.125	n/a	1/18/2023	0.125ND	No	84	n/a	n/a	44.05	n/a	n/a	0.0002728	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-12	0.125	n/a	1/18/2023	0.0913J	No	84	n/a	n/a	44.05	n/a	n/a	0.0002728	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-13	0.125	n/a	1/18/2023	0.125ND	No	84	n/a	n/a	44.05	n/a	n/a	0.0002728	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-5	0.125	n/a	1/18/2023	0.125ND	No	84	n/a	n/a	44.05	n/a	n/a	0.0002728	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-6	0.125	n/a	1/18/2023	0.125ND	No	84	n/a	n/a	44.05	n/a	n/a	0.0002728	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-7	0.125	n/a	1/17/2023	0.1J	No	84	n/a	n/a	44.05	n/a	n/a	0.0002728	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-8	0.125	n/a	1/18/2023	0.105J	No	84	n/a	n/a	44.05	n/a	n/a	0.0002728	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-9	0.125	n/a	1/18/2023	0.125ND	No	84	n/a	n/a	44.05	n/a	n/a	0.0002728	NP Inter (normality) 1 of 2
<b>pH (pH)</b>	<b>GN-GSA-MW-1</b>	<b>7.53</b>	<b>5.25</b>	<b>1/17/2023</b>	<b>7.69</b>	<b>Yes</b>	<b>84</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0005457</b>	<b>NP Inter (normality) 1 of 2</b>
pH (pH)	GN-GSA-MW-10	7.53	5.25	1/18/2023	7.08	No	84	n/a	n/a	0	n/a	n/a	0.0005457	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-11	7.53	5.25	1/18/2023	5.77	No	84	n/a	n/a	0	n/a	n/a	0.0005457	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-12	7.53	5.25	1/18/2023	7.11	No	84	n/a	n/a	0	n/a	n/a	0.0005457	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-13	7.53	5.25	1/18/2023	7.13	No	84	n/a	n/a	0	n/a	n/a	0.0005457	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-5	7.53	5.25	1/18/2023	6.38	No	84	n/a	n/a	0	n/a	n/a	0.0005457	NP Inter (normality) 1 of 2
<b>pH (pH)</b>	<b>GN-GSA-MW-6</b>	<b>7.53</b>	<b>5.25</b>	<b>1/18/2023</b>	<b>4.75</b>	<b>Yes</b>	<b>84</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0005457</b>	<b>NP Inter (normality) 1 of 2</b>
pH (pH)	GN-GSA-MW-7	7.53	5.25	1/17/2023	6.78	No	84	n/a	n/a	0	n/a	n/a	0.0005457	NP Inter (normality) 1 of 2
<b>pH (pH)</b>	<b>GN-GSA-MW-8</b>	<b>7.53</b>	<b>5.25</b>	<b>1/18/2023</b>	<b>7.54</b>	<b>Yes</b>	<b>84</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0005457</b>	<b>NP Inter (normality) 1 of 2</b>
pH (pH)	GN-GSA-MW-9	7.53	5.25	1/18/2023	6.71	No	84	n/a	n/a	0	n/a	n/a	0.0005457	NP Inter (normality) 1 of 2

# Appendix III Trend Test - Prediction Limit Exceedances - Significant Results

Plant Gaston    Client: Southern Company    Data: Gaston GSA    Printed 3/7/2023, 5:42 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Calcium (mg/L)	GN-GSA-MW-15 (bg)	-0.7405	-152	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-GSA-MW-3 (bg)	-8.548	-132	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-GSA-MW-5	6.434	148	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-GSA-MW-11	1.773	148	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-GSA-MW-14S (bg)	-0.3771	-127	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-15 (bg)	-0.05861	-129	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-GSA-MW-14S (bg)	-1.24	-122	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-GSA-MW-15 (bg)	-0.2614	-92	-81	Yes	20	5	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-GSA-MW-3 (bg)	-2.439	-170	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-GSA-MW-5	20.07	146	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-GSA-MW-8	0.482	120	81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-GSA-MW-14S (bg)	-3.286	-89	-81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-GSA-MW-15 (bg)	-3.336	-116	-81	Yes	20	5	n/a	n/a	0.01	NP
TDS (mg/L)	GN-GSA-MW-3 (bg)	-27.16	-150	-81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-GSA-MW-5	35.12	135	81	Yes	20	0	n/a	n/a	0.01	NP



# Appendix III Trend Test - Prediction Limit Exceedances - All Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 3/7/2023, 5:42 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	GN-GSA-MW-14S (bg)	0.2652	12	81	No	20	0	n/a	n/a	0.01	NP
<b>Calcium (mg/L)</b>	<b>GN-GSA-MW-15 (bg)</b>	<b>-0.7405</b>	<b>-152</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium (mg/L)	GN-GSA-MW-2 (bg)	1.467	71	81	No	20	0	n/a	n/a	0.01	NP
<b>Calcium (mg/L)</b>	<b>GN-GSA-MW-3 (bg)</b>	<b>-8.548</b>	<b>-132</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GN-GSA-MW-5</b>	<b>6.434</b>	<b>148</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride (mg/L)</b>	<b>GN-GSA-MW-11</b>	<b>1.773</b>	<b>148</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	GN-GSA-MW-12	0.1162	28	81	No	20	5	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>GN-GSA-MW-14S (bg)</b>	<b>-0.3771</b>	<b>-127</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	GN-GSA-MW-15 (bg)	-0.2401	-80	-81	No	20	5	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-GSA-MW-2 (bg)	0.02787	25	81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-GSA-MW-3 (bg)	-0.06671	-75	-81	No	20	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-1	0.0009102	12	87	No	21	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-14S (bg)	0.004769	58	87	No	21	33.33	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-15 (bg)	0	75	87	No	21	76.19	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-2 (bg)	0.002307	60	87	No	21	52.38	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-3 (bg)	0	-1	-87	No	21	14.29	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-1	-0.03107	-82	-87	No	21	0	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-14S (bg)	-0.01401	-57	-87	No	21	0	n/a	n/a	0.01	NP
<b>pH (pH)</b>	<b>GN-GSA-MW-15 (bg)</b>	<b>-0.05861</b>	<b>-129</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH (pH)	GN-GSA-MW-2 (bg)	-0.0134	-70	-87	No	21	0	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-3 (bg)	-0.07709	-76	-87	No	21	0	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-6	-0.0166	-45	-87	No	21	0	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-8	0.004793	6	87	No	21	0	n/a	n/a	0.01	NP
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-14S (bg)</b>	<b>-1.24</b>	<b>-122</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-15 (bg)</b>	<b>-0.2614</b>	<b>-92</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>5</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate (mg/L)	GN-GSA-MW-2 (bg)	0.1806	34	81	No	20	0	n/a	n/a	0.01	NP
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-3 (bg)</b>	<b>-2.439</b>	<b>-170</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-5</b>	<b>20.07</b>	<b>146</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-8</b>	<b>0.482</b>	<b>120</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>TDS (mg/L)</b>	<b>GN-GSA-MW-14S (bg)</b>	<b>-3.286</b>	<b>-89</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>TDS (mg/L)</b>	<b>GN-GSA-MW-15 (bg)</b>	<b>-3.336</b>	<b>-116</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>5</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
TDS (mg/L)	GN-GSA-MW-2 (bg)	-1.855	-58	-81	No	20	0	n/a	n/a	0.01	NP
<b>TDS (mg/L)</b>	<b>GN-GSA-MW-3 (bg)</b>	<b>-27.16</b>	<b>-150</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>TDS (mg/L)</b>	<b>GN-GSA-MW-5</b>	<b>35.12</b>	<b>135</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>

# Upper Tolerance Limits - Summary Table

Plant Gaston    Client: Southern Company    Data: Gaston GSA    Printed 1/11/2022, 10:38 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bq N</u>	<u>Bq Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	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

<b>GASTON GYPSUM POND GWPS</b>			
<b>Analyte</b>	<b>Units</b>	<b>Background</b>	<b>GWPS</b>
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 - All Results (No Significant)

Plant Gaston    Client: Southern Company    Data: Gaston GSA    Printed 3/14/2023, 10:12 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GN-GSA-MW-10	0.001015	0.000552	0.006	No	8	0.0009571	0.0001637	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-GSA-MW-6	0.001015	0.000644	0.006	No	8	0.0009686	0.0001312	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-1	0.005444	0.002166	0.01	No	8	0.003805	0.001546	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-GSA-MW-10	0.000215	0.00007	0.01	No	8	0.0001734	0.00005886	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-11	0.005	0.00009	0.01	No	8	0.001938	0.002535	37.5	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-GSA-MW-12	0.005	0.000189	0.01	No	8	0.002027	0.002463	37.5	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-GSA-MW-13	0.005	0.00012	0.01	No	8	0.001963	0.002515	37.5	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-GSA-MW-5	0.001845	0.0005472	0.01	No	8	0.00216	0.001925	25	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	GN-GSA-MW-6	0.000203	0.00008	0.01	No	8	0.0001572	0.00005344	50	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-GSA-MW-7	0.005	0.00029	0.01	No	8	0.001654	0.002077	25	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-GSA-MW-8	0.001342	0.00115	0.01	No	8	0.001246	0.00009039	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-GSA-MW-9	0.005	0.000086	0.01	No	8	0.00197	0.002509	37.5	None	No	0.004	NP (normality)
Barium (mg/L)	GN-GSA-MW-1	2.535	1.982	2	No	8	2.259	0.261	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-10	0.0386	0.03395	2	No	8	0.03628	0.002198	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-11	0.01327	0.004584	2	No	8	0.008928	0.004098	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-12	0.02506	0.01924	2	No	8	0.02215	0.002746	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-13	0.04325	0.03638	2	No	8	0.03981	0.003239	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-5	0.07457	0.04586	2	No	8	0.06021	0.01354	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-6	0.0214	0.0159	2	No	8	0.01768	0.001673	0	None	No	0.004	NP (normality)
Barium (mg/L)	GN-GSA-MW-7	0.0256	0.016	2	No	8	0.01874	0.00304	0	None	No	0.004	NP (normality)
Barium (mg/L)	GN-GSA-MW-8	0.0314	0.0257	2	No	8	0.0273	0.002067	0	None	No	0.004	NP (normality)
Barium (mg/L)	GN-GSA-MW-9	0.02554	0.02159	2	No	8	0.02356	0.001865	0	None	No	0.01	Param.
Cadmium (mg/L)	GN-GSA-MW-10	0.000203	0.00008	0.005	No	8	0.0001801	0.00004558	75	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	0.00102	0.00023	0.1	No	8	0.0007349	0.0003938	62.5	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	0.00021	0.1	No	8	0.0008238	0.0003548	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-13	0.01	0.000417	0.1	No	8	0.004056	0.004922	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-GSA-MW-5	0.001015	0.000262	0.1	No	8	0.0006454	0.0003952	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-GSA-MW-6	0.001015	0.00022	0.1	No	8	0.0006314	0.0004103	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-GSA-MW-7	0.001015	0.000361	0.1	No	8	0.0007995	0.0003027	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-8	0.01	0.000291	0.1	No	8	0.003976	0.004989	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-GSA-MW-9	0.001015	0.00021	0.1	No	8	0.0007225	0.0004041	62.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-10	0.000912	0.000203	0.006	No	8	0.0002916	0.0002507	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-11	0.003004	0.002176	0.006	No	8	0.00259	0.0003901	12.5	None	No	0.01	Param.
Cobalt (mg/L)	GN-GSA-MW-12	0.005	0.00016	0.006	No	8	0.002033	0.002458	37.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-GSA-MW-13	0.0002	0.000086	0.006	No	8	0.000154	0.00005395	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-GSA-MW-5	0.004121	0.001197	0.006	No	8	0.003337	0.001694	25	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	GN-GSA-MW-6	0.005	0.00065	0.006	No	8	0.002302	0.002234	37.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-GSA-MW-7	0.001515	0.0003589	0.006	No	8	0.001946	0.001975	25	Kaplan-Meier	x^(1/3)	0.01	Param.
Cobalt (mg/L)	GN-GSA-MW-8	0.005	0.00007	0.006	No	8	0.001954	0.002522	37.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-GSA-MW-9	0.00041	0.0000816	0.006	No	8	0.0002048	0.00009457	62.5	None	No	0.004	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-1	1.777	0.8935	5	No	8	1.326	0.4726	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-10	0.8382	0.2843	5	No	8	0.5613	0.2613	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-11	1.581	0.08913	5	No	8	0.7968	1.106	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-12	1.404	0.2039	5	No	8	0.8039	0.5661	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-13	1.591	0.2274	5	No	8	0.95	1.23	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-5	0.9443	0.2737	5	No	8	0.609	0.3164	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-6	1.235	0.05478	5	No	8	0.6449	0.5567	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-7	0.8573	0.04594	5	No	8	0.4516	0.3827	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-8	1.197	0.0959	5	No	8	0.6467	0.5196	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-9	1.075	0.198	5	No	8	0.6365	0.4137	0	None	No	0.01	Param.

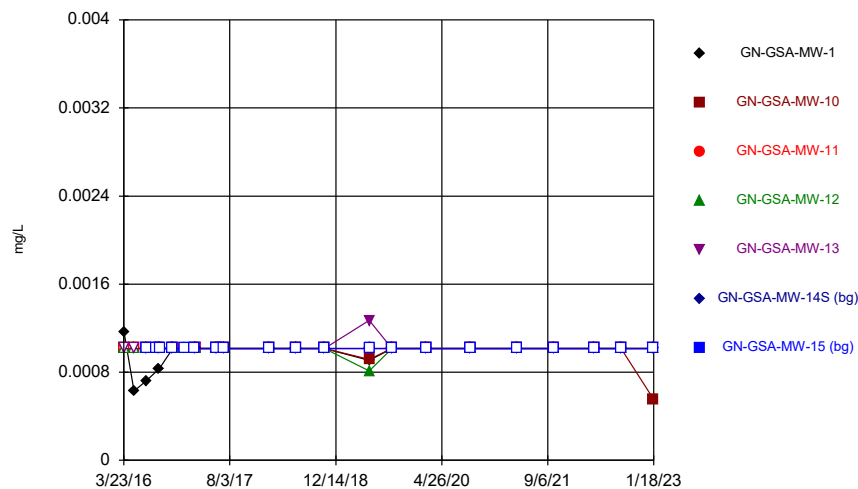
# Confidence Intervals - All Results (No Significant)

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 3/14/2023, 10:12 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GN-GSA-MW-1	0.3562	0.2943	4	No	8	0.3253	0.02925	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-GSA-MW-10	0.125	0.0617	4	No	8	0.1171	0.02238	87.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-GSA-MW-12	0.125	0.0547	4	No	8	0.09658	0.03223	50	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-GSA-MW-13	0.125	0.0555	4	No	8	0.08694	0.03197	37.5	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-GSA-MW-5	0.125	0.0962	4	No	8	0.1214	0.01018	87.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-GSA-MW-7	0.125	0.07812	4	No	8	0.1016	0.02213	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-GSA-MW-8	0.137	0.08521	4	No	8	0.1111	0.02445	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-GSA-MW-9	0.125	0.0554	4	No	8	0.1047	0.03054	62.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-GSA-MW-1	0.000345	0.000203	0.015	No	8	0.0002208	0.0000502	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-GSA-MW-10	0.000203	0.00008	0.015	No	8	0.0001876	0.00004349	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-GSA-MW-11	0.000203	0.000078	0.015	No	8	0.0001758	0.00005118	75	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-GSA-MW-6	0.005	0.000305	0.015	No	8	0.002086	0.002413	37.5	None	No	0.004	NP (normality)
Lead (mg/L)	GN-GSA-MW-9	0.000203	0.00011	0.015	No	8	0.0001914	0.00003288	87.5	None	No	0.004	NP (NDs)
Lithium (mg/L)	GN-GSA-MW-1	0.02	0.00953	0.04	No	8	0.0123	0.004757	25	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-GSA-MW-1	0.004531	0.003059	0.1	No	8	0.003795	0.0006943	0	None	No	0.01	Param.
Molybdenum (mg/L)	GN-GSA-MW-12	0.01	0.000207	0.1	No	8	0.003922	0.005033	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-GSA-MW-13	0.01	0.00016	0.1	No	8	0.003877	0.00507	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-GSA-MW-5	0.01	0.00009	0.1	No	8	0.003818	0.005119	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-GSA-MW-7	0.01	0.000232	0.1	No	8	0.003919	0.005035	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-GSA-MW-8	0.00437	0.00318	0.1	No	8	0.00358	0.0004536	0	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-GSA-MW-9	0.01	0.000207	0.1	No	8	0.003913	0.00504	37.5	None	No	0.004	NP (normality)

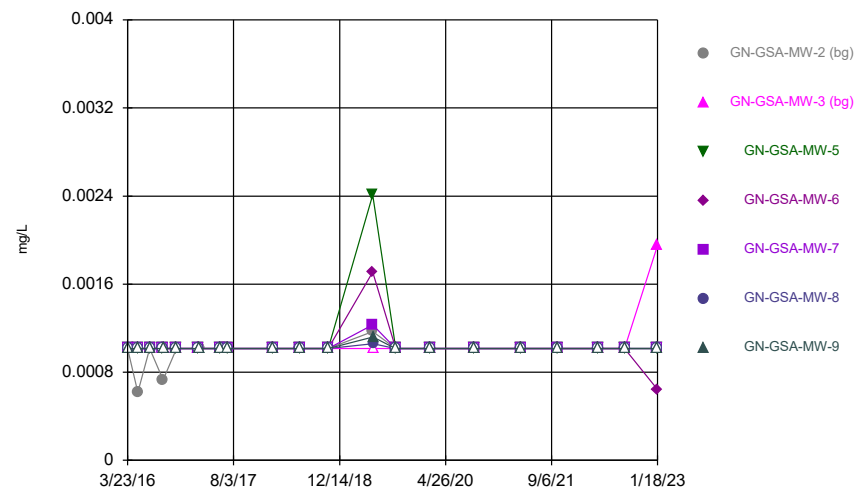
FIGURE A.

Time Series



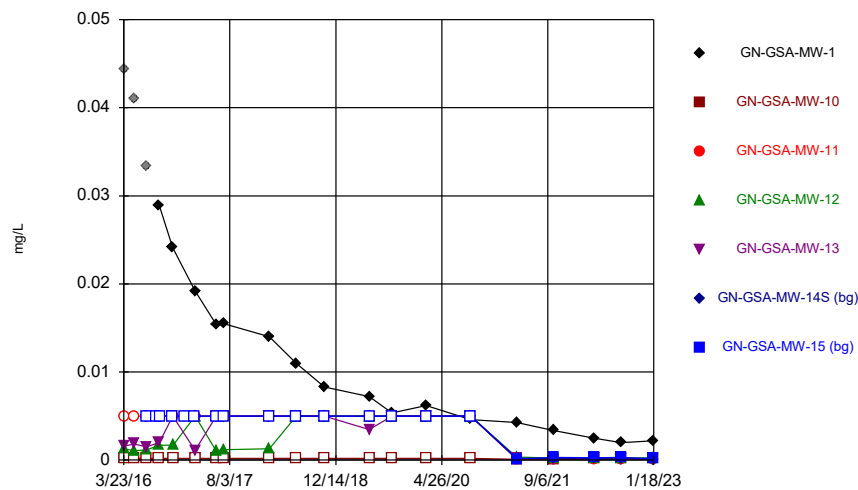
Constituent: Antimony Analysis Run 3/14/2023 10:06 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

Time Series



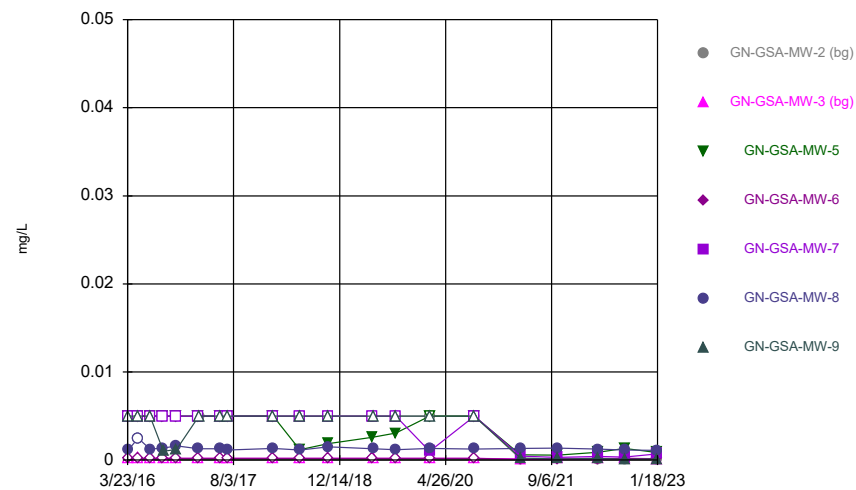
Constituent: Antimony Analysis Run 3/14/2023 10:06 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

Time Series



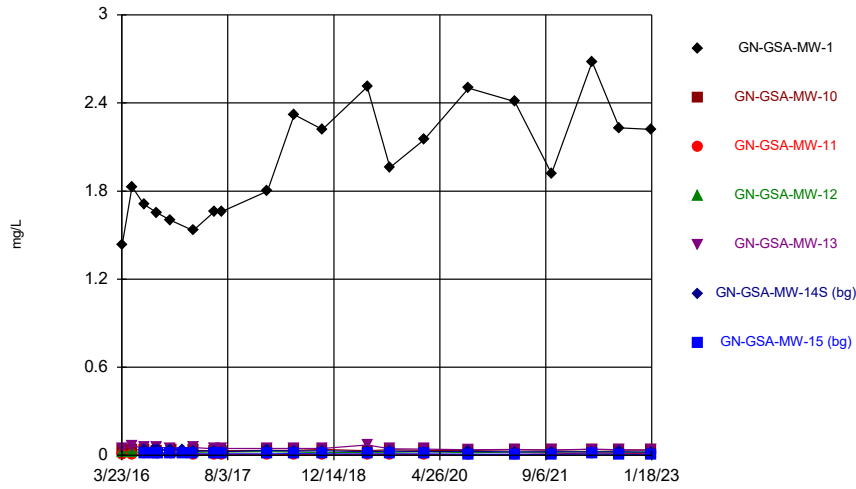
Constituent: Arsenic Analysis Run 3/14/2023 10:06 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

Time Series



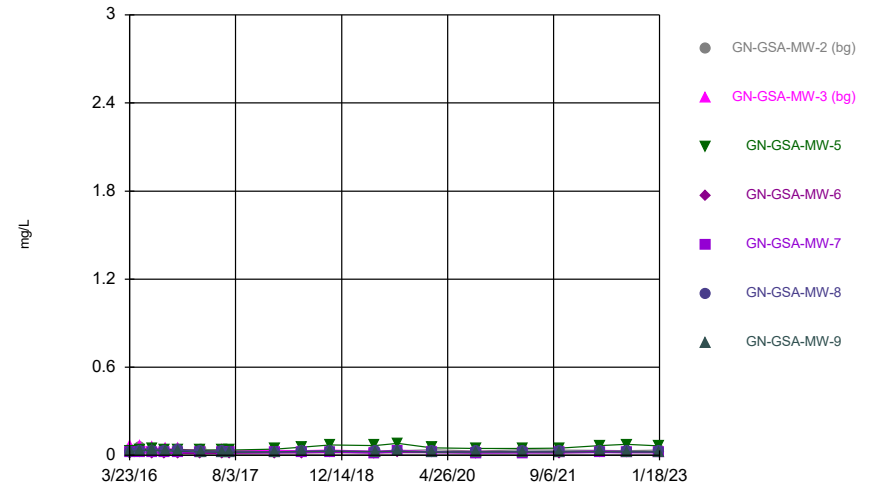
Constituent: Arsenic Analysis Run 3/14/2023 10:06 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

Time Series



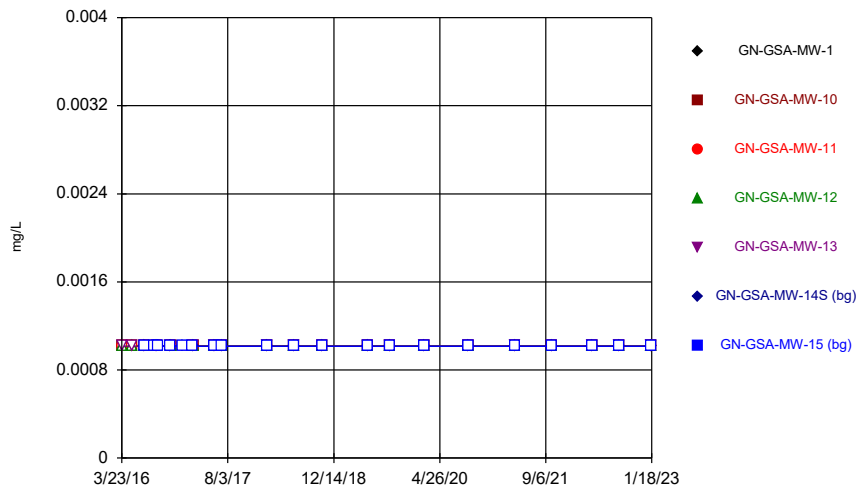
Constituent: Barium Analysis Run 3/14/2023 10:06 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

Time Series



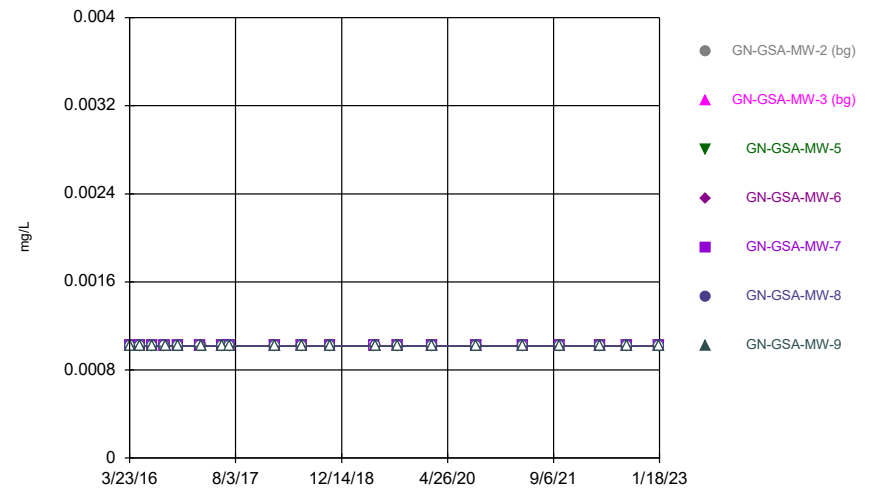
Constituent: Barium Analysis Run 3/14/2023 10:06 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

Time Series



Constituent: Beryllium Analysis Run 3/14/2023 10:06 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

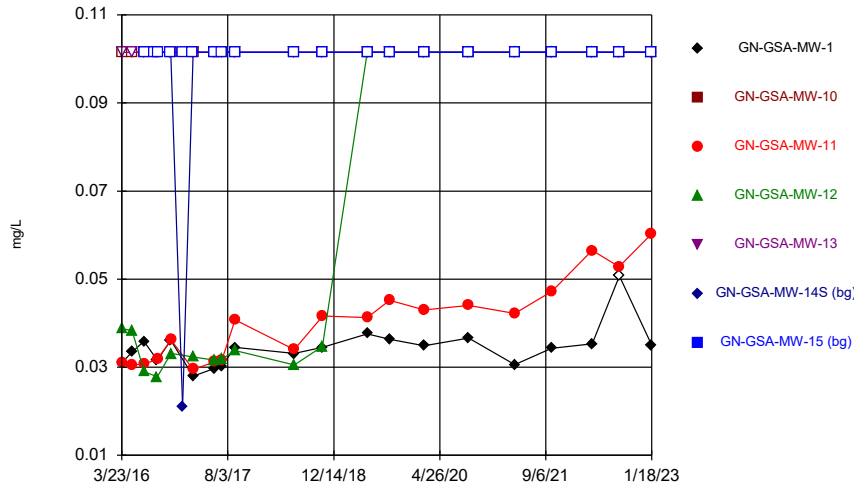
Time Series



Constituent: Beryllium Analysis Run 3/14/2023 10:06 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

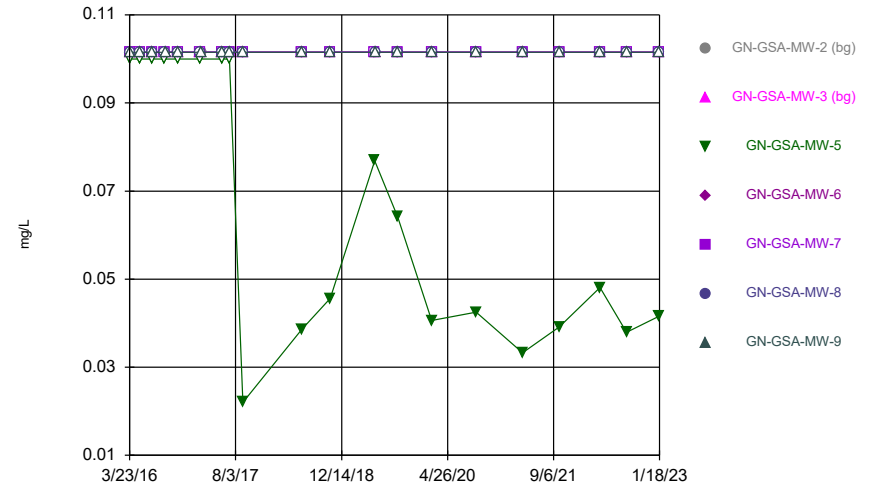


Time Series



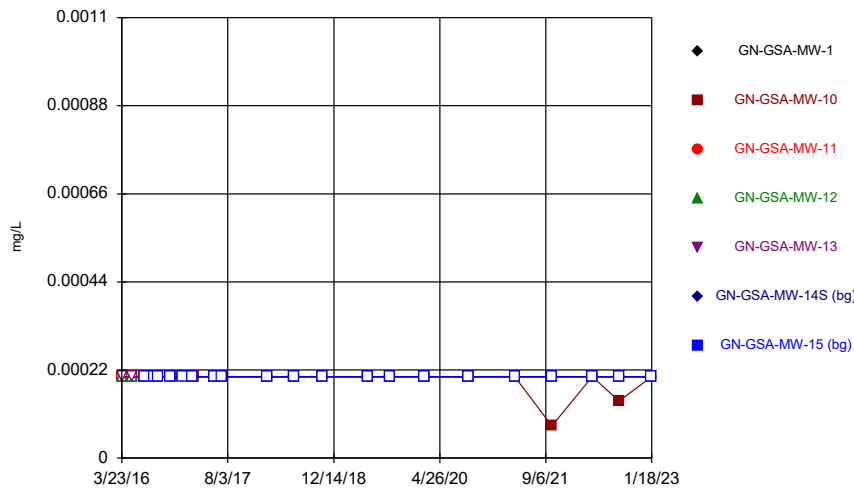
Constituent: Boron Analysis Run 3/14/2023 10:06 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

Time Series



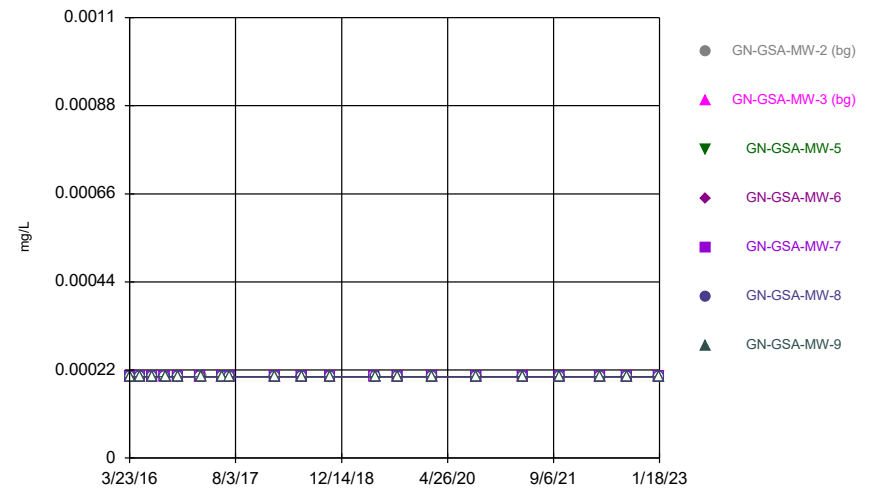
Constituent: Boron Analysis Run 3/14/2023 10:06 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

Time Series



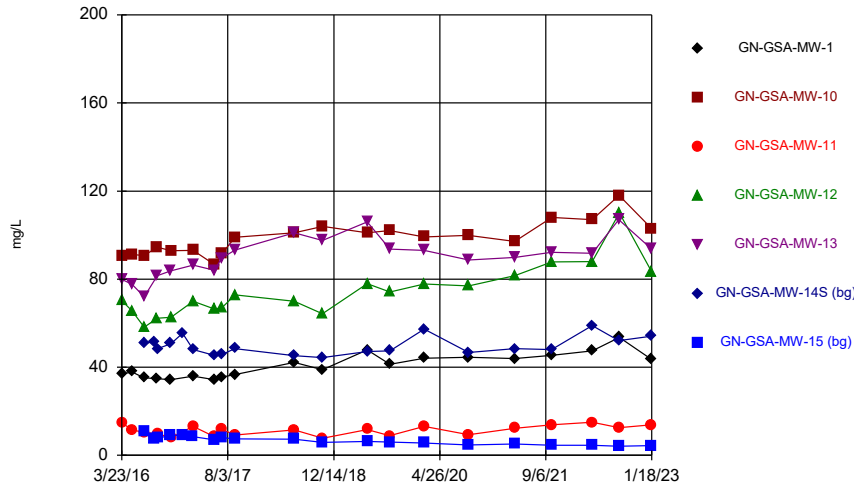
Constituent: Cadmium Analysis Run 3/14/2023 10:06 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

Time Series



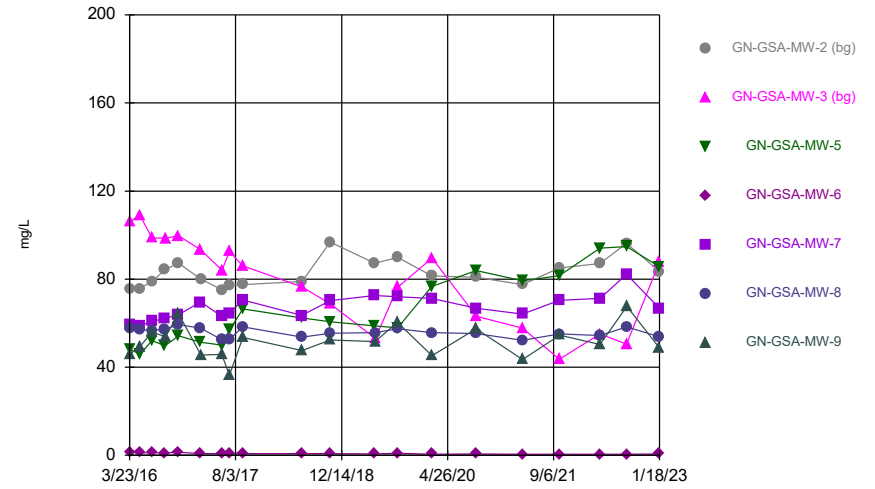
Constituent: Cadmium Analysis Run 3/14/2023 10:06 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

Time Series



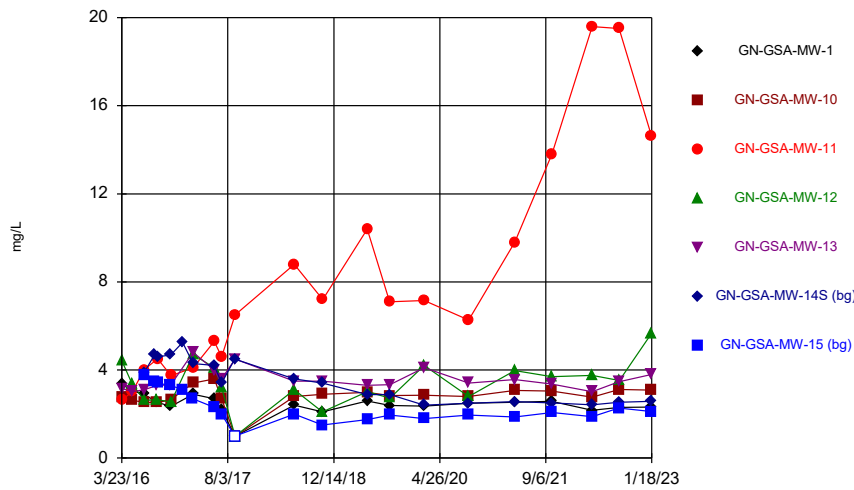
Constituent: Calcium Analysis Run 3/14/2023 10:06 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

Time Series



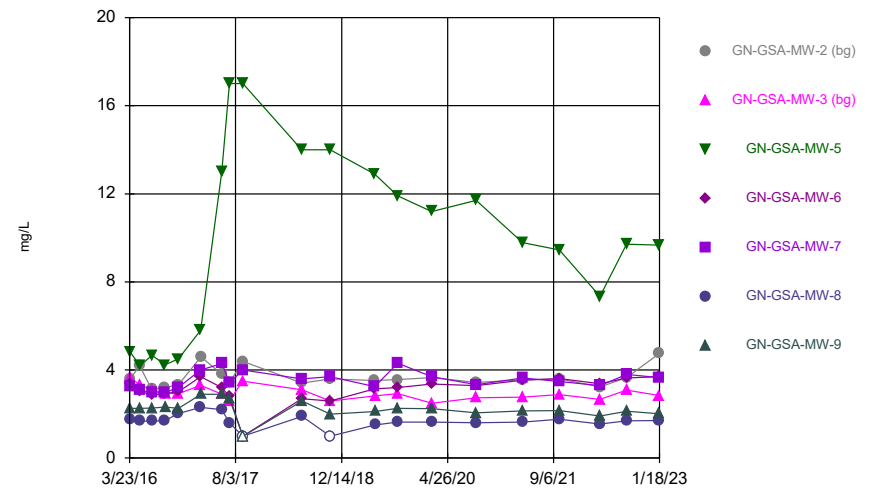
Constituent: Calcium Analysis Run 3/14/2023 10:06 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

Time Series



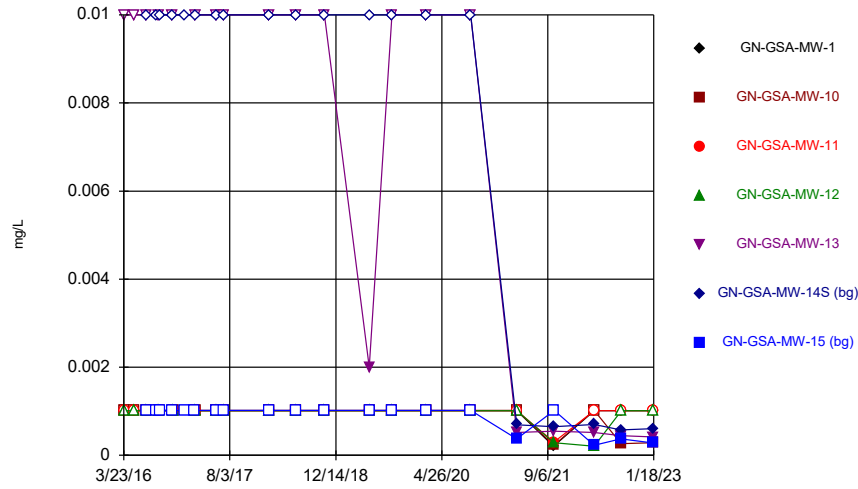
Constituent: Chloride Analysis Run 3/14/2023 10:06 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

Time Series



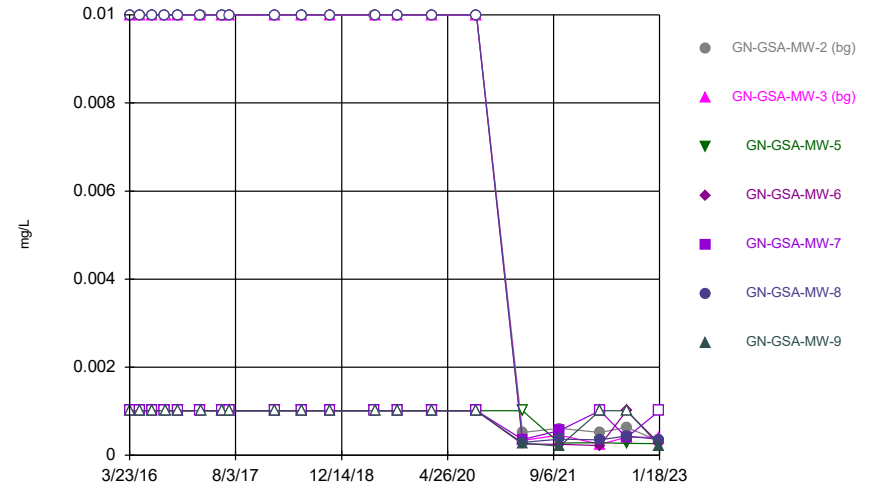
Constituent: Chloride Analysis Run 3/14/2023 10:06 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

Time Series



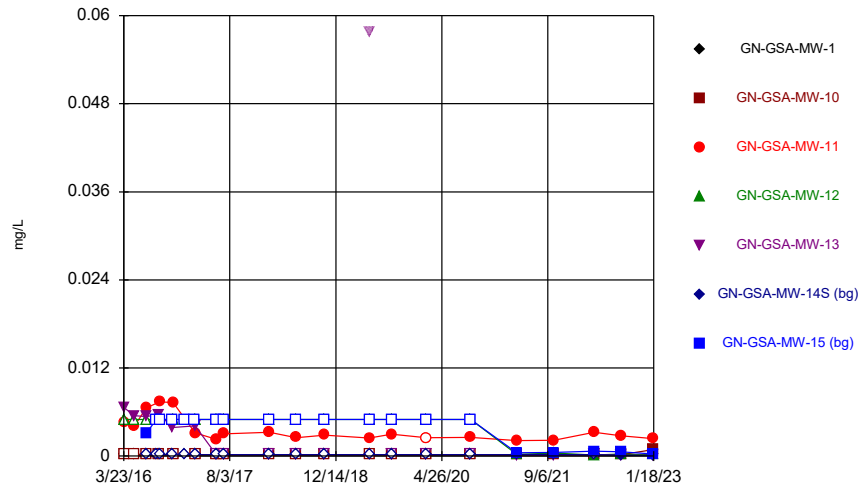
Constituent: Chromium Analysis Run 3/14/2023 10:06 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

Time Series



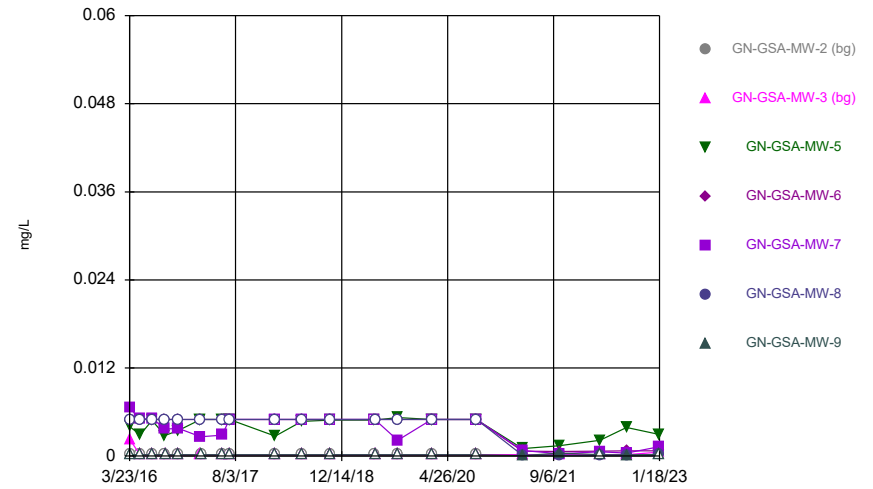
Constituent: Chromium Analysis Run 3/14/2023 10:06 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

Time Series



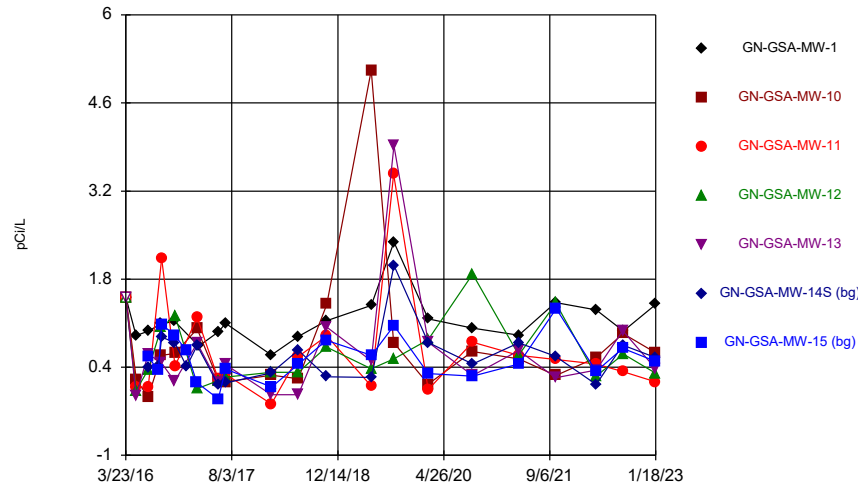
Constituent: Cobalt Analysis Run 3/14/2023 10:06 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

Time Series



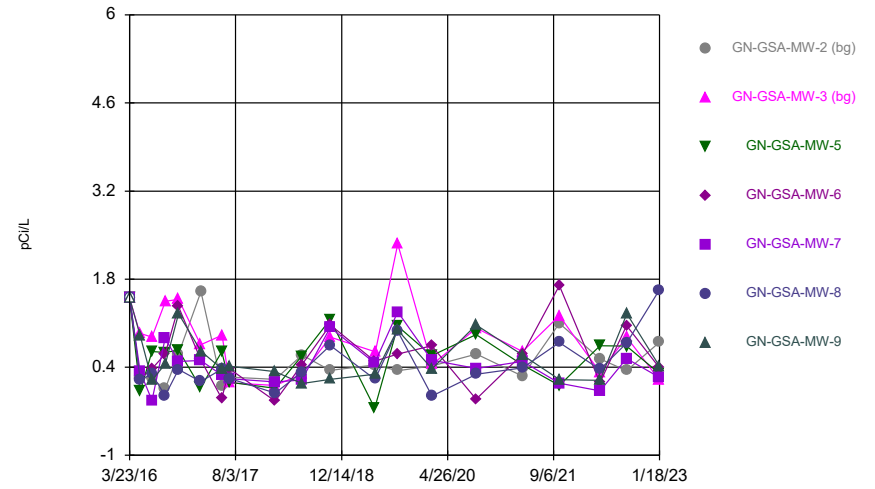
Constituent: Cobalt Analysis Run 3/14/2023 10:06 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Time Series



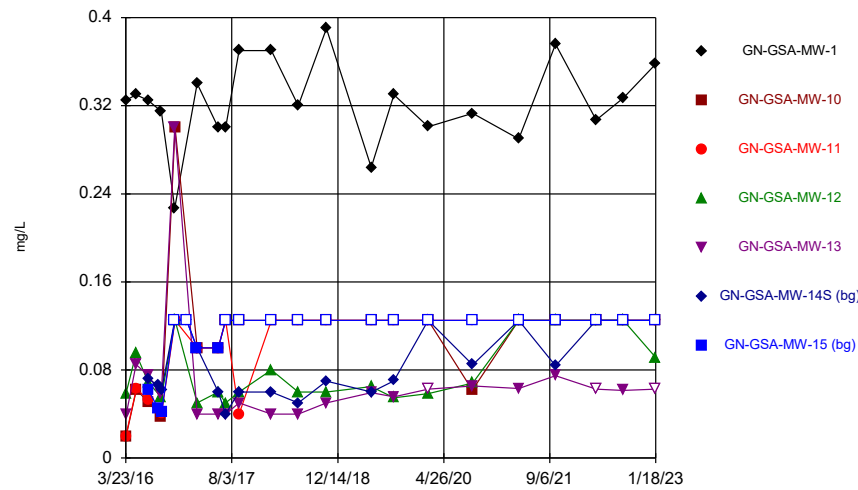
Constituent: Combined Radium 226 + 228 Analysis Run 3/14/2023 10:06 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Time Series



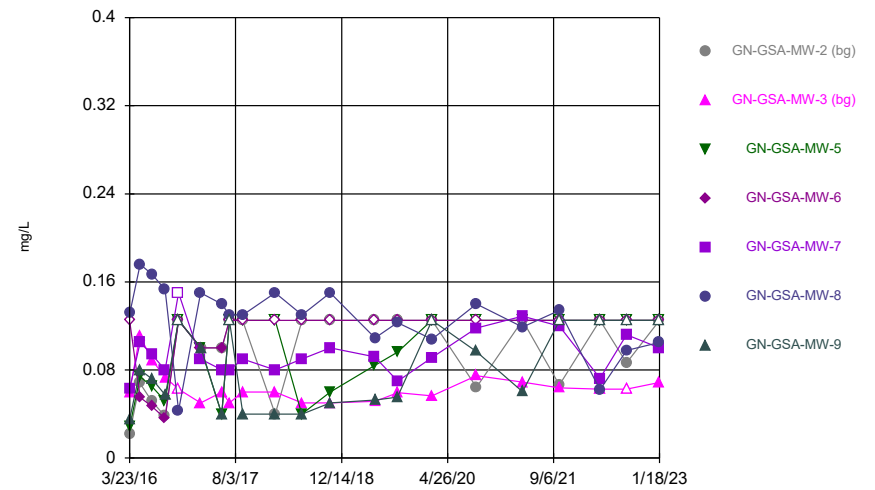
Constituent: Combined Radium 226 + 228 Analysis Run 3/14/2023 10:06 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Time Series



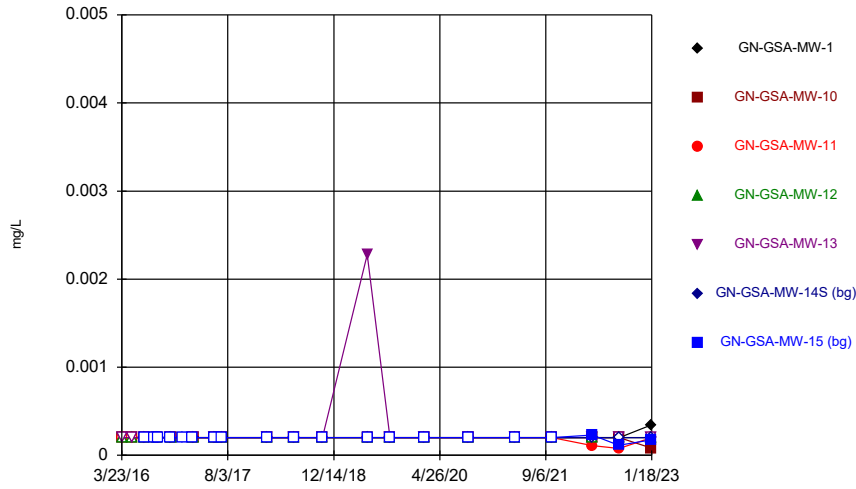
Constituent: Fluoride Analysis Run 3/14/2023 10:06 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Time Series



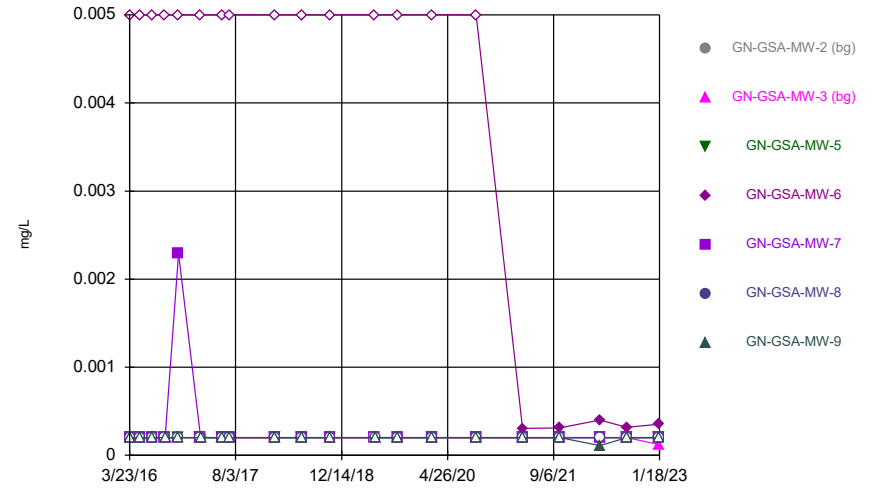
Constituent: Fluoride Analysis Run 3/14/2023 10:06 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

Time Series



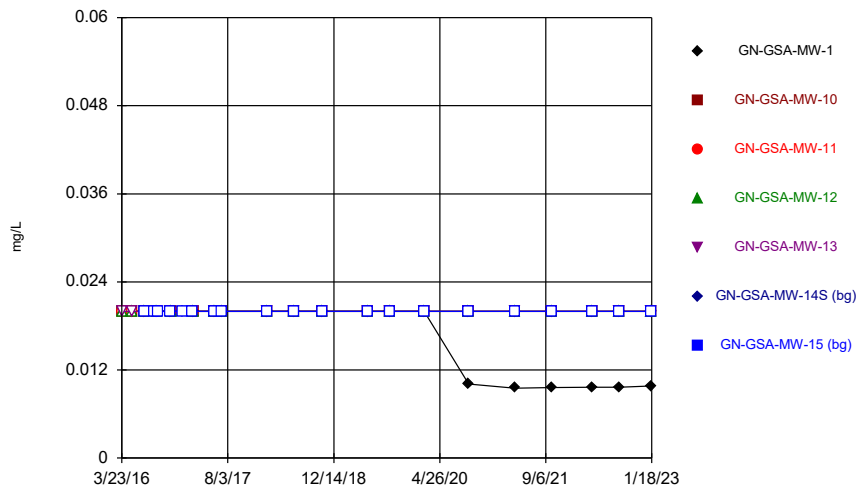
Constituent: Lead Analysis Run 3/14/2023 10:06 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

Time Series



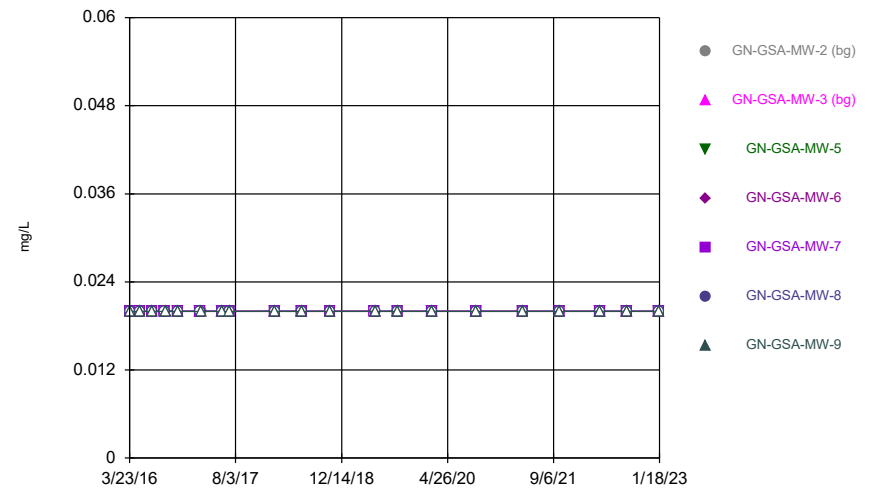
Constituent: Lead Analysis Run 3/14/2023 10:06 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

Time Series



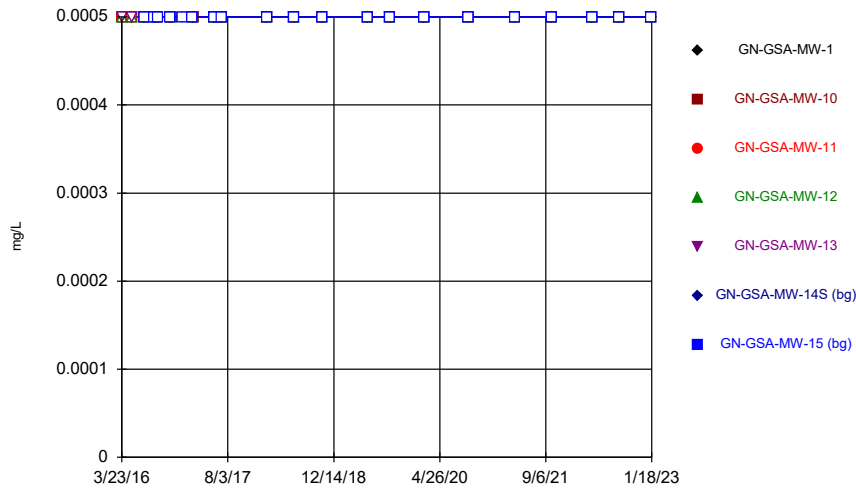
Constituent: Lithium Analysis Run 3/14/2023 10:06 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

Time Series



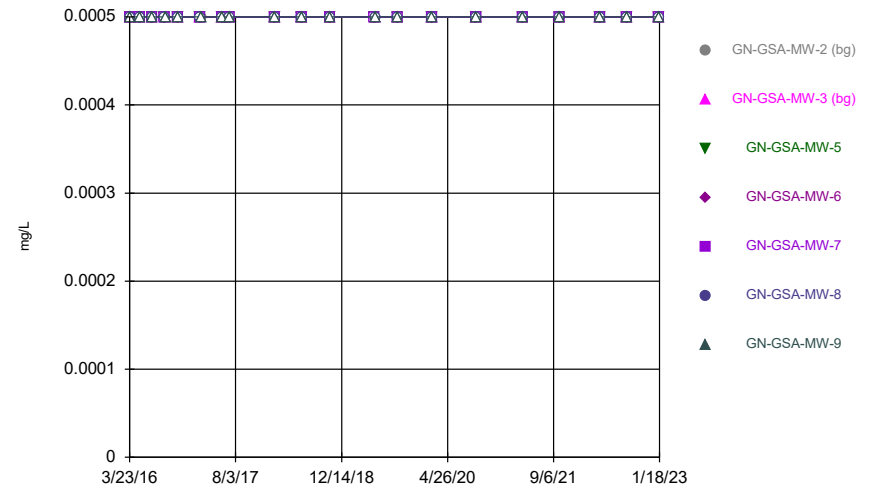
Constituent: Lithium Analysis Run 3/14/2023 10:06 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

Time Series



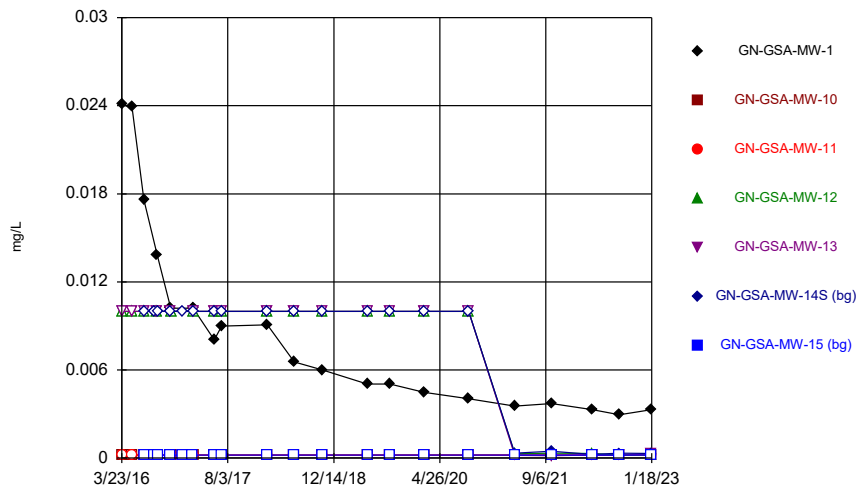
Constituent: Mercury Analysis Run 3/14/2023 10:06 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

Time Series



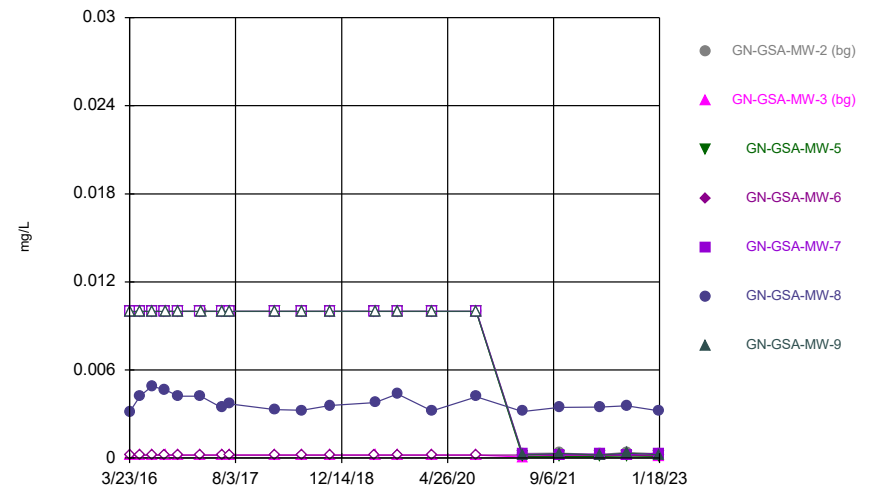
Constituent: Mercury Analysis Run 3/14/2023 10:06 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

Time Series



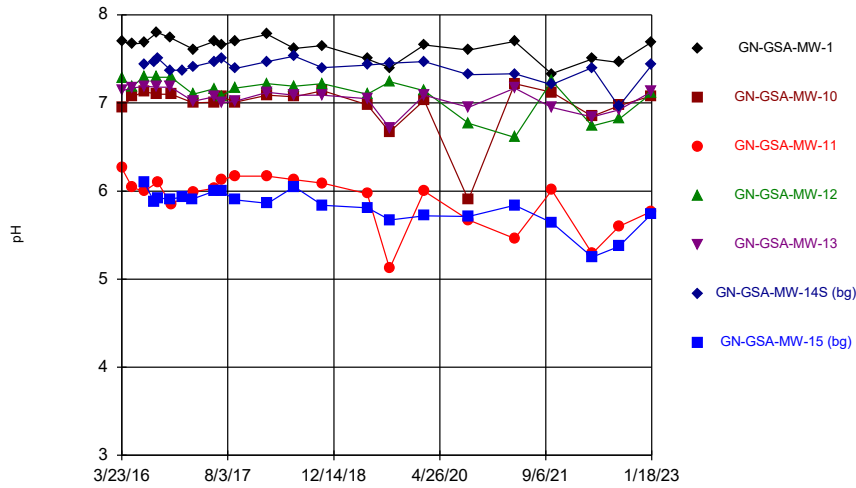
Constituent: Molybdenum Analysis Run 3/14/2023 10:06 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

Time Series



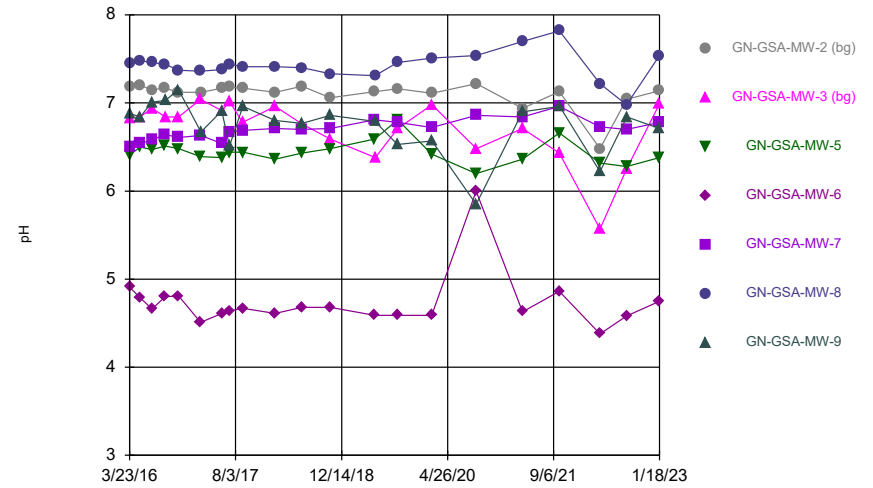
Constituent: Molybdenum Analysis Run 3/14/2023 10:06 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Time Series



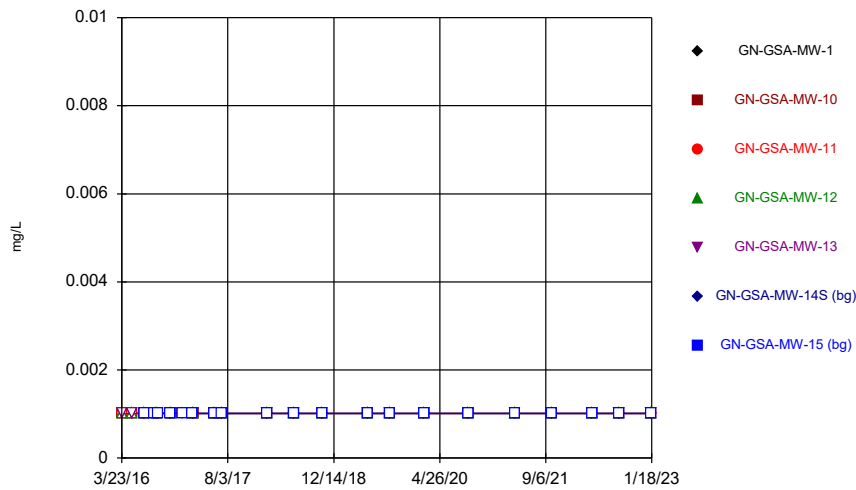
Constituent: pH Analysis Run 3/14/2023 10:06 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Time Series



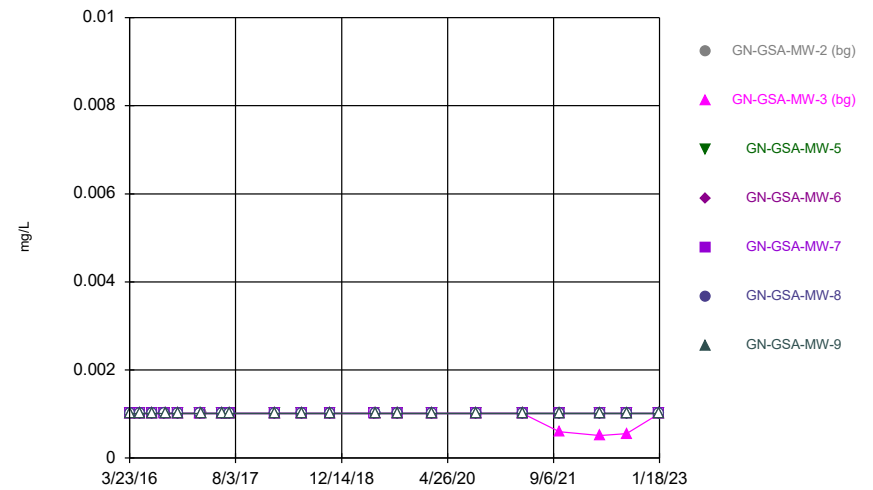
Constituent: pH Analysis Run 3/14/2023 10:06 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Time Series



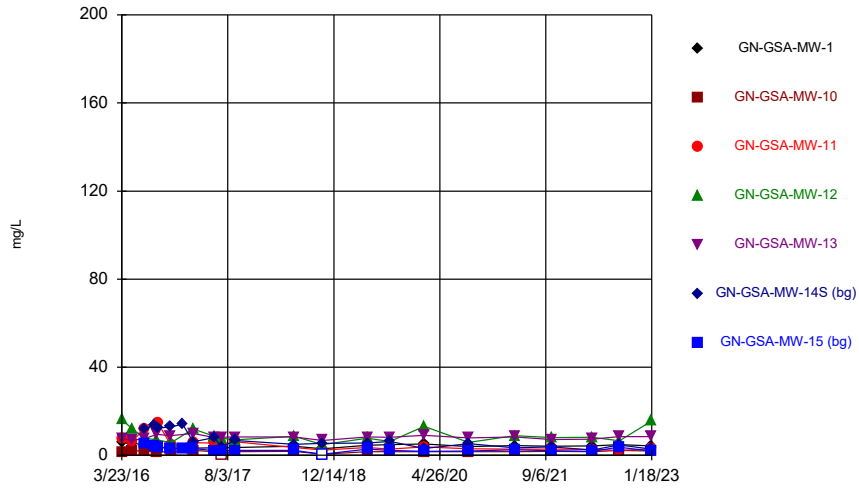
Constituent: Selenium Analysis Run 3/14/2023 10:06 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Time Series



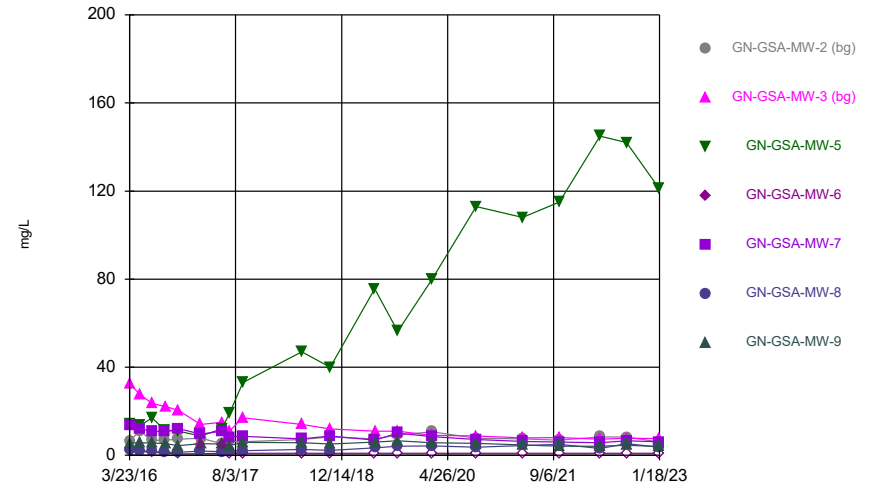
Constituent: Selenium Analysis Run 3/14/2023 10:06 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Time Series



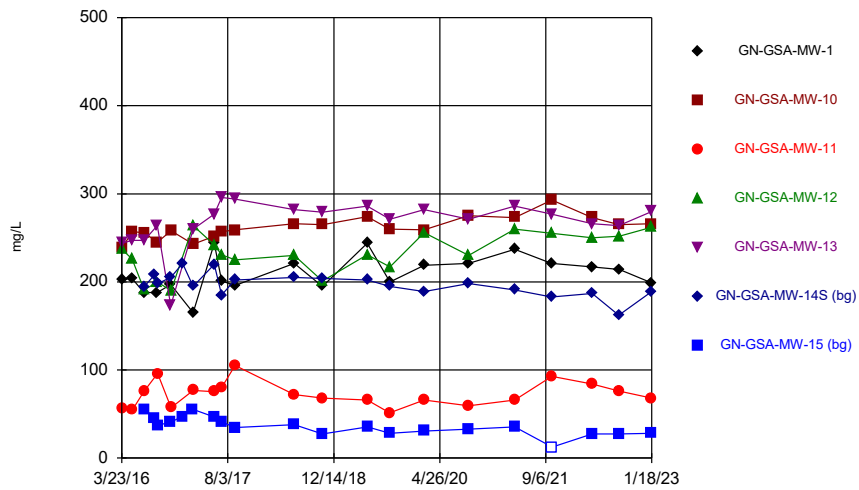
Constituent: Sulfate Analysis Run 3/14/2023 10:06 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Time Series



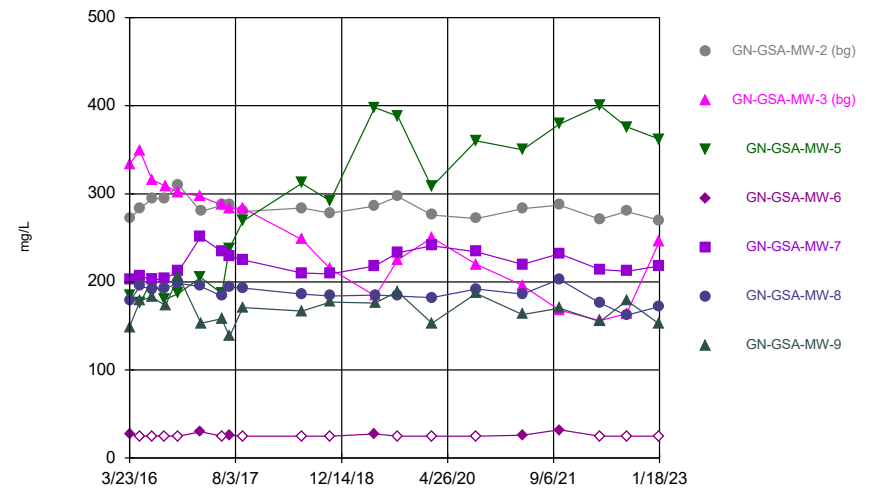
Constituent: Sulfate Analysis Run 3/14/2023 10:06 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Time Series



Constituent: TDS Analysis Run 3/14/2023 10:06 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

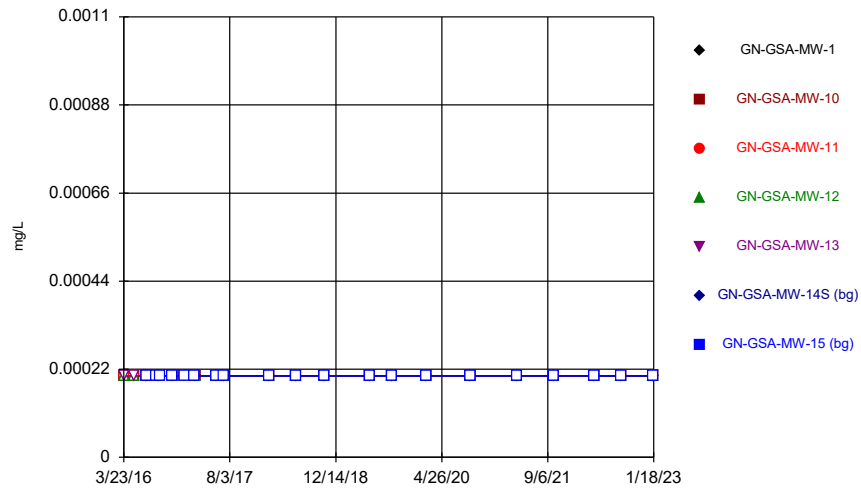
### Time Series



Constituent: TDS Analysis Run 3/14/2023 10:07 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

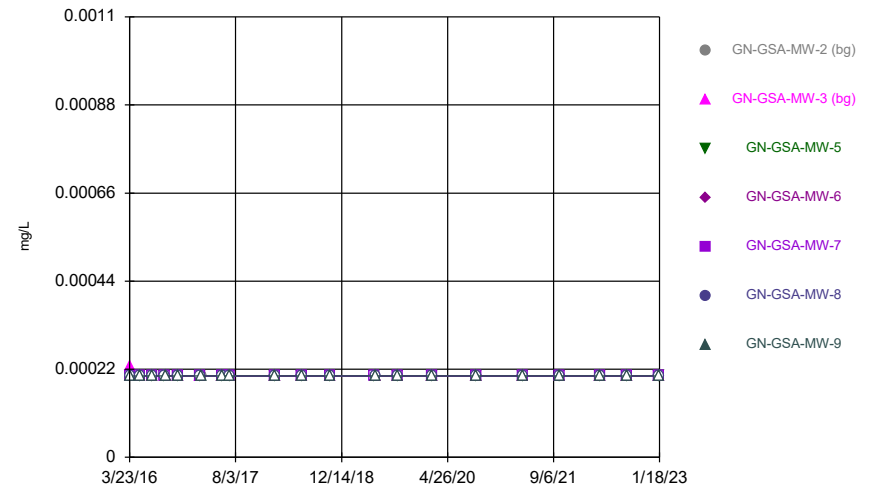


### Time Series



Constituent: Thallium Analysis Run 3/14/2023 10:07 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Time Series



Constituent: Thallium Analysis Run 3/14/2023 10:07 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

# Time Series

Constituent: Antimony (mg/L) Analysis Run 3/14/2023 10:07 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S..	GN-GSA-MW-15 ...
3/23/2016			<0.001015	<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
10/4/2021	<0.001015				<0.001015	<0.001015	
10/5/2021		<0.001015	<0.001015	<0.001015			
10/6/2021							<0.001015
4/12/2022							<0.001015
4/13/2022	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
8/16/2022					<0.001015	<0.001015	<0.001015
8/17/2022		<0.001015	<0.001015				
8/18/2022	<0.001015			<0.001015			
1/17/2023	<0.001015					<0.001015	<0.001015
1/18/2023		0.000552 (J)	<0.001015	<0.001015	<0.001015		

# Time Series

Constituent: Antimony (mg/L) Analysis Run 3/14/2023 10:07 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	<0.001015	<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
10/4/2021	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
10/5/2021							<0.001015
4/12/2022	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
8/16/2022	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
8/17/2022							<0.001015
1/17/2023	<0.001015				<0.001015		
1/18/2023		0.00195	<0.001015	0.000644 (J)		<0.001015	<0.001015

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 3/14/2023 10:07 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S..	GN-GSA-MW-15 ...
3/23/2016			<0.005	0.0013 (J)			
3/24/2016	0.0444 (o)	<0.000203			0.00157 (J)		
5/10/2016	0.041 (o)			0.00107 (J)	0.00182 (J)		
5/11/2016		<0.000203	<0.005				
7/5/2016	0.0333 (o)					<0.005	
7/6/2016		<0.000203	<0.005	0.00113 (J)	0.00152 (J)		<0.005
8/23/2016						<0.005	<0.005
9/6/2016	0.0289	<0.000203		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		<0.000203	<0.005	0.00168 (J)			
1/3/2017						<0.005	<0.005
2/20/2017							<0.005
2/21/2017		<0.000203	<0.005	<0.005		<0.005	
2/22/2017	0.0192				0.0011 (J)		
5/31/2017	0.0154	<0.000203	<0.005	0.00102 (J)	<0.005	<0.005	<0.005
7/5/2017	0.0155	<0.000203	<0.005	0.00117 (J)	<0.005	<0.005	<0.005
2/5/2018	0.014			0.00127 (J)	<0.005		
2/6/2018		<0.000203	<0.005			<0.005	
2/7/2018							<0.005
6/12/2018	0.011	<0.000203	<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		<0.000203	<0.005				
5/21/2019	0.00722	<0.000203	<0.005	<0.005	0.00348 (J)		
5/22/2019						<0.005	<0.005
9/3/2019		<0.000203	<0.005				
9/4/2019	0.00534			<0.005	<0.005	<0.005	<0.005
2/12/2020	0.0062	<0.000203	<0.005	<0.005	<0.005	<0.005	<0.005
9/8/2020		<0.000203					
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)
10/4/2021	0.00335				0.00012 (J)	0.00016 (J)	
10/5/2021		7E-05 (J)	0.00011 (J)	0.00023			
10/6/2021							0.00032
4/12/2022							0.00028
4/13/2022	0.00248	<0.000203	9E-05 (J)	0.00021	0.00014 (J)	0.00014 (J)	
8/16/2022					0.000131 (J)	0.00014 (J)	0.000298
8/17/2022		<0.000203	0.000109 (J)				
8/18/2022	0.00199			0.000189 (J)			
1/17/2023	0.00221					0.000122 (J)	0.000172 (J)
1/18/2023		0.000215	0.000103 (J)	0.000254	0.000122 (J)		

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 3/14/2023 10:07 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	<0.005	<0.000203	<0.005	<0.000203	<0.005		<0.005
3/24/2016						0.00112 (J)	
5/10/2016	<0.005	<0.000203					
5/11/2016			<0.005	<0.000203	<0.005	<0.005	<0.005
7/5/2016	<0.005						
7/6/2016		<0.000203	<0.005	<0.000203	<0.005	0.00124 (J)	<0.005
9/6/2016	<0.005		<0.005	<0.000203	<0.005	0.00137 (J)	
9/7/2016		<0.000203					0.00101 (J)
11/8/2016	<0.005	<0.000203	<0.005	<0.000203	<0.005	0.00162 (J)	0.00121 (J)
2/20/2017		<0.000203	<0.005	<0.000203	<0.005	0.00127 (J)	
2/21/2017	<0.005						<0.005
5/30/2017			<0.005	<0.000203		0.00129 (J)	<0.005
5/31/2017	<0.005	<0.000203			<0.005		
7/5/2017	<0.005	<0.000203	<0.005	<0.000203	<0.005	0.00116 (J)	<0.005
2/5/2018	<0.005						
2/6/2018		<0.000203	<0.005	<0.000203	<0.005	0.00131 (J)	<0.005
6/11/2018			0.00119 (J)	<0.000203	<0.005		
6/12/2018	<0.005	<0.000203				0.00115 (J)	<0.005
10/22/2018	<0.005		0.00188 (J)	<0.000203	<0.005	0.0015 (J)	<0.005
10/23/2018		<0.000203					
5/20/2019	<0.005		0.00259 (J)	<0.000203	<0.005		
5/21/2019						0.00128 (J)	<0.005
5/22/2019		<0.000203					
9/3/2019						0.00118 (J)	<0.005
9/4/2019	<0.005	<0.000203	0.00305 (J)	<0.000203	<0.005		
2/11/2020			<0.005	<0.000203	0.001 (J)		
2/12/2020	<0.005	<0.000203				0.00133 (J)	<0.005
9/8/2020			<0.005	<0.000203			<0.005
9/9/2020	<0.005	<0.000203			<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
10/4/2021	0.00017 (J)	<0.000203	0.00057	8E-05 (J)	0.00029	0.00135	
10/5/2021							0.00014 (J)
4/12/2022	0.0001 (J)	<0.000203	0.0009	0.00011 (J)	0.00043	0.00124	0.00018 (J)
8/16/2022	8.2E-05 (J)	<0.000203	0.00134	<0.000203	0.000335	0.00116	
8/17/2022							8.6E-05 (J)
1/17/2023	0.000132 (J)				0.000711		
1/18/2023		0.000116 (J)	0.000836	0.000157 (J)		0.00111	0.000121 (J)

# Time Series

Constituent: Barium (mg/L) Analysis Run 3/14/2023 10:07 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S..	GN-GSA-MW-15 ...
3/23/2016			0.00756 (J)	0.0224			
3/24/2016	1.43	0.0339			0.0432		
5/10/2016	1.83			0.0232	0.0609		
5/11/2016		0.0375	0.00769 (J)				
7/5/2016	1.71					0.0375	
7/6/2016		0.0374	0.00975 (J)	0.0199	0.0542		0.014
8/23/2016						0.0353	0.00858 (J)
9/6/2016	1.65	0.0331		0.0195	0.0544		
9/7/2016			0.0101			0.0365	0.00994 (J)
11/8/2016	1.6				0.0491	0.0393	0.0108
11/9/2016		0.0367	0.00934 (J)	0.017			
1/3/2017						0.0373	0.00989 (J)
2/20/2017							0.00932 (J)
2/21/2017		0.0335	0.00713 (J)	0.0214		0.0262	
2/22/2017	1.53				0.0537		
5/31/2017	1.66	0.0314	0.00552 (J)	0.0223	0.0452	0.0305	0.00876 (J)
7/5/2017	1.66	0.0321	0.00664 (J)	0.022	0.0461	0.0245	0.00935 (J)
2/5/2018	1.8			0.0254	0.0469		
2/6/2018		0.0337	0.00614 (J)			0.034	
2/7/2018							0.00897 (J)
6/12/2018	2.32	0.0342	0.00637 (J)	0.023	0.0469	0.0291	0.0112
10/23/2018	2.22			0.0176	0.0457	0.032	0.00948 (J)
10/24/2018		0.0393	0.00522 (J)				
5/21/2019	2.51	0.0323	0.0056 (J)	0.0214	0.0697		
5/22/2019						0.0257	0.00958 (J)
9/3/2019		0.0377	0.00656 (J)				
9/4/2019	1.96			0.0205	0.0455	0.0303	0.00964 (J)
2/12/2020	2.15	0.0344	0.00444 (J)	0.024	0.0419	0.0239	0.0088 (J)
9/8/2020		0.0331					
9/9/2020	2.5		0.00545 (J)	0.0182	0.039	0.0262	0.00706 (J)
4/13/2021	2.41	0.0373	0.00636	0.0234	0.0403	0.0217	0.00801
10/4/2021	1.92				0.0369	0.024	
10/5/2021		0.0359	0.00871	0.0212			
10/6/2021							0.00769
4/12/2022							0.00927
4/13/2022	2.68	0.0403	0.0162	0.0272	0.0415	0.0217	
8/16/2022					0.0383	0.0251	0.0074
8/17/2022		0.0361	0.0131				
8/18/2022	2.23			0.0204			
1/17/2023	2.22					0.0201	0.00718
1/18/2023		0.0354	0.0106	0.0223	0.0351		

# Time Series

Constituent: Barium (mg/L) Analysis Run 3/14/2023 10:07 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	0.0389	0.0597	0.0333	0.0149	0.02		0.0252
3/24/2016						0.0249	
5/10/2016	0.0552	0.0622					
5/11/2016			0.0378	0.0168	0.0221	0.0291	0.0327
7/5/2016	0.0329						
7/6/2016		0.0512	0.0456	0.0166	0.0227	0.0317	0.0342
9/6/2016	0.0297		0.0378	0.0144	0.0204	0.0312	
9/7/2016		0.0453					0.0292
11/8/2016	0.0313	0.0423	0.039	0.015	0.0208	0.0349	0.0281
2/20/2017		0.0306	0.0337	0.0126	0.0193	0.0264	
2/21/2017	0.0396						0.0235
5/30/2017			0.0374	0.0146		0.027	0.0214
5/31/2017	0.0301	0.0347			0.0201		
7/5/2017	0.0274	0.0287	0.0361	0.0143	0.0181	0.0245	0.0213
2/5/2018	0.0325						
2/6/2018		0.0341	0.0418	0.0156	0.0183	0.0248	0.0232
6/11/2018			0.056	0.0155	0.0196		
6/12/2018	0.0286	0.0323				0.0299	0.0259
10/22/2018	0.0324		0.0711	0.0185	0.0228	0.0314	0.0265
10/23/2018		0.035					
5/20/2019	0.0256		0.0671	0.0156	0.0163		
5/21/2019						0.0264	0.0249
5/22/2019		0.0271					
9/3/2019						0.0314	0.0271
9/4/2019	0.0325	0.0358	0.0824	0.0176	0.0256		
2/11/2020			0.0513	0.0175	0.0194		
2/12/2020	0.0372	0.0257				0.0257	0.0214
9/8/2020			0.0464	0.0159			0.0234
9/9/2020	0.03	0.0273			0.0161	0.026	
4/13/2021	0.0371	0.0259	0.0478	0.0175	0.016	0.0262	0.0226
10/4/2021	0.0353	0.0232	0.0494	0.0161	0.0181	0.0265	
10/5/2021							0.0234
4/12/2022	0.034	0.0309	0.0666	0.0214	0.0192	0.0294	0.0252
8/16/2022	0.0314	0.025	0.0743	0.0178	0.0175	0.0275	
8/17/2022							0.0237
1/17/2023	0.0363				0.018		
1/18/2023		0.0213	0.0635	0.0176		0.0257	0.0217

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 3/14/2023 10:07 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S..	GN-GSA-MW-15 ...
3/23/2016			<0.001015	<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
10/4/2021	<0.001015				<0.001015	<0.001015	
10/5/2021		<0.001015	<0.001015	<0.001015			
10/6/2021							<0.001015
4/12/2022							<0.001015
4/13/2022	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
8/16/2022					<0.001015	<0.001015	<0.001015
8/17/2022		<0.001015	<0.001015				
8/18/2022	<0.001015			<0.001015			
1/17/2023	<0.001015					<0.001015	<0.001015
1/18/2023		<0.001015	<0.001015	<0.001015	<0.001015		



# Time Series

Constituent: Beryllium (mg/L) Analysis Run 3/14/2023 10:07 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	<0.001015	<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
10/4/2021	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
10/5/2021							<0.001015
4/12/2022	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
8/16/2022	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
8/17/2022							<0.001015
1/17/2023	<0.001015				<0.001015		
1/18/2023		<0.001015	<0.001015	<0.001015		<0.001015	<0.001015

# Time Series

Constituent: Boron (mg/L) Analysis Run 3/14/2023 10:07 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S..	GN-GSA-MW-15 ...
3/23/2016			0.0309 (J)	0.0387 (J)			
3/24/2016	0.0311 (J)	<0.1015			<0.1015		
5/10/2016	0.0334 (J)			0.0384 (J)	<0.1015		
5/11/2016		<0.1015	0.0306 (J)				
7/5/2016	0.0359 (J)					<0.1015	
7/6/2016		<0.1015	0.0307 (J)	0.029 (J)	<0.1015		<0.1015
8/23/2016						<0.1015	<0.1015
9/6/2016	0.0316 (J)	<0.1015		0.0278 (J)	<0.1015		
9/7/2016			0.0319 (J)			<0.1015	<0.1015
11/8/2016	0.0361 (J)				<0.1015	<0.1015	<0.1015
11/9/2016		<0.1015	0.0362 (J)	0.0331 (J)			
1/3/2017						0.0211 (J)	<0.1015
2/20/2017							<0.1015
2/21/2017		<0.1015	0.0295 (J)	0.0323 (J)		<0.1015	
2/22/2017	0.028 (J)				<0.1015		
5/31/2017	0.0297 (J)	<0.1015	0.0312 (J)	0.0316 (J)	<0.1015	<0.1015	<0.1015
7/5/2017	0.0302 (J)	<0.1015	0.0315 (J)	0.0318 (J)	<0.1015	<0.1015	<0.1015
9/5/2017						<0.1015	<0.1015
9/7/2017	0.0345 (J)	<0.1015	0.0408 (J)	0.0338 (J)	<0.1015		
6/12/2018	0.0331 (J)	<0.1015	0.034 (J)	0.0305 (J)	<0.1015	<0.1015	<0.1015
10/23/2018	0.0345 (J)			0.0347 (J)	<0.1015	<0.1015	<0.1015
10/24/2018		<0.1015	0.0416 (J)				
5/21/2019	0.0376 (J)	<0.1015	0.0413 (J)	<0.1015	<0.1015		
5/22/2019						<0.1015	<0.1015
9/3/2019		<0.1015	0.0452 (J)				
9/4/2019	0.0363 (J)			<0.1015	<0.1015	<0.1015	<0.1015
2/12/2020	0.0349 (J)	<0.1015	0.043 (J)	<0.1015	<0.1015	<0.1015	<0.1015
9/8/2020		<0.1015					
9/9/2020	0.0366 (J)		0.044 (J)	<0.1015	<0.1015	<0.1015	<0.1015
4/13/2021	0.0306 (J)	<0.1015	0.0422 (J)	<0.1015	<0.1015	<0.1015	<0.1015
10/4/2021	0.0343 (J)				<0.1015	<0.1015	
10/5/2021		<0.1015	0.0472 (J)	<0.1015			
10/6/2021							<0.1015
4/12/2022							<0.1015
4/13/2022	0.0353 (J)	<0.1015	0.0565 (J)	<0.1015	<0.1015	<0.1015	
8/16/2022					<0.1015	<0.1015	<0.1015
8/17/2022		<0.1015	0.0528 (J)				
8/18/2022	<0.1015			<0.1015			
1/17/2023	0.035 (J)					<0.1015	<0.1015
1/18/2023		<0.1015	0.0603 (J)	<0.1015	<0.1015		

# Time Series

Constituent: Boron (mg/L) Analysis Run 3/14/2023 10:07 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	<0.1015	<0.1015	<0.1	<0.1015	<0.1015		<0.1015
3/24/2016						<0.1015	
5/10/2016	<0.1015	<0.1015					
5/11/2016			<0.1	<0.1015	<0.1015	<0.1015	<0.1015
7/5/2016	<0.1015						
7/6/2016		<0.1015	<0.1	<0.1015	<0.1015	<0.1015	<0.1015
9/6/2016	<0.1015		<0.1	<0.1015	<0.1015	<0.1015	
9/7/2016		<0.1015					<0.1015
11/8/2016	<0.1015	<0.1015	<0.1	<0.1015	<0.1015	<0.1015	<0.1015
2/20/2017		<0.1015	<0.1	<0.1015	<0.1015	<0.1015	
2/21/2017	<0.1015						<0.1015
5/30/2017			<0.1	<0.1015		<0.1015	<0.1015
5/31/2017	<0.1015	<0.1015			<0.1015		
7/5/2017	<0.1015	<0.1015	<0.1	<0.1015	<0.1015	<0.1015	<0.1015
9/5/2017	<0.1015	<0.1015					
9/7/2017			0.022 (J)	<0.1015	<0.1015	<0.1015	<0.1015
6/11/2018			0.0386 (J)	<0.1015	<0.1015		
6/12/2018	<0.1015	<0.1015				<0.1015	<0.1015
10/22/2018	<0.1015		0.0456 (J)	<0.1015	<0.1015	<0.1015	<0.1015
10/23/2018		<0.1015					
5/20/2019	<0.1015		0.0769 (J)	<0.1015	<0.1015		
5/21/2019						<0.1015	<0.1015
5/22/2019		<0.1015					
9/3/2019						<0.1015	<0.1015
9/4/2019	<0.1015	<0.1015	0.0641 (J)	<0.1015	<0.1015		
2/11/2020			0.0406 (J)	<0.1015	<0.1015		
2/12/2020	<0.1015	<0.1015				<0.1015	<0.1015
9/8/2020			0.0425 (J)	<0.1015			<0.1015
9/9/2020	<0.1015	<0.1015			<0.1015	<0.1015	
4/13/2021	<0.1015	<0.1015	0.0333 (J)	<0.1015	<0.1015	<0.1015	<0.1015
10/4/2021	<0.1015	<0.1015	0.0392 (J)	<0.1015	<0.1015	<0.1015	
10/5/2021							<0.1015
4/12/2022	<0.1015	<0.1015	0.0481 (J)	<0.1015	<0.1015	<0.1015	<0.1015
8/16/2022	<0.1015	<0.1015	0.0379 (J)	<0.1015	<0.1015	<0.1015	
8/17/2022							<0.1015
1/17/2023	<0.1015				<0.1015		
1/18/2023		<0.1015	0.0416 (J)	<0.1015		<0.1015	<0.1015

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 3/14/2023 10:07 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S..	GN-GSA-MW-15 ...
3/23/2016			<0.000203	<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
10/4/2021	<0.000203				<0.000203	<0.000203	
10/5/2021		8E-05 (J)	<0.000203	<0.000203			
10/6/2021							<0.000203
4/12/2022							<0.000203
4/13/2022	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
8/16/2022					<0.000203	<0.000203	<0.000203
8/17/2022		0.000143 (J)	<0.000203				
8/18/2022	<0.000203			<0.000203			
1/17/2023	<0.000203					<0.000203	<0.000203
1/18/2023		<0.000203	<0.000203	<0.000203	<0.000203		

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 3/14/2023 10:07 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	<0.000203	<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
10/4/2021	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
10/5/2021							<0.000203
4/12/2022	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
8/16/2022	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
8/17/2022							<0.000203
1/17/2023	<0.000203				<0.000203		
1/18/2023		<0.000203	<0.000203	<0.000203		<0.000203	<0.000203

# Time Series

Constituent: Calcium (mg/L) Analysis Run 3/14/2023 10:07 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S..GN-GSA-MW-15 ...
3/23/2016			14.8	70.2		
3/24/2016	36.9	90.3			79.9	
5/10/2016	37.9			65.6	77.6	
5/11/2016		91.1	11.5			
7/5/2016	35.3					50.8
7/6/2016		90.7	10.4	58.2	72	10.7
8/23/2016						51.7 7.34
9/6/2016	34.8	94.5		62.3	81.6	
9/7/2016			9.73			48.4 7.86
11/8/2016	34.3				83.8	50.7 8.94
11/9/2016		92.9	8.07	62.7		
1/3/2017						55.4 9.21
2/20/2017						8.53
2/21/2017		93.1	13.2	69.9		48
2/22/2017	35.9				86.4	
5/31/2017	34.3	86.6	8.56	66.5	84.1	45.4 7.02
7/5/2017	35.5	91.5	11.9	66.9	89.5	45.7 8.08
9/5/2017						48.5 7.44
9/7/2017	36.7	99	9.2	72.9	93.2	
6/12/2018	42.2	101	11.5	69.9	101	45.2 7.37
10/23/2018	38.9			64.3	97.6	44.4 5.94
10/24/2018		104	7.73			
5/21/2019	47.8	101	11.7	77.9	106	
5/22/2019						47.1 6.34
9/3/2019		102	8.9			
9/4/2019	41.4			74.2	93.7	47.4 6.07
2/12/2020	44.1	99.2	13.1	77.8	93.1	57.3 5.62
9/8/2020		99.9				
9/9/2020	44.5		9.3	77	88.7	46.7 4.73
4/13/2021	44	97.1	12.3	81.6	89.8	48.4 5.17
10/4/2021	45.4				92.2	48
10/5/2021		108	13.8	87.9		
10/6/2021						4.62
4/12/2022						4.59
4/13/2022	47.5	107	15	88	91.8	58.9
8/16/2022					107	52.099998 4.13
8/17/2022		118	12.6			
8/18/2022	53.5			110		
1/17/2023	43.5					54.099998 4.39
1/18/2023		103	13.8	83.300003	93.699997	

# Time Series

Constituent: Calcium (mg/L) Analysis Run 3/14/2023 10:07 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	75.3	106	48.1	1.32	59.1		45.9
3/24/2016						57.4	
5/10/2016	75.7	109					
5/11/2016			46	1.13	58.9	57	49.4
7/5/2016	78.8						
7/6/2016		98.7	52.1	1.18	60.8	56.7	56
9/6/2016	84.3		49.7	1.09	62.2	57.3	
9/7/2016		98.6					53.8
11/8/2016	87.2	99.7	54.3	1.32	63.9	59.4	64.3
2/20/2017		93.4	51.3	0.829	69.6	57.7	
2/21/2017	80						45.6
5/30/2017			50	0.743		52.5	45.8
5/31/2017	75.2	84.1			63		
7/5/2017	77.2	92.6	56.9	0.68	64.6	52.7	36.4
9/5/2017	77.5	86.1					
9/7/2017			66.5	0.825	70.5	58.4	53.5
6/11/2018			62.4	0.722	63.5		
6/12/2018	78.9	76.5				53.7	47.6
10/22/2018	96.9		60.6	0.79	70.3	55.4	52.4
10/23/2018		68.8					
5/20/2019	87.3		58.8	0.652	72.5		
5/21/2019						55.7	51.6
5/22/2019		53.1					
9/3/2019						57.4	60.3
9/4/2019	89.8	76.4	57.9	0.872	72		
2/11/2020			76.6	0.562	71.2		
2/12/2020	81.4	89.6				55.7	45.3
9/8/2020			83.9	0.652			57.5
9/9/2020	80.9	63.1			66.7	55.3	
4/13/2021	77.5	57.8	79.2	0.505	64.1	52.2	43.5
10/4/2021	85	43.7	81.6	0.53	70.4	55.1	
10/5/2021							54.6
4/12/2022	87.1	55.1	94.1	0.516	71.2	54.4	50.4
8/16/2022	96.300003	50.5	94.800003	0.516	82.199997	58.400002	
8/17/2022							67.699997
1/17/2023	83.400002				66.800003		
1/18/2023		87.900002	85.599998	0.583		53.799999	48.799999

# Time Series

Constituent: Chloride (mg/L) Analysis Run 3/14/2023 10:07 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S..GN-GSA-MW-15 ...
3/23/2016			2.64	4.43		
3/24/2016	3.35	2.78			3.16	
5/10/2016	3.06			3.38	3.02	
5/11/2016		2.62	3.02			
7/5/2016	2.9					3.86
7/6/2016		2.53	4.01	2.62	3.1	3.78
8/23/2016						4.69
9/6/2016	2.54	2.51		2.65	3.31	3.47
9/7/2016			4.51			4.6
11/8/2016	2.34				3.32	4.68
11/9/2016		2.67	3.74	2.55		3.29
1/3/2017						5.25
2/20/2017						3.11
2/21/2017		3.4	4.1	4.7		2.7
2/22/2017	2.9				4.8	
5/31/2017	2.7	3.6	5.3	4.1	4	4.2
7/5/2017	2.2	2.7	4.6	3.2	3.6	3.4
9/5/2017						4.5
9/7/2017	<2 (U*)	<2 (U*)	6.5	<2 (U*)	4.5	<2 (U*)
6/12/2018	2.4	2.8	8.8	3.1	3.5	3.6
10/23/2018	2.1			2.1	3.5	3.4
10/24/2018		2.9	7.2			1.5 (J)
5/21/2019	2.6	2.98	10.4	3.02	3.3	
5/22/2019						2.89
9/3/2019		2.84	7.1			1.75
9/4/2019	2.39			2.73	3.33	2.88
2/12/2020	2.36	2.86	7.16	4.21	4.1	2.4
9/8/2020		2.8				1.8
9/9/2020	2.49		6.27	2.8	3.4	2.49
4/13/2021	2.54	3.07	9.8	3.97	3.56	2.56
10/4/2021	2.58				3.37	2.5
10/5/2021		3.04	13.8	3.69		
10/6/2021						2.07
4/12/2022						1.88
4/13/2022	2.17	2.77	19.6	3.76	3.01	2.42
8/16/2022					3.47	2.54
8/17/2022		3.11	19.5			2.27
8/18/2022	2.3			3.53		
1/17/2023	2.31					2.58
1/18/2023		3.09	14.6	5.68	3.8	2.11



# Time Series

Constituent: Chloride (mg/L) Analysis Run 3/14/2023 10:07 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	3.6	3.67	4.84	3.36	3.28		2.26
3/24/2016						1.73	
5/10/2016	4.18	3.34					
5/11/2016			4.19	3.04	3.08	1.68	2.26
7/5/2016	3.12						
7/6/2016		3.08	4.67	2.86	2.96	1.68	2.28
9/6/2016	3.21		4.23	2.92	2.97	1.7	
9/7/2016		2.95					2.32
11/8/2016	3.33	2.92	4.51	3.01	3.22	2.03	2.26
2/20/2017		3.3	5.8	3.7	4	2.3	
2/21/2017	4.6						2.9
5/30/2017			13	3.2		2.2	2.9
5/31/2017	3.8	2.9			4.3		
7/5/2017	3.4	2.6	17	2.8	3.4	1.6 (J)	2.7
9/5/2017	4.4	3.5					
9/7/2017			17	<2 (U*)	4	<2 (U*)	<2 (U*)
6/11/2018			14	2.7	3.6		
6/12/2018	3.4	3.1				1.9 (J)	2.6
10/22/2018	3.6		14	2.6	3.7	<2	2
10/23/2018		2.6					
5/20/2019	3.53		12.9	3.15	3.25		
5/21/2019						1.51	2.12
5/22/2019		2.83					
9/3/2019						1.64	2.26
9/4/2019	3.56	2.92	11.9	3.21	4.31		
2/11/2020			11.2	3.36	3.69		
2/12/2020	3.66	2.49				1.64	2.24
9/8/2020			11.7	3.29			2.06
9/9/2020	3.44	2.74			3.34	1.61	
4/13/2021	3.55	2.76	9.78	3.54	3.64	1.64	2.14
10/4/2021	3.59	2.88	9.45	3.61	3.48	1.76	
10/5/2021							2.16
4/12/2022	3.23	2.67	7.35	3.38	3.29	1.54	1.91
8/16/2022	3.66	3.08	9.72	3.64	3.8	1.69	
8/17/2022							2.13
1/17/2023	4.76				3.65		
1/18/2023		2.84	9.67	3.69		1.71	2.01

# Time Series

Constituent: Chromium (mg/L) Analysis Run 3/14/2023 10:07 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S..	GN-GSA-MW-15 ...
3/23/2016			<0.001015	<0.001015			
3/24/2016	<0.001015	<0.00102			<0.01		
5/10/2016	<0.001015			<0.001015	<0.01		
5/11/2016		<0.00102	<0.001015				
7/5/2016	<0.001015					<0.01	
7/6/2016		<0.00102	<0.001015	<0.001015	<0.01		<0.00102
8/23/2016						<0.01	<0.00102
9/6/2016	<0.001015	<0.00102		<0.001015	<0.01		
9/7/2016			<0.001015			<0.01	<0.00102
11/8/2016	<0.001015				<0.01	<0.01	<0.00102
11/9/2016		<0.00102	<0.001015	<0.001015			
1/3/2017						<0.01	<0.00102
2/20/2017							<0.00102
2/21/2017		<0.00102	<0.001015	<0.001015		<0.01	
2/22/2017	<0.001015				<0.01		
5/31/2017	<0.001015	<0.00102	<0.001015	<0.001015	<0.01	<0.01	<0.00102
7/5/2017	<0.001015	<0.00102	<0.001015	<0.001015	<0.01	<0.01	<0.00102
2/5/2018	<0.001015			<0.001015	<0.01		
2/6/2018		<0.00102	<0.001015			<0.01	
2/7/2018							<0.00102
6/12/2018	<0.001015	<0.00102	<0.001015	<0.001015	<0.01	<0.01	<0.00102
10/23/2018	<0.001015			<0.001015	<0.01	<0.01	<0.00102
10/24/2018		<0.00102	<0.001015				
5/21/2019	<0.001015	<0.00102	<0.001015	<0.001015	0.002 (J)		
5/22/2019						<0.01	<0.00102
9/3/2019		<0.00102	<0.001015				
9/4/2019	<0.001015			<0.001015	<0.01	<0.01	<0.00102
2/12/2020	<0.001015	<0.00102	<0.001015	<0.001015	<0.01	<0.01	<0.00102
9/8/2020		<0.00102					
9/9/2020	<0.001015		<0.001015	<0.001015	<0.01	<0.01	<0.00102
4/13/2021	<0.001015	<0.00102	<0.001015	<0.001015	0.000518 (J)	0.000697 (J)	0.000375 (J)
10/4/2021	0.00021 (J)				0.00055 (J)	0.00065 (J)	
10/5/2021		0.00023 (J)	0.0003 (J)	0.00029 (J)			
10/6/2021							<0.00102
4/12/2022							0.00023 (J)
4/13/2022	<0.001015	<0.00102	<0.001015	0.00021 (J)	0.00052 (J)	0.0007 (J)	
8/16/2022					0.000444 (J)	0.000574 (J)	0.000374 (J)
8/17/2022		0.000266 (J)	<0.001015				
8/18/2022	<0.001015			<0.001015			
1/17/2023	<0.001015					0.000606 (J)	0.000279 (J)
1/18/2023		0.000283 (J)	<0.001015	<0.001015	0.000417 (J)		

# Time Series

Constituent: Chromium (mg/L) Analysis Run 3/14/2023 10:07 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	<0.01	<0.01	<0.001015	<0.001015	<0.001015		<0.001015
3/24/2016						<0.01	
5/10/2016	<0.01	<0.01					
5/11/2016			<0.001015	<0.001015	<0.001015	<0.01	<0.001015
7/5/2016	<0.01						
7/6/2016		<0.01	<0.001015	<0.001015	<0.001015	<0.01	<0.001015
9/6/2016	<0.01		<0.001015	<0.001015	<0.001015	<0.01	
9/7/2016		<0.01					<0.001015
11/8/2016	<0.01	<0.01	<0.001015	<0.001015	<0.001015	<0.01	<0.001015
2/20/2017		<0.01	<0.001015	<0.001015	<0.001015	<0.01	
2/21/2017	<0.01						<0.001015
5/30/2017			<0.001015	<0.001015		<0.01	<0.001015
5/31/2017	<0.01	<0.01			<0.001015		
7/5/2017	<0.01	<0.01	<0.001015	<0.001015	<0.001015	<0.01	<0.001015
2/5/2018	<0.01						
2/6/2018		<0.01	<0.001015	<0.001015	<0.001015	<0.01	<0.001015
6/11/2018			<0.001015	<0.001015	<0.001015		
6/12/2018	<0.01	<0.01				<0.01	<0.001015
10/22/2018	<0.01		<0.001015	<0.001015	<0.001015	<0.01	<0.001015
10/23/2018		<0.01					
5/20/2019	<0.01		<0.001015	<0.001015	<0.001015		
5/21/2019						<0.01	<0.001015
5/22/2019		<0.01					
9/3/2019						<0.01	<0.001015
9/4/2019	<0.01	<0.01	<0.001015	<0.001015	<0.001015		
2/11/2020			<0.001015	<0.001015	<0.001015		
2/12/2020	<0.01	<0.01				<0.01	<0.001015
9/8/2020			<0.001015	<0.001015			<0.001015
9/9/2020	<0.01	<0.01			<0.001015	<0.01	
4/13/2021	0.000517 (J)	0.000337 (J)	<0.001015	0.000257 (J)	0.000361 (J)	0.000291 (J)	0.000276 (J)
10/4/2021	0.00061 (J)	0.00046 (J)	0.00028 (J)	0.00025 (J)	0.00056 (J)	0.00037 (J)	
10/5/2021							0.00021 (J)
4/12/2022	0.00052 (J)	0.00025 (J)	0.00029 (J)	0.00022 (J)	<0.001015	0.00035 (J)	<0.001015
8/16/2022	0.000633 (J)	0.000408 (J)	0.000271 (J)	<0.001015	0.0004 (J)	0.000437 (J)	
8/17/2022							<0.001015
1/17/2023	0.000325 (J)				<0.001015		
1/18/2023		0.000409 (J)	0.000262 (J)	0.000264 (J)		0.000358 (J)	0.000219 (J)

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 3/14/2023 10:07 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S..	GN-GSA-MW-15 ...
3/23/2016			0.00454 (J)	<0.005			
3/24/2016	<0.000203	<0.000203			0.00662 (J)		
5/10/2016	<0.000203			<0.005	0.00549 (J)		
5/11/2016		<0.000203	0.00407 (J)				
7/5/2016	<0.000203					<0.0002	
7/6/2016		<0.000203	0.00654 (J)	<0.005	0.00537 (J)		0.00313 (J)
8/23/2016						<0.0002	<0.005
9/6/2016	<0.000203	<0.000203		<0.005	0.00568 (J)		
9/7/2016			0.00737 (J)			<0.0002	<0.005
11/8/2016	<0.000203				0.00388 (J)	<0.0002	<0.005
11/9/2016		<0.000203	0.00732 (J)	<0.005			
1/3/2017						<0.0002	<0.005
2/20/2017							<0.005
2/21/2017		<0.000203	0.00315 (J)	<0.005		<0.0002	
2/22/2017	<0.000203				0.00412 (J)		
5/31/2017	<0.000203	<0.000203	0.0023 (J)	<0.005	<0.0002	<0.0002	<0.005
7/5/2017	<0.000203	<0.000203	0.00303 (J)	<0.005	<0.0002	<0.0002	<0.005
2/5/2018	<0.000203			<0.005	<0.0002		
2/6/2018		<0.000203	0.00324 (J)			<0.0002	
2/7/2018							<0.005
6/12/2018	<0.000203	<0.000203	0.00251 (J)	<0.005	<0.0002	<0.0002	<0.005
10/23/2018	<0.000203			<0.005	<0.0002	<0.0002	<0.005
10/24/2018		<0.000203	0.00286 (J)				
5/21/2019	<0.000203	<0.000203	0.00245 (J)	<0.005	0.0578 (o)		
5/22/2019						<0.0002	<0.005
9/3/2019		<0.000203	0.00298 (J)				
9/4/2019	<0.000203			<0.005	<0.0002	<0.0002	<0.005
2/12/2020	<0.000203	<0.000203	<0.005	<0.005	<0.0002	<0.0002	<0.005
9/8/2020		<0.000203					
9/9/2020	<0.000203		0.00256 (J)	<0.005	<0.0002	<0.0002	<0.005
4/13/2021	<0.000203	<0.000203	0.00212	0.000218	0.000158 (J)	<0.0002	0.00046
10/4/2021	<0.000203				0.0001 (J)	<0.0002	
10/5/2021		<0.000203	0.00217	0.00042			
10/6/2021							0.0005
4/12/2022							0.00066
4/13/2022	<0.000203	<0.000203	0.00324	0.00016 (J)	<0.0002	<0.0002	
8/16/2022					8.8E-05 (J)	0.000124 (J)	0.000587
8/17/2022		<0.000203	0.00278				
8/18/2022	<0.000203			0.000296			
1/17/2023	<0.000203					7E-05 (J)	0.000272
1/18/2023		0.000912	0.00237	0.000168 (J)	8.6E-05 (J)		

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 3/14/2023 10:07 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	<0.000203	0.00232 (J)	0.00403 (J)	<0.005	0.00656 (J)		<0.000203
3/24/2016						<0.005	
5/10/2016	<0.000203	<0.000203					
5/11/2016			0.00289 (J)	<0.005	0.00505 (J)	<0.005	<0.000203
7/5/2016	<0.000203						
7/6/2016		<0.000203	0.00485 (J)	<0.005	0.00515 (J)	<0.005	<0.000203
9/6/2016	<0.000203		0.00281 (J)	<0.005	0.0037 (J)	<0.005	
9/7/2016		<0.000203					<0.000203
11/8/2016	<0.000203	<0.000203	0.0035 (J)	<0.005	0.00375 (J)	<0.005	<0.000203
2/20/2017		<0.000203	<0.005	<0.005	0.00263 (J)	<0.005	
2/21/2017	<0.000203						<0.000203
5/30/2017			<0.005	<0.005		<0.005	<0.000203
5/31/2017	<0.000203	<0.000203			0.00287 (J)		
7/5/2017	<0.000203	<0.000203	<0.005	<0.005	<0.005	<0.005	<0.000203
2/5/2018	<0.000203						
2/6/2018		<0.000203	0.00274 (J)	<0.005	<0.005	<0.005	<0.000203
6/11/2018			0.00472 (J)	<0.005	<0.005		
6/12/2018	<0.000203	<0.000203				<0.005	<0.000203
10/22/2018	<0.000203		0.0049 (J)	<0.005	<0.005	<0.005	<0.000203
10/23/2018		<0.000203					
5/20/2019	<0.000203		0.00489 (J)	<0.005	<0.005		
5/21/2019						<0.005	<0.000203
5/22/2019		<0.000203					
9/3/2019						<0.005	<0.000203
9/4/2019	<0.000203	<0.000203	0.00527	<0.005	0.00217 (J)		
2/11/2020			<0.005	<0.005	<0.005		
2/12/2020	<0.000203	<0.000203				<0.005	<0.000203
9/8/2020			<0.005	<0.005			<0.000203
9/9/2020	<0.000203	<0.000203			<0.005	<0.005	
4/13/2021	<0.000203	<0.000203	0.00104	0.000682	0.00077	0.000123 (J)	8.16E-05 (J)
10/4/2021	<0.000203	<0.000203	0.00142	0.00065	0.00033	0.00014 (J)	
10/5/2021							0.00041
4/12/2022	<0.000203	<0.000203	0.00215	0.00066	0.0006	7E-05 (J)	<0.000203
8/16/2022	<0.000203	<0.000203	0.00389	0.000713	0.000415	0.000133 (J)	
8/17/2022							0.000132 (J)
1/17/2023	<0.000203				0.00128		
1/18/2023		0.000528	0.00293	0.000709		0.00017 (J)	<0.000203

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 3/14/2023 10:07 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S..	GN-GSA-MW-15 ...
3/23/2016			<3	<3			
3/24/2016	<3	<3			<3		
5/10/2016	0.904			0.0311 (U)	-0.0573 (U)		
5/11/2016		0.197 (U)	0.0833 (U)				
7/5/2016	0.971					0.385 (U)	
7/6/2016		-0.0714 (U)	0.0827 (U)	0.359 (U)	0.607		0.563
8/23/2016						0.411 (U)	0.352 (U)
9/6/2016	1.09	0.59 (U)		1.03 (U)	0.47 (U)		
9/7/2016			2.13			0.88	1.08
11/8/2016	1.13				0.177 (U)	0.791	0.908
11/9/2016		0.621 (U)	0.419 (U)	1.22			
1/3/2017						0.412 (U)	0.661
2/20/2017							0.155 (U)
2/21/2017		1.01	1.19	0.0581 (U)		0.746	
2/22/2017					0.783		
3/1/2017	0.736						
5/31/2017	0.961	0.191 (U)	0.215 (U)	0.186 (U)	0.153 (U)	0.115 (U)	-0.105 (U)
7/5/2017	1.1	0.166 (U)	0.289 (U)	0.245 (U)	0.444	0.152 (U)	0.372
2/5/2018	0.596			0.321 (U)	-0.0362 (U)		
2/6/2018		0.275 (U)	-0.183 (U)			0.308 (U)	
2/7/2018							0.0874 (U)
6/12/2018	0.89	0.218 (U)	0.569	0.321 (U)	-0.0382 (U)	0.672	0.446
10/23/2018	1.14			0.723	1.04	0.248 (U)	0.829
10/24/2018		1.4	0.898				
5/21/2019	1.38	5.12 (U)	0.0995 (U)	0.376 (U)	0.503 (U)		
5/22/2019						0.24 (U)	0.588
9/3/2019		0.793	3.47				
9/4/2019	2.39			0.534	3.92	2.02	1.06
2/12/2020	1.17	0.13 (U)	0.0433 (U)	0.836	0.799	0.79	0.297 (U)
9/8/2020		0.65 (U)					
9/9/2020	1.02		0.798	1.88	0.27 (U)	0.453 (U)	0.258 (U)
4/13/2021	0.909 (U)	0.531 (U)	0.589 (U)	0.592 (U)	0.667 (U)	0.788 (U)	0.452 (U)
10/4/2021	1.43				0.231 (U)	0.573 (U)	
10/5/2021		0.269 (U)	0.524 (U)	1.42			
10/6/2021							1.33
4/12/2022							0.336 (U)
4/13/2022	1.31	0.551 (U)	0.453 (U)	0.257 (U)	0.357 (U)	0.127 (U)	
8/16/2022					0.98	0.753 (U)	0.703 (U)
8/17/2022		0.934 (U)	0.33 (U)				
8/18/2022	0.975			0.607 (U)			
1/17/2023	1.4					0.551 (U)	0.493 (U)
1/18/2023		0.632 (U)	0.167 (U)	0.305 (U)	0.376 (U)		

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 3/14/2023 10:07 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	<3	<3	<3	<3	<3		<3
3/24/2016						<3	
5/10/2016	0.24 (U)	0.94					
5/11/2016			0.0157 (U)	0.222 (U)	0.329 (U)	0.202 (U)	0.903 (U)
7/5/2016	0.225 (U)						
7/6/2016		0.878	0.648	0.375 (U)	-0.129 (U)	0.291 (U)	0.19 (U)
9/6/2016	0.0553 (U)		0.633	0.607 (U)	0.858	-0.0526 (U)	
9/7/2016		1.45					0.458 (U)
11/8/2016	0.614 (U)	1.48	0.67	1.36	0.49 (U)	0.364 (U)	1.25
2/20/2017		0.755	0.073 (U)	0.524	0.506	0.174 (U)	
2/21/2017	1.6						0.657
5/30/2017			0.646	-0.1 (U)		0.368 (U)	0.373 (U)
5/31/2017	0.0999 (U)	0.91			0.272 (U)		
7/5/2017	0.241 (U)	0.154 (U)	0.16 (U)	0.376 (U)	0.216 (U)	0.224 (U)	0.415
2/5/2018	0.206 (U)						
2/6/2018		0.111 (U)	0.0645 (U)	-0.14 (U)	0.168 (U)	-0.011 (U)	0.328 (U)
6/11/2018			0.577	0.436	0.199 (U)		
6/12/2018	0.592	0.289 (U)				0.324 (U)	0.141 (U)
10/22/2018	0.351 (U)		1.16	1.07	1.03	0.748	0.21 (U)
10/23/2018		0.879					
5/20/2019	0.435		-0.251 (U)	0.498	0.465		
5/21/2019						0.21 (U)	0.289 (U)
5/22/2019		0.643 (U)					
9/3/2019						0.983	0.994
9/4/2019	0.347 (U)	2.36	1.05	0.608	1.28		
2/11/2020			0.585	0.743	0.513 (U)		
2/12/2020	0.419 (U)	0.444 (U)				-0.0587 (U)	0.377 (U)
9/8/2020			0.921	-0.109 (U)			1.07
9/9/2020	0.611 (U)	1.02			0.382 (U)	0.287 (U)	
4/13/2021	0.258 (U)	0.652 (U)	0.434 (U)	0.611 (U)	0.492 (U)	0.391 (U)	0.592 (U)
10/4/2021	1.1 (U)	1.22 (U)	0.11 (U)	1.7	0.144 (U)	0.794 (U)	
10/5/2021							0.2 (U)
4/12/2022	0.535 (U)	0.319 (U)	0.739 (U)	0.157 (U)	0.0248 (U)	0.367 (U)	0.191 (U)
8/16/2022	0.346 (U)	0.877 (U)	0.734 (U)	1.06 (U)	0.537 (U)	0.78 (U)	
8/17/2022							1.25
1/17/2023	0.8 (U)				0.24 (U)		
1/18/2023		0.199 (U)	0.299 (U)	0.389 (U)		1.63	0.418 (U)

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 3/14/2023 10:07 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S..	GN-GSA-MW-15 ...
3/23/2016			0.02 (J)	0.058 (J)			
3/24/2016	0.325	0.02 (J)			0.039 (J)		
5/10/2016	0.33			0.095 (J)	0.085 (J)		
5/11/2016		0.062 (J)	0.063 (J)				
7/5/2016	0.325					0.072 (J)	
7/6/2016		0.051 (J)	0.053 (J)	0.069 (J)	0.075 (J)		0.062 (J)
8/23/2016						0.066 (J)	0.045 (J)
9/6/2016	0.315	0.037 (J)		0.055 (J)	0.058 (J)		
9/7/2016			0.041 (J)			0.062 (J)	0.042 (J)
11/8/2016	0.227 (J)				0.3 (U)	<0.125	<0.125
11/9/2016		0.3 (U)	<0.125	<0.125			
1/3/2017						<0.125	<0.125
2/20/2017							0.1
2/21/2017		0.1	0.1	0.05 (J)		0.1	
2/22/2017	0.34				0.04 (J)		
5/31/2017	0.3	0.1	0.1	0.06 (J)	0.04 (J)	0.06 (J)	0.1
7/5/2017	0.3	<0.125	<0.125	0.05 (J)	0.04 (J)	0.04 (J)	<0.125
9/5/2017						0.06 (J)	<0.125
9/7/2017	0.37	<0.125	0.04 (J)	0.06 (J)	0.05 (J)		
2/5/2018	0.37			0.08 (J)	0.04 (J)		
2/6/2018		<0.125	<0.125			0.06 (J)	
2/7/2018							<0.125
6/12/2018	0.32	<0.125	<0.125	0.06 (J)	0.04 (J)	0.05 (J)	<0.125
10/23/2018	0.39			0.06 (J)	0.05 (J)	0.07 (J)	<0.125
10/24/2018		<0.125	<0.125				
5/21/2019	0.264	<0.125	<0.125	0.0649 (J)	0.0595 (J)		
5/22/2019						0.0601 (J)	<0.125
9/3/2019		<0.125	<0.125				
9/4/2019	0.33			0.0547 (J)	0.0555 (J)	0.0703 (J)	<0.125
2/12/2020	0.301	<0.125	<0.125	0.0586 (J)	<0.125	<0.125	<0.125
9/8/2020		0.0617 (J)					
9/9/2020	0.313		<0.125	0.068 (J)	0.0655 (J)	0.0847 (J)	<0.125
4/13/2021	0.29	<0.125	<0.125	<0.125	0.0633 (J)	<0.125	<0.125
10/4/2021	0.376				0.0748 (J)	0.0838 (J)	
10/5/2021		<0.125	<0.125	<0.125			
10/6/2021							<0.125
4/12/2022							<0.125
4/13/2022	0.307	<0.125	<0.125	<0.125	<0.125	<0.125	
8/16/2022					0.0614 (J)	<0.125	<0.125
8/17/2022		<0.125	<0.125				
8/18/2022	0.327			<0.125			
1/17/2023	0.358					<0.125	<0.125
1/18/2023		<0.125	<0.125	0.0913 (J)	<0.125		



# Time Series

Constituent: Fluoride (mg/L) Analysis Run 3/14/2023 10:07 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	0.022 (J)	0.06 (J)	0.028 (J)	<0.125	0.063 (J)		0.035 (J)
3/24/2016						0.132 (J)	
5/10/2016	0.068 (J)	0.111 (J)					
5/11/2016			0.074 (J)	0.055 (J)	0.105 (J)	0.176 (J)	0.08 (J)
7/5/2016	0.052 (J)						
7/6/2016		0.089 (J)	0.065 (J)	0.047 (J)	0.094 (J)	0.167 (J)	0.072 (J)
9/6/2016	0.038 (J)		0.052 (J)	0.036 (J)	0.08 (J)	0.153 (J)	
9/7/2016		0.073 (J)					0.057 (J)
11/8/2016	<0.125	<0.125	<0.125	<0.125	<0.3	0.043 (J)	<0.125
2/20/2017		0.05 (J)	0.1	0.1	0.09 (J)	0.15	
2/21/2017	0.1						0.1
5/30/2017			0.04 (J)	0.1		0.14	0.04 (J)
5/31/2017	0.1	0.06 (J)			0.08 (J)		
7/5/2017	<0.125	0.05 (J)	<0.125	<0.125	0.08 (J)	0.13	<0.125
9/5/2017	<0.125	0.06 (J)					
9/7/2017			<0.125	<0.125	0.09 (J)	0.13	0.04 (J)
2/5/2018	0.04 (J)						
2/6/2018		0.06 (J)	<0.125	<0.125	0.08 (J)	0.15	0.04 (J)
6/11/2018			0.04 (J)	<0.125	0.09 (J)		
6/12/2018	<0.125	0.05 (J)				0.13	0.04 (J)
10/22/2018	<0.125		0.06 (J)	<0.125	0.1	0.15	0.05 (J)
10/23/2018		0.05 (J)					
5/20/2019	<0.125		0.0842 (J)	<0.125	0.0919 (J)		
5/21/2019						0.109	0.0526 (J)
5/22/2019		0.0515 (J)					
9/3/2019						0.123	0.0554 (J)
9/4/2019	<0.125	0.0594 (J)	0.0962 (J)	<0.125	0.07 (J)		
2/11/2020			<0.125	<0.125	0.0912 (J)		
2/12/2020	<0.125	0.0566 (J)				0.108	<0.125
9/8/2020			<0.125	<0.125			0.097 (J)
9/9/2020	0.0644 (J)	0.0748 (J)			0.118	0.14	
4/13/2021	<0.125	0.069 (J)	<0.125	<0.125	0.129	0.119	0.0602 (J)
10/4/2021	0.0664 (J)	0.0637 (J)	<0.125	<0.125	0.12	0.134	
10/5/2021							<0.125
4/12/2022	<0.125	<0.125	<0.125	<0.125	0.0724 (J)	0.0621 (J)	<0.125
8/16/2022	0.0865 (J)	<0.125	<0.125	<0.125	0.112 (J)	0.0979 (J)	
8/17/2022							<0.125
1/17/2023	<0.125				0.1 (J)		
1/18/2023		0.0687 (J)	<0.125	<0.125		0.105 (J)	<0.125

# Time Series

Constituent: Lead (mg/L) Analysis Run 3/14/2023 10:07 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S..	GN-GSA-MW-15 ...
3/23/2016			<0.000203	<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		<0.0002
8/23/2016						<0.000203	<0.0002
9/6/2016	<0.000203	<0.000203		<0.000203	<0.000203		
9/7/2016			<0.000203			<0.000203	<0.0002
11/8/2016	<0.000203				<0.000203	<0.000203	<0.0002
11/9/2016		<0.000203	<0.000203	<0.000203			
1/3/2017						<0.000203	<0.0002
2/20/2017							<0.0002
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	<0.0002
7/5/2017	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.0002
2/5/2018	<0.000203			<0.000203	<0.000203		
2/6/2018		<0.000203	<0.000203			<0.000203	
2/7/2018							<0.0002
6/12/2018	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.0002
10/23/2018	<0.000203			<0.000203	<0.000203	<0.000203	<0.0002
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	<0.0002
9/3/2019		<0.000203	<0.000203				
9/4/2019	<0.000203			<0.000203	<0.000203	<0.000203	<0.0002
2/12/2020	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.0002
9/8/2020		<0.000203					
9/9/2020	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203	<0.0002
4/13/2021	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.0002
10/4/2021	<0.000203				<0.000203	<0.000203	
10/5/2021		<0.000203	<0.000203	<0.000203			
10/6/2021							<0.0002
4/12/2022							0.00023
4/13/2022	<0.000203	<0.000203	0.00011 (J)	<0.000203	<0.000203	<0.000203	
8/16/2022					<0.000203	<0.000203	0.000115 (J)
8/17/2022		<0.000203	7.8E-05 (J)				
8/18/2022	<0.000203			<0.000203			
1/17/2023	0.000345					<0.000203	0.000176 (J)
1/18/2023		8E-05 (J)	<0.000203	<0.000203	<0.000203		

# Time Series

Constituent: Lead (mg/L) Analysis Run 3/14/2023 10:07 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	<0.000203	<0.000203	<0.000203	<0.005	<0.000203		<0.000203
3/24/2016						<0.000203	
5/10/2016	<0.000203	<0.000203					
5/11/2016			<0.000203	<0.005	<0.000203	<0.000203	<0.000203
7/5/2016	<0.000203						
7/6/2016		<0.000203	<0.000203	<0.005	<0.000203	<0.000203	<0.000203
9/6/2016	<0.000203		<0.000203	<0.005	<0.000203	<0.000203	
9/7/2016		<0.000203					<0.000203
11/8/2016	<0.000203	<0.000203	<0.000203	<0.005	0.00229 (J)	<0.000203	<0.000203
2/20/2017		<0.000203	<0.000203	<0.005	<0.000203	<0.000203	
2/21/2017	<0.000203						<0.000203
5/30/2017			<0.000203	<0.005		<0.000203	<0.000203
5/31/2017	<0.000203	<0.000203			<0.000203		
7/5/2017	<0.000203	<0.000203	<0.000203	<0.005	<0.000203	<0.000203	<0.000203
2/5/2018	<0.000203						
2/6/2018		<0.000203	<0.000203	<0.005	<0.000203	<0.000203	<0.000203
6/11/2018			<0.000203	<0.005	<0.000203		
6/12/2018	<0.000203	<0.000203				<0.000203	<0.000203
10/22/2018	<0.000203		<0.000203	<0.005	<0.000203	<0.000203	<0.000203
10/23/2018		<0.000203					
5/20/2019	<0.000203		<0.000203	<0.005	<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	<0.005	<0.000203		
2/11/2020			<0.000203	<0.005	<0.000203		
2/12/2020	<0.000203	<0.000203				<0.000203	<0.000203
9/8/2020			<0.000203	<0.005			<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
10/4/2021	<0.000203	<0.000203	<0.000203	0.00031	<0.000203	<0.000203	
10/5/2021							<0.000203
4/12/2022	<0.000203	<0.000203	<0.000203	0.0004	<0.000203	<0.000203	0.00011 (J)
8/16/2022	<0.000203	<0.000203	<0.000203	0.000318	<0.000203	<0.000203	
8/17/2022							<0.000203
1/17/2023	<0.000203				<0.000203		
1/18/2023		0.000121 (J)	<0.000203	0.000353		<0.000203	<0.000203

# Time Series

Constituent: Lithium (mg/L) Analysis Run 3/14/2023 10:07 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S..	GN-GSA-MW-15 ...
3/23/2016			<0.02	<0.02			
3/24/2016	<0.02	<0.02			<0.02		
5/10/2016	<0.02			<0.02	<0.02		
5/11/2016		<0.02	<0.02				
7/5/2016	<0.02					<0.02	
7/6/2016		<0.02	<0.02	<0.02	<0.02		<0.02
8/23/2016						<0.02	<0.02
9/6/2016	<0.02	<0.02		<0.02	<0.02		
9/7/2016			<0.02			<0.02	<0.02
11/8/2016	<0.02				<0.02	<0.02	<0.02
11/9/2016		<0.02	<0.02	<0.02			
1/3/2017						<0.02	<0.02
2/20/2017							<0.02
2/21/2017		<0.02	<0.02	<0.02		<0.02	
2/22/2017	<0.02				<0.02		
5/31/2017	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
7/5/2017	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
2/5/2018	<0.02			<0.02	<0.02		
2/6/2018		<0.02	<0.02			<0.02	
2/7/2018							<0.02
6/12/2018	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
10/23/2018	<0.02			<0.02	<0.02	<0.02	<0.02
10/24/2018		<0.02	<0.02				
5/21/2019	<0.02	<0.02	<0.02	<0.02	<0.02		
5/22/2019						<0.02	<0.02
9/3/2019		<0.02	<0.02				
9/4/2019	<0.02			<0.02	<0.02	<0.02	<0.02
2/12/2020	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
9/8/2020		<0.02					
9/9/2020	0.0101 (J)		<0.02	<0.02	<0.02	<0.02	<0.02
4/13/2021	0.00953 (J)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
10/4/2021	0.00963 (J)				<0.02	<0.02	
10/5/2021		<0.02	<0.02	<0.02			
10/6/2021							<0.02
4/12/2022							<0.02
4/13/2022	0.00966 (J)	<0.02	<0.02	<0.02	<0.02	<0.02	
8/16/2022					<0.02	<0.02	<0.02
8/17/2022		<0.02	<0.02				
8/18/2022	0.00965 (J)			<0.02			
1/17/2023	0.00981 (J)					<0.02	<0.02
1/18/2023		<0.02	<0.02	<0.02	<0.02		

# Time Series

Constituent: Lithium (mg/L) Analysis Run 3/14/2023 10:07 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	<0.02	<0.02	<0.02	<0.02	<0.02		<0.02
3/24/2016						<0.02	
5/10/2016	<0.02	<0.02					
5/11/2016			<0.02	<0.02	<0.02	<0.02	<0.02
7/5/2016	<0.02						
7/6/2016		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
9/6/2016	<0.02		<0.02	<0.02	<0.02	<0.02	
9/7/2016		<0.02					<0.02
11/8/2016	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
2/20/2017		<0.02	<0.02	<0.02	<0.02	<0.02	
2/21/2017	<0.02						<0.02
5/30/2017			<0.02	<0.02		<0.02	<0.02
5/31/2017	<0.02	<0.02			<0.02		
7/5/2017	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
2/5/2018	<0.02						
2/6/2018		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
6/11/2018			<0.02	<0.02	<0.02		
6/12/2018	<0.02	<0.02				<0.02	<0.02
10/22/2018	<0.02		<0.02	<0.02	<0.02	<0.02	<0.02
10/23/2018		<0.02					
5/20/2019	<0.02		<0.02	<0.02	<0.02		
5/21/2019						<0.02	<0.02
5/22/2019		<0.02					
9/3/2019						<0.02	<0.02
9/4/2019	<0.02	<0.02	<0.02	<0.02	<0.02		
2/11/2020			<0.02	<0.02	<0.02		
2/12/2020	<0.02	<0.02				<0.02	<0.02
9/8/2020			<0.02	<0.02			<0.02
9/9/2020	<0.02	<0.02			<0.02	<0.02	
4/13/2021	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
10/4/2021	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
10/5/2021							<0.02
4/12/2022	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
8/16/2022	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
8/17/2022							<0.02
1/17/2023	<0.02				<0.02		
1/18/2023		<0.02	<0.02	<0.02		<0.02	<0.02

# Time Series

Constituent: Mercury (mg/L) Analysis Run 3/14/2023 10:07 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S..	GN-GSA-MW-15 ...
3/23/2016			<0.0005	<0.0005			
3/24/2016	<0.0005	<0.0005			<0.0005		
5/10/2016	<0.0005			<0.0005	<0.0005		
5/11/2016		<0.0005	<0.0005				
7/5/2016	<0.0005					<0.0005	
7/6/2016		<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
8/23/2016						<0.0005	<0.0005
9/6/2016	<0.0005	<0.0005		<0.0005	<0.0005		
9/7/2016			<0.0005			<0.0005	<0.0005
11/8/2016	<0.0005				<0.0005	<0.0005	<0.0005
11/9/2016		<0.0005	<0.0005	<0.0005			
1/3/2017						<0.0005	<0.0005
2/20/2017							<0.0005
2/21/2017		<0.0005	<0.0005	<0.0005		<0.0005	
2/22/2017	<0.0005				<0.0005		
5/31/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
7/5/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/5/2018	<0.0005			<0.0005	<0.0005		
2/6/2018		<0.0005	<0.0005			<0.0005	
2/7/2018							<0.0005
6/12/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
10/23/2018	<0.0005			<0.0005	<0.0005	<0.0005	<0.0005
10/24/2018		<0.0005	<0.0005				
5/21/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
5/22/2019						<0.0005	<0.0005
9/3/2019		<0.0005	<0.0005				
9/4/2019	<0.0005			<0.0005	<0.0005	<0.0005	<0.0005
2/12/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
9/8/2020		<0.0005					
9/9/2020	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
4/13/2021	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
10/4/2021	<0.0005				<0.0005	<0.0005	
10/5/2021		<0.0005	<0.0005	<0.0005			
10/6/2021							<0.0005
4/12/2022							<0.0005
4/13/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/16/2022					<0.0005	<0.0005	<0.0005
8/17/2022		<0.0005	<0.0005				
8/18/2022	<0.0005			<0.0005			
1/17/2023	<0.0005					<0.0005	<0.0005
1/18/2023		<0.0005	<0.0005	<0.0005	<0.0005		

# Time Series

Constituent: Mercury (mg/L) Analysis Run 3/14/2023 10:07 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
3/24/2016						<0.0005	
5/10/2016	<0.0005	<0.0005					
5/11/2016			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
7/5/2016	<0.0005						
7/6/2016		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
9/6/2016	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	
9/7/2016		<0.0005					<0.0005
11/8/2016	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/20/2017		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
2/21/2017	<0.0005						<0.0005
5/30/2017			<0.0005	<0.0005		<0.0005	<0.0005
5/31/2017	<0.0005	<0.0005			<0.0005		
7/5/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/5/2018	<0.0005						
2/6/2018		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
6/11/2018			<0.0005	<0.0005	<0.0005		
6/12/2018	<0.0005	<0.0005				<0.0005	<0.0005
10/22/2018	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
10/23/2018		<0.0005					
5/20/2019	<0.0005		<0.0005	<0.0005	<0.0005		
5/21/2019						<0.0005	<0.0005
5/22/2019		<0.0005					
9/3/2019						<0.0005	<0.0005
9/4/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
2/11/2020			<0.0005	<0.0005	<0.0005		
2/12/2020	<0.0005	<0.0005				<0.0005	<0.0005
9/8/2020			<0.0005	<0.0005			<0.0005
9/9/2020	<0.0005	<0.0005			<0.0005	<0.0005	
4/13/2021	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
10/4/2021	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
10/5/2021							<0.0005
4/12/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/16/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
8/17/2022							<0.0005
1/17/2023	<0.0005				<0.0005		
1/18/2023		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 3/14/2023 10:07 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S..	GN-GSA-MW-15 ...
3/23/2016			<0.000203	<0.01			
3/24/2016	0.0241	<0.000203			<0.01		
5/10/2016	0.0239			<0.01	<0.01		
5/11/2016		<0.000203	<0.000203				
7/5/2016	0.0176					<0.01	
7/6/2016		<0.000203	<0.000203	<0.01	<0.01		<0.000203
8/23/2016						<0.01	<0.000203
9/6/2016	0.0138	<0.000203		<0.01	<0.01		
9/7/2016			<0.000203			<0.01	<0.000203
11/8/2016	0.0102				<0.01	<0.01	<0.000203
11/9/2016		<0.000203	<0.000203	<0.01			
1/3/2017						<0.01	<0.000203
2/20/2017							<0.000203
2/21/2017		<0.000203	<0.000203	<0.01		<0.01	
2/22/2017	0.0102				<0.01		
5/31/2017	0.00805 (J)	<0.000203	<0.000203	<0.01	<0.01	<0.01	<0.000203
7/5/2017	0.009 (J)	<0.000203	<0.000203	<0.01	<0.01	<0.01	<0.000203
2/5/2018	0.00908 (J)			<0.01	<0.01		
2/6/2018		<0.000203	<0.000203			<0.01	
2/7/2018							<0.000203
6/12/2018	0.00655 (J)	<0.000203	<0.000203	<0.01	<0.01	<0.01	<0.000203
10/23/2018	0.006 (J)			<0.01	<0.01	<0.01	<0.000203
10/24/2018		<0.000203	<0.000203				
5/21/2019	0.00504 (J)	<0.000203	<0.000203	<0.01	<0.01		
5/22/2019						<0.01	<0.000203
9/3/2019		<0.000203	<0.000203				
9/4/2019	0.00504 (J)			<0.01	<0.01	<0.01	<0.000203
2/12/2020	0.00448 (J)	<0.000203	<0.000203	<0.01	<0.01	<0.01	<0.000203
9/8/2020		<0.000203					
9/9/2020	0.00405 (J)		<0.000203	<0.01	<0.01	<0.01	<0.000203
4/13/2021	0.00353	<0.000203	<0.000203	0.000298	0.000175 (J)	0.000334	<0.000203
10/4/2021	0.00372				0.00016 (J)	0.00046	
10/5/2021		<0.000203	<0.000203	0.00033			
10/6/2021							<0.000203
4/12/2022							<0.000203
4/13/2022	0.0033	<0.000203	<0.000203	0.00031	0.00021	0.00025	
8/16/2022					0.000189 (J)	0.000334	<0.000203
8/17/2022		<0.000203	<0.000203				
8/18/2022	0.00295			0.000207			
1/17/2023	0.00329					0.000322	<0.000203
1/18/2023		<0.000203	<0.000203	0.000234	0.000285		



# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 3/14/2023 10:08 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	<0.01	<0.000203	<0.01	<0.000203	<0.01		<0.01
3/24/2016						0.00317 (J)	
5/10/2016	<0.01	<0.000203					
5/11/2016			<0.01	<0.000203	<0.01	0.00424 (J)	<0.01
7/5/2016	<0.01						
7/6/2016		<0.000203	<0.01	<0.000203	<0.01	0.00489 (J)	<0.01
9/6/2016	<0.01		<0.01	<0.000203	<0.01	0.00466 (J)	
9/7/2016		<0.000203					<0.01
11/8/2016	<0.01	<0.000203	<0.01	<0.000203	<0.01	0.00422 (J)	<0.01
2/20/2017		<0.000203	<0.01	<0.000203	<0.01	0.00422 (J)	
2/21/2017	<0.01						<0.01
5/30/2017			<0.01	<0.000203		0.00344 (J)	<0.01
5/31/2017	<0.01	<0.000203			<0.01		
7/5/2017	<0.01	<0.000203	<0.01	<0.000203	<0.01	0.00369 (J)	<0.01
2/5/2018	<0.01						
2/6/2018		<0.000203	<0.01	<0.000203	<0.01	0.00331 (J)	<0.01
6/11/2018			<0.01	<0.000203	<0.01		
6/12/2018	<0.01	<0.000203				0.00325 (J)	<0.01
10/22/2018	<0.01		<0.01	<0.000203	<0.01	0.00359 (J)	<0.01
10/23/2018		<0.000203					
5/20/2019	<0.01		<0.01	<0.000203	<0.01		
5/21/2019						0.00379 (J)	<0.01
5/22/2019		<0.000203					
9/3/2019						0.00437 (J)	<0.01
9/4/2019	<0.01	<0.000203	<0.01	<0.000203	<0.01		
2/11/2020			<0.01	<0.000203	<0.01		
2/12/2020	<0.01	<0.000203				0.00322 (J)	<0.01
9/8/2020			<0.01	<0.000203			<0.01
9/9/2020	<0.01	<0.000203			<0.01	0.00418 (J)	
4/13/2021	0.000307	7.49E-05 (J)	9.4E-05 (J)	<0.000203	0.000276	0.00318	0.000207
10/4/2021	0.00034	<0.000203	9E-05 (J)	<0.000203	0.00025	0.00345	
10/5/2021							0.00032
4/12/2022	0.00026	<0.000203	0.00012 (J)	<0.000203	0.00027	0.00347	0.00021
8/16/2022	0.00037	<0.000203	0.000131 (J)	<0.000203	0.000232	0.00356	
8/17/2022							0.000338
1/17/2023	0.000294				0.000328		
1/18/2023		0.000144 (J)	0.000113 (J)	<0.000203		0.00321	0.000232

# Time Series

Constituent: pH (pH) Analysis Run 3/14/2023 10:08 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S..GN-GSA-MW-15 ...
3/23/2016			6.26	7.28		
3/24/2016	7.7	6.95			7.14	
5/10/2016	7.67			7.19	7.17	
5/11/2016		7.07	6.04			
7/5/2016	7.68					7.44
7/6/2016		7.13	6	7.29	7.19	6.1
8/23/2016						7.47 5.87
9/6/2016	7.8	7.1		7.29	7.18	
9/7/2016			6.1			7.51 5.92
11/8/2016	7.74				7.18	7.37 5.91
11/9/2016		7.1	5.85	7.29		
1/3/2017						7.37 5.93
2/20/2017						5.91
2/21/2017		7	5.99	7.1		7.41
2/22/2017	7.61				7.02	
5/31/2017	7.7	7.01	6.03	7.16	7.07	7.47 6
7/5/2017	7.66	7.07	6.13	7.08	7	7.5 6
9/5/2017						7.39 5.9
9/7/2017	7.7	7.01	6.17	7.17	7.02	
2/5/2018	7.78			7.22	7.12	
2/6/2018		7.09	6.17			7.47
2/7/2018						5.86
6/12/2018	7.62	7.07	6.13	7.19	7.09	7.53 6.05
10/23/2018	7.65			7.22	7.09	7.4 5.84
10/24/2018		7.14	6.09			
5/21/2019	7.5	6.98	5.97	7.1	7.05	
5/22/2019						7.43 5.81
9/3/2019		6.67	5.12			
9/4/2019	7.4			7.24	6.71	7.45 5.67
2/12/2020	7.66	7.03	6	7.14	7.09	7.47 5.72
9/8/2020		5.9				
9/9/2020	7.6		5.67	6.77	6.95	7.32 5.71
4/13/2021	7.7	7.22	5.46	6.61	7.17	7.33 5.84
10/4/2021	7.33				6.95	7.21
10/5/2021		7.12	6.01	7.25		
10/6/2021						5.64
4/12/2022						5.25
4/13/2022	7.5	6.85	5.29	6.74	6.84	7.4 5.37
8/16/2022					6.92	6.96 5.37
8/17/2022		6.97	5.6			
8/18/2022	7.46			6.82		
1/17/2023	7.69					7.43 5.74
1/18/2023		7.08	5.77	7.11	7.13	

# Time Series

Constituent: pH (pH) Analysis Run 3/14/2023 10:08 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	7.18	6.83	6.41	4.91	6.5		6.88
3/24/2016						7.45	
5/10/2016	7.2	6.84					
5/11/2016			6.5	4.79	6.54	7.48	6.84
7/5/2016	7.15						
7/6/2016		6.94	6.47	4.66	6.58	7.46	7.01
9/6/2016	7.17		6.51	4.8	6.64	7.44	
9/7/2016		6.84					7.03
11/8/2016	7.12	6.84	6.48	4.81	6.61	7.37	7.15
2/20/2017		7.04	6.39	4.51	6.63	7.36	
2/21/2017	7.12						6.67
5/30/2017			6.38	4.61		7.38	6.91
5/31/2017	7.17	6.91			6.54		
7/5/2017	7.18	7.02	6.44	4.64	6.67	7.44	6.51
9/5/2017	7.17	6.78					
9/7/2017			6.44	4.67	6.69	7.41	6.96
2/5/2018	7.12						
2/6/2018		6.96	6.36	4.61	6.71	7.41	6.8
6/11/2018			6.43	4.68	6.7		
6/12/2018	7.19	6.76				7.4	6.77
10/22/2018	7.06		6.48	4.68	6.71	7.33	6.86
10/23/2018		6.59					
5/20/2019	7.13		6.59	4.59	6.81		
5/21/2019						7.31	6.79
5/22/2019		6.38					
9/3/2019						7.46	6.53
9/4/2019	7.16	6.71	6.81	4.59	6.78		
2/11/2020			6.42	4.59	6.72		
2/12/2020	7.11	6.98				7.51	6.57
9/8/2020			6.2	6			5.85
9/9/2020	7.22	6.48			6.86	7.54	
4/13/2021	6.94	6.71	6.36	4.63	6.84	7.7	6.9
10/4/2021	7.13	6.43	6.66	4.86	6.96	7.82	
10/5/2021							6.96
4/12/2022	6.48	5.57	6.32	4.38	6.73	7.22	6.22
8/16/2022	7.04	6.25	6.28	4.58	6.7	6.98	
8/17/2022							6.84
1/17/2023	7.14				6.78		
1/18/2023		6.99	6.38	4.75		7.54	6.71

# Time Series

Constituent: Selenium (mg/L) Analysis Run 3/14/2023 10:08 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S..	GN-GSA-MW-15 ...
3/23/2016			<0.001015	<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
10/4/2021	<0.001015				<0.001015	<0.001015	
10/5/2021		<0.001015	<0.001015	<0.001015			
10/6/2021							<0.001015
4/12/2022							<0.001015
4/13/2022	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
8/16/2022					<0.001015	<0.001015	<0.001015
8/17/2022		<0.001015	<0.001015				
8/18/2022	<0.001015			<0.001015			
1/17/2023	<0.001015					<0.001015	<0.001015
1/18/2023		<0.001015	<0.001015	<0.001015	<0.001015		

# Time Series

Constituent: Selenium (mg/L) Analysis Run 3/14/2023 10:08 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	<0.001015	<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
10/4/2021	<0.001015	0.0006 (J)	<0.001015	<0.001015	<0.001015	<0.001015	
10/5/2021							<0.001015
4/12/2022	<0.001015	0.00051 (J)	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
8/16/2022	<0.001015	0.000556 (J)	<0.001015	<0.001015	<0.001015	<0.001015	
8/17/2022							<0.001015
1/17/2023	<0.001015				<0.001015		
1/18/2023		<0.001015	<0.001015	<0.001015		<0.001015	<0.001015

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 3/14/2023 10:08 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S..	GN-GSA-MW-15 ...
3/23/2016			7.59	16.2			
3/24/2016	6.06	1.62			7.64		
5/10/2016	5.47			12.1	6.79		
5/11/2016		2.15	6.6				
7/5/2016	4.8					11.7	
7/6/2016		1.89	11.8	7.7	7.59		5.38
8/23/2016						13.7	4.23
9/6/2016	3.91	1.53		6.97	9.56		
9/7/2016			14.9			12.4	3.84
11/8/2016	2.95				8.87	12.9	3.23
11/9/2016		1.69	4.5	5.77			
1/3/2017						14.1	3
2/20/2017							3.1 (J)
2/21/2017		2.2 (J)	5.7	12		6.1	
2/22/2017	3.3 (J)				10		
5/31/2017	3.4 (J)	1.7 (J)	5.6	8.7	8	8	2.1 (J)
7/5/2017	3.4 (J)	<1	4.6 (J)	7.7	8.2	3.8 (J)	2 (J)
9/5/2017						6.8	2.2 (J)
9/7/2017	3.6 (J)	1.7 (J)	6.2	7	8.3		
6/12/2018	4.2 (J)	1.8 (J)	3.5 (J)	8.7	8.3	5	2.3 (J)
10/23/2018	3 (J)			4.8 (J)	6.7	5.4	<1
10/24/2018		<1	2.4 (J)				
5/21/2019	4.58	1.72	3.55	7.81	8.29		
5/22/2019						5.57	2.82
9/3/2019		1.73	2.83				
9/4/2019	4.82			6.25	8.18	6.37	2.3
2/12/2020	5.11	1.65	3.89	13.1	9.06	3.09	1.77
9/8/2020		1.62					
9/9/2020	3.97		3.01	5.85	7.89	5.26	2
4/13/2021	4.43	1.68	2.77	8.86	8.38	3.45	2.51
10/4/2021	4.08				7.18	3.78	
10/5/2021		1.8	2.86	8.02			
10/6/2021							2.15
4/12/2022							1.76 (J)
4/13/2022	4.24	1.68 (J)	2.73	8.25	7.27	2.44	
8/16/2022					8.54	4.71	3.73
8/17/2022		2.24	2.29				
8/18/2022	4.84			6.66			
1/17/2023	4.25					2.83	1.99 (J)
1/18/2023		1.96 (J)	2.95	15.6	8.51		

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 3/14/2023 10:08 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	6.48	32.6	14.1	1.89	13.8		5.54
3/24/2016						2.42	
5/10/2016	11.1	27.6					
5/11/2016			13.5	1.79	11.9	2.16	5.66
7/5/2016	6.7						
7/6/2016		23.6	17.1	1.3	11.1	1.7	5.62
9/6/2016	6.85		11.2	1.14	10.6	1.31	
9/7/2016		22.2					5.31
11/8/2016	7.3	20.4	10.9	0.622 (J)	12.1	1.4	4.42
2/20/2017		14	8.8	5 (o)	9.7	2 (J)	
2/21/2017	7.7						5.3
5/30/2017			12	5 (o)		1.6 (J)	5.2
5/31/2017	5.3	15			11		
7/5/2017	6.4	11	19	<1	8.3	1.9 (J)	4.4 (J)
9/5/2017	6.1	17					
9/7/2017			33	<1	8.6	2.1 (J)	5.9
6/11/2018			47	<1	7.5		
6/12/2018	7.2	14				2.7 (J)	5.7
10/22/2018	8.3		40	<1	8.8	2.2 (J)	5.1
10/23/2018		12					
5/20/2019	7.52		75.6	<1	6.85		
5/21/2019						3.39	6.07
5/22/2019		11					
9/3/2019						4.15	6.53
9/4/2019	9.25	10.9	56.3	<1	10.1		
2/11/2020			79.7	<1	8.5		
2/12/2020	10.7	9.13				4.31	5.67
9/8/2020			113	<1			5.42
9/9/2020	7.77	8.76			7.13	3.67	
4/13/2021	7.44	7.88	108	<1	6.37	4.49	4.65
10/4/2021	6.86	8.09	115	<1	6.02	5.05	
10/5/2021							4.08
4/12/2022	8.36	7.36	145	<1	5.75	3.13	4.09
8/16/2022	8.31	7.79	142	<1	6.63	5.27	
8/17/2022							4.58
1/17/2023	6.01				6.1		
1/18/2023		7.56	121	<1		3.71	3.93

# Time Series

Constituent: TDS (mg/L) Analysis Run 3/14/2023 10:08 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S..GN-GSA-MW-15 ...
3/23/2016			56.7	237		
3/24/2016	203	239			244	
5/10/2016	204			226	247	
5/11/2016		257	54.7			
7/5/2016	188					194
7/6/2016		256	76	191	247	55.3
8/23/2016						208
9/6/2016	188	245		200	264	
9/7/2016			96			198
11/8/2016	197				173	205
11/9/2016		258	57.3	190		
1/3/2017						221
2/20/2017						
2/21/2017		243	76.7	264		195
2/22/2017	165				260	
5/31/2017	244	252	75.3	242	277	220
7/5/2017	201	257	80	231	296	185
9/5/2017						202
9/7/2017	196	259	105	225	294	
6/12/2018	221	266	72	230	282	205
10/23/2018	195 (D)			201 (D)	279 (D)	204 (D)
10/24/2018		265 (D)	68 (D)			
5/21/2019	244	274	66	231	286	
5/22/2019						202
9/3/2019		260	51.3			
9/4/2019	200			217	271	195
2/12/2020	219	259	66	256	282	189
9/8/2020		275				
9/9/2020	221		59.3	230	271	198
4/13/2021	237	273	66	260	286	191
10/4/2021	221				277	183
10/5/2021		293	92.7	255		
10/6/2021						<25
4/12/2022						27.3
4/13/2022	217	273	84	250	266	187
8/16/2022					264	162
8/17/2022		265	76			27.299999
8/18/2022	214			252		
1/17/2023	199					189
1/18/2023		266	68	262	280	28



# Time Series

Constituent: TDS (mg/L) Analysis Run 3/14/2023 10:08 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	272	334	185	27.3	202		149
3/24/2016						179	
5/10/2016	283	349					
5/11/2016			176	<25	207	195	179
7/5/2016	294						
7/6/2016		316	203	<25	202	192	183
9/6/2016	295		180	<25	204	193	
9/7/2016		309					173
11/8/2016	310	302	187	<25	212	198	207
2/20/2017		297	205	30	251	195	
2/21/2017	280						153
5/30/2017			187	<25		184	158
5/31/2017	287	287			234		
7/5/2017	287	283	238	26	229	194	138
9/5/2017	280	284					
9/7/2017			269	<25	225	193	171
6/11/2018			312	<25	210		
6/12/2018	284	248				186	167
10/22/2018	278 (D)		292 (D)	<25 (D)	209 (D)	184 (D)	177 (D)
10/23/2018		215 (D)					
5/20/2019	286		398	27.3	218		
5/21/2019						185	176
5/22/2019		184					
9/3/2019						184	189
9/4/2019	297	225	388	<25	233		
2/11/2020			308	<25	241		
2/12/2020	276	250				182	153
9/8/2020			360	<25			187
9/9/2020	272	220			234	192	
4/13/2021	283	196	350	26	220	186	163
10/4/2021	287	168	379	32	232	203	
10/5/2021							170
4/12/2022	271	156	400	<25	214	176	155
8/16/2022	280	164	376	<25	212	162	
8/17/2022							179
1/17/2023	270				218		
1/18/2023		246	362	<25		172	152

# Time Series

Constituent: Thallium (mg/L) Analysis Run 3/14/2023 10:08 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-14S..	GN-GSA-MW-15 ...
3/23/2016			<0.000203	<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
10/4/2021	<0.000203				<0.000203	<0.000203	
10/5/2021		<0.000203	<0.000203	<0.000203			
10/6/2021							<0.000203
4/12/2022							<0.000203
4/13/2022	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
8/16/2022					<0.000203	<0.000203	<0.000203
8/17/2022		<0.000203	<0.000203				
8/18/2022	<0.000203			<0.000203			
1/17/2023	<0.000203					<0.000203	<0.000203
1/18/2023		<0.000203	<0.000203	<0.000203	<0.000203		

# Time Series

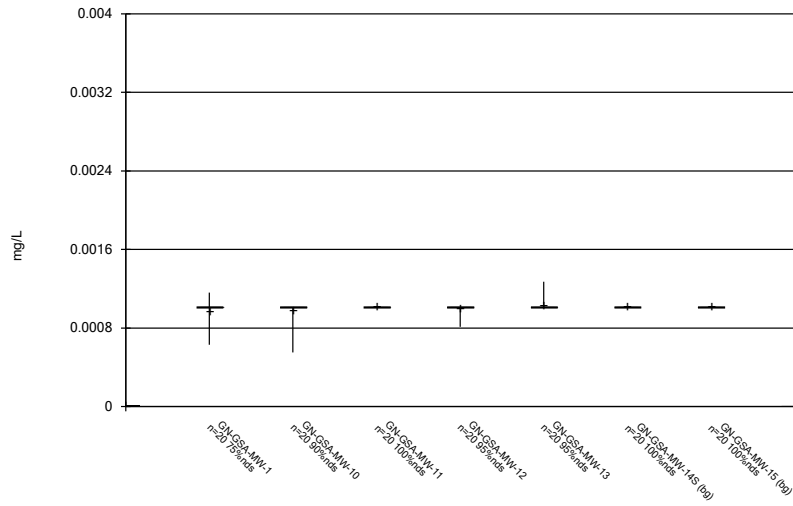
Constituent: Thallium (mg/L) Analysis Run 3/14/2023 10:08 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-2 (bg)	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
3/23/2016	<0.000203	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
10/4/2021	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
10/5/2021							<0.000203
4/12/2022	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
8/16/2022	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
8/17/2022							<0.000203
1/17/2023	<0.000203				<0.000203		
1/18/2023		<0.000203	<0.000203	<0.000203		<0.000203	<0.000203

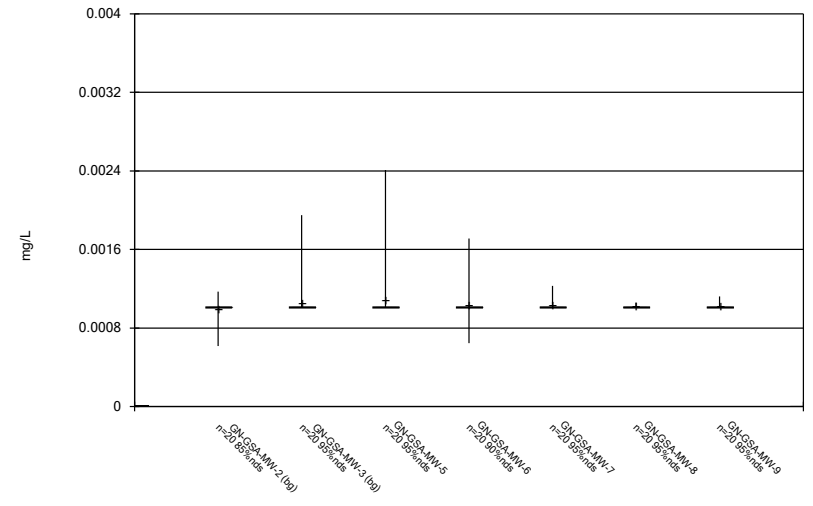
FIGURE B.

### Box & Whiskers Plot



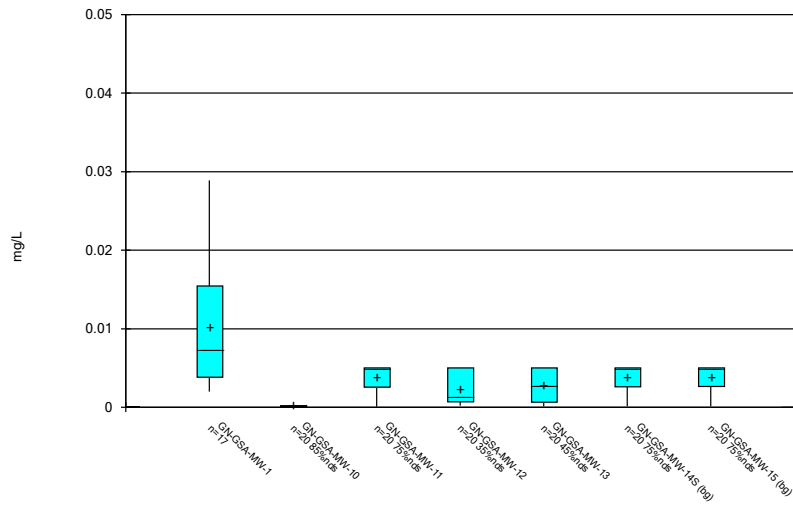
Constituent: Antimony Analysis Run 3/14/2023 10:15 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



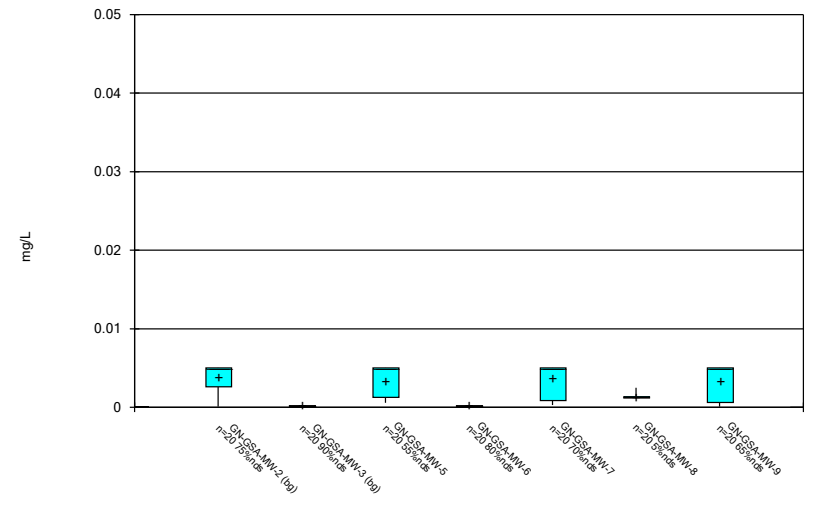
Constituent: Antimony Analysis Run 3/14/2023 10:15 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



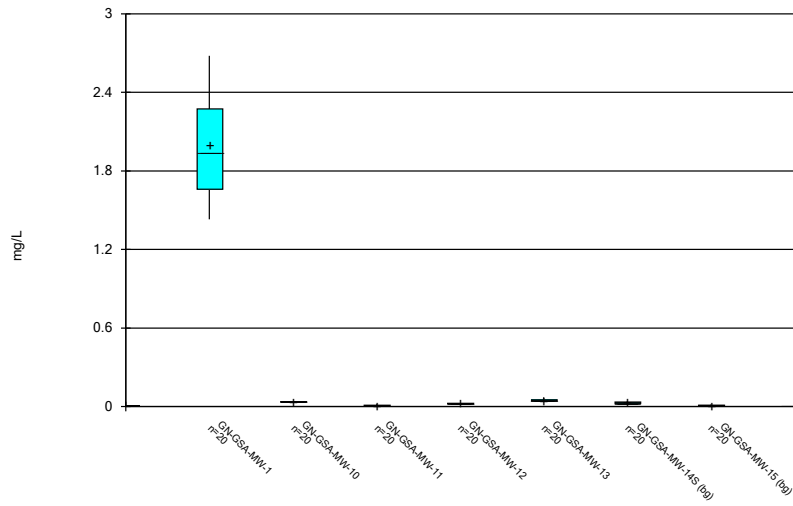
Constituent: Arsenic Analysis Run 3/14/2023 10:15 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



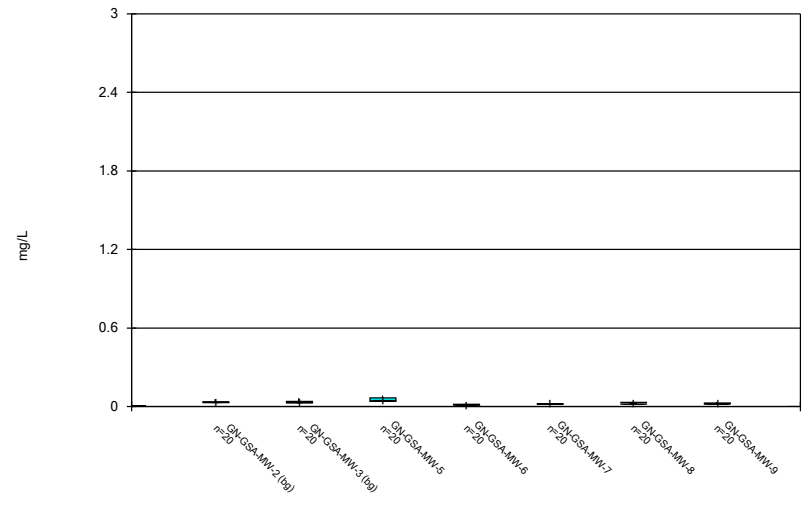
Constituent: Arsenic Analysis Run 3/14/2023 10:15 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



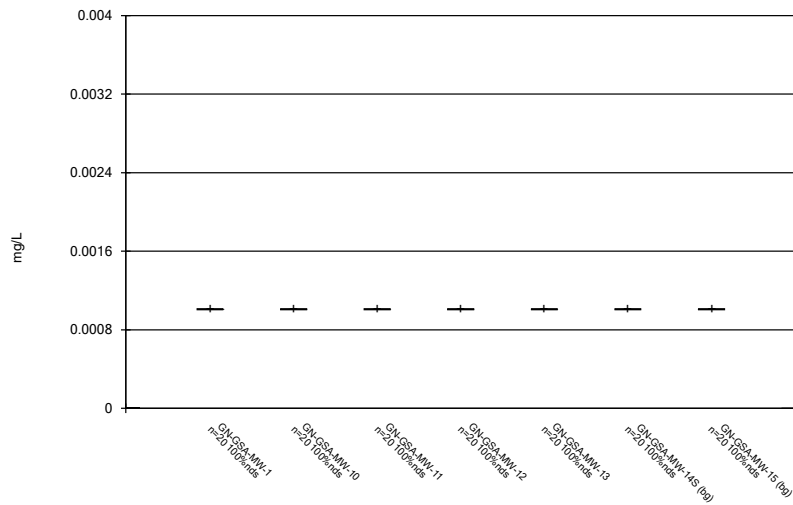
Constituent: Barium Analysis Run 3/14/2023 10:15 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



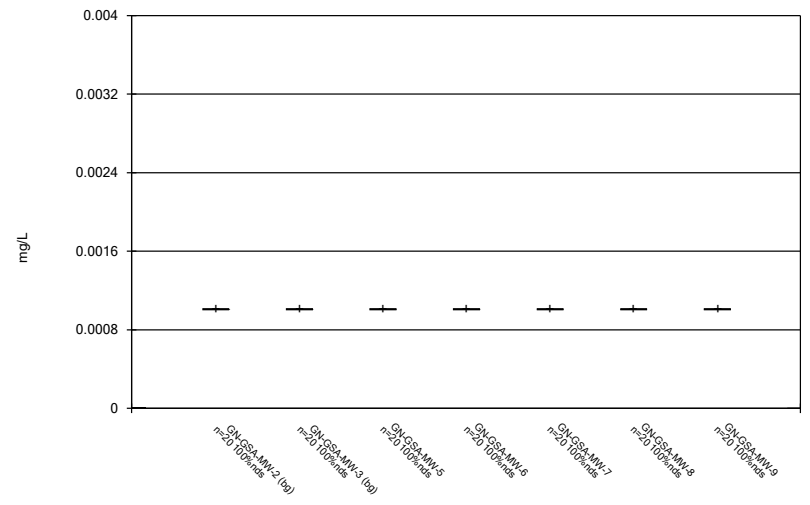
Constituent: Barium Analysis Run 3/14/2023 10:15 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



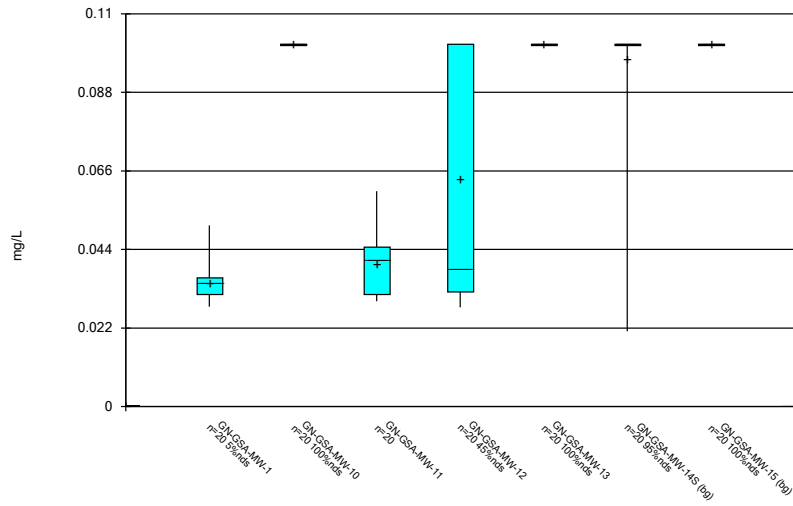
Constituent: Beryllium Analysis Run 3/14/2023 10:15 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



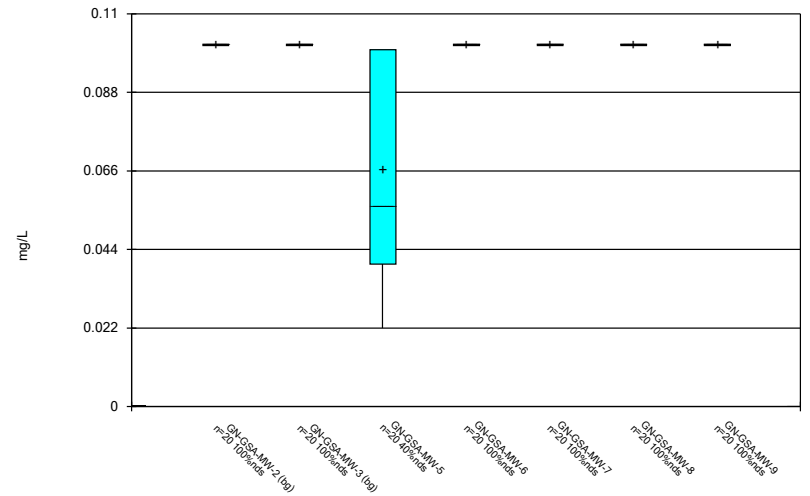
Constituent: Beryllium Analysis Run 3/14/2023 10:15 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



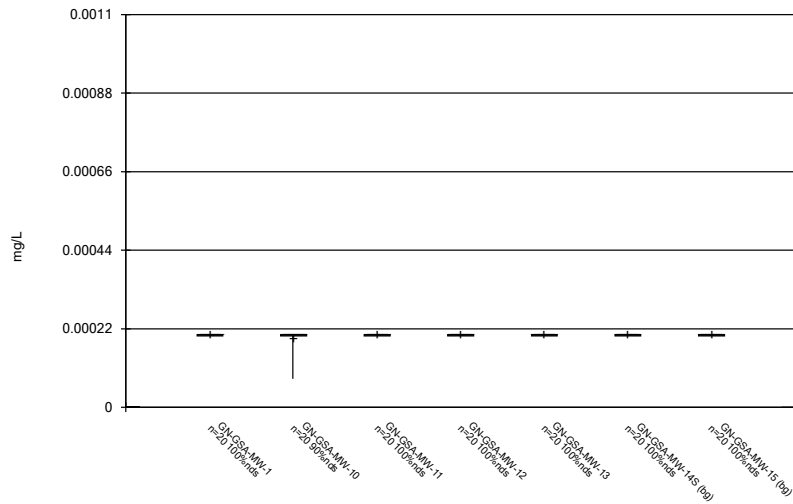
Constituent: Boron Analysis Run 3/14/2023 10:15 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



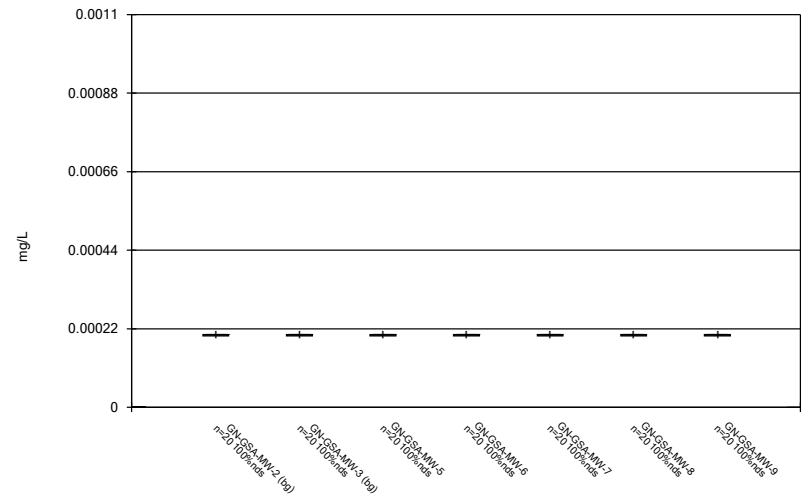
Constituent: Boron Analysis Run 3/14/2023 10:15 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



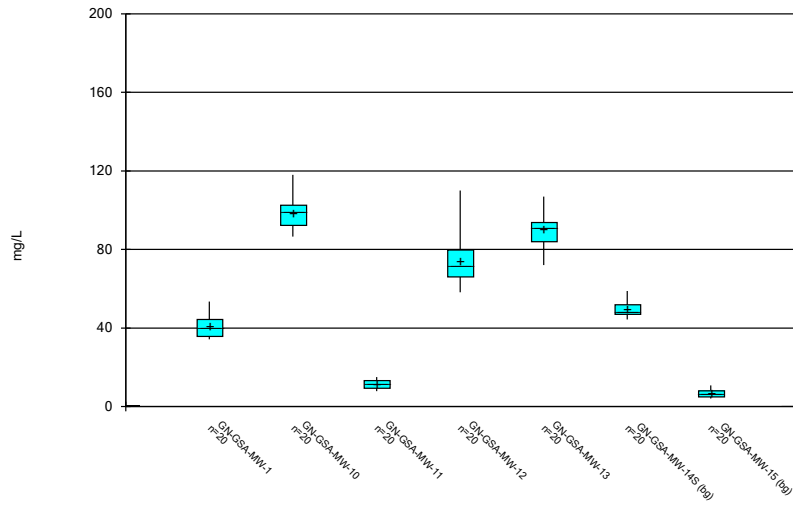
Constituent: Cadmium Analysis Run 3/14/2023 10:15 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



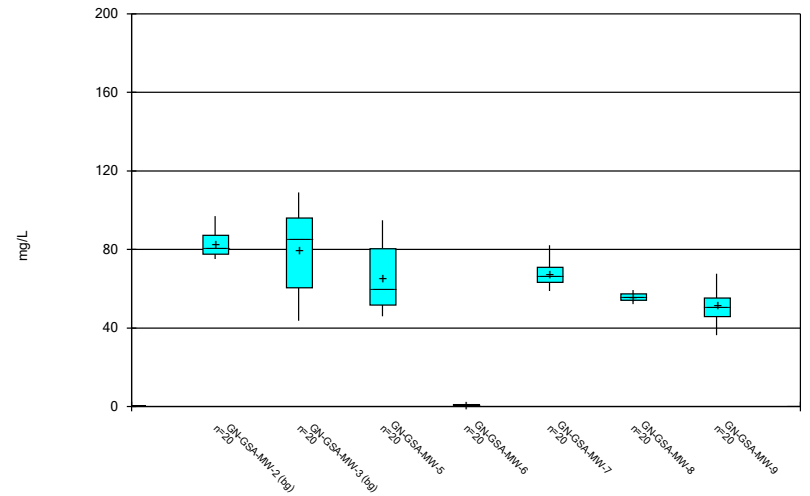
Constituent: Cadmium Analysis Run 3/14/2023 10:15 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



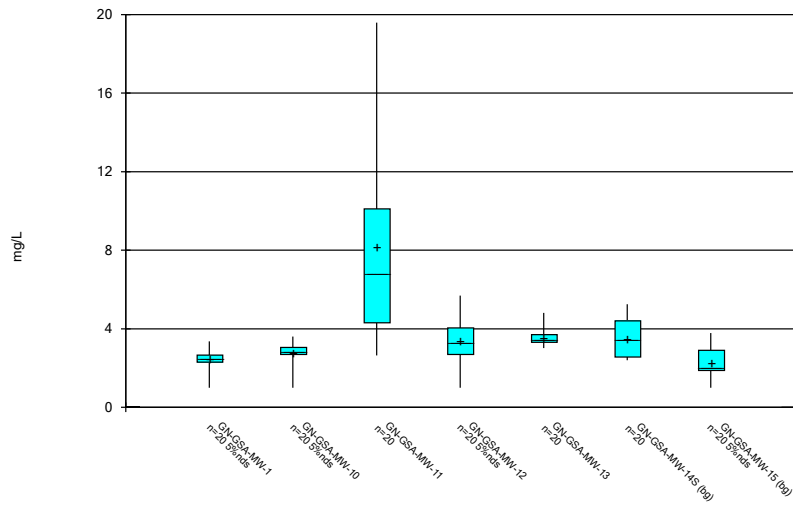
Constituent: Calcium Analysis Run 3/14/2023 10:15 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



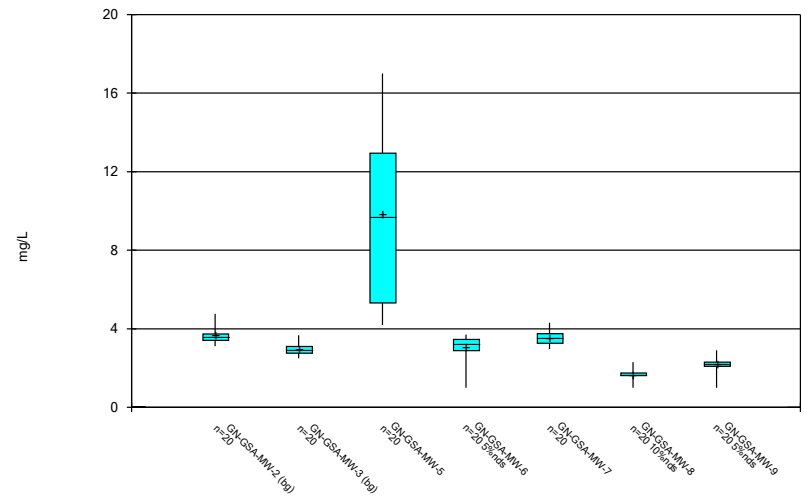
Constituent: Calcium Analysis Run 3/14/2023 10:16 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



Constituent: Chloride Analysis Run 3/14/2023 10:16 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

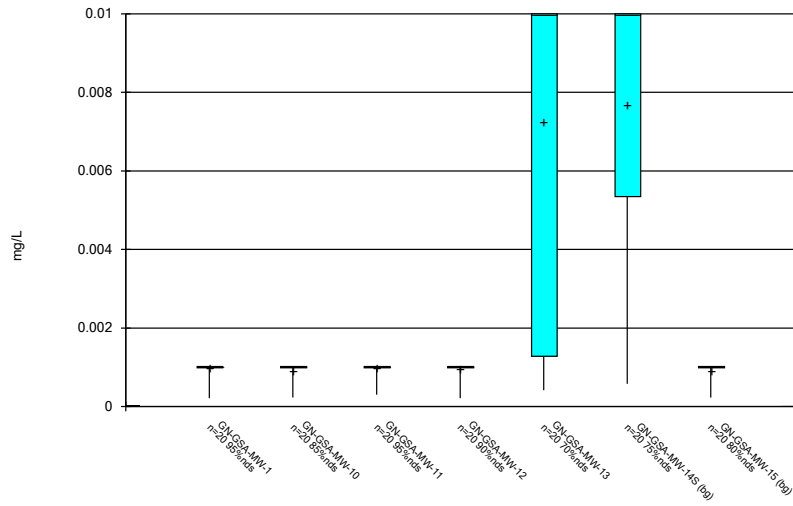
### Box & Whiskers Plot



Constituent: Chloride Analysis Run 3/14/2023 10:16 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

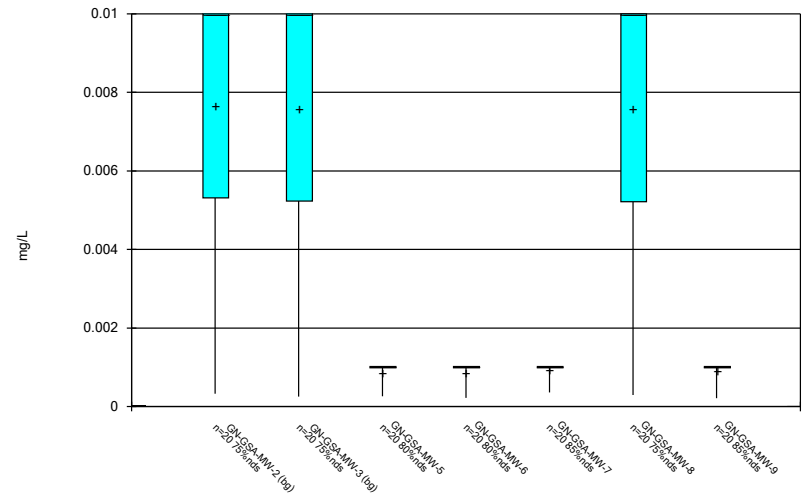


Box & Whiskers Plot



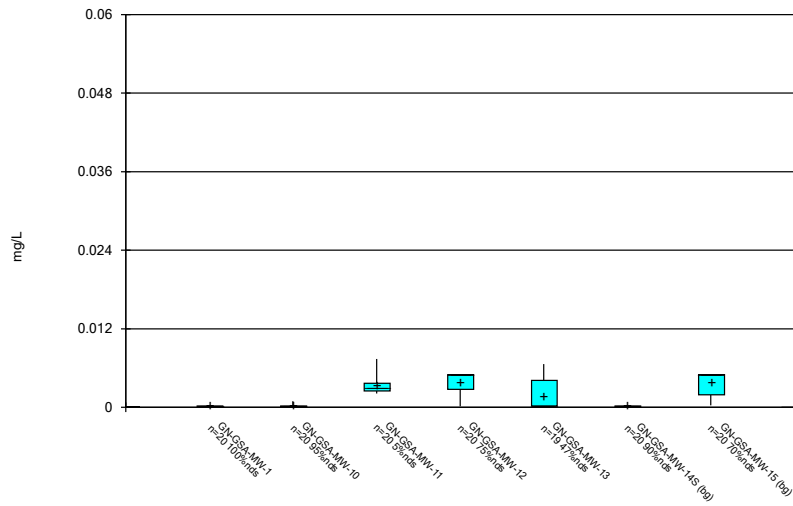
Constituent: Chromium Analysis Run 3/14/2023 10:16 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

Box & Whiskers Plot



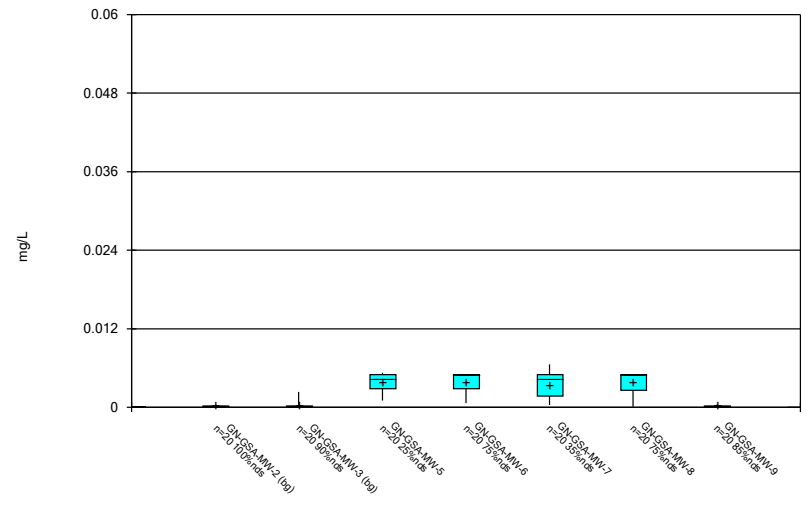
Constituent: Chromium Analysis Run 3/14/2023 10:16 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

Box & Whiskers Plot



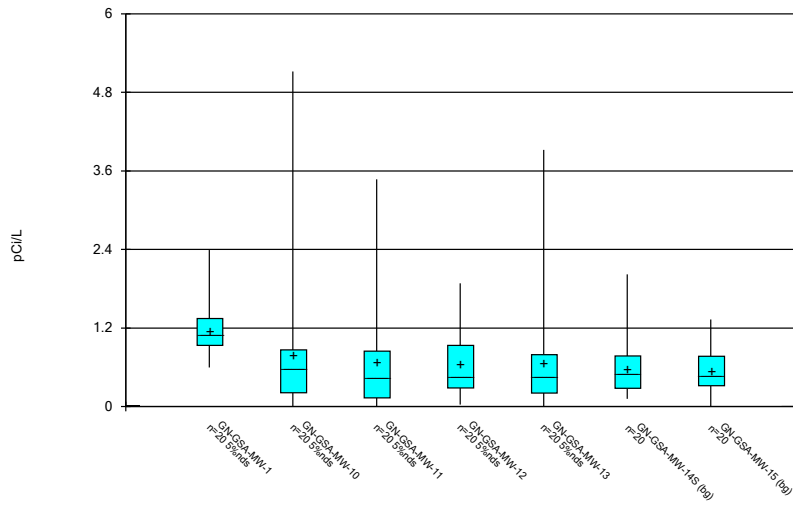
Constituent: Cobalt Analysis Run 3/14/2023 10:16 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

Box & Whiskers Plot



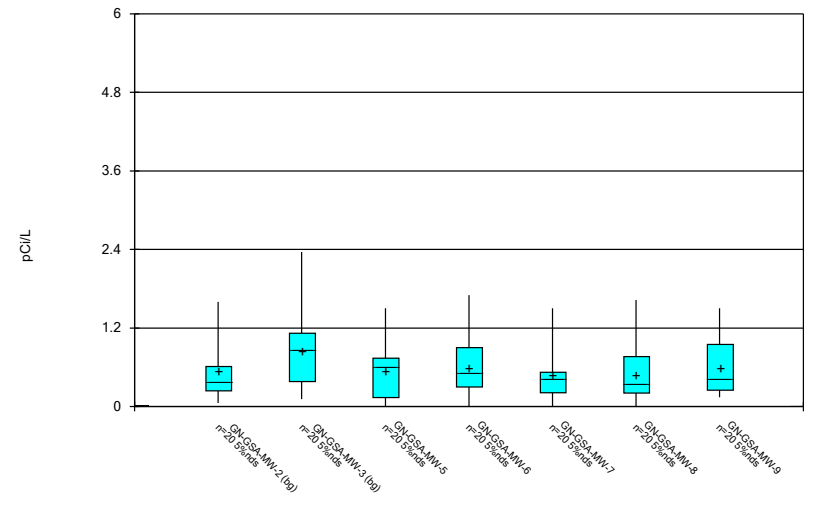
Constituent: Cobalt Analysis Run 3/14/2023 10:16 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



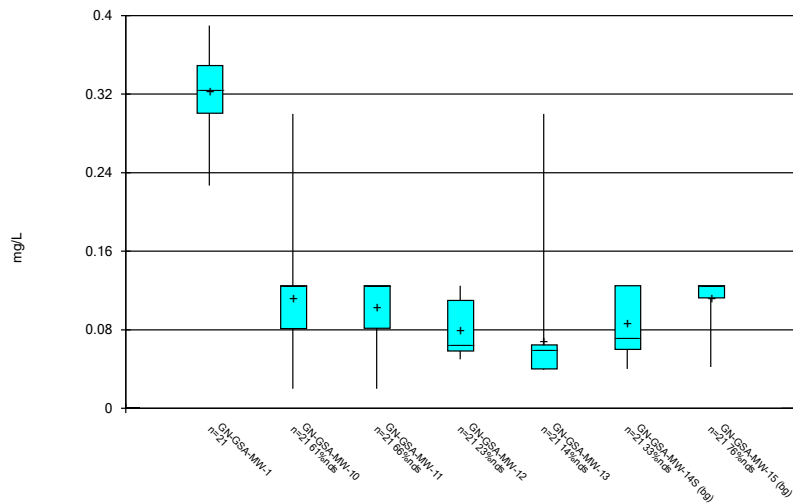
Constituent: Combined Radium 226 + 228 Analysis Run 3/14/2023 10:16 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



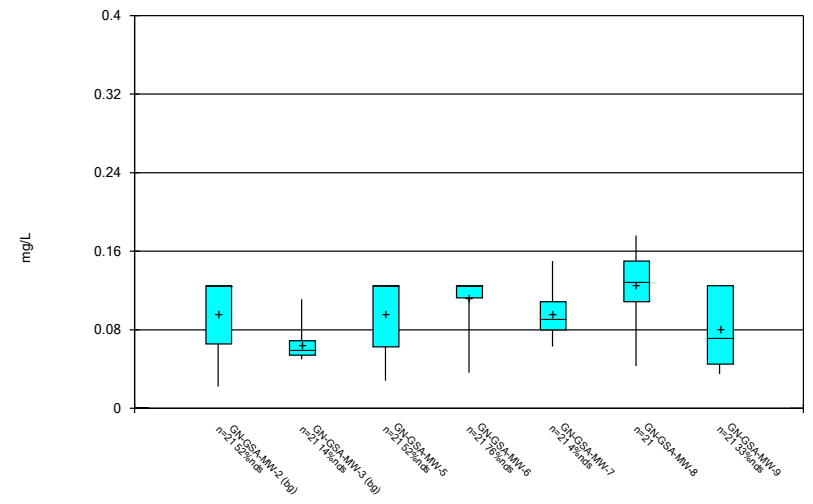
Constituent: Combined Radium 226 + 228 Analysis Run 3/14/2023 10:16 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



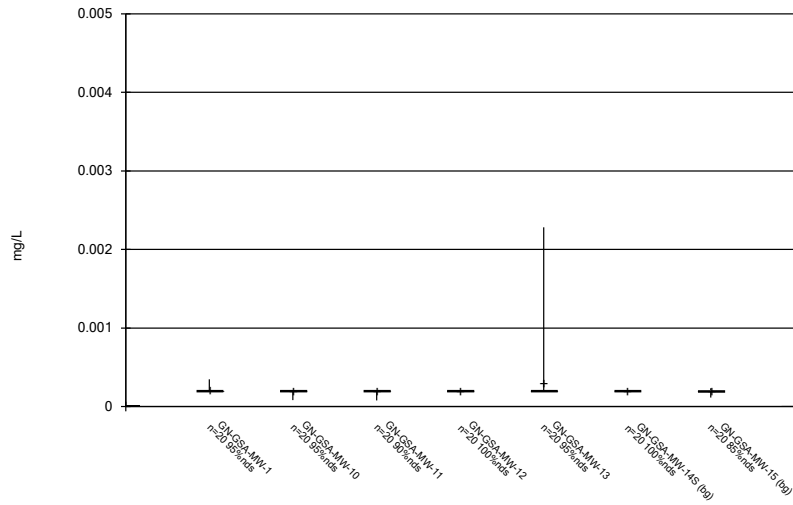
Constituent: Fluoride Analysis Run 3/14/2023 10:16 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



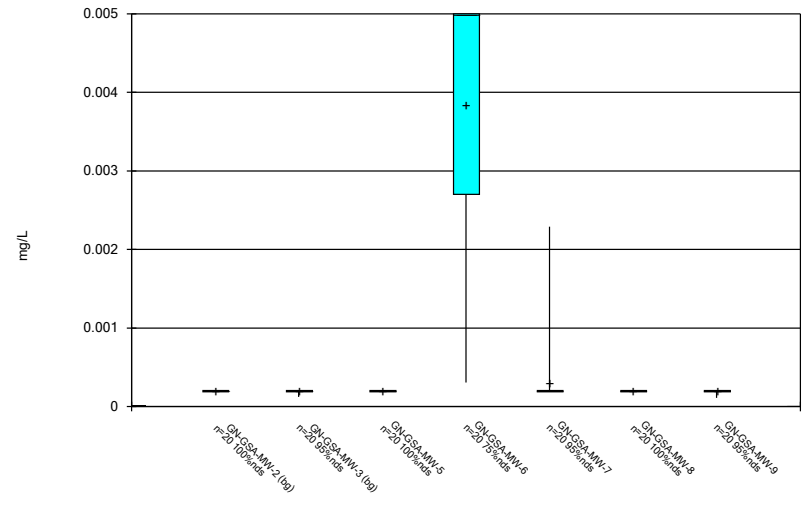
Constituent: Fluoride Analysis Run 3/14/2023 10:16 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



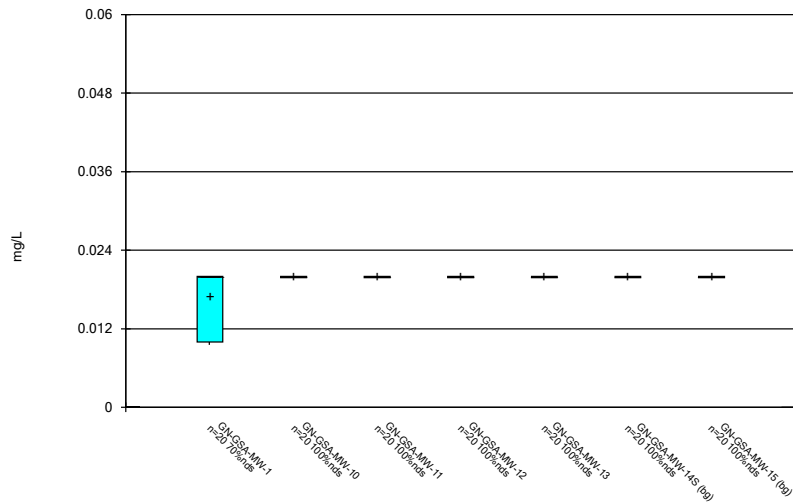
Constituent: Lead Analysis Run 3/14/2023 10:16 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



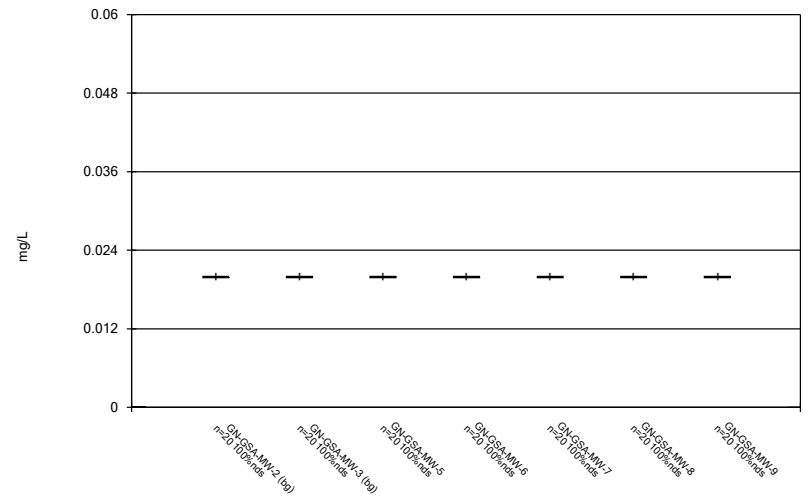
Constituent: Lead Analysis Run 3/14/2023 10:16 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



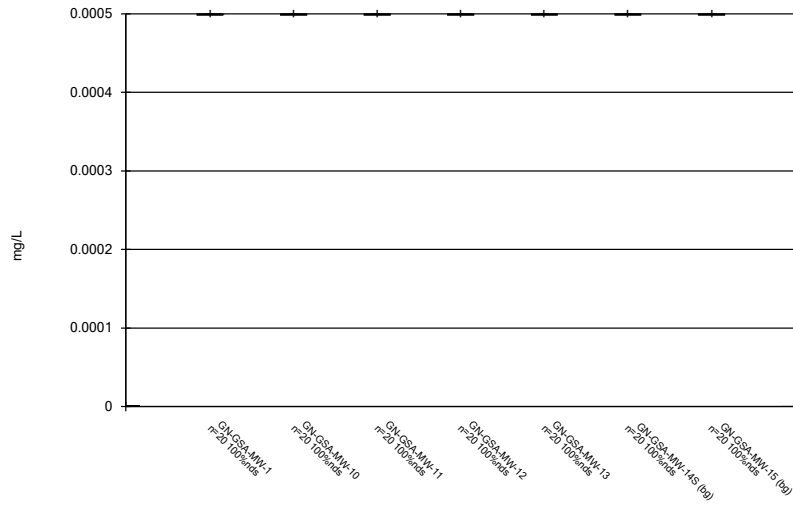
Constituent: Lithium Analysis Run 3/14/2023 10:16 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



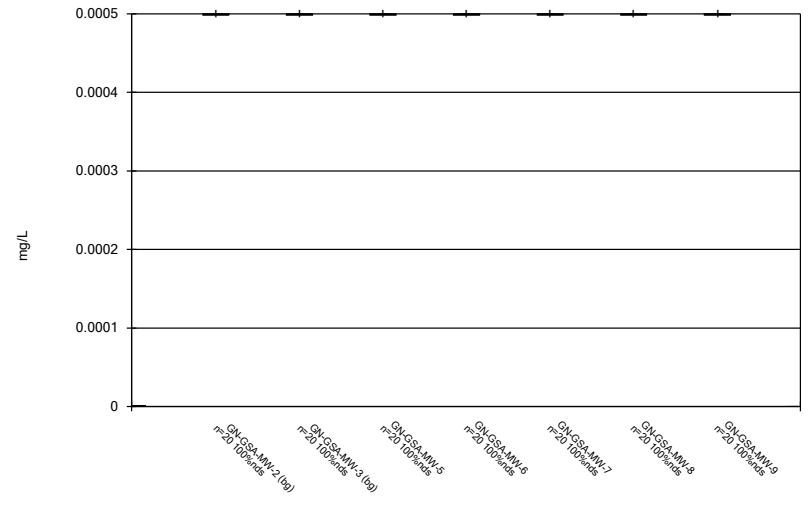
Constituent: Lithium Analysis Run 3/14/2023 10:16 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



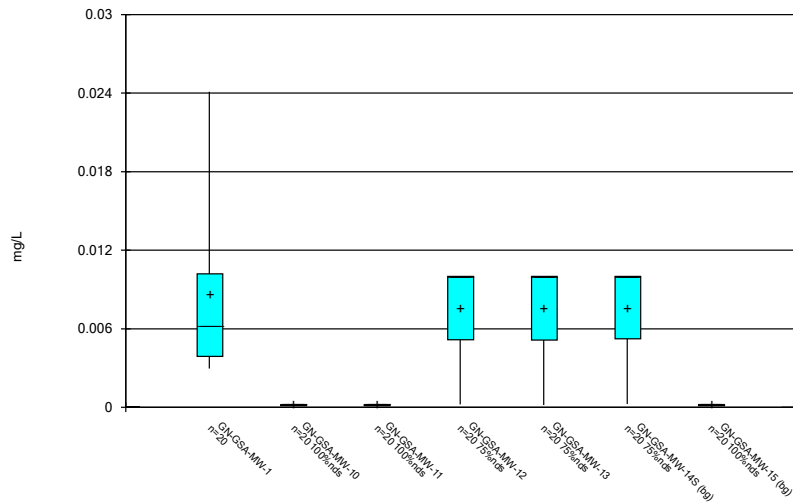
Constituent: Mercury Analysis Run 3/14/2023 10:16 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



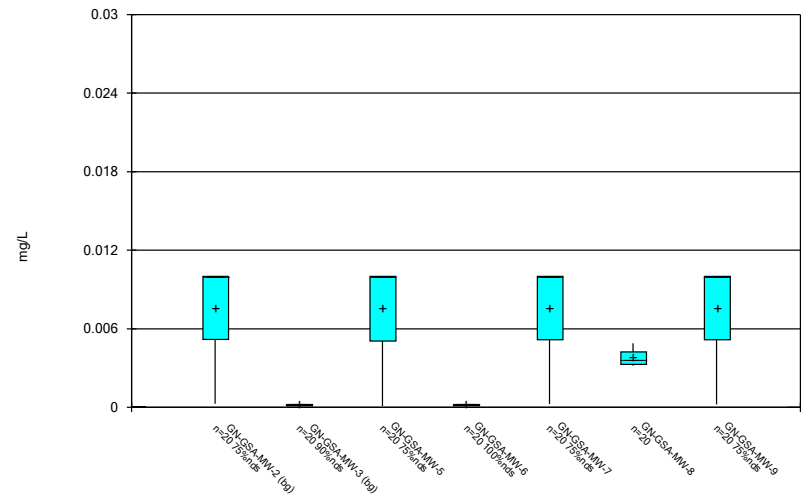
Constituent: Mercury Analysis Run 3/14/2023 10:16 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



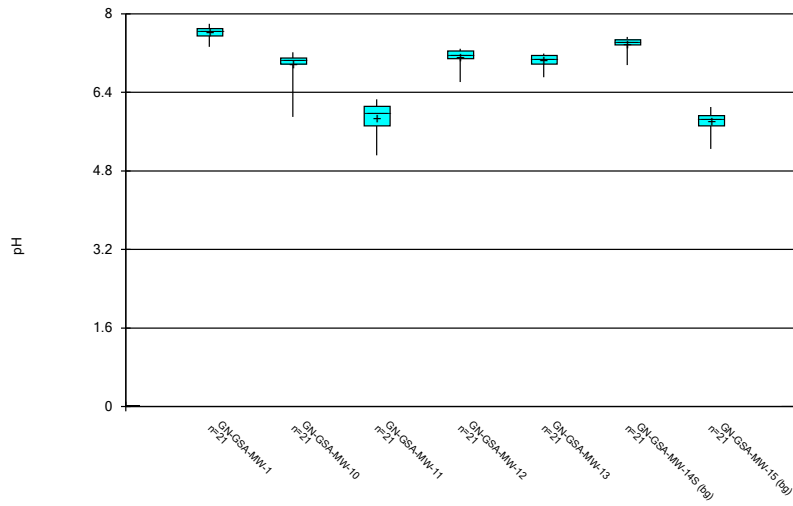
Constituent: Molybdenum Analysis Run 3/14/2023 10:16 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



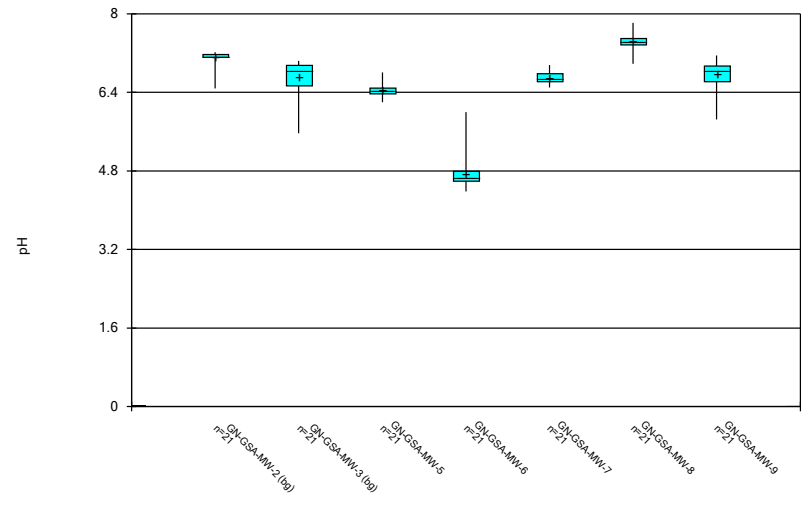
Constituent: Molybdenum Analysis Run 3/14/2023 10:16 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



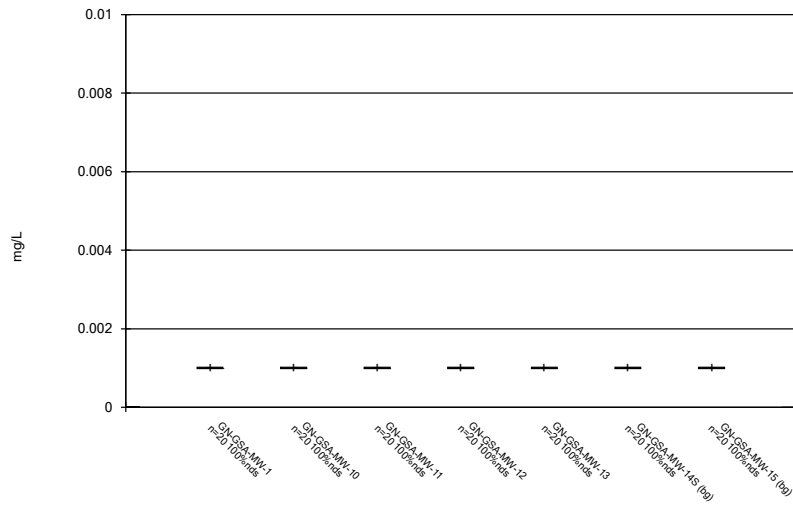
Constituent: pH Analysis Run 3/14/2023 10:16 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



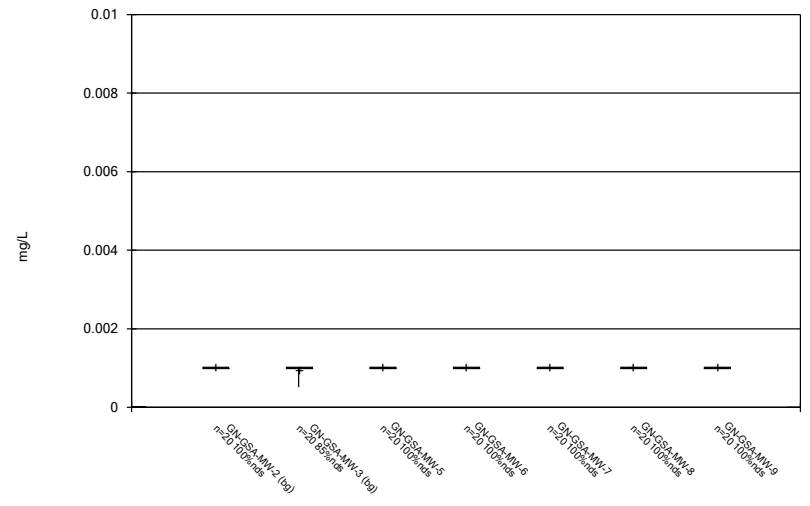
Constituent: pH Analysis Run 3/14/2023 10:16 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



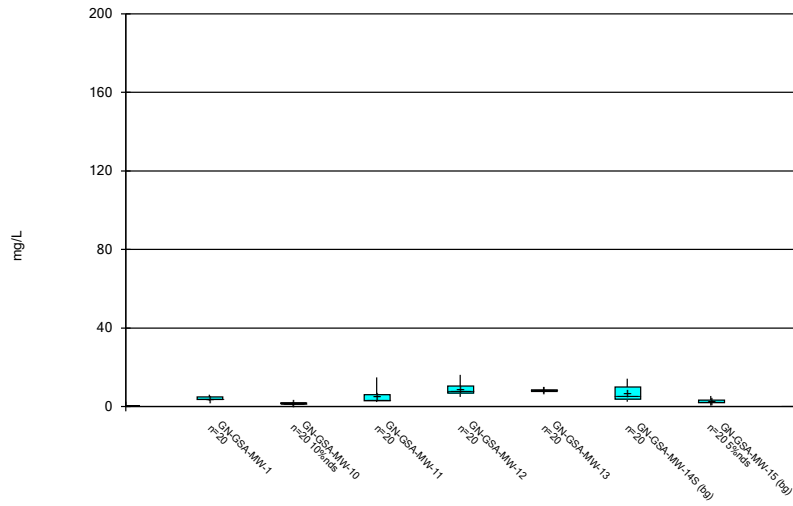
Constituent: Selenium Analysis Run 3/14/2023 10:16 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



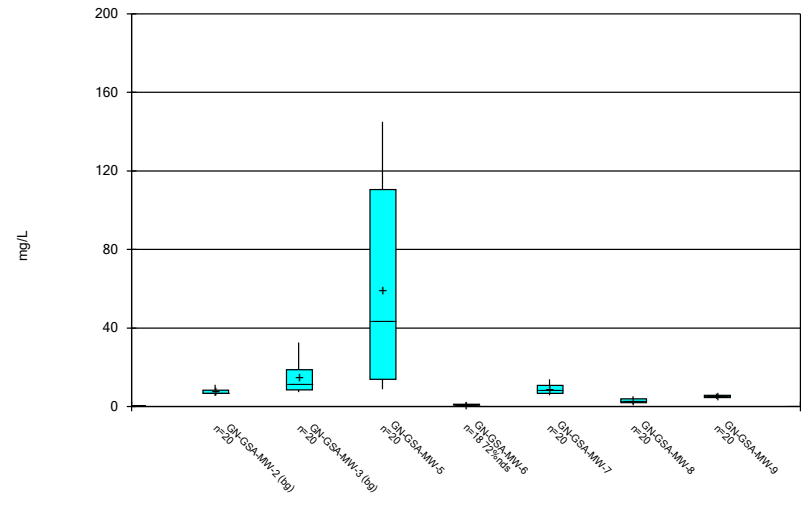
Constituent: Selenium Analysis Run 3/14/2023 10:16 AM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



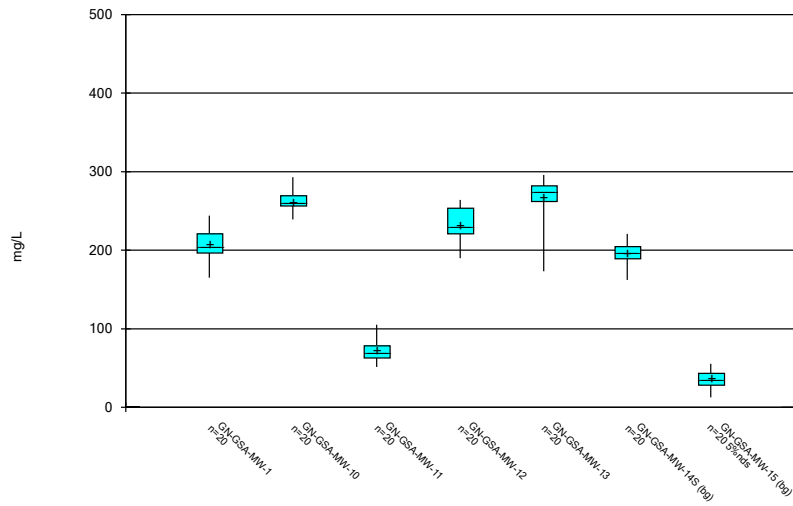
Constituent: Sulfate Analysis Run 3/14/2023 10:16 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



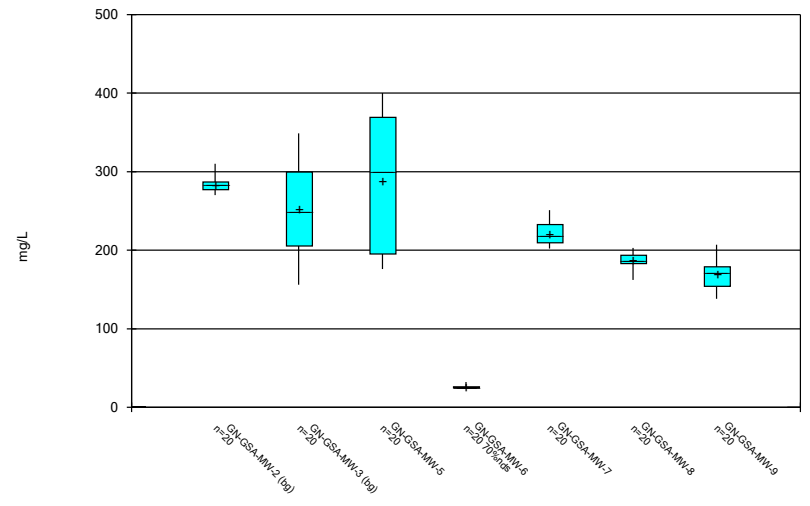
Constituent: Sulfate Analysis Run 3/14/2023 10:16 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



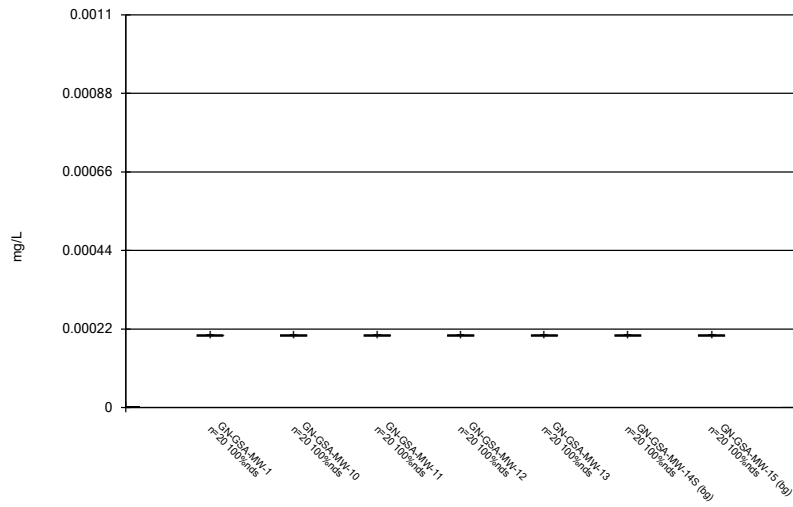
Constituent: TDS Analysis Run 3/14/2023 10:16 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



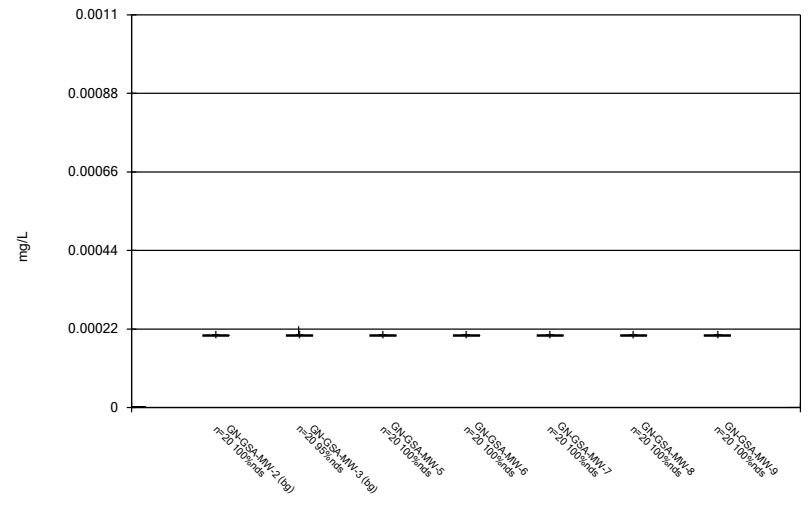
Constituent: TDS Analysis Run 3/14/2023 10:16 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



Constituent: Thallium Analysis Run 3/14/2023 10:16 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



Constituent: Thallium Analysis Run 3/14/2023 10:16 AM  
Plant Gaston Client: Southern Company Data: Gaston GSA

FIGURE C.



# Outlier Summary

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 3/6/2023, 2:19 PM

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	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 Limit - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 3/6/2023, 2:28 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-5	71.16	n/a	1/18/2023	85.6	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	1/18/2023	14.6	Yes	9	4.269	1.162	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-12	5.443	n/a	1/18/2023	5.68	Yes	16	3.16	0.9566	6.25	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-2	4.633	n/a	1/17/2023	4.76	Yes	16	3.649	0.4125	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-5	37.06	n/a	1/18/2023	121	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	1/18/2023	3.71	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	1/18/2023	362	Yes	9	203.3	30.98	0	None	No	0.0007523	Param Intra 1 of 2

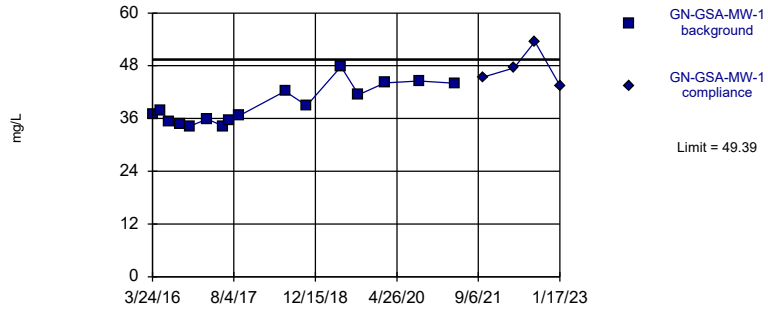
# Intrawell Prediction Limit - All Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 3/6/2023, 2:28 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	1/17/2023	43.5	No	16	39.03	4.343	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-10	108.2	n/a	1/18/2023	103	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	1/18/2023	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	1/18/2023	83.3	No	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	1/18/2023	93.7	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	1/17/2023	54.1	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	1/17/2023	4.39	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	1/17/2023	83.4	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	1/18/2023	87.9	No	16	84.59	17.13	0	None	No	0.0007523	Param Intra 1 of 2
<b>Calcium (mg/L)</b>	<b>GN-GSA-MW-5</b>	<b>71.16</b>	<b>n/a</b>	<b>1/18/2023</b>	<b>85.6</b>	<b>Yes</b>	<b>12</b>	<b>54.73</b>	<b>6.323</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0007523</b>	<b>Param Intra 1 of 2</b>
Calcium (mg/L)	GN-GSA-MW-6	1.491	n/a	1/18/2023	0.583	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	1/17/2023	66.8	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	1/18/2023	53.8	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	1/18/2023	48.8	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	1/17/2023	2.31	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	1/18/2023	3.09	No	16	7.867	2.545	6.25	None	x^2	0.0007523	Param Intra 1 of 2
<b>Chloride (mg/L)</b>	<b>GN-GSA-MW-11</b>	<b>7.709</b>	<b>n/a</b>	<b>1/18/2023</b>	<b>14.6</b>	<b>Yes</b>	<b>9</b>	<b>4.269</b>	<b>1.162</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0007523</b>	<b>Param Intra 1 of 2</b>
<b>Chloride (mg/L)</b>	<b>GN-GSA-MW-12</b>	<b>5.443</b>	<b>n/a</b>	<b>1/18/2023</b>	<b>5.68</b>	<b>Yes</b>	<b>16</b>	<b>3.16</b>	<b>0.9566</b>	<b>6.25</b>	<b>None</b>	<b>No</b>	<b>0.0007523</b>	<b>Param Intra 1 of 2</b>
Chloride (mg/L)	GN-GSA-MW-13	4.799	n/a	1/18/2023	3.8	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	1/17/2023	2.58	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	1/17/2023	2.11	No	16	2.366	0.8163	6.25	None	No	0.0007523	Param Intra 1 of 2
<b>Chloride (mg/L)</b>	<b>GN-GSA-MW-2</b>	<b>4.633</b>	<b>n/a</b>	<b>1/17/2023</b>	<b>4.76</b>	<b>Yes</b>	<b>16</b>	<b>3.649</b>	<b>0.4125</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0007523</b>	<b>Param Intra 1 of 2</b>
Chloride (mg/L)	GN-GSA-MW-3	3.779	n/a	1/18/2023	2.84	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	1/18/2023	9.67	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	1/18/2023	3.69	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	1/17/2023	3.65	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	1/18/2023	1.71	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	1/18/2023	2.01	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	1/17/2023	4.25	No	16	4.188	0.9103	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-10	2.5	n/a	1/18/2023	1.96J	No	16	n/a	n/a	12.5	n/a	n/a	0.006456	NP Intra (normality) 1 of 2
Sulfate (mg/L)	GN-GSA-MW-11	14.58	n/a	1/18/2023	2.95	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	1/18/2023	15.6	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	1/18/2023	8.51	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	1/17/2023	2.83	No	16	7.728	3.872	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-15	5.131	n/a	1/17/2023	1.99J	No	16	2.83	0.9643	6.25	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-2	11.38	n/a	1/17/2023	6.01	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	1/18/2023	7.56	No	11	11.88	2.842	0	None	No	0.0007523	Param Intra 1 of 2
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-5</b>	<b>37.06</b>	<b>n/a</b>	<b>1/18/2023</b>	<b>121</b>	<b>Yes</b>	<b>9</b>	<b>15.51</b>	<b>7.278</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0007523</b>	<b>Param Intra 1 of 2</b>
Sulfate (mg/L)	GN-GSA-MW-6	2	n/a	1/18/2023	2ND	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	1/17/2023	6.1	No	16	9.522	2.123	0	None	No	0.0007523	Param Intra 1 of 2
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-8</b>	<b>2.935</b>	<b>n/a</b>	<b>1/18/2023</b>	<b>3.71</b>	<b>Yes</b>	<b>9</b>	<b>1.843</b>	<b>0.3686</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0007523</b>	<b>Param Intra 1 of 2</b>
Sulfate (mg/L)	GN-GSA-MW-9	6.776	n/a	1/18/2023	3.93	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	1/17/2023	199	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	1/18/2023	266	No	9	251.8	7.496	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-11	105.2	n/a	1/18/2023	68	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	1/18/2023	262	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	1/18/2023	280	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	1/17/2023	189	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	1/17/2023	28	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	1/17/2023	270	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	1/18/2023	246	No	16	268.7	50.11	0	None	No	0.0007523	Param Intra 1 of 2
<b>TDS (mg/L)</b>	<b>GN-GSA-MW-5</b>	<b>295.1</b>	<b>n/a</b>	<b>1/18/2023</b>	<b>362</b>	<b>Yes</b>	<b>9</b>	<b>203.3</b>	<b>30.98</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0007523</b>	<b>Param Intra 1 of 2</b>
TDS (mg/L)	GN-GSA-MW-6	30	n/a	1/18/2023	25ND	No	16	n/a	n/a	68.75	n/a	n/a	0.006456	NP Intra (NDs) 1 of 2
TDS (mg/L)	GN-GSA-MW-7	256.7	n/a	1/17/2023	218	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	1/18/2023	172	No	16	188.9	5.691	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-9	212	n/a	1/18/2023	152	No	16	170.2	17.53	0	None	No	0.0007523	Param Intra 1 of 2

Within Limit

Prediction Limit  
Intrawell Parametric

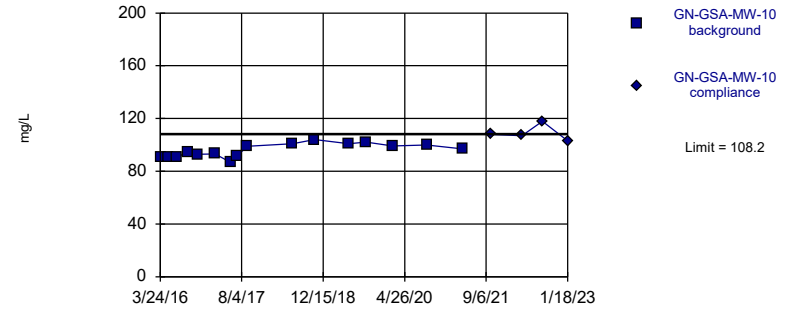


Background Data Summary: Mean=39.03, Std. Dev.=4.343, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8917, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Calcium Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit  
Intrawell Parametric

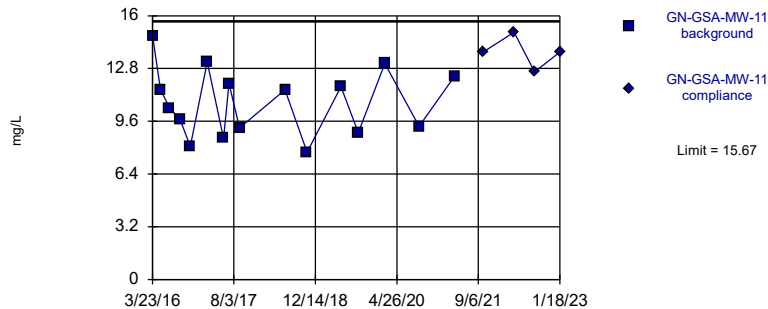


Background Data Summary: Mean=95.87, Std. Dev.=5.157, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9448, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Calcium Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit  
Intrawell Parametric

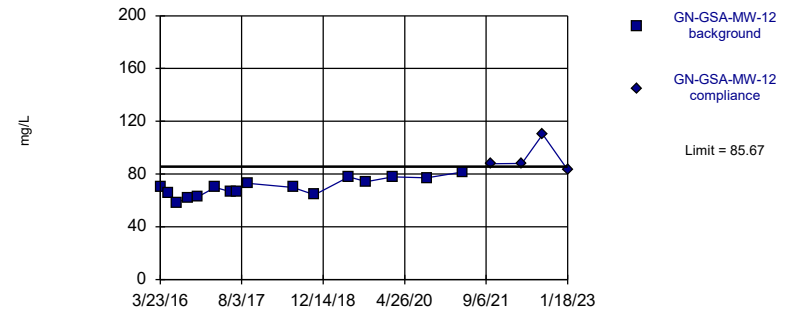


Background Data Summary: Mean=10.74, Std. Dev.=2.063, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9586, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Calcium Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

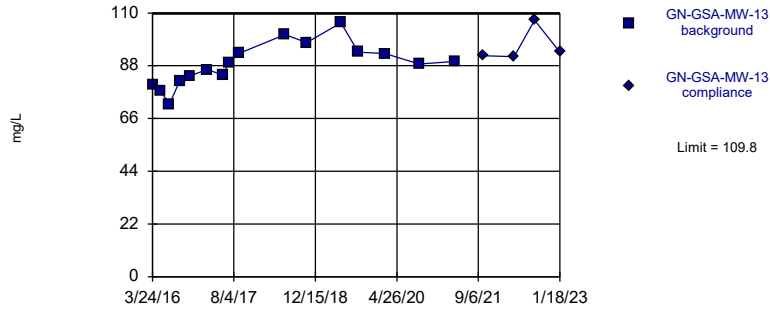
Prediction Limit  
Intrawell Parametric



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 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

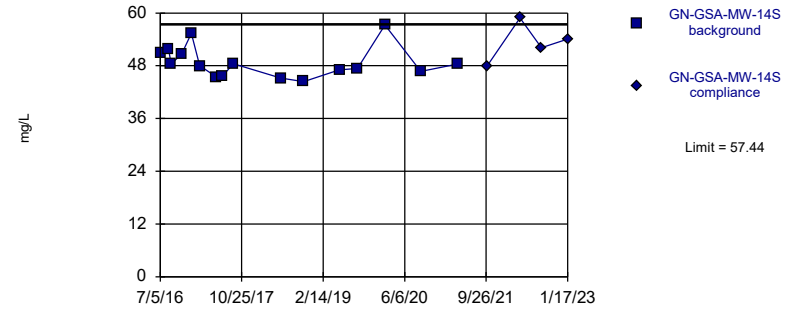
Within Limit Prediction Limit  
Intrawell Parametric



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 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

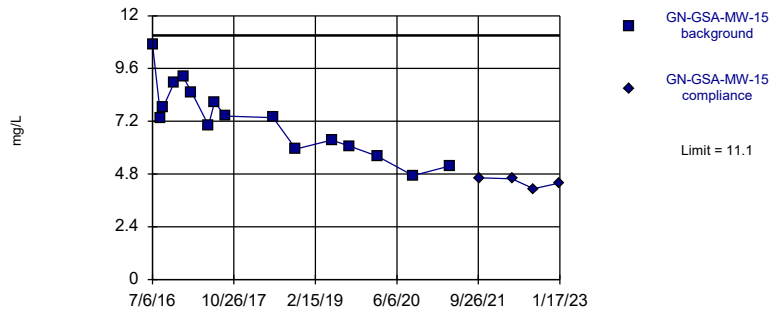
Within Limit Prediction Limit  
Intrawell Parametric



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.

Constituent: Calcium Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

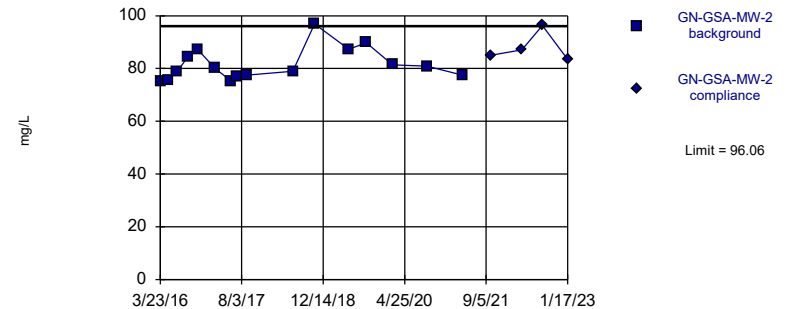
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=7.273, Std. Dev.=1.606, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9799, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Calcium Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit Prediction Limit  
Intrawell Parametric

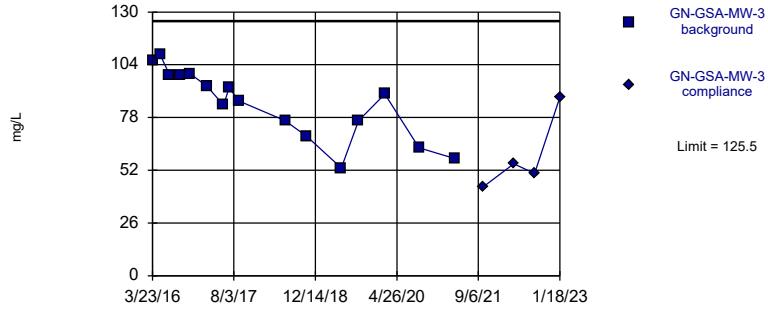


Background Data Summary: Mean=81.49, Std. Dev.=6.104, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.876, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Calcium Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

### Prediction Limit Intrawell Parametric

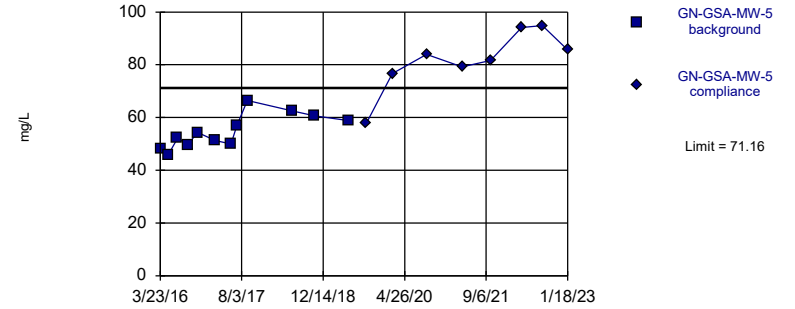


Background Data Summary: Mean=84.59, Std. Dev.=17.13, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9492, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Calcium Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

Exceeds Limit

### Prediction Limit Intrawell Parametric

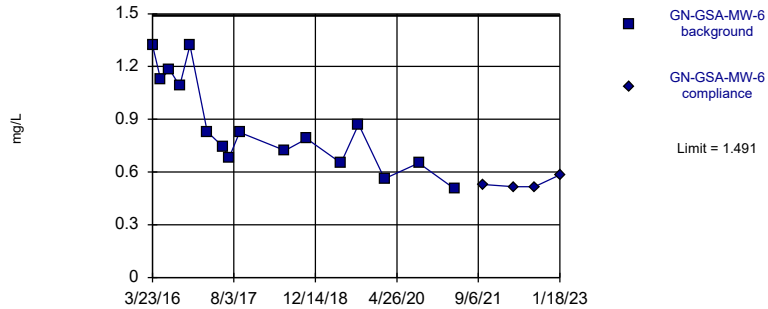


Background Data Summary: Mean=54.73, Std. Dev.=6.323, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.957, critical = 0.805. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Calcium Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

### Prediction Limit Intrawell Parametric

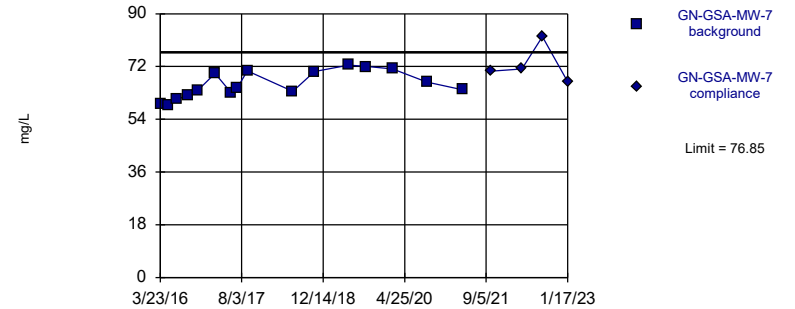


Background Data Summary: Mean=0.867, Std. Dev.=0.2613, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9137, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Calcium Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

### Prediction Limit Intrawell Parametric

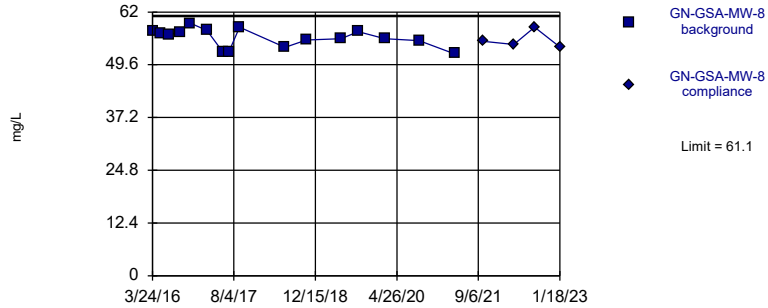


Background Data Summary: Mean=65.81, Std. Dev.=4.63, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9195, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Calcium Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit  
Intrawell Parametric

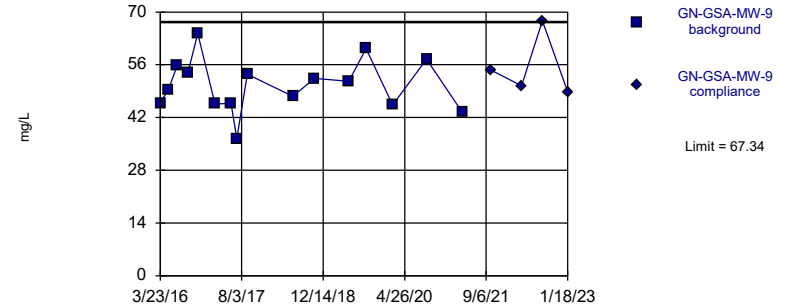


Background Data Summary: Mean=55.91, Std. Dev.=2.177, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9348, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Calcium Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit  
Intrawell Parametric

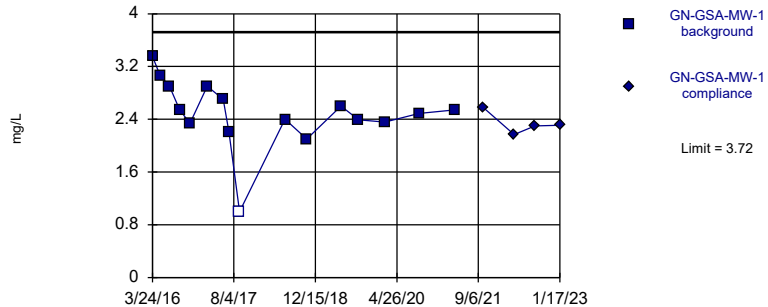


Background Data Summary: Mean=50.56, Std. Dev.=7.034, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9805, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Calcium Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit  
Intrawell Parametric

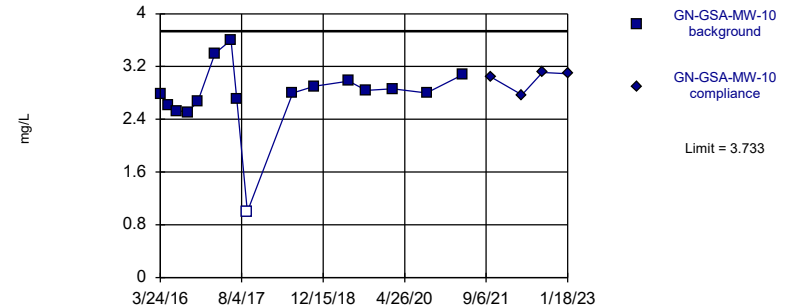


Background Data Summary: Mean=2.492, Std. Dev.=0.5148, n=16, 6.25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8783, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Chloride Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit  
Intrawell Parametric



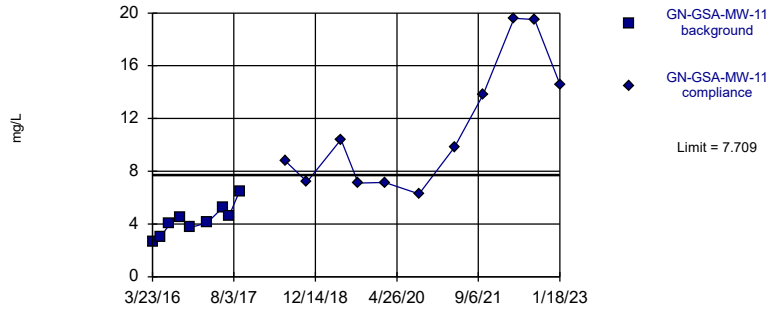
Background Data Summary (based on square transformation): Mean=7.867, Std. Dev.=2.545, n=16, 6.25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8763, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Chloride Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA



Exceeds Limit

Prediction Limit  
Intrawell Parametric

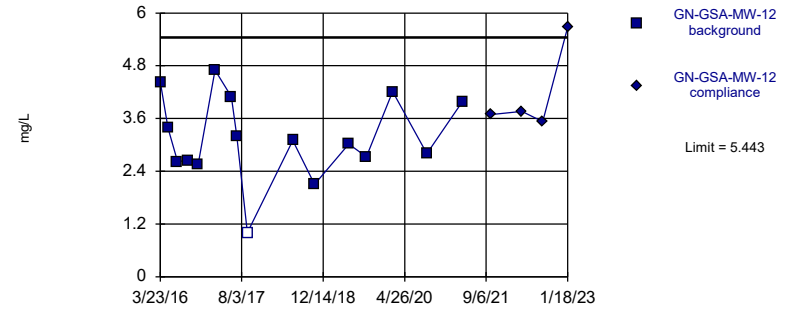


Background Data Summary: Mean=4.269, Std. Dev.=1.162, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9661, critical = 0.764. Kappa = 2.961 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Chloride Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

Exceeds Limit

Prediction Limit  
Intrawell Parametric

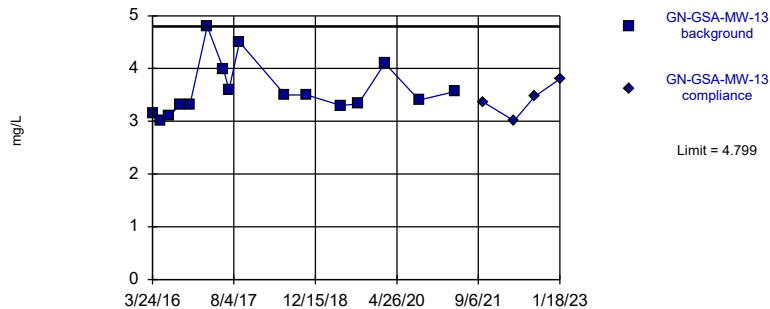


Background Data Summary: Mean=3.16, Std. Dev.=0.9566, n=16, 6.25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9569, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Chloride Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit  
Intrawell Parametric

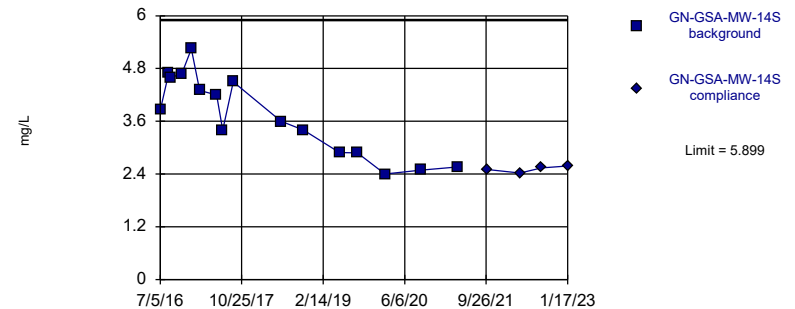


Background Data Summary: Mean=3.594, Std. Dev.=0.5051, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8575, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Chloride Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit  
Intrawell Parametric



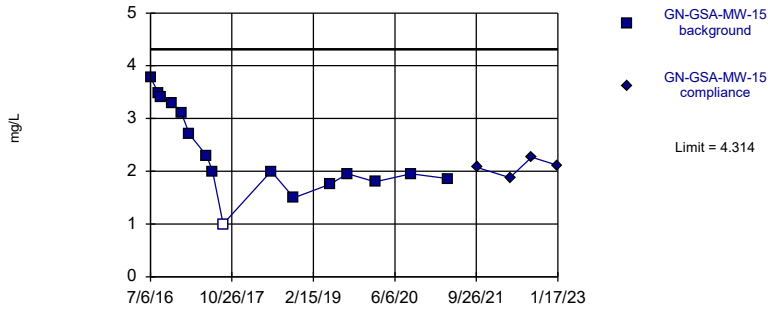
Background Data Summary: Mean=3.731, Std. Dev.=0.9087, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9381, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Chloride Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



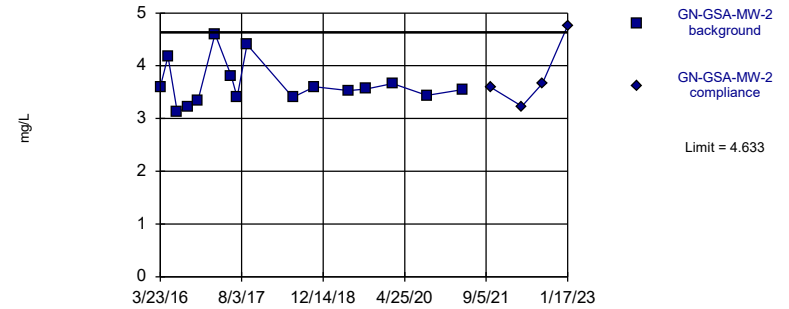
Background Data Summary: Mean=2.366, Std. Dev.=0.8163, n=16, 6.25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9218, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Chloride Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
 Plant Gaston Client: Southern Company Data: Gaston GSA

Exceeds Limit

Prediction Limit

Intrawell Parametric



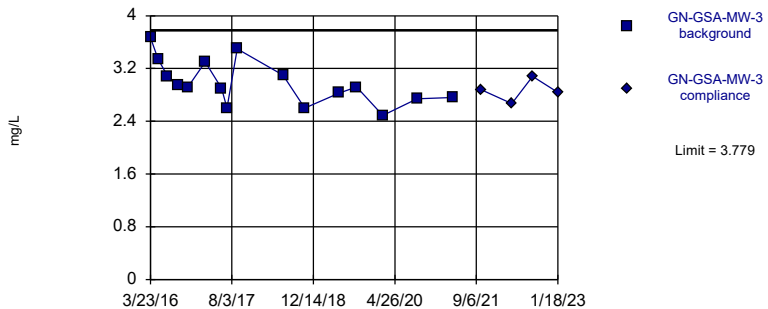
Background Data Summary: Mean=3.649, Std. Dev.=0.4125, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8696, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Chloride Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
 Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



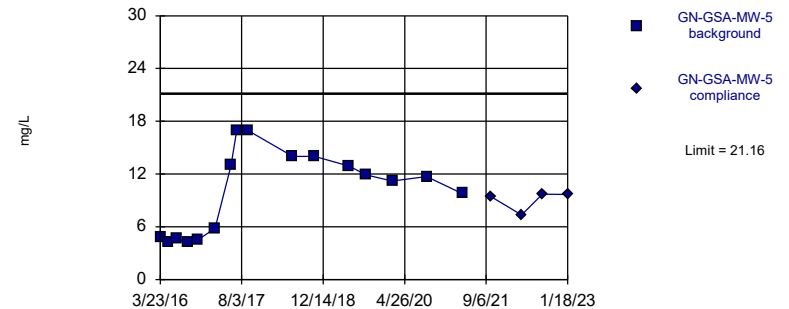
Background Data Summary: Mean=2.981, Std. Dev.=0.3341, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9557, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Chloride Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
 Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



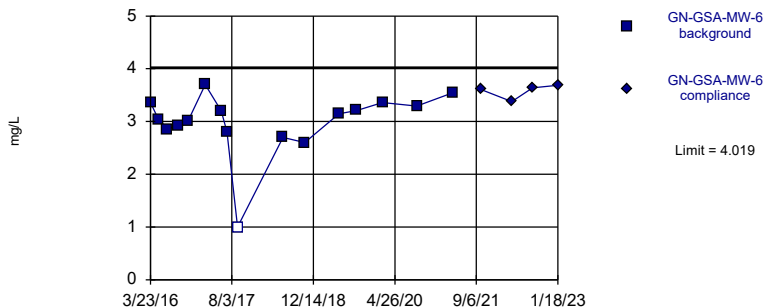
Background Data Summary: Mean=10.05, Std. Dev.=4.656, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8792, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Chloride Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
 Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

### Prediction Limit

Intrawell Parametric



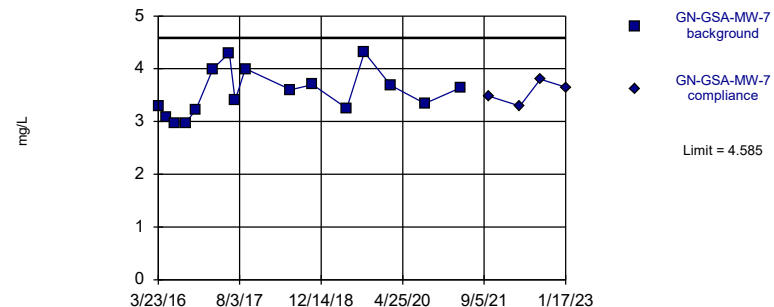
Background Data Summary (based on square transformation): Mean=9.249, Std. Dev.=2.894, n=16, 6.25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9006, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Chloride Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

### Prediction Limit

Intrawell Parametric



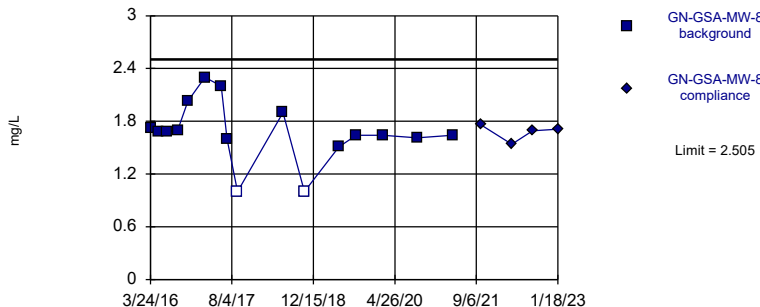
Background Data Summary: Mean=3.546, Std. Dev.=0.4352, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9366, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Chloride Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

### Prediction Limit

Intrawell Parametric



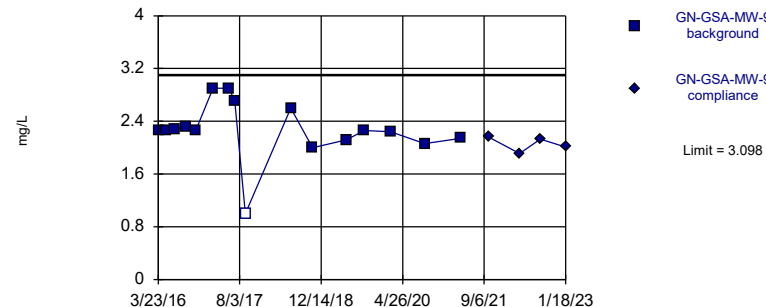
Background Data Summary: Mean=1.679, Std. Dev.=0.3463, n=16, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8939, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Chloride Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

### Prediction Limit

Intrawell Parametric



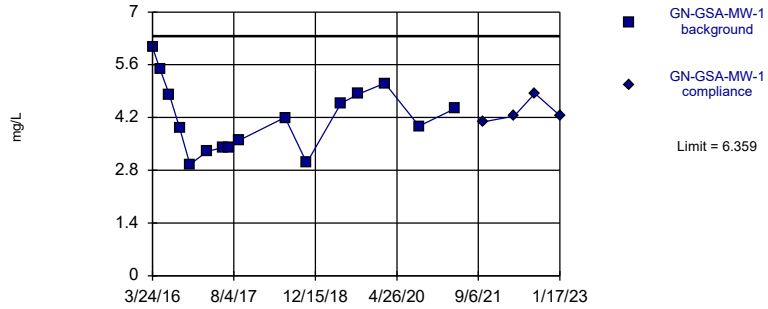
Background Data Summary (based on square transformation): Mean=5.326, Std. Dev.=1.791, n=16, 6.25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8883, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Chloride Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



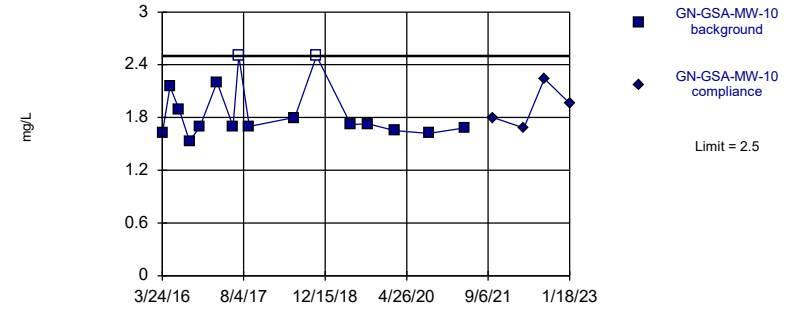
Background Data Summary: Mean=4.188, Std. Dev.=0.9103, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9593, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Sulfate Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Non-parametric



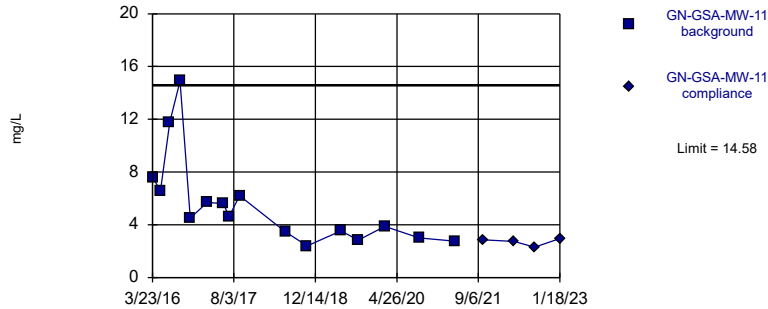
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 16 background values. 12.5% NDs. Well-constituent pair annual alpha = 0.01287. Individual comparison alpha = 0.006456 (1 of 2).

Constituent: Sulfate Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



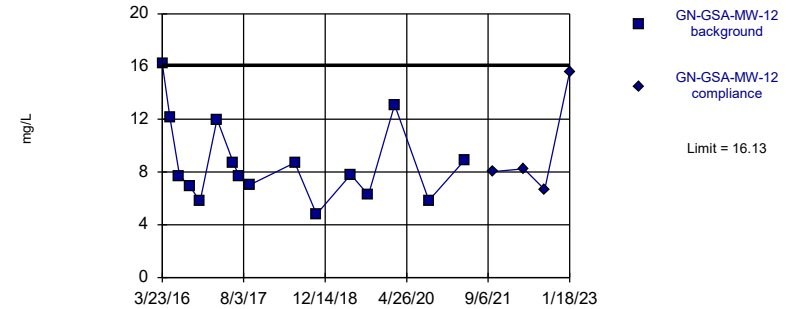
Background Data Summary (based on square root transformation): Mean=2.28, Std. Dev.=0.6446, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8839, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Sulfate Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



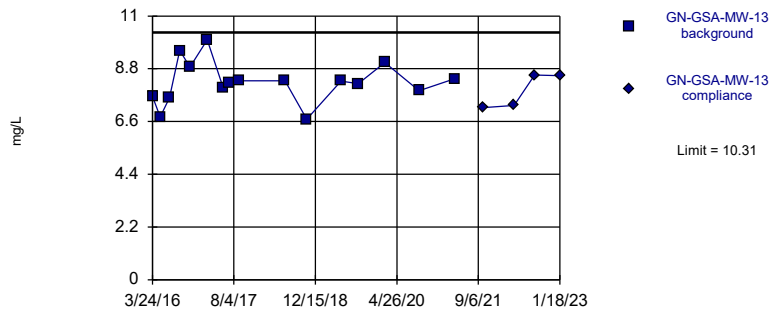
Background Data Summary: Mean=8.719, Std. Dev.=3.106, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8938, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Sulfate Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



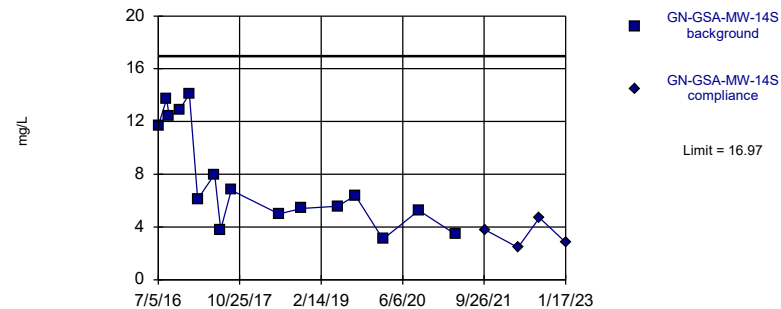
Background Data Summary: Mean=8.234, Std. Dev.=0.871, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9563, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Sulfate Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

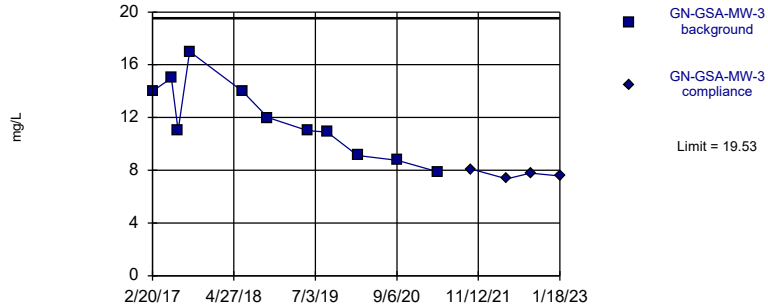
Prediction Limit

Intrawell Parametric



Within Limit

Prediction Limit  
Intrawell Parametric

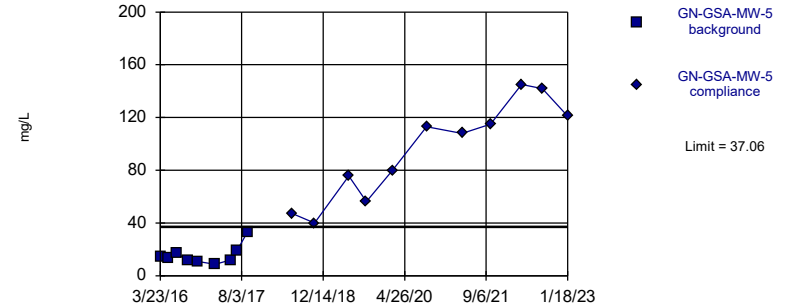


Background Data Summary: Mean=11.88, Std. Dev.=2.842, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9567, critical = 0.792. Kappa = 2.694 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Sulfate Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

Exceeds Limit

Prediction Limit  
Intrawell Parametric

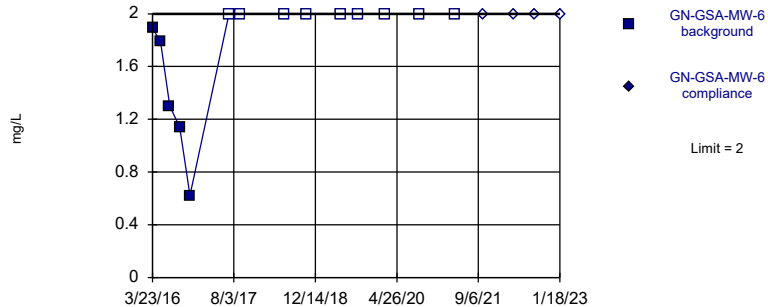


Background Data Summary: Mean=15.51, Std. Dev.=7.278, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7851, critical = 0.764. Kappa = 2.961 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Sulfate Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit  
Intrawell Non-parametric

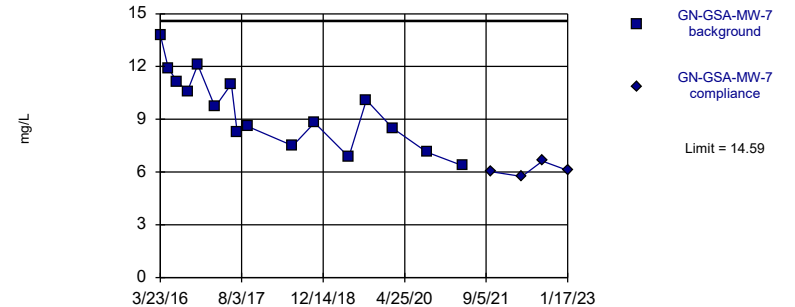


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 64.29% NDs. Well-constituent pair annual alpha = 0.01715. Individual comparison alpha = 0.008612 (1 of 2).

Constituent: Sulfate Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit  
Intrawell Parametric

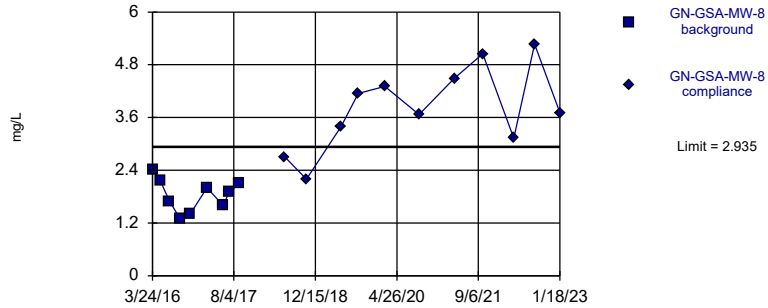


Background Data Summary: Mean=9.522, Std. Dev.=2.123, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9688, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Sulfate Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

Exceeds Limit

Prediction Limit  
Intrawell Parametric

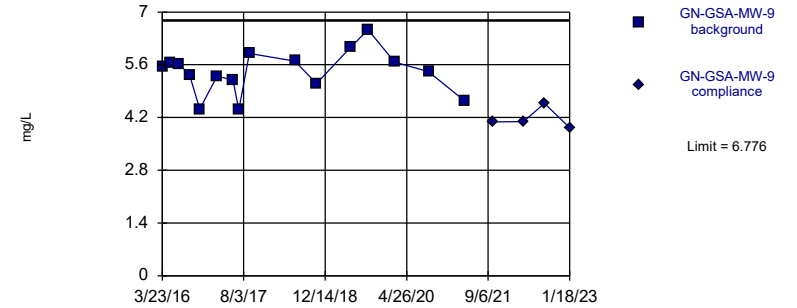


Background Data Summary: Mean=1.843, Std. Dev.=0.3686, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9707, critical = 0.764. Kappa = 2.961 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Sulfate Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit  
Intrawell Parametric

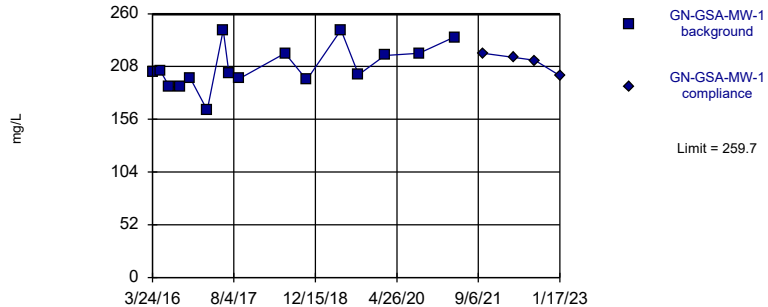


Background Data Summary: Mean=5.406, Std. Dev.=0.5742, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9576, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Sulfate Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit  
Intrawell Parametric

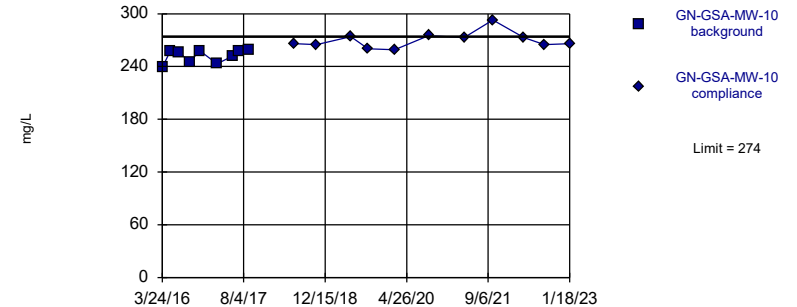


Background Data Summary: Mean=207.7, Std. Dev.=21.8, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9403, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: TDS Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

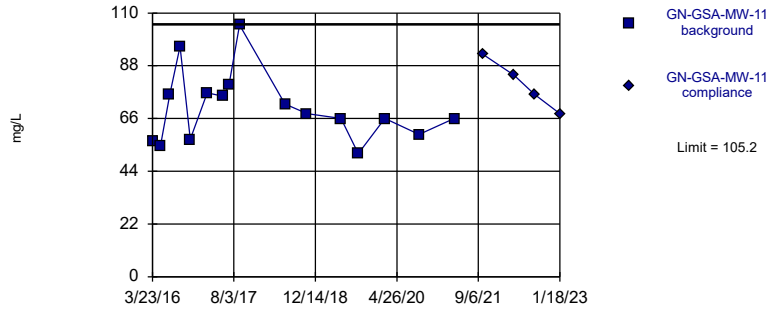
Prediction Limit  
Intrawell Parametric



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 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

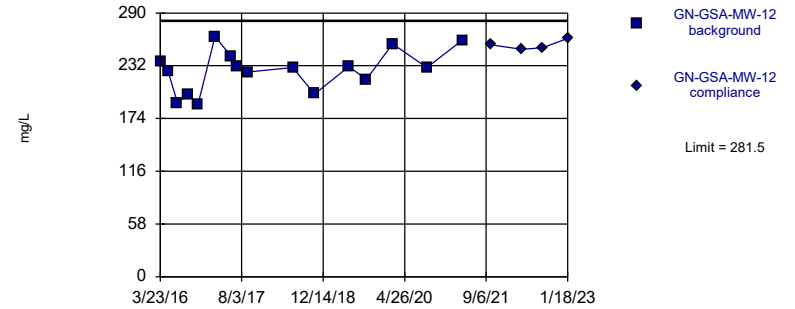
Within Limit Prediction Limit  
Intrawell Parametric



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 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

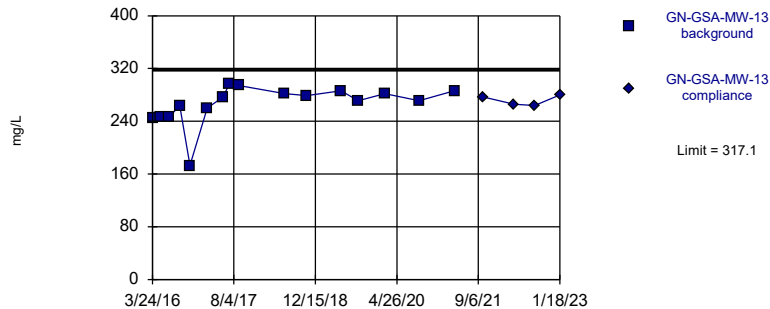
Within Limit Prediction Limit  
Intrawell Parametric



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 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

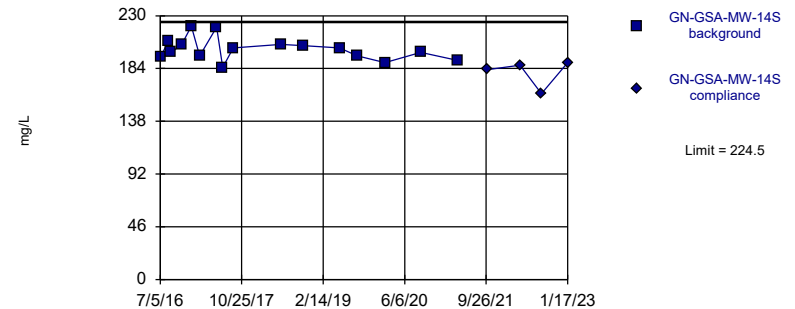
Within Limit Prediction Limit  
Intrawell Parametric



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 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit Prediction Limit  
Intrawell Parametric

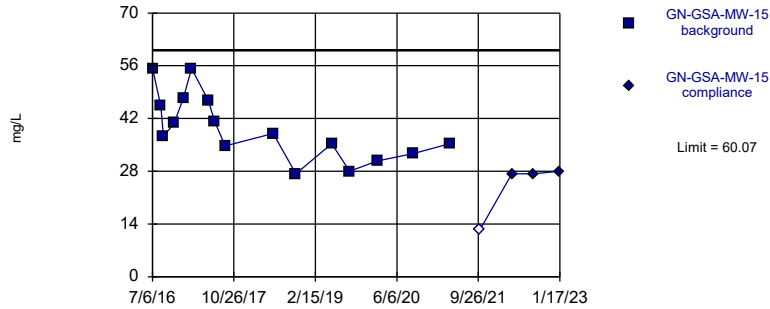


Background Data Summary: Mean=200.8, Std. Dev.=9.97, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9425, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: TDS Analysis Run 3/6/2023 2:26 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA



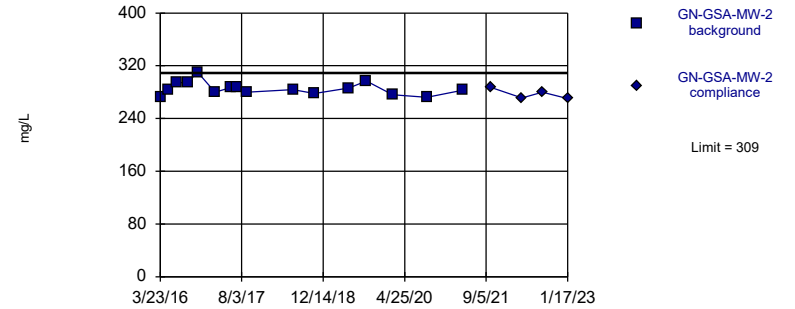
Within Limit Prediction Limit  
 Intrawell Parametric



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 3/6/2023 2:26 PM View: Intrawell PL  
 Plant Gaston Client: Southern Company Data: Gaston GSA

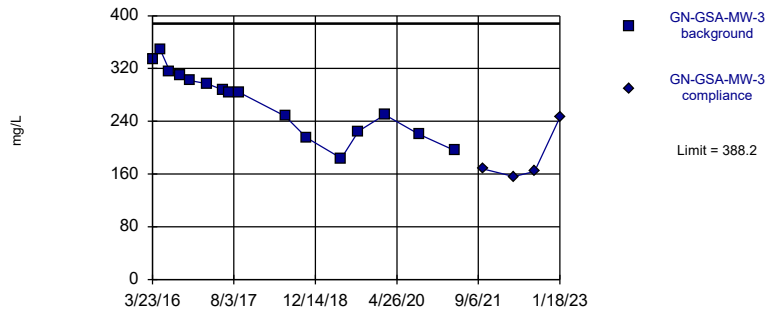
Within Limit Prediction Limit  
 Intrawell Parametric



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 3/6/2023 2:26 PM View: Intrawell PL  
 Plant Gaston Client: Southern Company Data: Gaston GSA

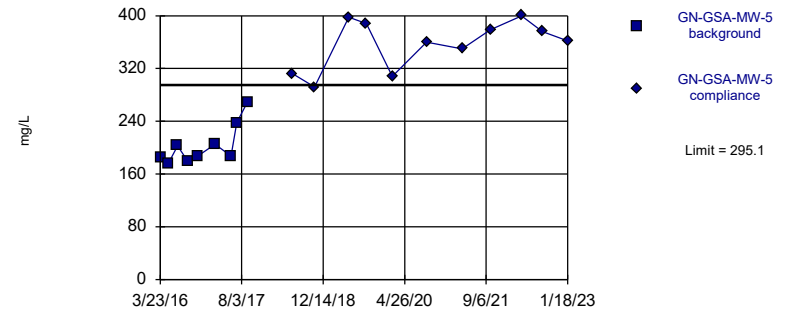
Within Limit Prediction Limit  
 Intrawell Parametric



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 3/6/2023 2:26 PM View: Intrawell PL  
 Plant Gaston Client: Southern Company Data: Gaston GSA

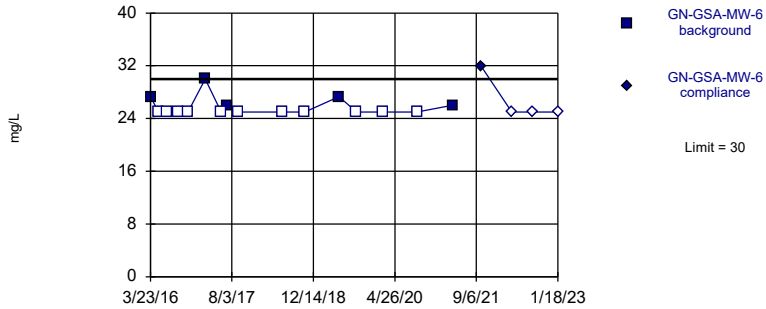
Exceeds Limit Prediction Limit  
 Intrawell Parametric



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 3/6/2023 2:26 PM View: Intrawell PL  
 Plant Gaston Client: Southern Company Data: Gaston GSA

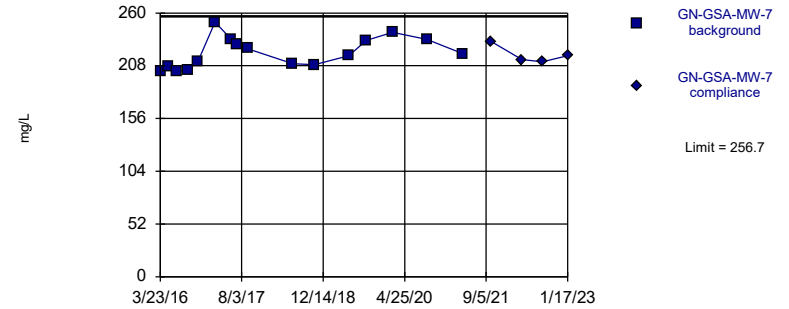
Within Limit Prediction Limit  
 Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 68.75% NDs. Well-constituent pair annual alpha = 0.01287. Individual comparison alpha = 0.006456 (1 of 2).

Constituent: TDS Analysis Run 3/6/2023 2:27 PM View: Intrawell PL  
 Plant Gaston Client: Southern Company Data: Gaston GSA

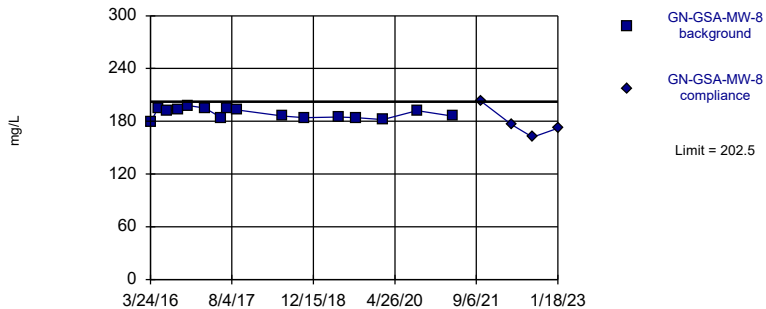
Within Limit Prediction Limit  
 Intrawell Parametric



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 3/6/2023 2:27 PM View: Intrawell PL  
 Plant Gaston Client: Southern Company Data: Gaston GSA

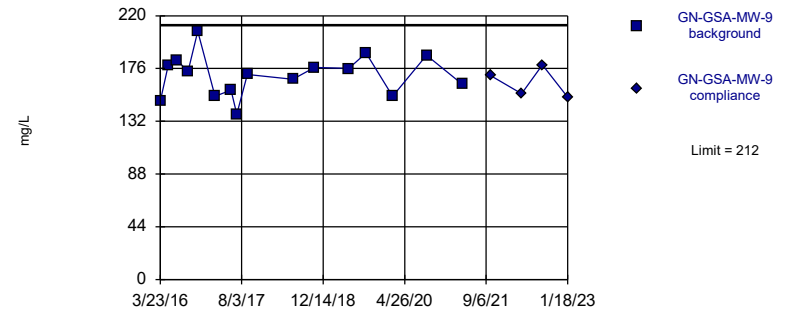
Within Limit Prediction Limit  
 Intrawell Parametric



Background Data Summary: Mean=188.9, Std. Dev.=5.691, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9231, critical = 0.844. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: TDS Analysis Run 3/6/2023 2:27 PM View: Intrawell PL  
 Plant Gaston Client: Southern Company Data: Gaston GSA

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 3/6/2023 2:27 PM View: Intrawell PL  
 Plant Gaston Client: Southern Company Data: Gaston GSA

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/6/2023 2:28 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-1	GN-GSA-MW-1
3/24/2016	36.9	
5/10/2016	37.9	
7/5/2016	35.3	
9/6/2016	34.8	
11/8/2016	34.3	
2/22/2017	35.9	
5/31/2017	34.3	
7/5/2017	35.5	
9/7/2017	36.7	
6/12/2018	42.2	
10/23/2018	38.9	
5/21/2019	47.8	
9/4/2019	41.4	
2/12/2020	44.1	
9/9/2020	44.5	
4/13/2021	44	
10/4/2021		45.4
4/13/2022		47.5
8/18/2022		53.5
1/17/2023		43.5

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL

Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-10	GN-GSA-MW-10
3/24/2016	90.3	
5/11/2016	91.1	
7/6/2016	90.7	
9/6/2016	94.5	
11/9/2016	92.9	
2/21/2017	93.1	
5/31/2017	86.6	
7/5/2017	91.5	
9/7/2017	99	
6/12/2018	101	
10/24/2018	104	
5/21/2019	101	
9/3/2019	102	
2/12/2020	99.2	
9/8/2020	99.9	
4/13/2021	97.1	
10/5/2021		108
4/13/2022		107
8/17/2022		118
1/18/2023		103

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/6/2023 2:28 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-11	GN-GSA-MW-11
3/23/2016	14.8	
5/11/2016	11.5	
7/6/2016	10.4	
9/7/2016	9.73	
11/9/2016	8.07	
2/21/2017	13.2	
5/31/2017	8.56	
7/5/2017	11.9	
9/7/2017	9.2	
6/12/2018	11.5	
10/24/2018	7.73	
5/21/2019	11.7	
9/3/2019	8.9	
2/12/2020	13.1	
9/9/2020	9.3	
4/13/2021	12.3	
10/5/2021		13.8
4/13/2022		15
8/17/2022		12.6
1/18/2023		13.8

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/6/2023 2:28 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-12	GN-GSA-MW-12
3/23/2016	70.2	
5/10/2016	65.6	
7/6/2016	58.2	
9/6/2016	62.3	
11/9/2016	62.7	
2/21/2017	69.9	
5/31/2017	66.5	
7/5/2017	66.9	
9/7/2017	72.9	
6/12/2018	69.9	
10/23/2018	64.3	
5/21/2019	77.9	
9/4/2019	74.2	
2/12/2020	77.8	
9/9/2020	77	
4/13/2021	81.6	
10/5/2021		87.9
4/13/2022		88
8/18/2022		110
1/18/2023		83.300003

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL

Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-13	GN-GSA-MW-13
3/24/2016	79.9	
5/10/2016	77.6	
7/6/2016	72	
9/6/2016	81.6	
11/8/2016	83.8	
2/22/2017	86.4	
5/31/2017	84.1	
7/5/2017	89.5	
9/7/2017	93.2	
6/12/2018	101	
10/23/2018	97.6	
5/21/2019	106	
9/4/2019	93.7	
2/12/2020	93.1	
9/9/2020	88.7	
4/13/2021	89.8	
10/4/2021		92.2
4/13/2022		91.8
8/16/2022		107
1/18/2023		93.699997

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/6/2023 2:28 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-14S	GN-GSA-MW-14S
7/5/2016	50.8	
8/23/2016	51.7	
9/7/2016	48.4	
11/8/2016	50.7	
1/3/2017	55.4	
2/21/2017	48	
5/31/2017	45.4	
7/5/2017	45.7	
9/5/2017	48.5	
6/12/2018	45.2	
10/23/2018	44.4	
5/22/2019	47.1	
9/4/2019	47.4	
2/12/2020	57.3	
9/9/2020	46.7	
4/13/2021	48.4	
10/4/2021		48
4/13/2022		58.9
8/16/2022		52.099998
1/17/2023		54.099998



# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL

Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-15	GN-GSA-MW-15
7/6/2016	10.7	
8/23/2016	7.34	
9/7/2016	7.86	
11/8/2016	8.94	
1/3/2017	9.21	
2/20/2017	8.53	
5/31/2017	7.02	
7/5/2017	8.08	
9/5/2017	7.44	
6/12/2018	7.37	
10/23/2018	5.94	
5/22/2019	6.34	
9/4/2019	6.07	
2/12/2020	5.62	
9/9/2020	4.73	
4/13/2021	5.17	
10/6/2021		4.62
4/12/2022		4.59
8/16/2022		4.13
1/17/2023		4.39

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-2	GN-GSA-MW-2
3/23/2016	75.3	
5/10/2016	75.7	
7/5/2016	78.8	
9/6/2016	84.3	
11/8/2016	87.2	
2/21/2017	80	
5/31/2017	75.2	
7/5/2017	77.2	
9/5/2017	77.5	
6/12/2018	78.9	
10/22/2018	96.9	
5/20/2019	87.3	
9/4/2019	89.8	
2/12/2020	81.4	
9/9/2020	80.9	
4/13/2021	77.5	
10/4/2021		85
4/12/2022		87.1
8/16/2022		96.300003
1/17/2023		83.400002

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/6/2023 2:28 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-3	GN-GSA-MW-3
3/23/2016	106	
5/10/2016	109	
7/6/2016	98.7	
9/7/2016	98.6	
11/8/2016	99.7	
2/20/2017	93.4	
5/31/2017	84.1	
7/5/2017	92.6	
9/5/2017	86.1	
6/12/2018	76.5	
10/23/2018	68.8	
5/22/2019	53.1	
9/4/2019	76.4	
2/12/2020	89.6	
9/9/2020	63.1	
4/13/2021	57.8	
10/4/2021		43.7
4/12/2022		55.1
8/16/2022		50.5
1/18/2023		87.900002

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/6/2023 2:28 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-5	GN-GSA-MW-5
3/23/2016	48.1	
5/11/2016	46	
7/6/2016	52.1	
9/6/2016	49.7	
11/8/2016	54.3	
2/20/2017	51.3	
5/30/2017	50	
7/5/2017	56.9	
9/7/2017	66.5	
6/11/2018	62.4	
10/22/2018	60.6	
5/20/2019	58.8	
9/4/2019		57.9
2/11/2020		76.6
9/8/2020		83.9
4/13/2021		79.2
10/4/2021		81.6
4/12/2022		94.1
8/16/2022		94.800003
1/18/2023		85.599998

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-6	GN-GSA-MW-6
3/23/2016	1.32	
5/11/2016	1.13	
7/6/2016	1.18	
9/6/2016	1.09	
11/8/2016	1.32	
2/20/2017	0.829	
5/30/2017	0.743	
7/5/2017	0.68	
9/7/2017	0.825	
6/11/2018	0.722	
10/22/2018	0.79	
5/20/2019	0.652	
9/4/2019	0.872	
2/11/2020	0.562	
9/8/2020	0.652	
4/13/2021	0.505	
10/4/2021		0.53
4/12/2022		0.516
8/16/2022		0.516
1/18/2023		0.583

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/6/2023 2:28 PM View: Intrawell PL

Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-7	GN-GSA-MW-7
3/23/2016	59.1	
5/11/2016	58.9	
7/6/2016	60.8	
9/6/2016	62.2	
11/8/2016	63.9	
2/20/2017	69.6	
5/31/2017	63	
7/5/2017	64.6	
9/7/2017	70.5	
6/11/2018	63.5	
10/22/2018	70.3	
5/20/2019	72.5	
9/4/2019	72	
2/11/2020	71.2	
9/9/2020	66.7	
4/13/2021	64.1	
10/4/2021		70.4
4/12/2022		71.2
8/16/2022		82.199997
1/17/2023		66.800003

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-8	GN-GSA-MW-8
3/24/2016	57.4	
5/11/2016	57	
7/6/2016	56.7	
9/6/2016	57.3	
11/8/2016	59.4	
2/20/2017	57.7	
5/30/2017	52.5	
7/5/2017	52.7	
9/7/2017	58.4	
6/12/2018	53.7	
10/22/2018	55.4	
5/21/2019	55.7	
9/3/2019	57.4	
2/12/2020	55.7	
9/9/2020	55.3	
4/13/2021	52.2	
10/4/2021		55.1
4/12/2022		54.4
8/16/2022		58.400002
1/18/2023		53.799999

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL

Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-9	GN-GSA-MW-9
3/23/2016	45.9	
5/11/2016	49.4	
7/6/2016	56	
9/7/2016	53.8	
11/8/2016	64.3	
2/21/2017	45.6	
5/30/2017	45.8	
7/5/2017	36.4	
9/7/2017	53.5	
6/12/2018	47.6	
10/22/2018	52.4	
5/21/2019	51.6	
9/3/2019	60.3	
2/12/2020	45.3	
9/8/2020	57.5	
4/13/2021	43.5	
10/5/2021		54.6
4/12/2022		50.4
8/17/2022		67.699997
1/18/2023		48.799999



# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-1	GN-GSA-MW-1
3/24/2016	3.35	
5/10/2016	3.06	
7/5/2016	2.9	
9/6/2016	2.54	
11/8/2016	2.34	
2/22/2017	2.9	
5/31/2017	2.7	
7/5/2017	2.2	
9/7/2017	<2 (U*)	
6/12/2018	2.4	
10/23/2018	2.1	
5/21/2019	2.6	
9/4/2019	2.39	
2/12/2020	2.36	
9/9/2020	2.49	
4/13/2021	2.54	
10/4/2021		2.58
4/13/2022		2.17
8/18/2022		2.3
1/17/2023		2.31

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/6/2023 2:28 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-10	GN-GSA-MW-10
3/24/2016	2.78	
5/11/2016	2.62	
7/6/2016	2.53	
9/6/2016	2.51	
11/9/2016	2.67	
2/21/2017	3.4	
5/31/2017	3.6	
7/5/2017	2.7	
9/7/2017	<2 (U*)	
6/12/2018	2.8	
10/24/2018	2.9	
5/21/2019	2.98	
9/3/2019	2.84	
2/12/2020	2.86	
9/8/2020	2.8	
4/13/2021	3.07	
10/5/2021		3.04
4/13/2022		2.77
8/17/2022		3.11
1/18/2023		3.09

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/6/2023 2:28 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-11	GN-GSA-MW-11
3/23/2016	2.64	
5/11/2016	3.02	
7/6/2016	4.01	
9/7/2016	4.51	
11/9/2016	3.74	
2/21/2017	4.1	
5/31/2017	5.3	
7/5/2017	4.6	
9/7/2017	6.5	
6/12/2018		8.8
10/24/2018		7.2
5/21/2019		10.4
9/3/2019		7.1
2/12/2020		7.16
9/9/2020		6.27
4/13/2021		9.8
10/5/2021		13.8
4/13/2022		19.6
8/17/2022		19.5
1/18/2023		14.6

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-12	GN-GSA-MW-12
3/23/2016	4.43	
5/10/2016	3.38	
7/6/2016	2.62	
9/6/2016	2.65	
11/9/2016	2.55	
2/21/2017	4.7	
5/31/2017	4.1	
7/5/2017	3.2	
9/7/2017	<2 (U*)	
6/12/2018	3.1	
10/23/2018	2.1	
5/21/2019	3.02	
9/4/2019	2.73	
2/12/2020	4.21	
9/9/2020	2.8	
4/13/2021	3.97	
10/5/2021		3.69
4/13/2022		3.76
8/18/2022		3.53
1/18/2023		5.68

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/6/2023 2:28 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-13	GN-GSA-MW-13
3/24/2016	3.16	
5/10/2016	3.02	
7/6/2016	3.1	
9/6/2016	3.31	
11/8/2016	3.32	
2/22/2017	4.8	
5/31/2017	4	
7/5/2017	3.6	
9/7/2017	4.5	
6/12/2018	3.5	
10/23/2018	3.5	
5/21/2019	3.3	
9/4/2019	3.33	
2/12/2020	4.1	
9/9/2020	3.4	
4/13/2021	3.56	
10/4/2021		3.37
4/13/2022		3.01
8/16/2022		3.47
1/18/2023		3.8

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-14S	GN-GSA-MW-14S
7/5/2016	3.86	
8/23/2016	4.69	
9/7/2016	4.6	
11/8/2016	4.68	
1/3/2017	5.25	
2/21/2017	4.3	
5/31/2017	4.2	
7/5/2017	3.4	
9/5/2017	4.5	
6/12/2018	3.6	
10/23/2018	3.4	
5/22/2019	2.89	
9/4/2019	2.88	
2/12/2020	2.4	
9/9/2020	2.49	
4/13/2021	2.56	
10/4/2021		2.5
4/13/2022		2.42
8/16/2022		2.54
1/17/2023		2.58

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-15	GN-GSA-MW-15
7/6/2016	3.78	
8/23/2016	3.47	
9/7/2016	3.4	
11/8/2016	3.29	
1/3/2017	3.11	
2/20/2017	2.7	
5/31/2017	2.3	
7/5/2017	2	
9/5/2017	<2 (U*)	
6/12/2018	2	
10/23/2018	1.5 (J)	
5/22/2019	1.75	
9/4/2019	1.95	
2/12/2020	1.8	
9/9/2020	1.95	
4/13/2021	1.86	
10/6/2021		2.07
4/12/2022		1.88
8/16/2022		2.27
1/17/2023		2.11

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/6/2023 2:28 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-2	GN-GSA-MW-2
3/23/2016	3.6	
5/10/2016	4.18	
7/5/2016	3.12	
9/6/2016	3.21	
11/8/2016	3.33	
2/21/2017	4.6	
5/31/2017	3.8	
7/5/2017	3.4	
9/5/2017	4.4	
6/12/2018	3.4	
10/22/2018	3.6	
5/20/2019	3.53	
9/4/2019	3.56	
2/12/2020	3.66	
9/9/2020	3.44	
4/13/2021	3.55	
10/4/2021		3.59
4/12/2022		3.23
8/16/2022		3.66
1/17/2023		4.76



# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/6/2023 2:28 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-3	GN-GSA-MW-3
3/23/2016	3.67	
5/10/2016	3.34	
7/6/2016	3.08	
9/7/2016	2.95	
11/8/2016	2.92	
2/20/2017	3.3	
5/31/2017	2.9	
7/5/2017	2.6	
9/5/2017	3.5	
6/12/2018	3.1	
10/23/2018	2.6	
5/22/2019	2.83	
9/4/2019	2.92	
2/12/2020	2.49	
9/9/2020	2.74	
4/13/2021	2.76	
10/4/2021		2.88
4/12/2022		2.67
8/16/2022		3.08
1/18/2023		2.84

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/6/2023 2:28 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-5	GN-GSA-MW-5
3/23/2016	4.84	
5/11/2016	4.19	
7/6/2016	4.67	
9/6/2016	4.23	
11/8/2016	4.51	
2/20/2017	5.8	
5/30/2017	13	
7/5/2017	17	
9/7/2017	17	
6/11/2018	14	
10/22/2018	14	
5/20/2019	12.9	
9/4/2019	11.9	
2/11/2020	11.2	
9/8/2020	11.7	
4/13/2021	9.78	
10/4/2021		9.45
4/12/2022		7.35
8/16/2022		9.72
1/18/2023		9.67

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-6	GN-GSA-MW-6
3/23/2016	3.36	
5/11/2016	3.04	
7/6/2016	2.86	
9/6/2016	2.92	
11/8/2016	3.01	
2/20/2017	3.7	
5/30/2017	3.2	
7/5/2017	2.8	
9/7/2017	<2 (U*)	
6/11/2018	2.7	
10/22/2018	2.6	
5/20/2019	3.15	
9/4/2019	3.21	
2/11/2020	3.36	
9/8/2020	3.29	
4/13/2021	3.54	
10/4/2021		3.61
4/12/2022		3.38
8/16/2022		3.64
1/18/2023		3.69

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/6/2023 2:28 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-7	GN-GSA-MW-7
3/23/2016	3.28	
5/11/2016	3.08	
7/6/2016	2.96	
9/6/2016	2.97	
11/8/2016	3.22	
2/20/2017	4	
5/31/2017	4.3	
7/5/2017	3.4	
9/7/2017	4	
6/11/2018	3.6	
10/22/2018	3.7	
5/20/2019	3.25	
9/4/2019	4.31	
2/11/2020	3.69	
9/9/2020	3.34	
4/13/2021	3.64	
10/4/2021		3.48
4/12/2022		3.29
8/16/2022		3.8
1/17/2023		3.65

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-8	GN-GSA-MW-8
3/24/2016	1.73	
5/11/2016	1.68	
7/6/2016	1.68	
9/6/2016	1.7	
11/8/2016	2.03	
2/20/2017	2.3	
5/30/2017	2.2	
7/5/2017	1.6 (J)	
9/7/2017	<2 (U*)	
6/12/2018	1.9 (J)	
10/22/2018	<2	
5/21/2019	1.51	
9/3/2019	1.64	
2/12/2020	1.64	
9/9/2020	1.61	
4/13/2021	1.64	
10/4/2021		1.76
4/12/2022		1.54
8/16/2022		1.69
1/18/2023		1.71

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/6/2023 2:28 PM View: Intrawell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-9	GN-GSA-MW-9
3/23/2016	2.26	
5/11/2016	2.26	
7/6/2016	2.28	
9/7/2016	2.32	
11/8/2016	2.26	
2/21/2017	2.9	
5/30/2017	2.9	
7/5/2017	2.7	
9/7/2017	<2 (U*)	
6/12/2018	2.6	
10/22/2018	2	
5/21/2019	2.12	
9/3/2019	2.26	
2/12/2020	2.24	
9/8/2020	2.06	
4/13/2021	2.14	
10/5/2021		2.16
4/12/2022		1.91
8/17/2022		2.13
1/18/2023		2.01

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL

Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-1	GN-GSA-MW-1
3/24/2016	6.06	
5/10/2016	5.47	
7/5/2016	4.8	
9/6/2016	3.91	
11/8/2016	2.95	
2/22/2017	3.3 (J)	
5/31/2017	3.4 (J)	
7/5/2017	3.4 (J)	
9/7/2017	3.6 (J)	
6/12/2018	4.2 (J)	
10/23/2018	3 (J)	
5/21/2019	4.58	
9/4/2019	4.82	
2/12/2020	5.11	
9/9/2020	3.97	
4/13/2021	4.43	
10/4/2021		4.08
4/13/2022		4.24
8/18/2022		4.84
1/17/2023		4.25

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL

Plant Gaston Client: Southern Company Data: Gaston GSA

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	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	
10/5/2021		1.8
4/13/2022		1.68 (J)
8/17/2022		2.24
1/18/2023		1.96 (J)



# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/6/2023 2:28 PM View: Intrawell PL

Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-11	GN-GSA-MW-11
3/23/2016	7.59	
5/11/2016	6.6	
7/6/2016	11.8	
9/7/2016	14.9	
11/9/2016	4.5	
2/21/2017	5.7	
5/31/2017	5.6	
7/5/2017	4.6 (J)	
9/7/2017	6.2	
6/12/2018	3.5 (J)	
10/24/2018	2.4 (J)	
5/21/2019	3.55	
9/3/2019	2.83	
2/12/2020	3.89	
9/9/2020	3.01	
4/13/2021	2.77	
10/5/2021		2.86
4/13/2022		2.73
8/17/2022		2.29
1/18/2023		2.95

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL

Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-12	GN-GSA-MW-12
3/23/2016	16.2	
5/10/2016	12.1	
7/6/2016	7.7	
9/6/2016	6.97	
11/9/2016	5.77	
2/21/2017	12	
5/31/2017	8.7	
7/5/2017	7.7	
9/7/2017	7	
6/12/2018	8.7	
10/23/2018	4.8 (J)	
5/21/2019	7.81	
9/4/2019	6.25	
2/12/2020	13.1	
9/9/2020	5.85	
4/13/2021	8.86	
10/5/2021		8.02
4/13/2022		8.25
8/18/2022		6.66
1/18/2023		15.6

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL

Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-13	GN-GSA-MW-13
3/24/2016	7.64	
5/10/2016	6.79	
7/6/2016	7.59	
9/6/2016	9.56	
11/8/2016	8.87	
2/22/2017	10	
5/31/2017	8	
7/5/2017	8.2	
9/7/2017	8.3	
6/12/2018	8.3	
10/23/2018	6.7	
5/21/2019	8.29	
9/4/2019	8.18	
2/12/2020	9.06	
9/9/2020	7.89	
4/13/2021	8.38	
10/4/2021		7.18
4/13/2022		7.27
8/16/2022		8.54
1/18/2023		8.51

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/6/2023 2:28 PM View: Intrawell PL

Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-14S	GN-GSA-MW-14S
7/5/2016	11.7	
8/23/2016	13.7	
9/7/2016	12.4	
11/8/2016	12.9	
1/3/2017	14.1	
2/21/2017	6.1	
5/31/2017	8	
7/5/2017	3.8 (J)	
9/5/2017	6.8	
6/12/2018	5	
10/23/2018	5.4	
5/22/2019	5.57	
9/4/2019	6.37	
2/12/2020	3.09	
9/9/2020	5.26	
4/13/2021	3.45	
10/4/2021		3.78
4/13/2022		2.44
8/16/2022		4.71
1/17/2023		2.83

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	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	
10/6/2021		2.15
4/12/2022		1.76 (J)
8/16/2022		3.73
1/17/2023		1.99 (J)

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL

Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-2	GN-GSA-MW-2
3/23/2016	6.48	
5/10/2016	11.1	
7/5/2016	6.7	
9/6/2016	6.85	
11/8/2016	7.3	
2/21/2017	7.7	
5/31/2017	5.3	
7/5/2017	6.4	
9/5/2017	6.1	
6/12/2018	7.2	
10/22/2018	8.3	
5/20/2019	7.52	
9/4/2019	9.25	
2/12/2020	10.7	
9/9/2020	7.77	
4/13/2021	7.44	
10/4/2021		6.86
4/12/2022		8.36
8/16/2022		8.31
1/17/2023		6.01

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL

Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-3	GN-GSA-MW-3
3/23/2016	32.6	
5/10/2016	27.6	
7/6/2016	23.6	
9/7/2016	22.2	
11/8/2016	20.4	
2/20/2017	14	
5/31/2017	15	
7/5/2017	11	
9/5/2017	17	
6/12/2018	14	
10/23/2018	12	
5/22/2019	11	
9/4/2019	10.9	
2/12/2020	9.13	
9/9/2020	8.76	
4/13/2021	7.88	
10/4/2021		8.09
4/12/2022		7.36
8/16/2022		7.79
1/18/2023		7.56

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/6/2023 2:28 PM View: Intrawell PL

Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-5	GN-GSA-MW-5
3/23/2016	14.1	
5/11/2016	13.5	
7/6/2016	17.1	
9/6/2016	11.2	
11/8/2016	10.9	
2/20/2017	8.8	
5/30/2017	12	
7/5/2017	19	
9/7/2017	33	
6/11/2018		47
10/22/2018		40
5/20/2019		75.6
9/4/2019		56.3
2/11/2020		79.7
9/8/2020		113
4/13/2021		108
10/4/2021		115
4/12/2022		145
8/16/2022		142
1/18/2023		121



# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	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	<2	
9/7/2017	<2	
6/11/2018	<2	
10/22/2018	<2	
5/20/2019	<2	
9/4/2019	<2	
2/11/2020	<2	
9/8/2020	<2	
4/13/2021	<2	
10/4/2021		<2
4/12/2022		<2
8/16/2022		<2
1/18/2023		<2

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL

Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-7	GN-GSA-MW-7
3/23/2016	13.8	
5/11/2016	11.9	
7/6/2016	11.1	
9/6/2016	10.6	
11/8/2016	12.1	
2/20/2017	9.7	
5/31/2017	11	
7/5/2017	8.3	
9/7/2017	8.6	
6/11/2018	7.5	
10/22/2018	8.8	
5/20/2019	6.85	
9/4/2019	10.1	
2/11/2020	8.5	
9/9/2020	7.13	
4/13/2021	6.37	
10/4/2021		6.02
4/12/2022		5.75
8/16/2022		6.63
1/17/2023		6.1

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL

Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-8	GN-GSA-MW-8
3/24/2016	2.42	
5/11/2016	2.16	
7/6/2016	1.7	
9/6/2016	1.31	
11/8/2016	1.4	
2/20/2017	2 (J)	
5/30/2017	1.6 (J)	
7/5/2017	1.9 (J)	
9/7/2017	2.1 (J)	
6/12/2018		2.7 (J)
10/22/2018		2.2 (J)
5/21/2019		3.39
9/3/2019		4.15
2/12/2020		4.31
9/9/2020		3.67
4/13/2021		4.49
10/4/2021		5.05
4/12/2022		3.13
8/16/2022		5.27
1/18/2023		3.71

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL

Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-9	GN-GSA-MW-9
3/23/2016	5.54	
5/11/2016	5.66	
7/6/2016	5.62	
9/7/2016	5.31	
11/8/2016	4.42	
2/21/2017	5.3	
5/30/2017	5.2	
7/5/2017	4.4 (J)	
9/7/2017	5.9	
6/12/2018	5.7	
10/22/2018	5.1	
5/21/2019	6.07	
9/3/2019	6.53	
2/12/2020	5.67	
9/8/2020	5.42	
4/13/2021	4.65	
10/5/2021		4.08
4/12/2022		4.09
8/17/2022		4.58
1/18/2023		3.93

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-1	GN-GSA-MW-1
3/24/2016	203	
5/10/2016	204	
7/5/2016	188	
9/6/2016	188	
11/8/2016	197	
2/22/2017	165	
5/31/2017	244	
7/5/2017	201	
9/7/2017	196	
6/12/2018	221	
10/23/2018	195 (D)	
5/21/2019	244	
9/4/2019	200	
2/12/2020	219	
9/9/2020	221	
4/13/2021	237	
10/4/2021		221
4/13/2022		217
8/18/2022		214
1/17/2023		199

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-10	GN-GSA-MW-10
3/24/2016	239	
5/11/2016	257	
7/6/2016	256	
9/6/2016	245	
11/9/2016	258	
2/21/2017	243	
5/31/2017	252	
7/5/2017	257	
9/7/2017	259	
6/12/2018		266
10/24/2018		265 (D)
5/21/2019		274
9/3/2019		260
2/12/2020		259
9/8/2020		275
4/13/2021		273
10/5/2021		293
4/13/2022		273
8/17/2022		265
1/18/2023		266

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-11	GN-GSA-MW-11
3/23/2016	56.7	
5/11/2016	54.7	
7/6/2016	76	
9/7/2016	96	
11/9/2016	57.3	
2/21/2017	76.7	
5/31/2017	75.3	
7/5/2017	80	
9/7/2017	105	
6/12/2018	72	
10/24/2018	68 (D)	
5/21/2019	66	
9/3/2019	51.3	
2/12/2020	66	
9/9/2020	59.3	
4/13/2021	66	
10/5/2021		92.7
4/13/2022		84
8/17/2022		76
1/18/2023		68

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-12	GN-GSA-MW-12
3/23/2016	237	
5/10/2016	226	
7/6/2016	191	
9/6/2016	200	
11/9/2016	190	
2/21/2017	264	
5/31/2017	242	
7/5/2017	231	
9/7/2017	225	
6/12/2018	230	
10/23/2018	201 (D)	
5/21/2019	231	
9/4/2019	217	
2/12/2020	256	
9/9/2020	230	
4/13/2021	260	
10/5/2021		255
4/13/2022		250
8/18/2022		252
1/18/2023		262



# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-13	GN-GSA-MW-13
3/24/2016	244	
5/10/2016	247	
7/6/2016	247	
9/6/2016	264	
11/8/2016	173	
2/22/2017	260	
5/31/2017	277	
7/5/2017	296	
9/7/2017	294	
6/12/2018	282	
10/23/2018	279 (D)	
5/21/2019	286	
9/4/2019	271	
2/12/2020	282	
9/9/2020	271	
4/13/2021	286	
10/4/2021		277
4/13/2022		266
8/16/2022		264
1/18/2023		280

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-14S	GN-GSA-MW-14S
7/5/2016	194	
8/23/2016	208	
9/7/2016	198	
11/8/2016	205	
1/3/2017	221	
2/21/2017	195	
5/31/2017	220	
7/5/2017	185	
9/5/2017	202	
6/12/2018	205	
10/23/2018	204 (D)	
5/22/2019	202	
9/4/2019	195	
2/12/2020	189	
9/9/2020	198	
4/13/2021	191	
10/4/2021		183
4/13/2022		187
8/16/2022		162
1/17/2023		189

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-15	GN-GSA-MW-15
7/6/2016	55.3	
8/23/2016	45.3	
9/7/2016	37.3	
11/8/2016	40.7	
1/3/2017	47.3	
2/20/2017	55.3	
5/31/2017	46.7	
7/5/2017	41.3	
9/5/2017	34.7	
6/12/2018	38	
10/23/2018	27.3 (D)	
5/22/2019	35.3	
9/4/2019	28	
2/12/2020	30.7	
9/9/2020	32.7	
4/13/2021	35.3	
10/6/2021		<25
4/12/2022		27.3
8/16/2022		27.299999
1/17/2023		28

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-2	GN-GSA-MW-2
3/23/2016	272	
5/10/2016	283	
7/5/2016	294	
9/6/2016	295	
11/8/2016	310	
2/21/2017	280	
5/31/2017	287	
7/5/2017	287	
9/5/2017	280	
6/12/2018	284	
10/22/2018	278 (D)	
5/20/2019	286	
9/4/2019	297	
2/12/2020	276	
9/9/2020	272	
4/13/2021	283	
10/4/2021		287
4/12/2022		271
8/16/2022		280
1/17/2023		270

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-3	GN-GSA-MW-3
3/23/2016	334	
5/10/2016	349	
7/6/2016	316	
9/7/2016	309	
11/8/2016	302	
2/20/2017	297	
5/31/2017	287	
7/5/2017	283	
9/5/2017	284	
6/12/2018	248	
10/23/2018	215 (D)	
5/22/2019	184	
9/4/2019	225	
2/12/2020	250	
9/9/2020	220	
4/13/2021	196	
10/4/2021		168
4/12/2022		156
8/16/2022		164
1/18/2023		246

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-5	GN-GSA-MW-5
3/23/2016	185	
5/11/2016	176	
7/6/2016	203	
9/6/2016	180	
11/8/2016	187	
2/20/2017	205	
5/30/2017	187	
7/5/2017	238	
9/7/2017	269	
6/11/2018		312
10/22/2018		292 (D)
5/20/2019		398
9/4/2019		388
2/11/2020		308
9/8/2020		360
4/13/2021		350
10/4/2021		379
4/12/2022		400
8/16/2022		376
1/18/2023		362

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-6	GN-GSA-MW-6
3/23/2016	27.3	
5/11/2016	<25	
7/6/2016	<25	
9/6/2016	<25	
11/8/2016	<25	
2/20/2017	30	
5/30/2017	<25	
7/5/2017	26	
9/7/2017	<25	
6/11/2018	<25	
10/22/2018	<25 (D)	
5/20/2019	27.3	
9/4/2019	<25	
2/11/2020	<25	
9/8/2020	<25	
4/13/2021	26	
10/4/2021		32
4/12/2022		<25
8/16/2022		<25
1/18/2023		<25

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-7	GN-GSA-MW-7
3/23/2016	202	
5/11/2016	207	
7/6/2016	202	
9/6/2016	204	
11/8/2016	212	
2/20/2017	251	
5/31/2017	234	
7/5/2017	229	
9/7/2017	225	
6/11/2018	210	
10/22/2018	209 (D)	
5/20/2019	218	
9/4/2019	233	
2/11/2020	241	
9/9/2020	234	
4/13/2021	220	
10/4/2021		232
4/12/2022		214
8/16/2022		212
1/17/2023		218



# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-8	GN-GSA-MW-8
3/24/2016	179	
5/11/2016	195	
7/6/2016	192	
9/6/2016	193	
11/8/2016	198	
2/20/2017	195	
5/30/2017	184	
7/5/2017	194	
9/7/2017	193	
6/12/2018	186	
10/22/2018	184 (D)	
5/21/2019	185	
9/3/2019	184	
2/12/2020	182	
9/9/2020	192	
4/13/2021	186	
10/4/2021		203
4/12/2022		176
8/16/2022		162
1/18/2023		172

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 3/6/2023 2:28 PM View: IntraWell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-9	GN-GSA-MW-9
3/23/2016	149	
5/11/2016	179	
7/6/2016	183	
9/7/2016	173	
11/8/2016	207	
2/21/2017	153	
5/30/2017	158	
7/5/2017	138	
9/7/2017	171	
6/12/2018	167	
10/22/2018	177 (D)	
5/21/2019	176	
9/3/2019	189	
2/12/2020	153	
9/8/2020	187	
4/13/2021	163	
10/5/2021		170
4/12/2022		155
8/17/2022		179
1/18/2023		152

FIGURE E.

# Interwell Prediction Limit - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 3/6/2023, 2:33 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	0.125	n/a	1/17/2023	0.358	Yes	84	n/a	n/a	44.05	n/a	n/a	0.0002728	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-1	7.53	5.25	1/17/2023	7.69	Yes	84	n/a	n/a	0	n/a	n/a	0.0005457	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-6	7.53	5.25	1/18/2023	4.75	Yes	84	n/a	n/a	0	n/a	n/a	0.0005457	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-8	7.53	5.25	1/18/2023	7.54	Yes	84	n/a	n/a	0	n/a	n/a	0.0005457	NP Inter (normality) 1 of 2

# Interwell Prediction Limit - All Results

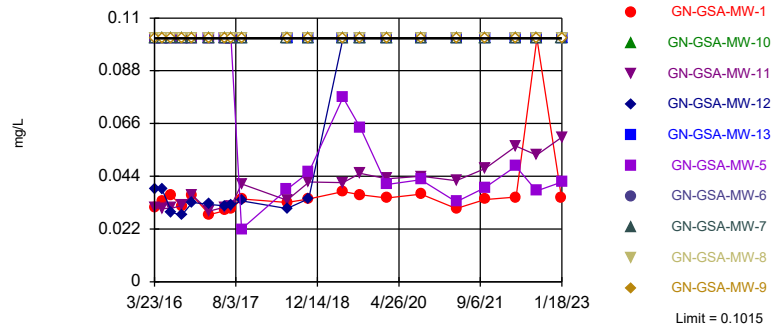
Plant Gaston   Client: Southern Company   Data: Gaston GSA   Printed 3/6/2023, 2:33 PM

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	1/17/2023	0.035J	No	80	n/a	n/a	98.75	n/a	n/a	0.0002971	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-10	0.1015	n/a	1/18/2023	0.1015ND	No	80	n/a	n/a	98.75	n/a	n/a	0.0002971	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-11	0.1015	n/a	1/18/2023	0.0603J	No	80	n/a	n/a	98.75	n/a	n/a	0.0002971	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-12	0.1015	n/a	1/18/2023	0.1015ND	No	80	n/a	n/a	98.75	n/a	n/a	0.0002971	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-13	0.1015	n/a	1/18/2023	0.1015ND	No	80	n/a	n/a	98.75	n/a	n/a	0.0002971	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-5	0.1015	n/a	1/18/2023	0.0416J	No	80	n/a	n/a	98.75	n/a	n/a	0.0002971	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-6	0.1015	n/a	1/18/2023	0.1015ND	No	80	n/a	n/a	98.75	n/a	n/a	0.0002971	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-7	0.1015	n/a	1/17/2023	0.1015ND	No	80	n/a	n/a	98.75	n/a	n/a	0.0002971	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-8	0.1015	n/a	1/18/2023	0.1015ND	No	80	n/a	n/a	98.75	n/a	n/a	0.0002971	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-9	0.1015	n/a	1/18/2023	0.1015ND	No	80	n/a	n/a	98.75	n/a	n/a	0.0002971	NP Inter (NDs) 1 of 2
<b>Fluoride (mg/L)</b>	<b>GN-GSA-MW-1</b>	<b>0.125</b>	<b>n/a</b>	<b>1/17/2023</b>	<b>0.358</b>	<b>Yes</b>	<b>84</b>	<b>n/a</b>	<b>n/a</b>	<b>44.05</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0002728</b>	<b>NP Inter (normality) 1 of 2</b>
Fluoride (mg/L)	GN-GSA-MW-10	0.125	n/a	1/18/2023	0.125ND	No	84	n/a	n/a	44.05	n/a	n/a	0.0002728	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-11	0.125	n/a	1/18/2023	0.125ND	No	84	n/a	n/a	44.05	n/a	n/a	0.0002728	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-12	0.125	n/a	1/18/2023	0.0913J	No	84	n/a	n/a	44.05	n/a	n/a	0.0002728	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-13	0.125	n/a	1/18/2023	0.125ND	No	84	n/a	n/a	44.05	n/a	n/a	0.0002728	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-5	0.125	n/a	1/18/2023	0.125ND	No	84	n/a	n/a	44.05	n/a	n/a	0.0002728	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-6	0.125	n/a	1/18/2023	0.125ND	No	84	n/a	n/a	44.05	n/a	n/a	0.0002728	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-7	0.125	n/a	1/17/2023	0.1J	No	84	n/a	n/a	44.05	n/a	n/a	0.0002728	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-8	0.125	n/a	1/18/2023	0.105J	No	84	n/a	n/a	44.05	n/a	n/a	0.0002728	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-9	0.125	n/a	1/18/2023	0.125ND	No	84	n/a	n/a	44.05	n/a	n/a	0.0002728	NP Inter (normality) 1 of 2
<b>pH (pH)</b>	<b>GN-GSA-MW-1</b>	<b>7.53</b>	<b>5.25</b>	<b>1/17/2023</b>	<b>7.69</b>	<b>Yes</b>	<b>84</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0005457</b>	<b>NP Inter (normality) 1 of 2</b>
pH (pH)	GN-GSA-MW-10	7.53	5.25	1/18/2023	7.08	No	84	n/a	n/a	0	n/a	n/a	0.0005457	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-11	7.53	5.25	1/18/2023	5.77	No	84	n/a	n/a	0	n/a	n/a	0.0005457	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-12	7.53	5.25	1/18/2023	7.11	No	84	n/a	n/a	0	n/a	n/a	0.0005457	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-13	7.53	5.25	1/18/2023	7.13	No	84	n/a	n/a	0	n/a	n/a	0.0005457	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-5	7.53	5.25	1/18/2023	6.38	No	84	n/a	n/a	0	n/a	n/a	0.0005457	NP Inter (normality) 1 of 2
<b>pH (pH)</b>	<b>GN-GSA-MW-6</b>	<b>7.53</b>	<b>5.25</b>	<b>1/18/2023</b>	<b>4.75</b>	<b>Yes</b>	<b>84</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0005457</b>	<b>NP Inter (normality) 1 of 2</b>
pH (pH)	GN-GSA-MW-7	7.53	5.25	1/17/2023	6.78	No	84	n/a	n/a	0	n/a	n/a	0.0005457	NP Inter (normality) 1 of 2
<b>pH (pH)</b>	<b>GN-GSA-MW-8</b>	<b>7.53</b>	<b>5.25</b>	<b>1/18/2023</b>	<b>7.54</b>	<b>Yes</b>	<b>84</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0005457</b>	<b>NP Inter (normality) 1 of 2</b>
pH (pH)	GN-GSA-MW-9	7.53	5.25	1/18/2023	6.71	No	84	n/a	n/a	0	n/a	n/a	0.0005457	NP Inter (normality) 1 of 2

Within Limit

Prediction Limit

Interwell Non-parametric



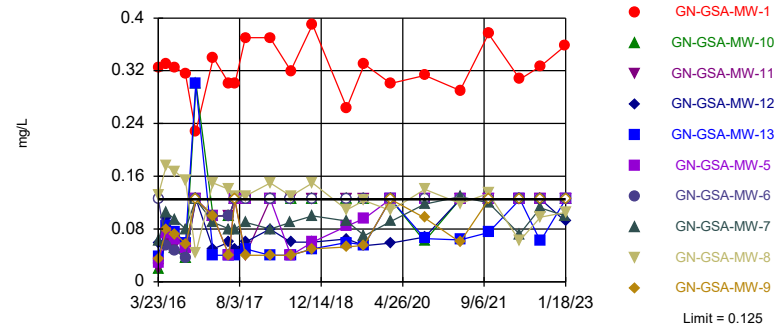
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 80 background values. 98.75% NDs. Annual per-constituent alpha = 0.005926. Individual comparison alpha = 0.0002971 (1 of 2). Comparing 10 points to limit.

Constituent: Boron Analysis Run 3/6/2023 2:31 PM View: Interwell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

Exceeds Limit: GN-GSA-MW-1

Prediction Limit

Interwell Non-parametric



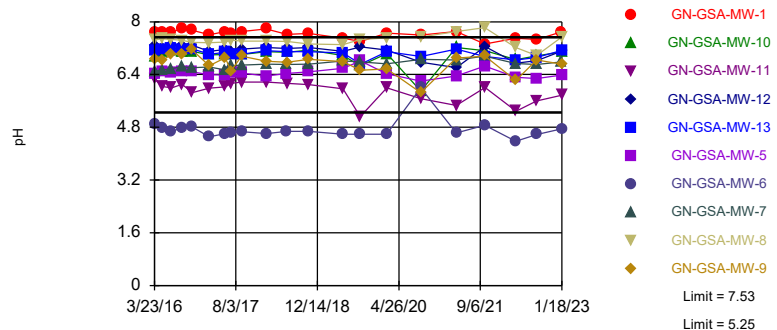
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 84 background values. 44.05% NDs. Annual per-constituent alpha = 0.005442. Individual comparison alpha = 0.0002728 (1 of 2). Comparing 10 points to limit.

Constituent: Fluoride Analysis Run 3/6/2023 2:31 PM View: Interwell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

Exceeds Limits: GN-GSA-MW-1, 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 84 background values. Annual per-constituent alpha = 0.01088. Individual comparison alpha = 0.0005457 (1 of 2). Comparing 10 points to limit.

Constituent: pH Analysis Run 3/6/2023 2:32 PM View: Interwell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/6/2023 2:33 PM View: Interwell PL

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-12	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-9	GN-GSA-MW-1
3/23/2016	0.0387 (J)	<0.1015	<0.1015	0.0309 (J)	<0.1015	<0.1015	<0.1015	<0.1015	
3/24/2016									0.0311 (J)
5/10/2016	0.0384 (J)	<0.1015	<0.1015						0.0334 (J)
5/11/2016				0.0306 (J)	<0.1015	<0.1015	<0.1015	<0.1015	
7/5/2016		<0.1015							0.0359 (J)
7/6/2016	0.029 (J)		<0.1015	0.0307 (J)	<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		0.0316 (J)
9/7/2016			<0.1015	0.0319 (J)				<0.1015	
11/8/2016		<0.1015	<0.1015		<0.1015	<0.1015	<0.1015	<0.1015	0.0361 (J)
11/9/2016	0.0331 (J)			0.0362 (J)					
1/3/2017									
2/20/2017			<0.1015		<0.1015	<0.1015	<0.1015		
2/21/2017	0.0323 (J)	<0.1015		0.0295 (J)				<0.1015	
2/22/2017									0.028 (J)
5/30/2017					<0.1015	<0.1015		<0.1015	
5/31/2017	0.0316 (J)	<0.1015	<0.1015	0.0312 (J)			<0.1015		0.0297 (J)
7/5/2017	0.0318 (J)	<0.1015	<0.1015	0.0315 (J)	<0.1015	<0.1015	<0.1015	<0.1015	0.0302 (J)
9/5/2017		<0.1015	<0.1015						
9/7/2017	0.0338 (J)			0.0408 (J)	0.022 (J)	<0.1015	<0.1015	<0.1015	0.0345 (J)
6/11/2018					0.0386 (J)	<0.1015	<0.1015		
6/12/2018	0.0305 (J)	<0.1015	<0.1015	0.034 (J)				<0.1015	0.0331 (J)
10/22/2018		<0.1015			0.0456 (J)	<0.1015	<0.1015	<0.1015	
10/23/2018	0.0347 (J)		<0.1015						0.0345 (J)
10/24/2018				0.0416 (J)					
5/20/2019		<0.1015			0.0769 (J)	<0.1015	<0.1015		
5/21/2019	<0.1015			0.0413 (J)				<0.1015	0.0376 (J)
5/22/2019			<0.1015						
9/3/2019				0.0452 (J)				<0.1015	
9/4/2019	<0.1015	<0.1015	<0.1015		0.0641 (J)	<0.1015	<0.1015		0.0363 (J)
2/11/2020					0.0406 (J)	<0.1015	<0.1015		
2/12/2020	<0.1015	<0.1015	<0.1015	0.043 (J)				<0.1015	0.0349 (J)
9/8/2020					0.0425 (J)	<0.1015		<0.1015	
9/9/2020	<0.1015	<0.1015	<0.1015	0.044 (J)			<0.1015		0.0366 (J)
4/13/2021	<0.1015	<0.1015	<0.1015	0.0422 (J)	0.0333 (J)	<0.1015	<0.1015	<0.1015	0.0306 (J)
10/4/2021		<0.1015	<0.1015		0.0392 (J)	<0.1015	<0.1015		0.0343 (J)
10/5/2021	<0.1015			0.0472 (J)				<0.1015	
10/6/2021									
4/12/2022		<0.1015	<0.1015		0.0481 (J)	<0.1015	<0.1015	<0.1015	
4/13/2022	<0.1015			0.0565 (J)					0.0353 (J)
8/16/2022		<0.1015	<0.1015		0.0379 (J)	<0.1015	<0.1015		
8/17/2022				0.0528 (J)				<0.1015	
8/18/2022	<0.1015								<0.1015
1/17/2023		<0.1015					<0.1015		0.035 (J)
1/18/2023	<0.1015		<0.1015	0.0603 (J)	0.0416 (J)	<0.1015		<0.1015	

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/6/2023 2:33 PM View: Interwell PL  
Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-10	GN-GSA-MW-8	GN-GSA-MW-13	GN-GSA-MW-14S..GN-GSA-MW-15 ...	
3/23/2016					
3/24/2016	<0.1015	<0.1015	<0.1015		
5/10/2016			<0.1015		
5/11/2016	<0.1015	<0.1015			
7/5/2016				<0.1015	
7/6/2016	<0.1015	<0.1015	<0.1015		<0.1015
8/23/2016				<0.1015	<0.1015
9/6/2016	<0.1015	<0.1015	<0.1015		
9/7/2016				<0.1015	<0.1015
11/8/2016		<0.1015	<0.1015	<0.1015	<0.1015
11/9/2016	<0.1015				
1/3/2017				0.0211 (J)	<0.1015
2/20/2017		<0.1015			<0.1015
2/21/2017	<0.1015			<0.1015	
2/22/2017			<0.1015		
5/30/2017		<0.1015			
5/31/2017	<0.1015		<0.1015	<0.1015	<0.1015
7/5/2017	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
9/5/2017				<0.1015	<0.1015
9/7/2017	<0.1015	<0.1015	<0.1015		
6/11/2018					
6/12/2018	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
10/22/2018		<0.1015			
10/23/2018			<0.1015	<0.1015	<0.1015
10/24/2018	<0.1015				
5/20/2019					
5/21/2019	<0.1015	<0.1015	<0.1015		
5/22/2019				<0.1015	<0.1015
9/3/2019	<0.1015	<0.1015			
9/4/2019			<0.1015	<0.1015	<0.1015
2/11/2020					
2/12/2020	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
9/8/2020	<0.1015				
9/9/2020		<0.1015	<0.1015	<0.1015	<0.1015
4/13/2021	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
10/4/2021		<0.1015	<0.1015	<0.1015	
10/5/2021	<0.1015				
10/6/2021					<0.1015
4/12/2022		<0.1015			<0.1015
4/13/2022	<0.1015		<0.1015	<0.1015	
8/16/2022		<0.1015	<0.1015	<0.1015	<0.1015
8/17/2022	<0.1015				
8/18/2022					
1/17/2023				<0.1015	<0.1015
1/18/2023	<0.1015	<0.1015	<0.1015		



# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/6/2023 2:33 PM View: Interwell PL

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-9	GN-GSA-MW-7	GN-GSA-MW-6	GN-GSA-MW-12	GN-GSA-MW-2 (bg)	GN-GSA-MW-11	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-8
3/23/2016	0.035 (J)	0.063 (J)	<0.125	0.058 (J)	0.022 (J)	0.02 (J)	0.06 (J)	0.028 (J)	
3/24/2016									0.132 (J)
5/10/2016				0.095 (J)	0.068 (J)		0.111 (J)		
5/11/2016	0.08 (J)	0.105 (J)	0.055 (J)			0.063 (J)		0.074 (J)	0.176 (J)
7/5/2016					0.052 (J)				
7/6/2016	0.072 (J)	0.094 (J)	0.047 (J)	0.069 (J)		0.053 (J)	0.089 (J)	0.065 (J)	0.167 (J)
8/23/2016									
9/6/2016		0.08 (J)	0.036 (J)	0.055 (J)	0.038 (J)			0.052 (J)	0.153 (J)
9/7/2016	0.057 (J)					0.041 (J)	0.073 (J)		
11/8/2016	<0.125	<0.125	<0.125		<0.125		<0.125	<0.125	0.043 (J)
11/9/2016				<0.125		<0.125			
1/3/2017									
2/20/2017		0.09 (J)	0.1				0.05 (J)	0.1	0.15
2/21/2017	0.1			0.05 (J)	0.1	0.1			
2/22/2017									
5/30/2017	0.04 (J)		0.1					0.04 (J)	0.14
5/31/2017		0.08 (J)		0.06 (J)	0.1	0.1	0.06 (J)		
7/5/2017	<0.125	0.08 (J)	<0.125	0.05 (J)	<0.125	<0.125	0.05 (J)	<0.125	0.13
9/5/2017					<0.125		0.06 (J)		
9/7/2017	0.04 (J)	0.09 (J)	<0.125	0.06 (J)		0.04 (J)		<0.125	0.13
2/5/2018				0.08 (J)	0.04 (J)				
2/6/2018	0.04 (J)	0.08 (J)	<0.125				0.06 (J)	<0.125	0.15
2/7/2018									
6/11/2018		0.09 (J)	<0.125					0.04 (J)	
6/12/2018	0.04 (J)			0.06 (J)	<0.125	<0.125	0.05 (J)		0.13
10/22/2018	0.05 (J)	0.1	<0.125		<0.125			0.06 (J)	0.15
10/23/2018				0.06 (J)			0.05 (J)		
10/24/2018						<0.125			
5/20/2019		0.0919 (J)	<0.125		<0.125			0.0842 (J)	
5/21/2019	0.0526 (J)			0.0649 (J)		<0.125			0.109
5/22/2019							0.0515 (J)		
9/3/2019	0.0554 (J)					<0.125			0.123
9/4/2019		0.07 (J)	<0.125	0.0547 (J)	<0.125		0.0594 (J)	0.0962 (J)	
2/11/2020		0.0912 (J)	<0.125					<0.125	
2/12/2020	<0.125			0.0586 (J)	<0.125	<0.125	0.0566 (J)		0.108
9/8/2020	0.097 (J)		<0.125					<0.125	
9/9/2020		0.118		0.068 (J)	0.0644 (J)	<0.125	0.0748 (J)		0.14
4/13/2021	0.0602 (J)	0.129	<0.125	<0.125	<0.125	<0.125	0.069 (J)	<0.125	0.119
10/4/2021		0.12	<0.125		0.0664 (J)		0.0637 (J)	<0.125	0.134
10/5/2021	<0.125			<0.125		<0.125			
10/6/2021									
4/12/2022	<0.125	0.0724 (J)	<0.125			<0.125	<0.125	<0.125	0.0621 (J)
4/13/2022				<0.125		<0.125			
8/16/2022		0.112 (J)	<0.125		0.0865 (J)		<0.125	<0.125	0.0979 (J)
8/17/2022	<0.125					<0.125			
8/18/2022				<0.125					
1/17/2023		0.1 (J)			<0.125				
1/18/2023	<0.125		<0.125	0.0913 (J)		<0.125	0.0687 (J)	<0.125	0.105 (J)

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/6/2023 2:33 PM View: Interwell PL  
 Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-13	GN-GSA-MW-10	GN-GSA-MW-14S..GN-GSA-MW-15 ...	
3/23/2016					
3/24/2016	0.325	0.039 (J)	0.02 (J)		
5/10/2016	0.33	0.085 (J)			
5/11/2016			0.062 (J)		
7/5/2016	0.325			0.072 (J)	
7/6/2016		0.075 (J)	0.051 (J)		0.062 (J)
8/23/2016				0.066 (J)	0.045 (J)
9/6/2016	0.315	0.058 (J)	0.037 (J)		
9/7/2016				0.062 (J)	0.042 (J)
11/8/2016	0.227 (J)	0.3 (U)		<0.125	<0.125
11/9/2016			0.3 (U)		
1/3/2017				<0.125	<0.125
2/20/2017					0.1
2/21/2017			0.1	0.1	
2/22/2017	0.34	0.04 (J)			
5/30/2017					
5/31/2017	0.3	0.04 (J)	0.1	0.06 (J)	0.1
7/5/2017	0.3	0.04 (J)	<0.125	0.04 (J)	<0.125
9/5/2017				0.06 (J)	<0.125
9/7/2017	0.37	0.05 (J)	<0.125		
2/5/2018	0.37	0.04 (J)			
2/6/2018			<0.125	0.06 (J)	
2/7/2018					<0.125
6/11/2018					
6/12/2018	0.32	0.04 (J)	<0.125	0.05 (J)	<0.125
10/22/2018					
10/23/2018	0.39	0.05 (J)		0.07 (J)	<0.125
10/24/2018			<0.125		
5/20/2019					
5/21/2019	0.264	0.0595 (J)	<0.125		
5/22/2019				0.0601 (J)	<0.125
9/3/2019			<0.125		
9/4/2019	0.33	0.0555 (J)		0.0703 (J)	<0.125
2/11/2020					
2/12/2020	0.301	<0.125	<0.125	<0.125	<0.125
9/8/2020			0.0617 (J)		
9/9/2020	0.313	0.0655 (J)		0.0847 (J)	<0.125
4/13/2021	0.29	0.0633 (J)	<0.125	<0.125	<0.125
10/4/2021	0.376	0.0748 (J)		0.0838 (J)	
10/5/2021			<0.125		
10/6/2021					<0.125
4/12/2022					<0.125
4/13/2022	0.307	<0.125	<0.125	<0.125	
8/16/2022		0.0614 (J)		<0.125	<0.125
8/17/2022			<0.125		
8/18/2022	0.327				
1/17/2023	0.358			<0.125	<0.125
1/18/2023		<0.125	<0.125		

# Prediction Limit

Constituent: pH (pH) Analysis Run 3/6/2023 2:33 PM View: Interwell PL

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-9	GN-GSA-MW-7	GN-GSA-MW-6	GN-GSA-MW-12	GN-GSA-MW-2 (bg)	GN-GSA-MW-11	GN-GSA-MW-3 (bg)	GN-GSA-MW-5	GN-GSA-MW-8
3/23/2016	6.88	6.5	4.91	7.28	7.18	6.26	6.83	6.41	
3/24/2016									7.45
5/10/2016				7.19	7.2		6.84		
5/11/2016	6.84	6.54	4.79			6.04		6.5	7.48
7/5/2016					7.15				
7/6/2016	7.01	6.58	4.66	7.29		6	6.94	6.47	7.46
8/23/2016									
9/6/2016		6.64	4.8	7.29	7.17			6.51	7.44
9/7/2016	7.03					6.1	6.84		
11/8/2016	7.15	6.61	4.81		7.12		6.84	6.48	7.37
11/9/2016				7.29		5.85			
1/3/2017									
2/20/2017		6.63	4.51				7.04	6.39	7.36
2/21/2017	6.67			7.1	7.12	5.99			
2/22/2017									
5/30/2017	6.91		4.61					6.38	7.38
5/31/2017		6.54		7.16	7.17	6.03	6.91		
7/5/2017	6.51	6.67	4.64	7.08	7.18	6.13	7.02	6.44	7.44
9/5/2017					7.17		6.78		
9/7/2017	6.96	6.69	4.67	7.17		6.17		6.44	7.41
2/5/2018				7.22	7.12				
2/6/2018	6.8	6.71	4.61			6.17	6.96	6.36	7.41
2/7/2018									
6/11/2018		6.7	4.68					6.43	
6/12/2018	6.77			7.19	7.19	6.13	6.76		7.4
10/22/2018	6.86	6.71	4.68		7.06			6.48	7.33
10/23/2018				7.22			6.59		
10/24/2018						6.09			
5/20/2019		6.81	4.59		7.13			6.59	
5/21/2019	6.79			7.1		5.97			7.31
5/22/2019							6.38		
9/3/2019	6.53					5.12			7.46
9/4/2019		6.78	4.59	7.24	7.16		6.71	6.81	
2/11/2020		6.72	4.59					6.42	
2/12/2020	6.57			7.14	7.11	6	6.98		7.51
9/8/2020	5.85		6					6.2	
9/9/2020		6.86		6.77	7.22	5.67	6.48		7.54
4/13/2021	6.9	6.84	4.63	6.61	6.94	5.46	6.71	6.36	7.7
10/4/2021		6.96	4.86		7.13		6.43	6.66	7.82
10/5/2021	6.96			7.25		6.01			
10/6/2021									
4/12/2022	6.22	6.73	4.38		6.48		5.57	6.32	7.22
4/13/2022				6.74		5.29			
8/16/2022		6.7	4.58		7.04		6.25	6.28	6.98
8/17/2022	6.84					5.6			
8/18/2022				6.82					
1/17/2023		6.78			7.14				
1/18/2023	6.71		4.75	7.11		5.77	6.99	6.38	7.54

# Prediction Limit

Constituent: pH (pH) Analysis Run 3/6/2023 2:33 PM View: Interwell PL  
 Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-13	GN-GSA-MW-10	GN-GSA-MW-14S..GN-GSA-MW-15 ...	
3/23/2016					
3/24/2016	7.7	7.14	6.95		
5/10/2016	7.67	7.17			
5/11/2016			7.07		
7/5/2016	7.68			7.44	
7/6/2016		7.19	7.13		6.1
8/23/2016				7.47	5.87
9/6/2016	7.8	7.18	7.1		
9/7/2016				7.51	5.92
11/8/2016	7.74	7.18		7.37	5.91
11/9/2016			7.1		
1/3/2017				7.37	5.93
2/20/2017					5.91
2/21/2017			7	7.41	
2/22/2017	7.61	7.02			
5/30/2017					
5/31/2017	7.7	7.07	7.01	7.47	6
7/5/2017	7.66	7	7.07	7.5	6
9/5/2017				7.39	5.9
9/7/2017	7.7	7.02	7.01		
2/5/2018	7.78	7.12			
2/6/2018			7.09	7.47	
2/7/2018					5.86
6/11/2018					
6/12/2018	7.62	7.09	7.07	7.53	6.05
10/22/2018					
10/23/2018	7.65	7.09		7.4	5.84
10/24/2018			7.14		
5/20/2019					
5/21/2019	7.5	7.05	6.98		
5/22/2019				7.43	5.81
9/3/2019			6.67		
9/4/2019	7.4	6.71		7.45	5.67
2/11/2020					
2/12/2020	7.66	7.09	7.03	7.47	5.72
9/8/2020			5.9		
9/9/2020	7.6	6.95		7.32	5.71
4/13/2021	7.7	7.17	7.22	7.33	5.84
10/4/2021	7.33	6.95		7.21	
10/5/2021			7.12		
10/6/2021					5.64
4/12/2022					5.25
4/13/2022	7.5	6.84	6.85	7.4	
8/16/2022		6.92		6.96	5.37
8/17/2022			6.97		
8/18/2022	7.46				
1/17/2023	7.69			7.43	5.74
1/18/2023		7.13	7.08		

FIGURE F.

# Appendix III Trend Test - Prediction Limit Exceedances - Significant Results

Plant Gaston    Client: Southern Company    Data: Gaston GSA    Printed 3/7/2023, 5:42 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Calcium (mg/L)	GN-GSA-MW-15 (bg)	-0.7405	-152	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-GSA-MW-3 (bg)	-8.548	-132	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-GSA-MW-5	6.434	148	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-GSA-MW-11	1.773	148	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-GSA-MW-14S (bg)	-0.3771	-127	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-15 (bg)	-0.05861	-129	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-GSA-MW-14S (bg)	-1.24	-122	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-GSA-MW-15 (bg)	-0.2614	-92	-81	Yes	20	5	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-GSA-MW-3 (bg)	-2.439	-170	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-GSA-MW-5	20.07	146	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-GSA-MW-8	0.482	120	81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-GSA-MW-14S (bg)	-3.286	-89	-81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-GSA-MW-15 (bg)	-3.336	-116	-81	Yes	20	5	n/a	n/a	0.01	NP
TDS (mg/L)	GN-GSA-MW-3 (bg)	-27.16	-150	-81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-GSA-MW-5	35.12	135	81	Yes	20	0	n/a	n/a	0.01	NP

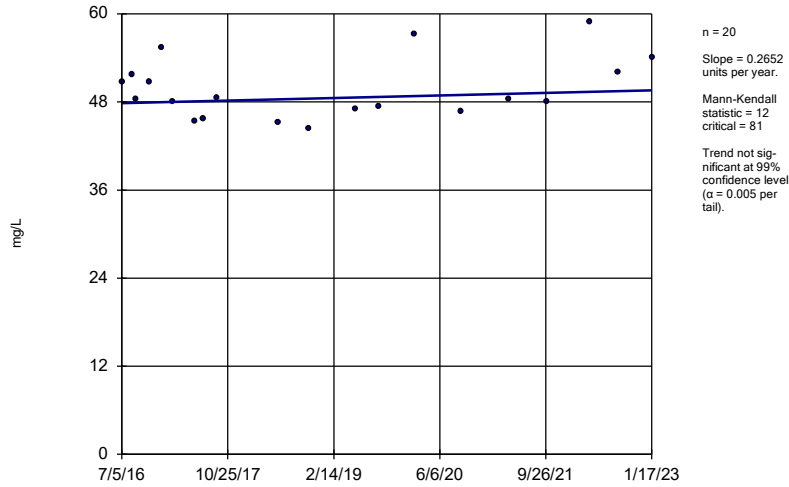
# Appendix III Trend Test - Prediction Limit Exceedances - All Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 3/7/2023, 5:42 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	GN-GSA-MW-14S (bg)	0.2652	12	81	No	20	0	n/a	n/a	0.01	NP
<b>Calcium (mg/L)</b>	<b>GN-GSA-MW-15 (bg)</b>	<b>-0.7405</b>	<b>-152</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium (mg/L)	GN-GSA-MW-2 (bg)	1.467	71	81	No	20	0	n/a	n/a	0.01	NP
<b>Calcium (mg/L)</b>	<b>GN-GSA-MW-3 (bg)</b>	<b>-8.548</b>	<b>-132</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GN-GSA-MW-5</b>	<b>6.434</b>	<b>148</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride (mg/L)</b>	<b>GN-GSA-MW-11</b>	<b>1.773</b>	<b>148</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	GN-GSA-MW-12	0.1162	28	81	No	20	5	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>GN-GSA-MW-14S (bg)</b>	<b>-0.3771</b>	<b>-127</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	GN-GSA-MW-15 (bg)	-0.2401	-80	-81	No	20	5	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-GSA-MW-2 (bg)	0.02787	25	81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-GSA-MW-3 (bg)	-0.06671	-75	-81	No	20	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-1	0.0009102	12	87	No	21	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-14S (bg)	0.004769	58	87	No	21	33.33	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-15 (bg)	0	75	87	No	21	76.19	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-2 (bg)	0.002307	60	87	No	21	52.38	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-3 (bg)	0	-1	-87	No	21	14.29	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-1	-0.03107	-82	-87	No	21	0	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-14S (bg)	-0.01401	-57	-87	No	21	0	n/a	n/a	0.01	NP
<b>pH (pH)</b>	<b>GN-GSA-MW-15 (bg)</b>	<b>-0.05861</b>	<b>-129</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH (pH)	GN-GSA-MW-2 (bg)	-0.0134	-70	-87	No	21	0	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-3 (bg)	-0.07709	-76	-87	No	21	0	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-6	-0.0166	-45	-87	No	21	0	n/a	n/a	0.01	NP
pH (pH)	GN-GSA-MW-8	0.004793	6	87	No	21	0	n/a	n/a	0.01	NP
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-14S (bg)</b>	<b>-1.24</b>	<b>-122</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-15 (bg)</b>	<b>-0.2614</b>	<b>-92</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>5</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate (mg/L)	GN-GSA-MW-2 (bg)	0.1806	34	81	No	20	0	n/a	n/a	0.01	NP
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-3 (bg)</b>	<b>-2.439</b>	<b>-170</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-5</b>	<b>20.07</b>	<b>146</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-8</b>	<b>0.482</b>	<b>120</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>TDS (mg/L)</b>	<b>GN-GSA-MW-14S (bg)</b>	<b>-3.286</b>	<b>-89</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>TDS (mg/L)</b>	<b>GN-GSA-MW-15 (bg)</b>	<b>-3.336</b>	<b>-116</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>5</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
TDS (mg/L)	GN-GSA-MW-2 (bg)	-1.855	-58	-81	No	20	0	n/a	n/a	0.01	NP
<b>TDS (mg/L)</b>	<b>GN-GSA-MW-3 (bg)</b>	<b>-27.16</b>	<b>-150</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>TDS (mg/L)</b>	<b>GN-GSA-MW-5</b>	<b>35.12</b>	<b>135</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>

### Sen's Slope Estimator

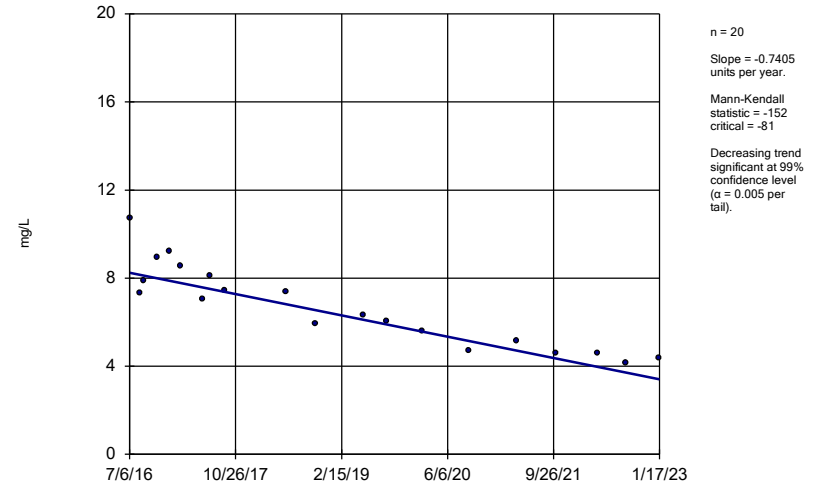
GN-GSA-MW-14S (bg)



Constituent: Calcium Analysis Run 3/7/2023 5:41 PM View: A3 Trend Test  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

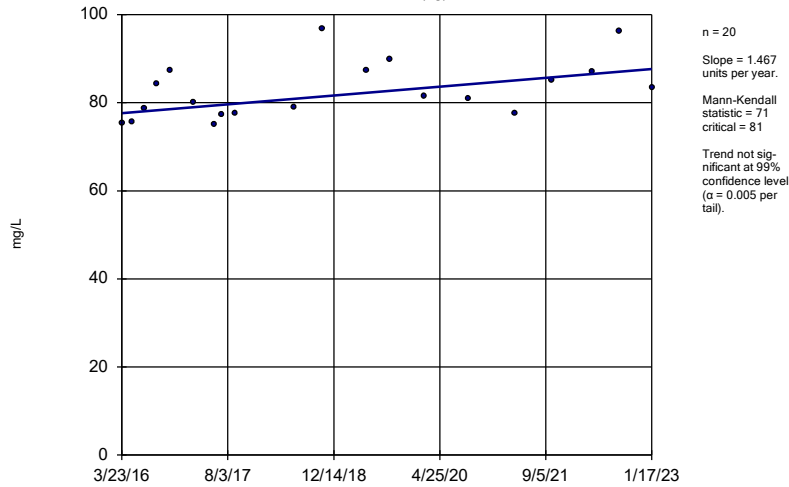
GN-GSA-MW-15 (bg)



Constituent: Calcium Analysis Run 3/7/2023 5:41 PM View: A3 Trend Test  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

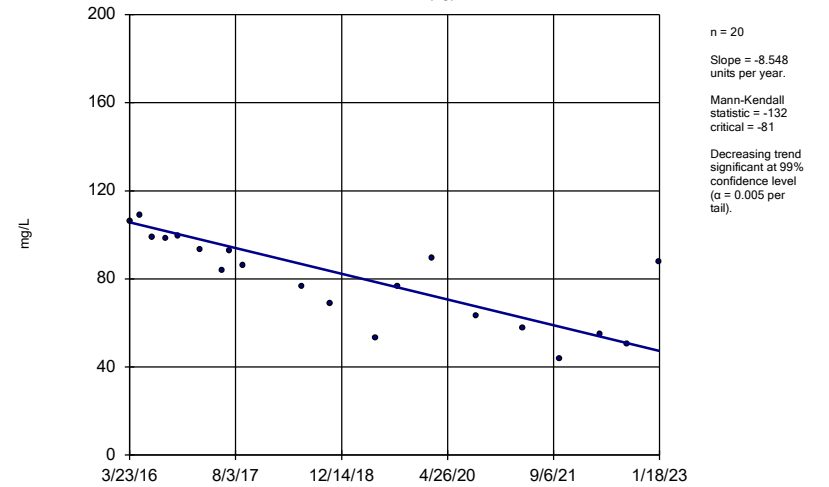
GN-GSA-MW-2 (bg)



Constituent: Calcium Analysis Run 3/7/2023 5:41 PM View: A3 Trend Test  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

GN-GSA-MW-3 (bg)

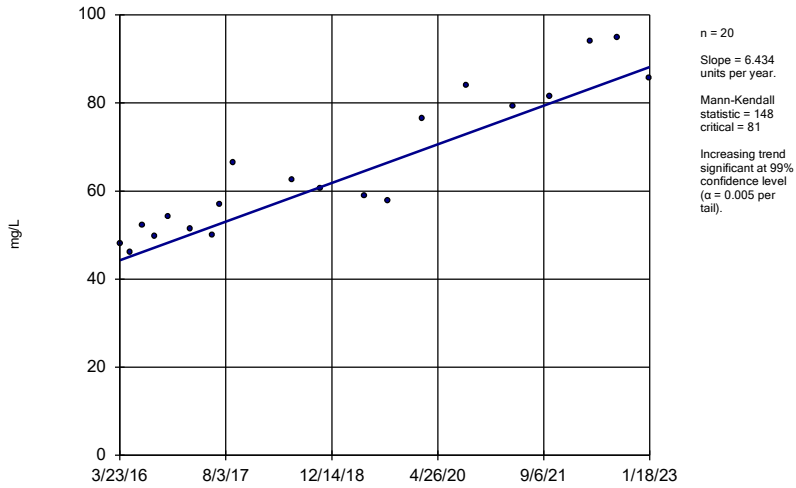


Constituent: Calcium Analysis Run 3/7/2023 5:41 PM View: A3 Trend Test  
Plant Gaston Client: Southern Company Data: Gaston GSA



### Sen's Slope Estimator

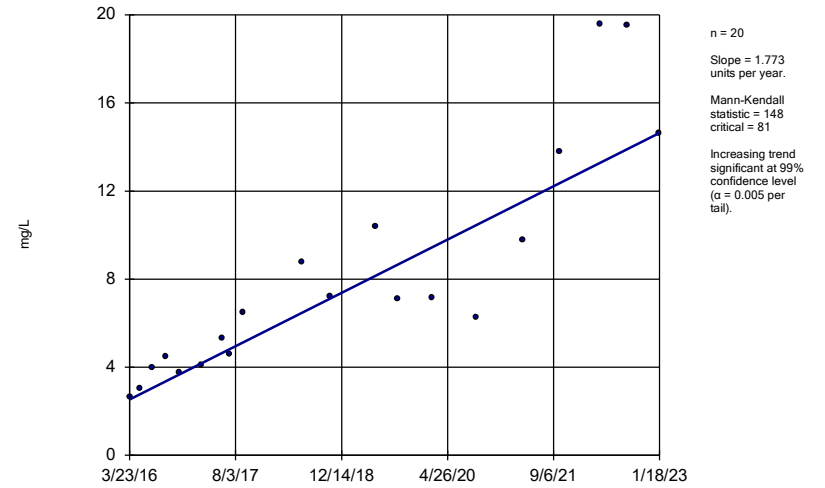
GN-GSA-MW-5



Constituent: Calcium Analysis Run 3/7/2023 5:41 PM View: A3 Trend Test  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

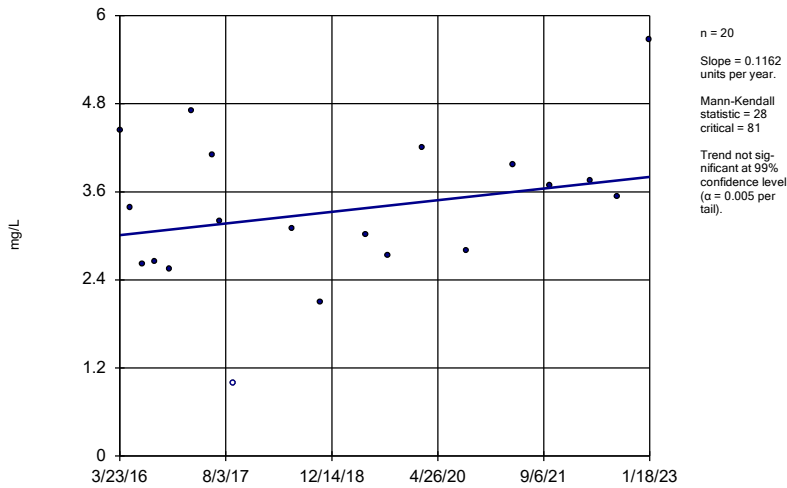
GN-GSA-MW-11



Constituent: Chloride Analysis Run 3/7/2023 5:41 PM View: A3 Trend Test  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

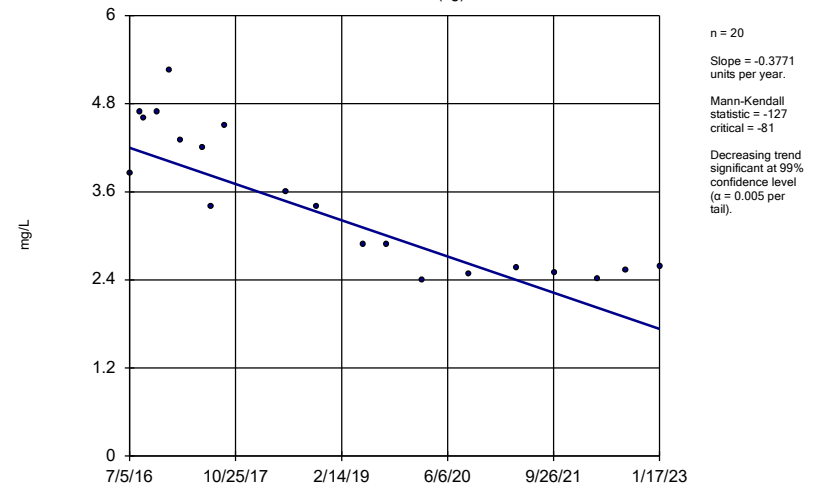
GN-GSA-MW-12



Constituent: Chloride Analysis Run 3/7/2023 5:41 PM View: A3 Trend Test  
Plant Gaston Client: Southern Company Data: Gaston GSA

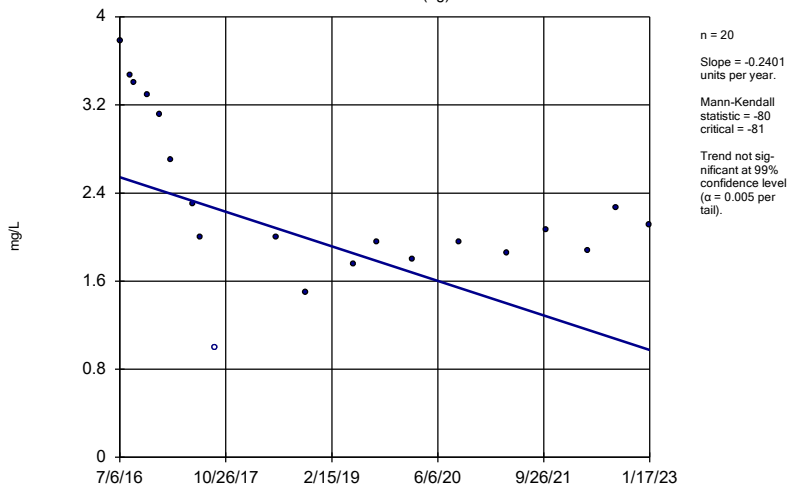
### Sen's Slope Estimator

GN-GSA-MW-14S (bg)



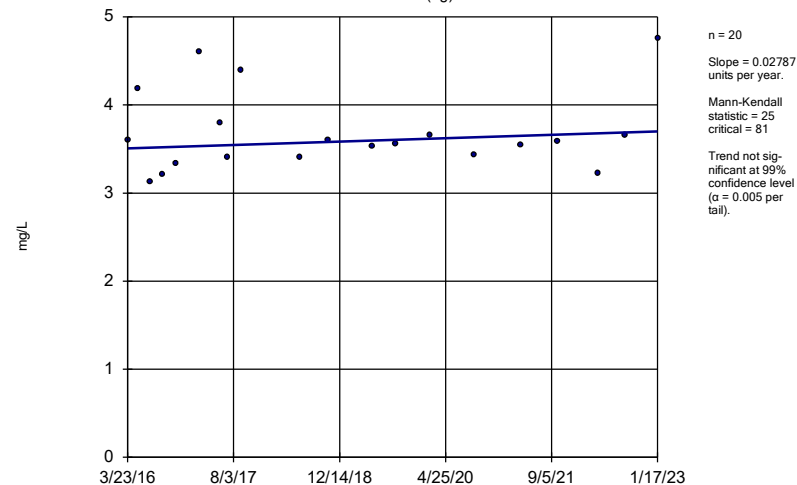
Constituent: Chloride Analysis Run 3/7/2023 5:41 PM View: A3 Trend Test  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator GN-GSA-MW-15 (bg)



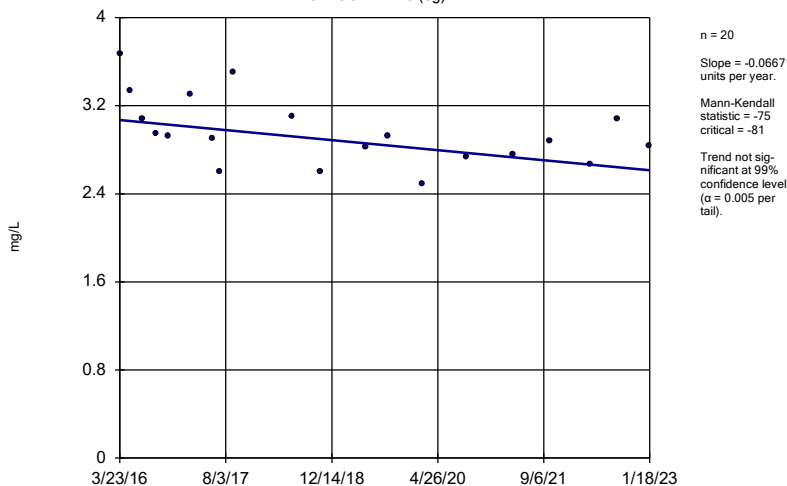
Constituent: Chloride Analysis Run 3/7/2023 5:41 PM View: A3 Trend Test  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator GN-GSA-MW-2 (bg)



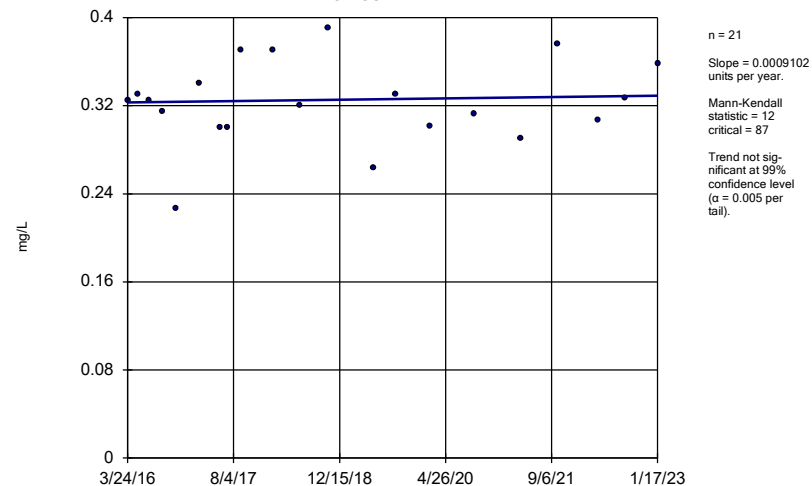
Constituent: Chloride Analysis Run 3/7/2023 5:41 PM View: A3 Trend Test  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator GN-GSA-MW-3 (bg)



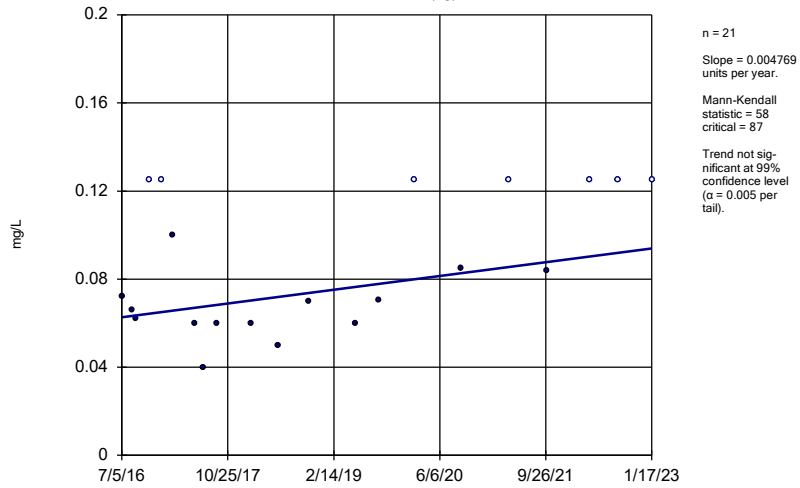
Constituent: Chloride Analysis Run 3/7/2023 5:41 PM View: A3 Trend Test  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator GN-GSA-MW-1



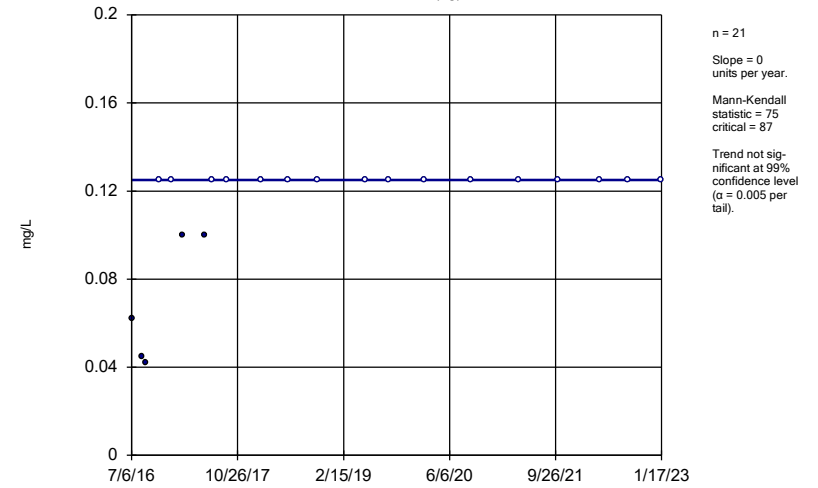
Constituent: Fluoride Analysis Run 3/7/2023 5:41 PM View: A3 Trend Test  
Plant Gaston Client: Southern Company Data: Gaston GSA

Sen's Slope Estimator  
 GN-GSA-MW-14S (bg)



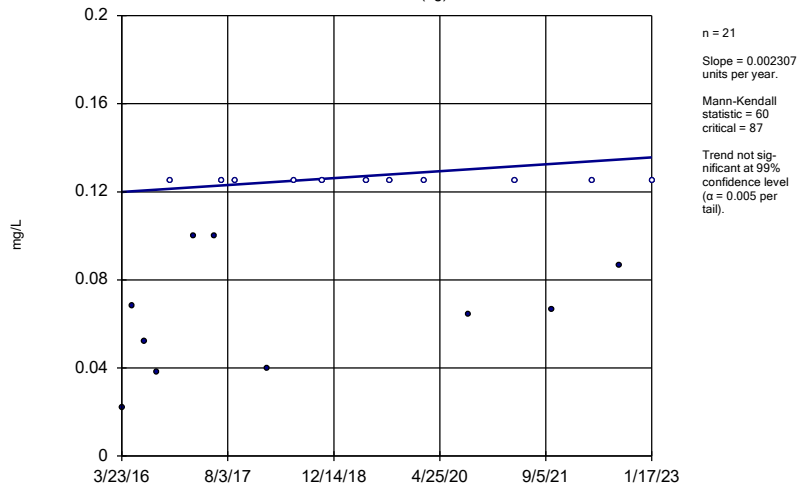
Constituent: Fluoride Analysis Run 3/7/2023 5:41 PM View: A3 Trend Test  
 Plant Gaston Client: Southern Company Data: Gaston GSA

Sen's Slope Estimator  
 GN-GSA-MW-15 (bg)



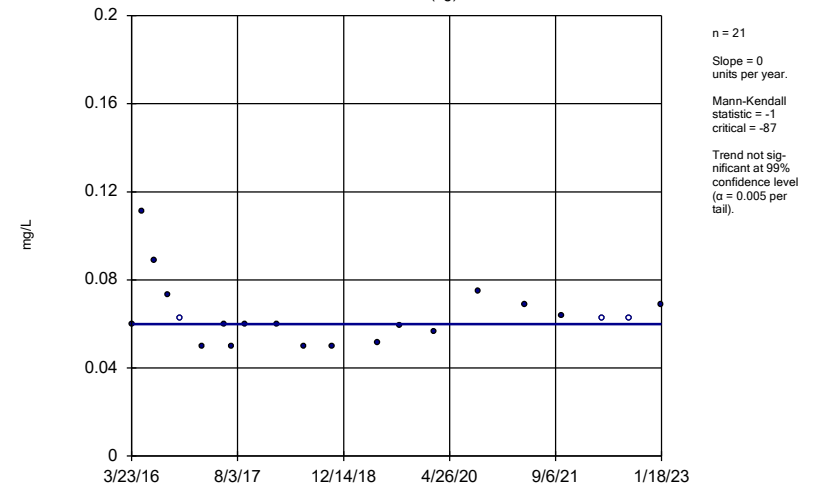
Constituent: Fluoride Analysis Run 3/7/2023 5:41 PM View: A3 Trend Test  
 Plant Gaston Client: Southern Company Data: Gaston GSA

Sen's Slope Estimator  
 GN-GSA-MW-2 (bg)



Constituent: Fluoride Analysis Run 3/7/2023 5:41 PM View: A3 Trend Test  
 Plant Gaston Client: Southern Company Data: Gaston GSA

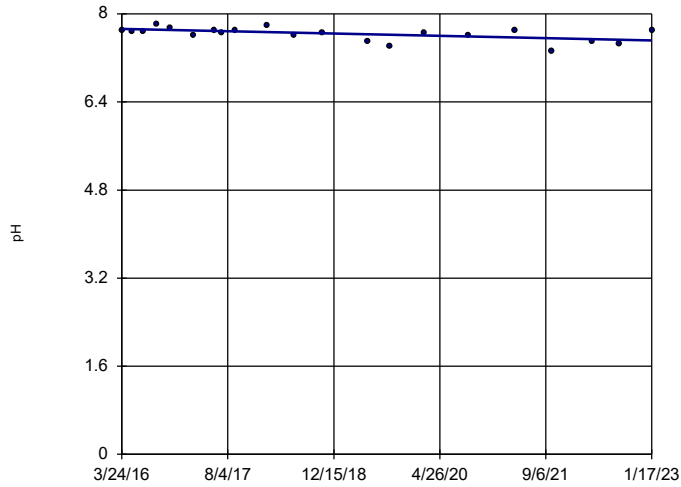
Sen's Slope Estimator  
 GN-GSA-MW-3 (bg)



Constituent: Fluoride Analysis Run 3/7/2023 5:41 PM View: A3 Trend Test  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

GN-GSA-MW-1

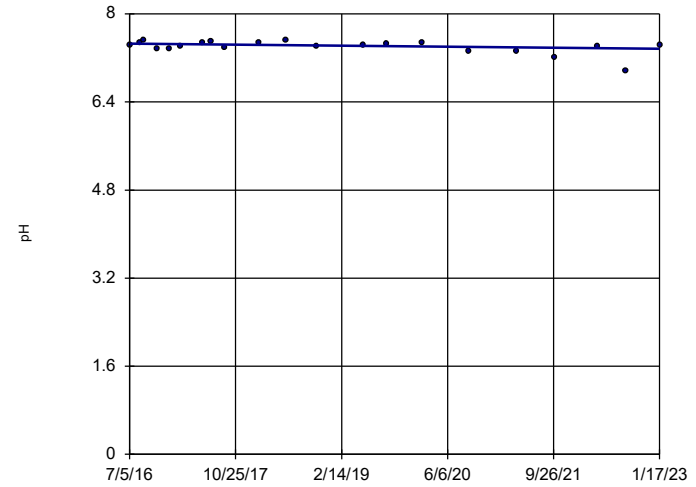


n = 21  
 Slope = -0.03107  
 units per year.  
 Mann-Kendall  
 statistic = -82  
 critical = -87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH Analysis Run 3/7/2023 5:41 PM View: A3 Trend Test  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

GN-GSA-MW-14S (bg)

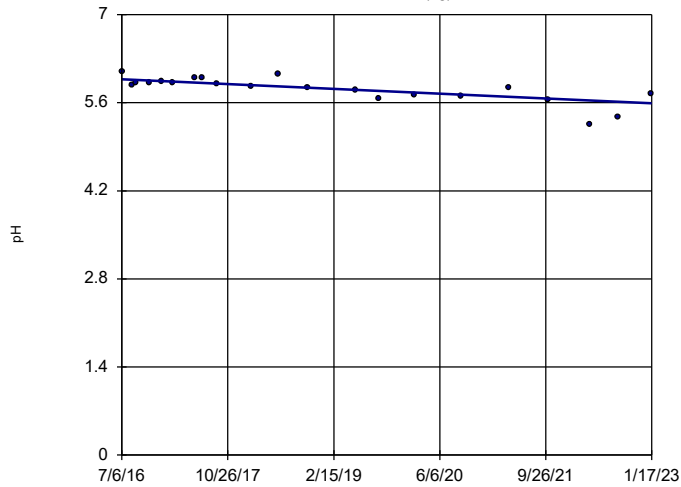


n = 21  
 Slope = -0.01401  
 units per year.  
 Mann-Kendall  
 statistic = -57  
 critical = -87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH Analysis Run 3/7/2023 5:41 PM View: A3 Trend Test  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

GN-GSA-MW-15 (bg)

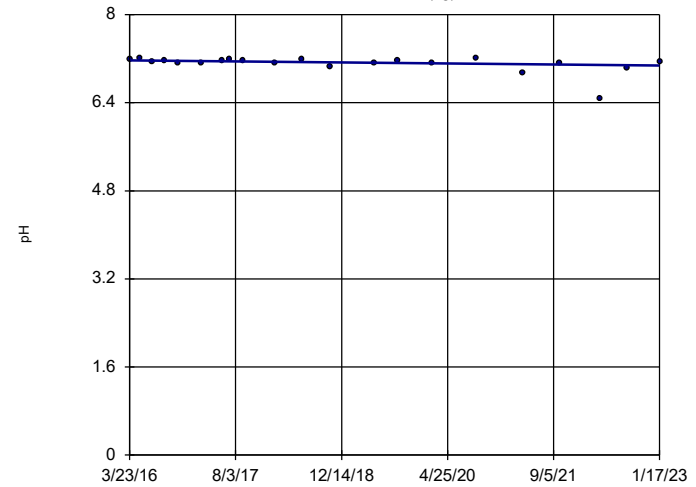


n = 21  
 Slope = -0.05861  
 units per year.  
 Mann-Kendall  
 statistic = -129  
 critical = -87  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH Analysis Run 3/7/2023 5:41 PM View: A3 Trend Test  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

GN-GSA-MW-2 (bg)

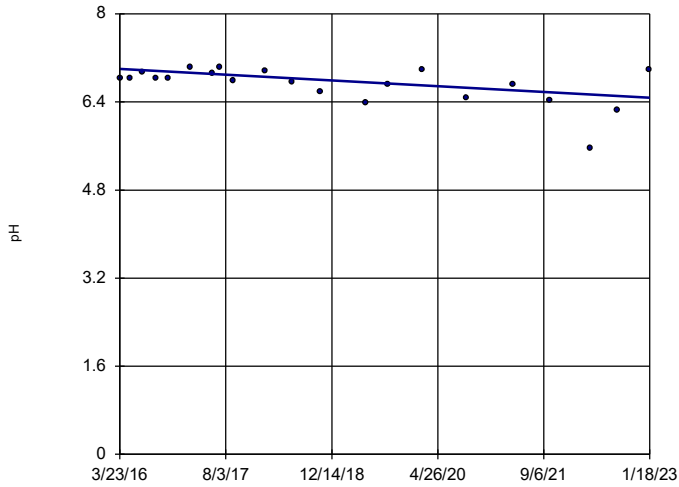


n = 21  
 Slope = -0.0134  
 units per year.  
 Mann-Kendall  
 statistic = -70  
 critical = -87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH Analysis Run 3/7/2023 5:41 PM View: A3 Trend Test  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

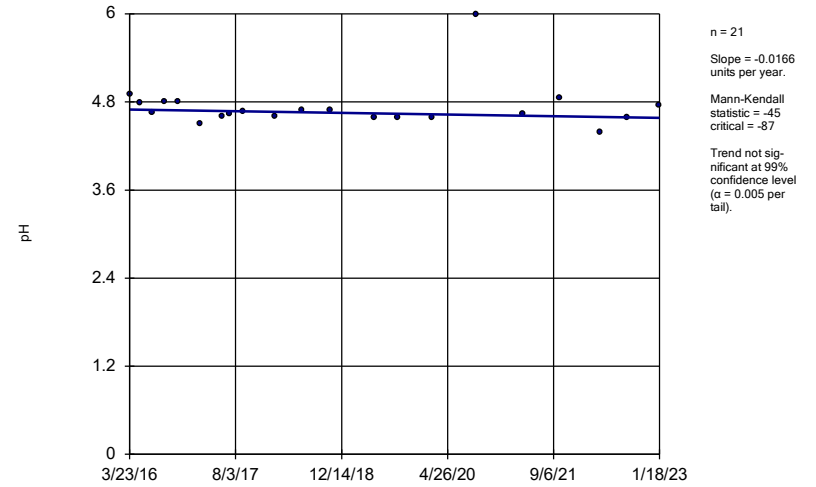
GN-GSA-MW-3 (bg)



Constituent: pH Analysis Run 3/7/2023 5:41 PM View: A3 Trend Test  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

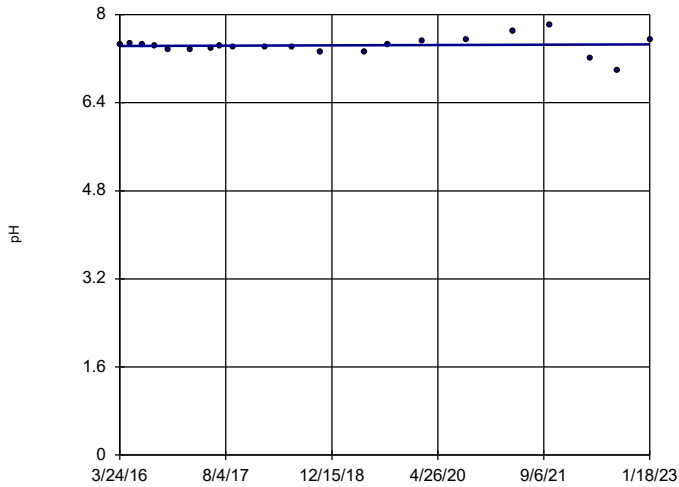
GN-GSA-MW-6



Constituent: pH Analysis Run 3/7/2023 5:41 PM View: A3 Trend Test  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

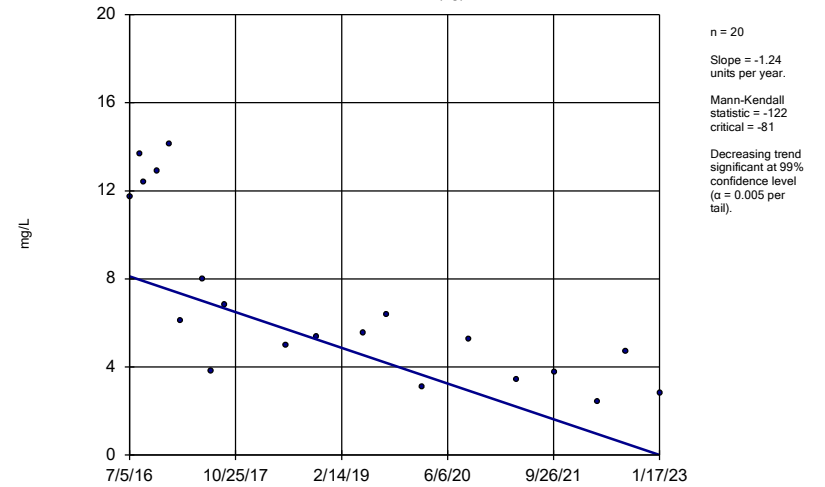
GN-GSA-MW-8



Constituent: pH Analysis Run 3/7/2023 5:41 PM View: A3 Trend Test  
Plant Gaston Client: Southern Company Data: Gaston GSA

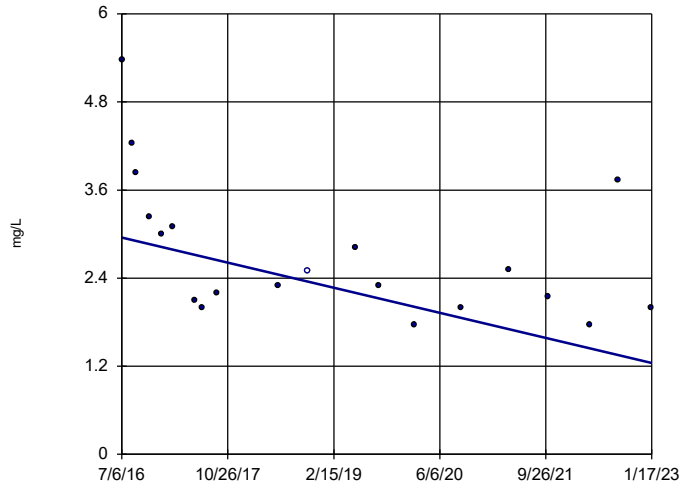
### Sen's Slope Estimator

GN-GSA-MW-14S (bg)



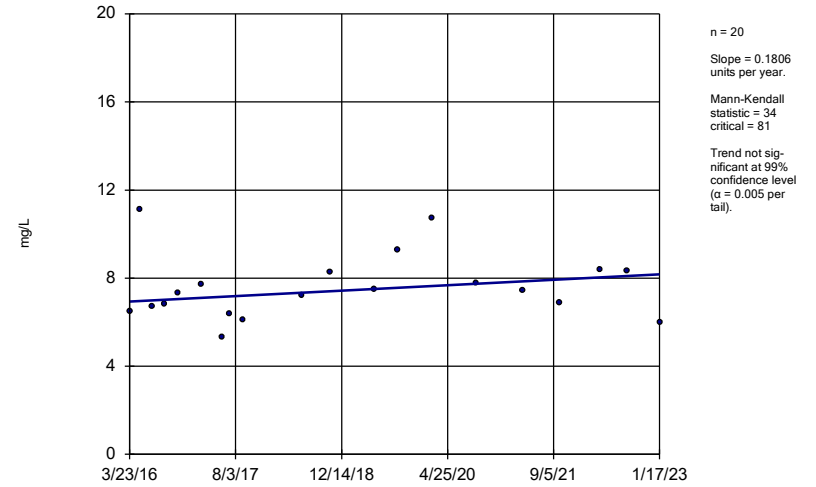
Constituent: Sulfate Analysis Run 3/7/2023 5:41 PM View: A3 Trend Test  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator GN-GSA-MW-15 (bg)



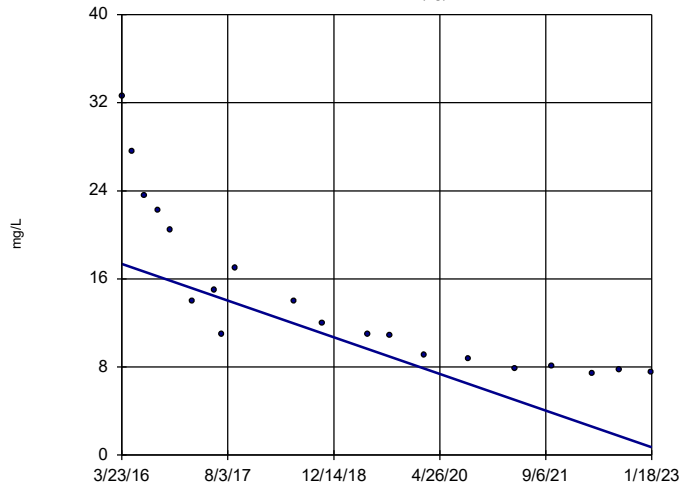
Constituent: Sulfate Analysis Run 3/7/2023 5:41 PM View: A3 Trend Test  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator GN-GSA-MW-2 (bg)



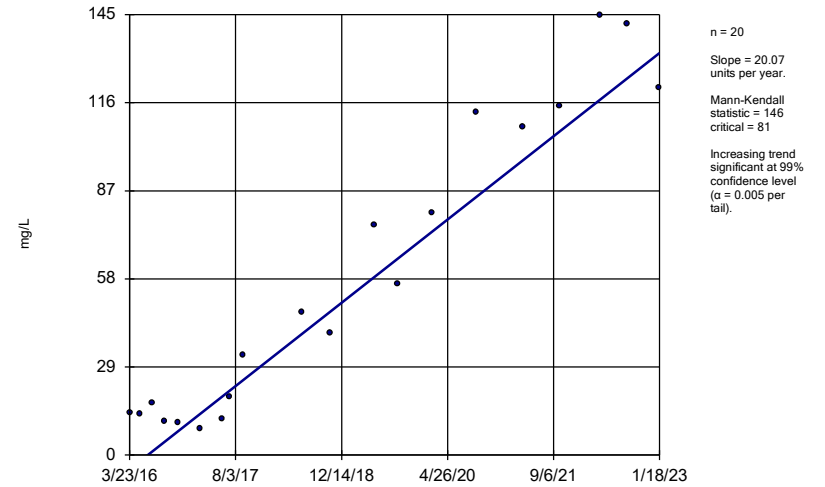
Constituent: Sulfate Analysis Run 3/7/2023 5:41 PM View: A3 Trend Test  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator GN-GSA-MW-3 (bg)



Constituent: Sulfate Analysis Run 3/7/2023 5:41 PM View: A3 Trend Test  
Plant Gaston Client: Southern Company Data: Gaston GSA

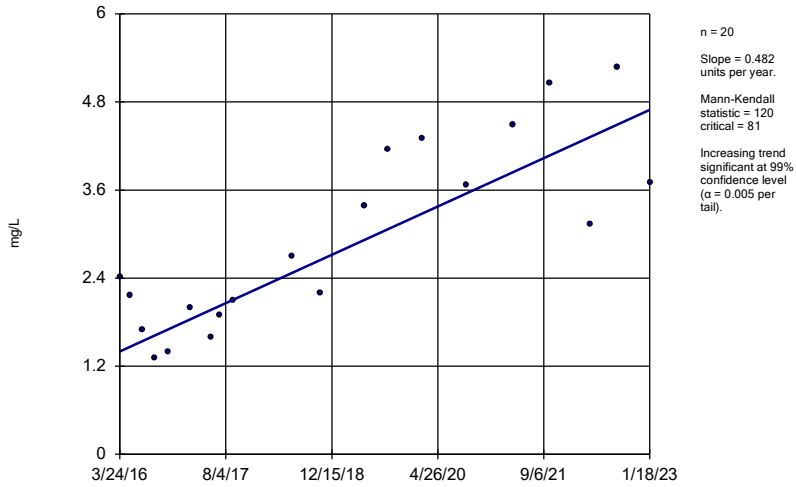
### Sen's Slope Estimator GN-GSA-MW-5



Constituent: Sulfate Analysis Run 3/7/2023 5:41 PM View: A3 Trend Test  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

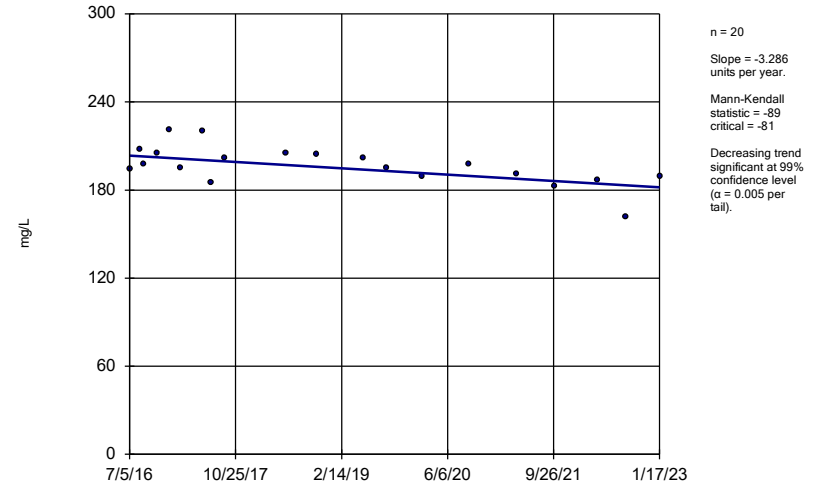
GN-GSA-MW-8



Constituent: Sulfate Analysis Run 3/7/2023 5:41 PM View: A3 Trend Test  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

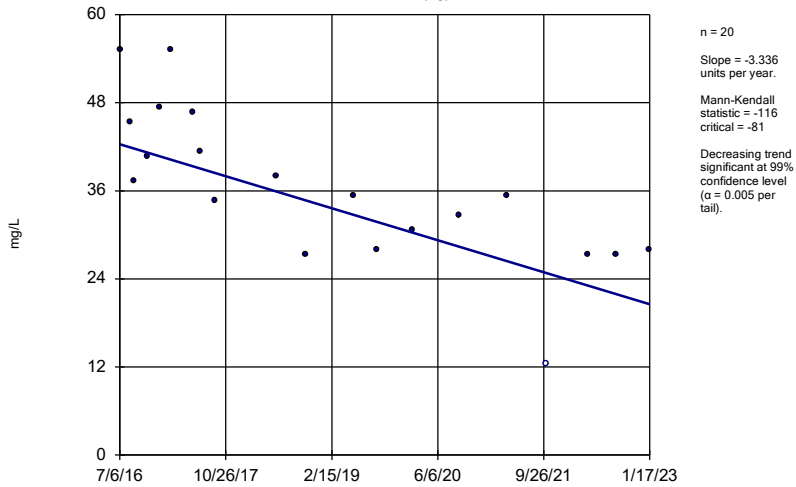
GN-GSA-MW-14S (bg)



Constituent: TDS Analysis Run 3/7/2023 5:41 PM View: A3 Trend Test  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

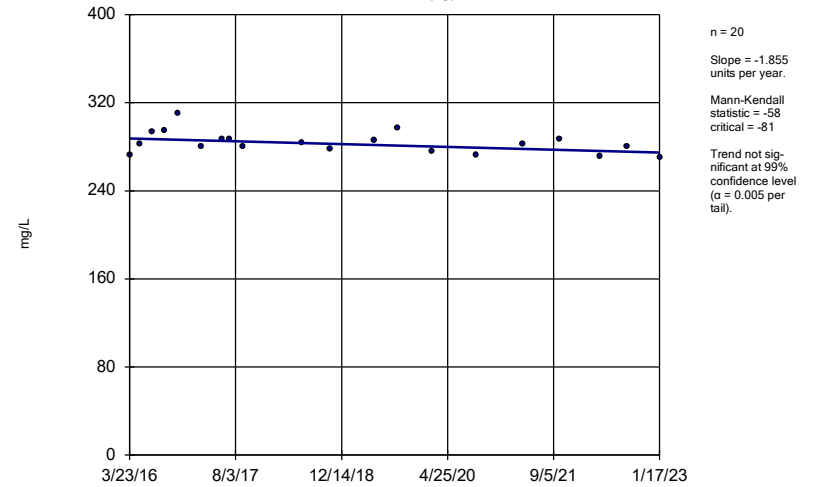
GN-GSA-MW-15 (bg)



Constituent: TDS Analysis Run 3/7/2023 5:41 PM View: A3 Trend Test  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

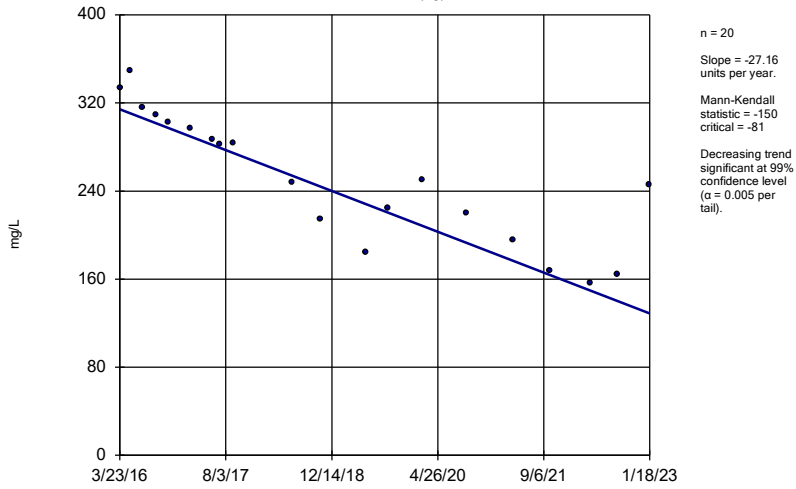
GN-GSA-MW-2 (bg)



Constituent: TDS Analysis Run 3/7/2023 5:41 PM View: A3 Trend Test  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

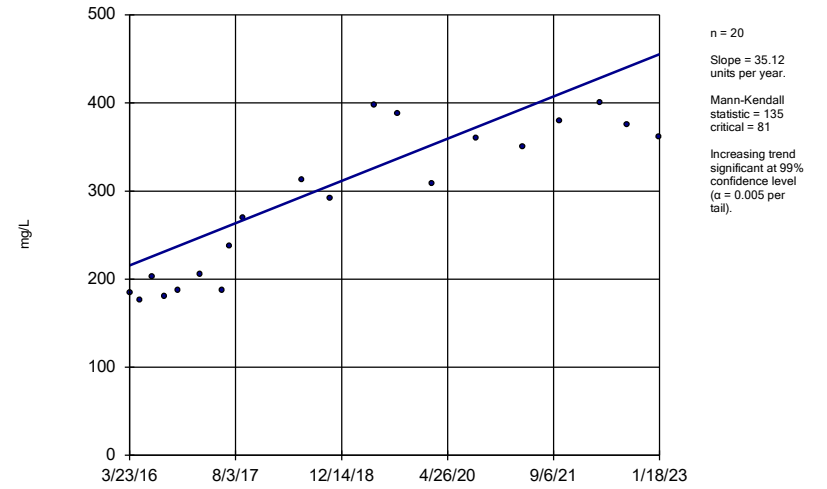
GN-GSA-MW-3 (bg)



Constituent: TDS Analysis Run 3/7/2023 5:41 PM View: A3 Trend Test  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

GN-GSA-MW-5



Constituent: TDS Analysis Run 3/7/2023 5:41 PM View: A3 Trend Test  
 Plant Gaston Client: Southern Company Data: Gaston GSA



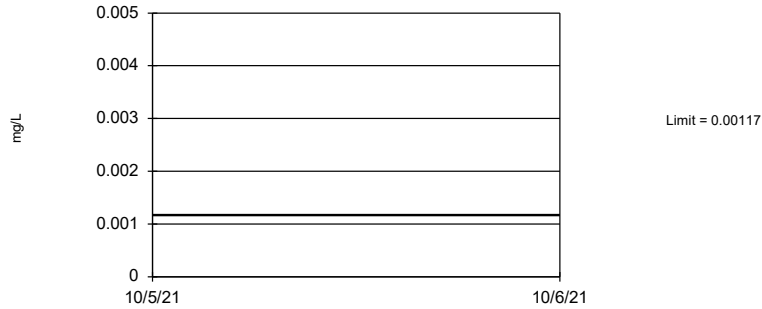
FIGURE G.

# Upper Tolerance Limits - Summary Table

Plant Gaston    Client: Southern Company    Data: Gaston GSA    Printed 1/11/2022, 10:38 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bq N</u>	<u>Bq Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	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

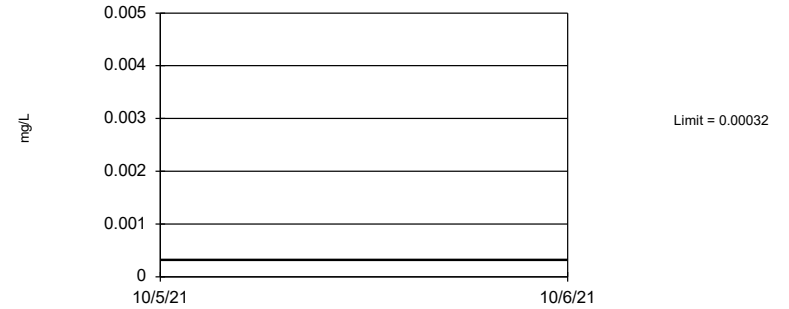
### Tolerance Limit Interwell Non-parametric



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

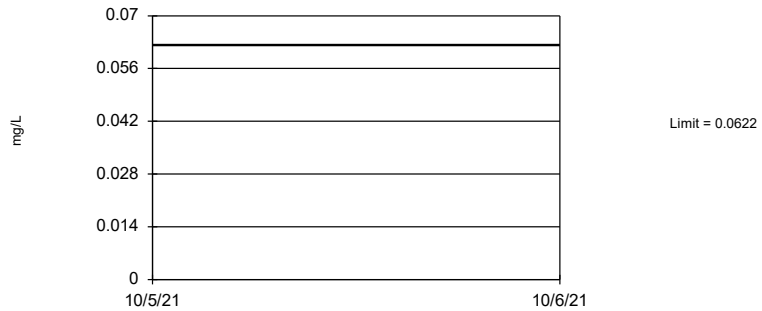
### Tolerance Limit Interwell Non-parametric



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

### 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

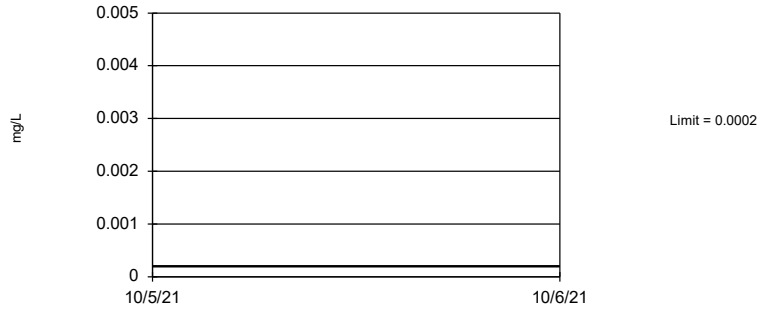
### Tolerance Limit Interwell Non-parametric



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

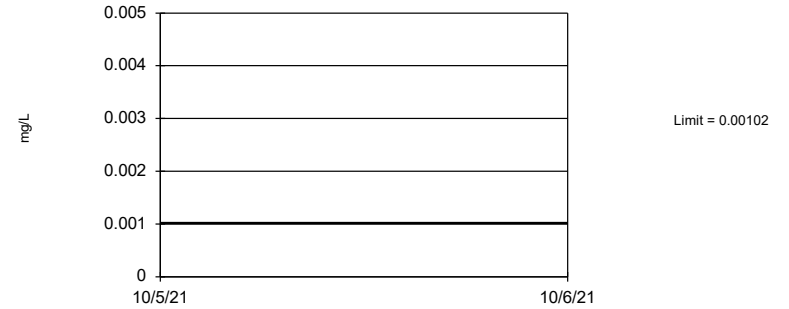
Tolerance Limit  
Interwell Non-parametric



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

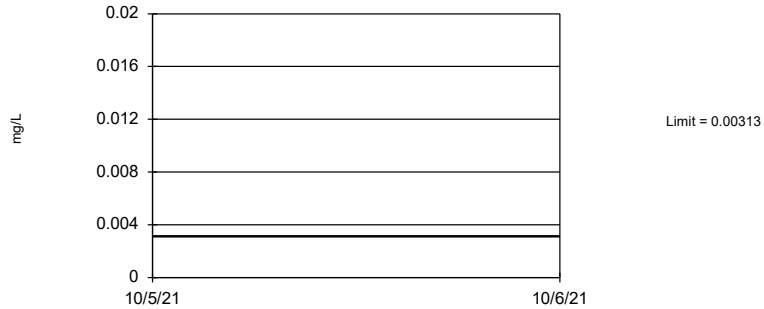
Tolerance Limit  
Interwell Non-parametric



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

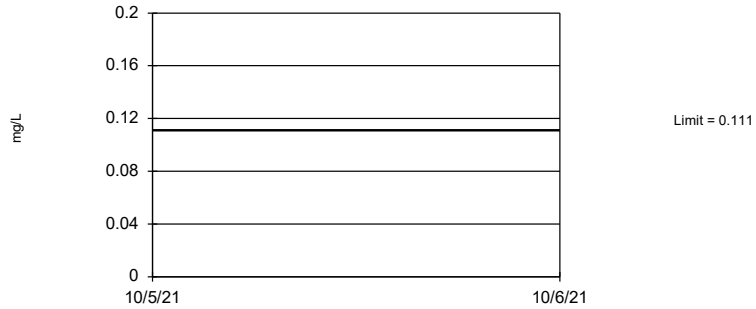
Tolerance Limit  
Interwell Non-parametric



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

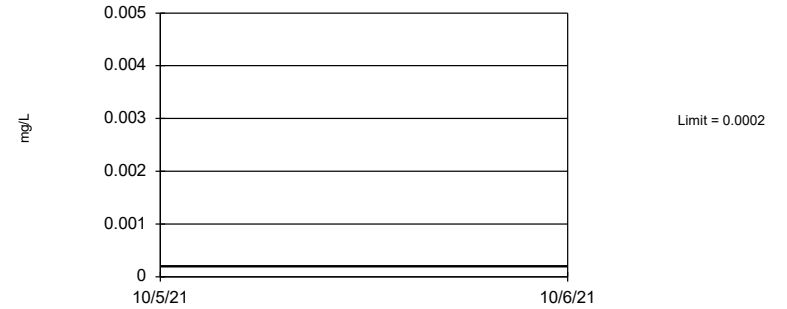
Tolerance Limit  
Interwell Non-parametric



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

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

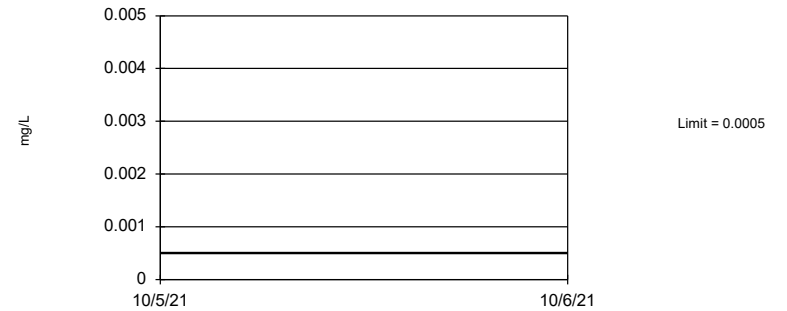
Tolerance Limit  
Interwell Non-parametric



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

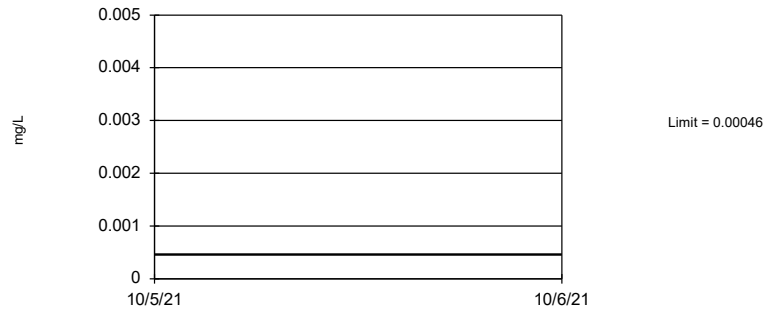
Tolerance Limit  
Interwell Non-parametric



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

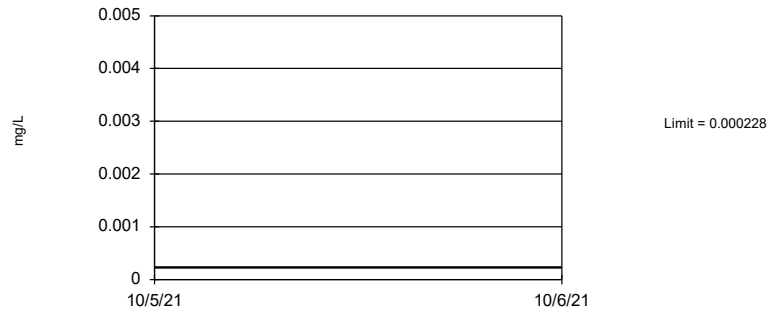
### Tolerance Limit Interwell Non-parametric



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

### 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 H.

<b>GASTON GYPSUM POND GWPS</b>			
<b>Analyte</b>	<b>Units</b>	<b>Background</b>	<b>GWPS</b>
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 I.

# Confidence Intervals - All Results (No Significant)

Plant Gaston    Client: Southern Company    Data: Gaston GSA    Printed 3/14/2023, 10:12 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GN-GSA-MW-10	0.001015	0.000552	0.006	No	8	0.0009571	0.0001637	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-GSA-MW-6	0.001015	0.000644	0.006	No	8	0.0009686	0.0001312	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-1	0.005444	0.002166	0.01	No	8	0.003805	0.001546	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-GSA-MW-10	0.000215	0.00007	0.01	No	8	0.0001734	0.00005886	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-11	0.005	0.00009	0.01	No	8	0.001938	0.002535	37.5	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-GSA-MW-12	0.005	0.000189	0.01	No	8	0.002027	0.002463	37.5	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-GSA-MW-13	0.005	0.00012	0.01	No	8	0.001963	0.002515	37.5	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-GSA-MW-5	0.001845	0.0005472	0.01	No	8	0.00216	0.001925	25	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	GN-GSA-MW-6	0.000203	0.00008	0.01	No	8	0.0001572	0.00005344	50	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-GSA-MW-7	0.005	0.00029	0.01	No	8	0.001654	0.002077	25	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-GSA-MW-8	0.001342	0.00115	0.01	No	8	0.001246	0.00009039	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-GSA-MW-9	0.005	0.000086	0.01	No	8	0.00197	0.002509	37.5	None	No	0.004	NP (normality)
Barium (mg/L)	GN-GSA-MW-1	2.535	1.982	2	No	8	2.259	0.261	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-10	0.0386	0.03395	2	No	8	0.03628	0.002198	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-11	0.01327	0.004584	2	No	8	0.008928	0.004098	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-12	0.02506	0.01924	2	No	8	0.02215	0.002746	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-13	0.04325	0.03638	2	No	8	0.03981	0.003239	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-5	0.07457	0.04586	2	No	8	0.06021	0.01354	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-6	0.0214	0.0159	2	No	8	0.01768	0.001673	0	None	No	0.004	NP (normality)
Barium (mg/L)	GN-GSA-MW-7	0.0256	0.016	2	No	8	0.01874	0.00304	0	None	No	0.004	NP (normality)
Barium (mg/L)	GN-GSA-MW-8	0.0314	0.0257	2	No	8	0.0273	0.002067	0	None	No	0.004	NP (normality)
Barium (mg/L)	GN-GSA-MW-9	0.02554	0.02159	2	No	8	0.02356	0.001865	0	None	No	0.01	Param.
Cadmium (mg/L)	GN-GSA-MW-10	0.000203	0.00008	0.005	No	8	0.0001801	0.00004558	75	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	0.00102	0.00023	0.1	No	8	0.0007349	0.0003938	62.5	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	0.00021	0.1	No	8	0.0008238	0.0003548	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-13	0.01	0.000417	0.1	No	8	0.004056	0.004922	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-GSA-MW-5	0.001015	0.000262	0.1	No	8	0.0006454	0.0003952	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-GSA-MW-6	0.001015	0.00022	0.1	No	8	0.0006314	0.0004103	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-GSA-MW-7	0.001015	0.000361	0.1	No	8	0.0007995	0.0003027	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-8	0.01	0.000291	0.1	No	8	0.003976	0.004989	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-GSA-MW-9	0.001015	0.00021	0.1	No	8	0.0007225	0.0004041	62.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-10	0.000912	0.000203	0.006	No	8	0.0002916	0.0002507	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-11	0.003004	0.002176	0.006	No	8	0.00259	0.0003901	12.5	None	No	0.01	Param.
Cobalt (mg/L)	GN-GSA-MW-12	0.005	0.00016	0.006	No	8	0.002033	0.002458	37.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-GSA-MW-13	0.0002	0.000086	0.006	No	8	0.000154	0.00005395	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-GSA-MW-5	0.004121	0.001197	0.006	No	8	0.003337	0.001694	25	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	GN-GSA-MW-6	0.005	0.00065	0.006	No	8	0.002302	0.002234	37.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-GSA-MW-7	0.001515	0.0003589	0.006	No	8	0.001946	0.001975	25	Kaplan-Meier	x^(1/3)	0.01	Param.
Cobalt (mg/L)	GN-GSA-MW-8	0.005	0.00007	0.006	No	8	0.001954	0.002522	37.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-GSA-MW-9	0.00041	0.0000816	0.006	No	8	0.0002048	0.00009457	62.5	None	No	0.004	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-1	1.777	0.8935	5	No	8	1.326	0.4726	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-10	0.8382	0.2843	5	No	8	0.5613	0.2613	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-11	1.581	0.08913	5	No	8	0.7968	1.106	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-12	1.404	0.2039	5	No	8	0.8039	0.5661	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-13	1.591	0.2274	5	No	8	0.95	1.23	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-5	0.9443	0.2737	5	No	8	0.609	0.3164	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-6	1.235	0.05478	5	No	8	0.6449	0.5567	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-7	0.8573	0.04594	5	No	8	0.4516	0.3827	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-8	1.197	0.0959	5	No	8	0.6467	0.5196	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-9	1.075	0.198	5	No	8	0.6365	0.4137	0	None	No	0.01	Param.

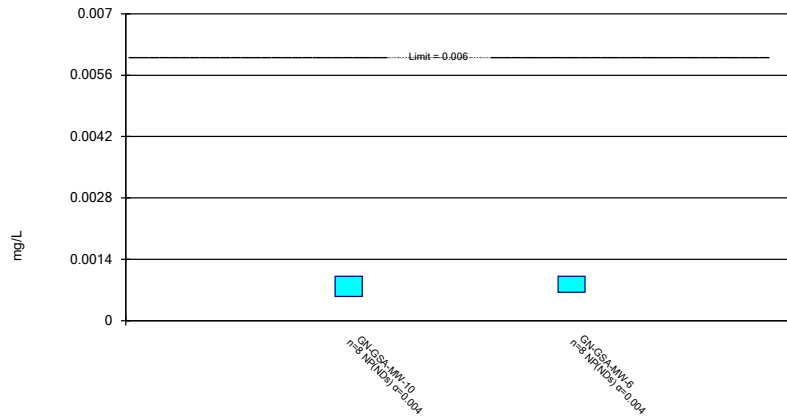
# Confidence Intervals - All Results (No Significant)

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 3/14/2023, 10:12 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GN-GSA-MW-1	0.3562	0.2943	4	No	8	0.3253	0.02925	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-GSA-MW-10	0.125	0.0617	4	No	8	0.1171	0.02238	87.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-GSA-MW-12	0.125	0.0547	4	No	8	0.09658	0.03223	50	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-GSA-MW-13	0.125	0.0555	4	No	8	0.08694	0.03197	37.5	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-GSA-MW-5	0.125	0.0962	4	No	8	0.1214	0.01018	87.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-GSA-MW-7	0.125	0.07812	4	No	8	0.1016	0.02213	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-GSA-MW-8	0.137	0.08521	4	No	8	0.1111	0.02445	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-GSA-MW-9	0.125	0.0554	4	No	8	0.1047	0.03054	62.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-GSA-MW-1	0.000345	0.000203	0.015	No	8	0.0002208	0.0000502	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-GSA-MW-10	0.000203	0.00008	0.015	No	8	0.0001876	0.00004349	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-GSA-MW-11	0.000203	0.000078	0.015	No	8	0.0001758	0.00005118	75	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-GSA-MW-6	0.005	0.000305	0.015	No	8	0.002086	0.002413	37.5	None	No	0.004	NP (normality)
Lead (mg/L)	GN-GSA-MW-9	0.000203	0.00011	0.015	No	8	0.0001914	0.00003288	87.5	None	No	0.004	NP (NDs)
Lithium (mg/L)	GN-GSA-MW-1	0.02	0.00953	0.04	No	8	0.0123	0.004757	25	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-GSA-MW-1	0.004531	0.003059	0.1	No	8	0.003795	0.0006943	0	None	No	0.01	Param.
Molybdenum (mg/L)	GN-GSA-MW-12	0.01	0.000207	0.1	No	8	0.003922	0.005033	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-GSA-MW-13	0.01	0.00016	0.1	No	8	0.003877	0.00507	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-GSA-MW-5	0.01	0.00009	0.1	No	8	0.003818	0.005119	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-GSA-MW-7	0.01	0.000232	0.1	No	8	0.003919	0.005035	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-GSA-MW-8	0.00437	0.00318	0.1	No	8	0.00358	0.0004536	0	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-GSA-MW-9	0.01	0.000207	0.1	No	8	0.003913	0.00504	37.5	None	No	0.004	NP (normality)

### Non-Parametric Confidence Interval

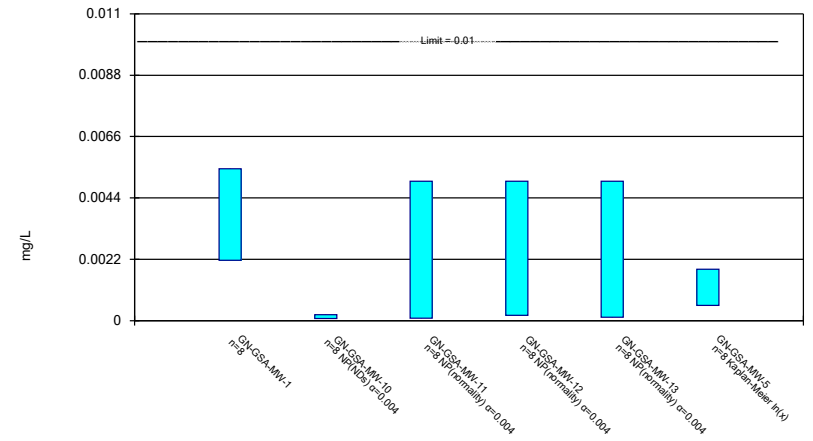
Compliance Limit is not exceeded.



Constituent: Antimony Analysis Run 3/14/2023 10:11 AM View: Appendix IV  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Parametric and Non-Parametric (NP) Confidence Interval

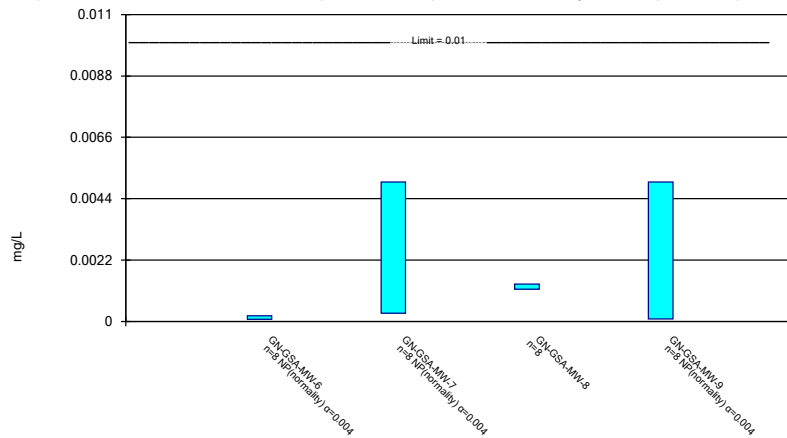
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 3/14/2023 10:11 AM View: Appendix IV  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Parametric and Non-Parametric (NP) Confidence Interval

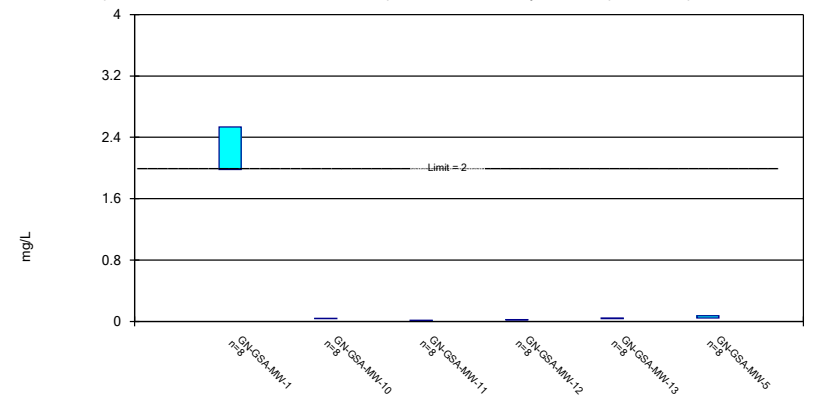
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Constituent: Arsenic Analysis Run 3/14/2023 10:11 AM View: Appendix IV  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Parametric Confidence Interval

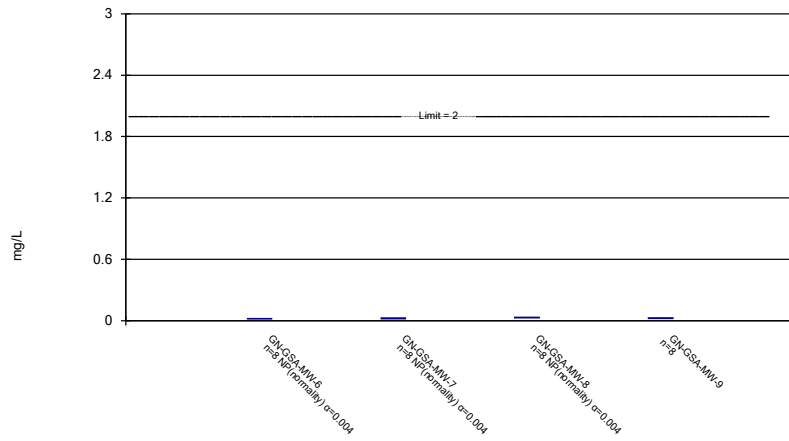
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 3/14/2023 10:11 AM View: Appendix IV  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 3/14/2023 10:11 AM View: Appendix IV  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Non-Parametric Confidence Interval

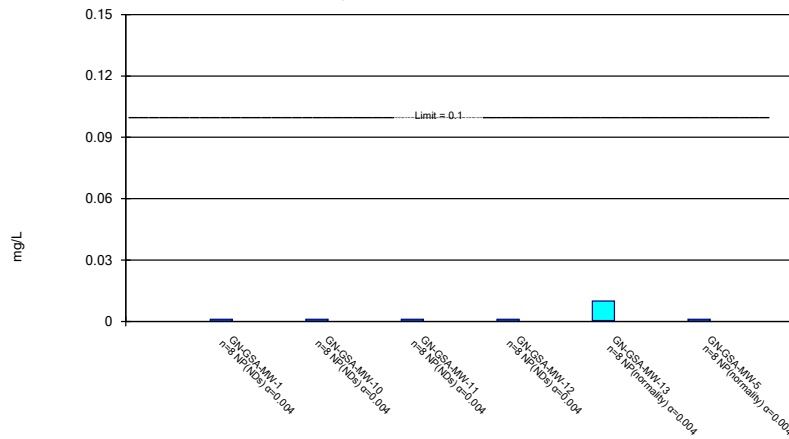
Compliance Limit is not exceeded.



Constituent: Cadmium Analysis Run 3/14/2023 10:11 AM View: Appendix IV  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Non-Parametric Confidence Interval

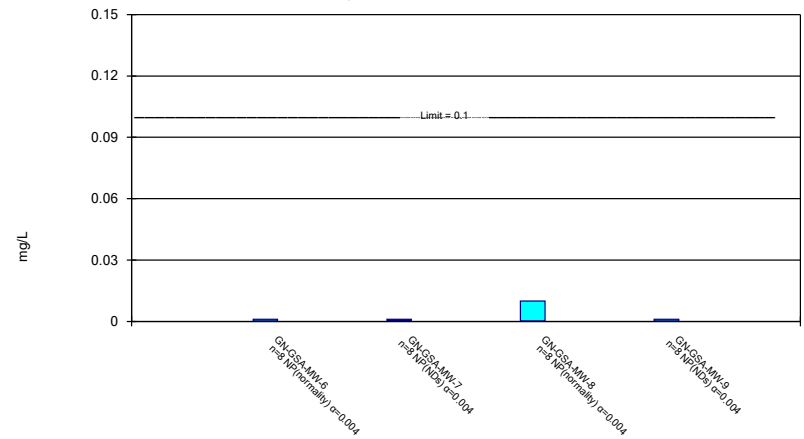
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 3/14/2023 10:11 AM View: Appendix IV  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Non-Parametric Confidence Interval

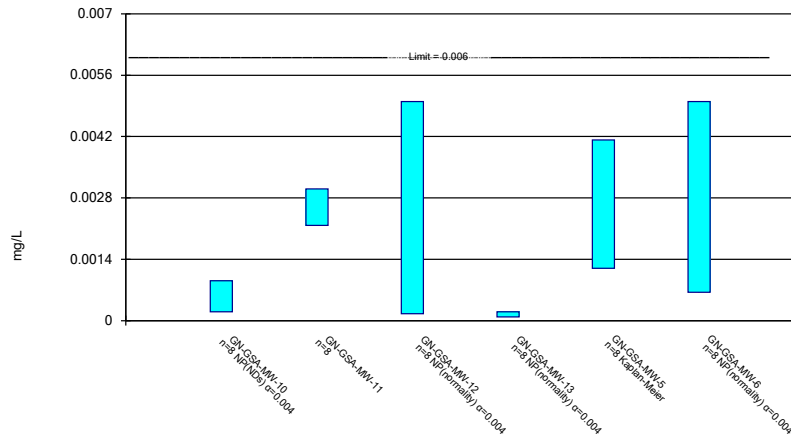
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 3/14/2023 10:11 AM View: Appendix IV  
 Plant Gaston Client: Southern Company Data: Gaston GSA

Parametric and Non-Parametric (NP) Confidence Interval

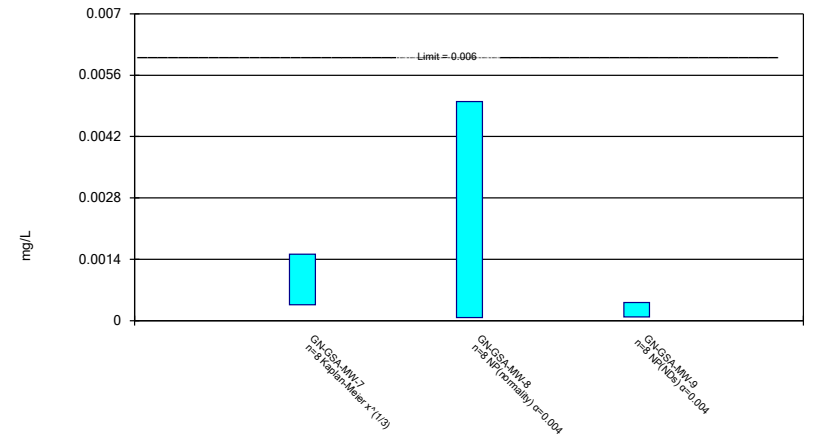
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 3/14/2023 10:11 AM View: Appendix IV  
 Plant Gaston Client: Southern Company Data: Gaston GSA

Parametric and Non-Parametric (NP) Confidence Interval

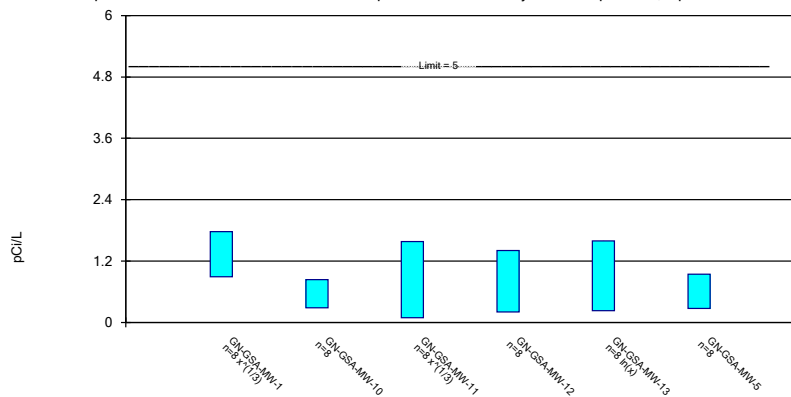
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 3/14/2023 10:12 AM View: Appendix IV  
 Plant Gaston Client: Southern Company Data: Gaston GSA

Parametric Confidence Interval

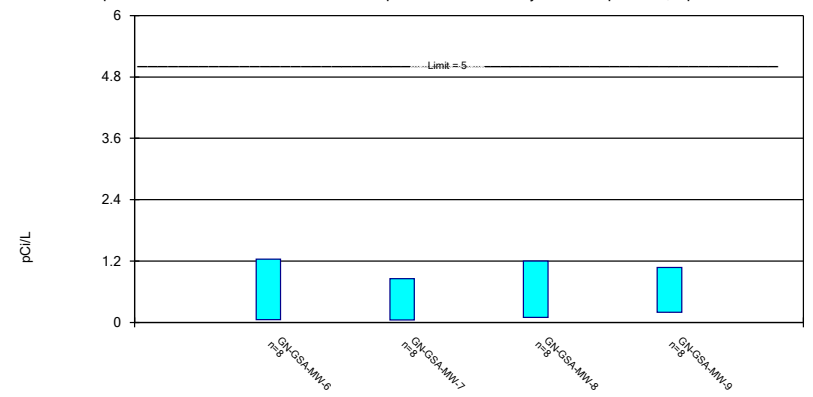
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 3/14/2023 10:12 AM View: Appendix IV  
 Plant Gaston Client: Southern Company Data: Gaston GSA

Parametric Confidence Interval

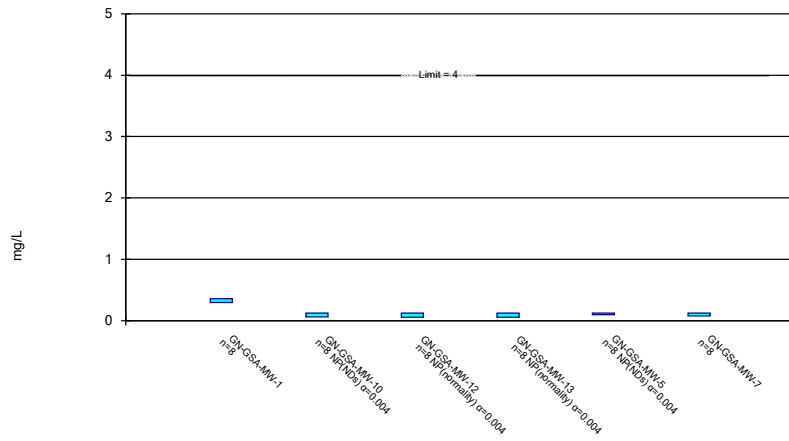
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 3/14/2023 10:12 AM View: Appendix IV  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Parametric and Non-Parametric (NP) Confidence Interval

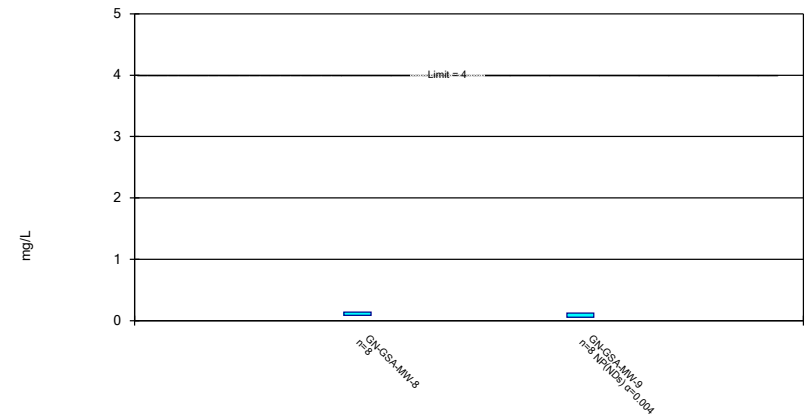
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 3/14/2023 10:12 AM View: Appendix IV  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Parametric and Non-Parametric (NP) Confidence Interval

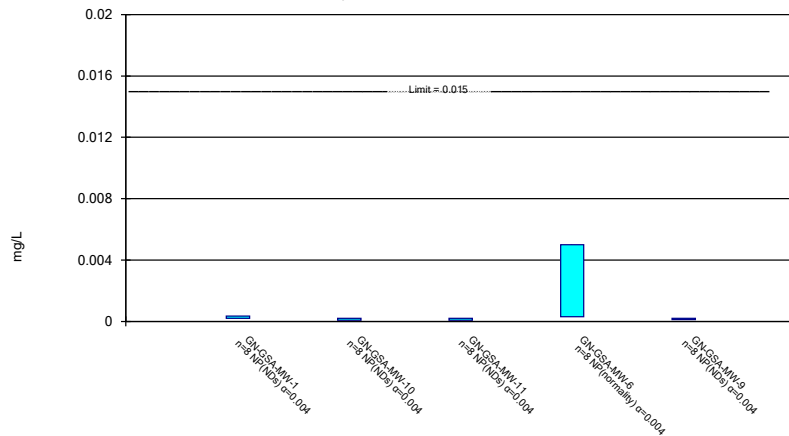
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 3/14/2023 10:12 AM View: Appendix IV  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Non-Parametric Confidence Interval

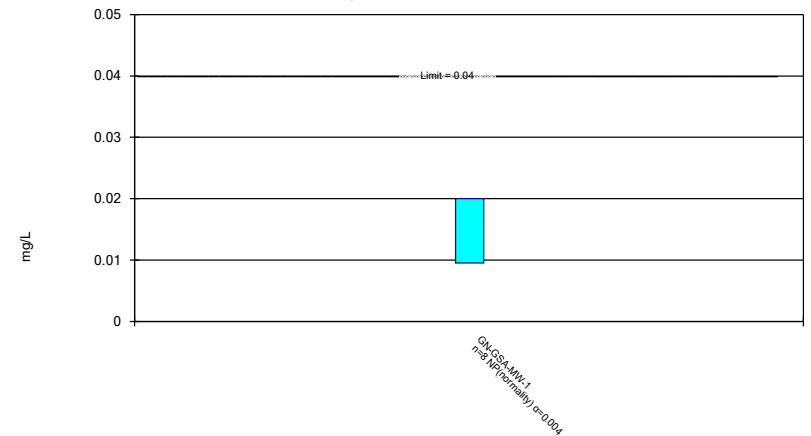
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 3/14/2023 10:12 AM View: Appendix IV  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Non-Parametric Confidence Interval

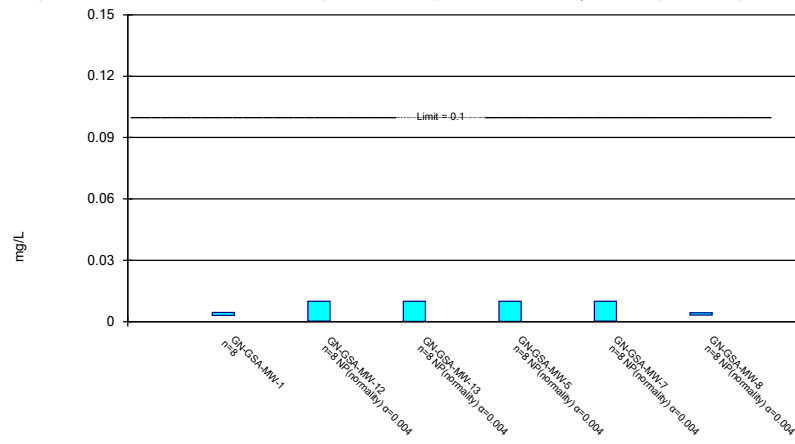
Compliance Limit is not exceeded.



Constituent: Lithium Analysis Run 3/14/2023 10:12 AM View: Appendix IV  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Parametric and Non-Parametric (NP) Confidence Interval

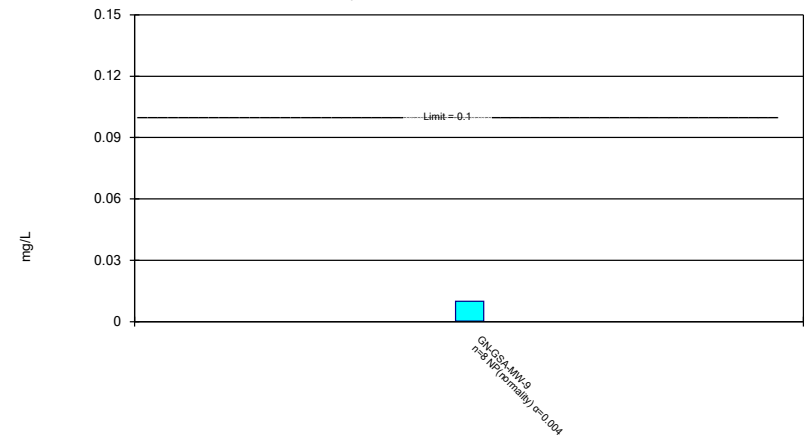
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 3/14/2023 10:12 AM View: Appendix IV  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Molybdenum Analysis Run 3/14/2023 10:12 AM View: Appendix IV  
 Plant Gaston Client: Southern Company Data: Gaston GSA



# Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 3/14/2023 10:12 AM View: Appendix IV  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-10	GN-GSA-MW-6
9/3/2019	<0.001015	
9/4/2019		<0.001015
2/11/2020		<0.001015
2/12/2020	<0.001015	
9/8/2020	<0.001015	<0.001015
4/13/2021	<0.001015	<0.001015
10/4/2021		<0.001015
10/5/2021	<0.001015	
4/12/2022		<0.001015
4/13/2022	<0.001015	
8/16/2022		<0.001015
8/17/2022	<0.001015	
1/18/2023	0.000552 (J)	0.000644 (J)
Mean	0.0009571	0.0009686
Std. Dev.	0.0001637	0.0001312
Upper Lim.	0.001015	0.001015
Lower Lim.	0.000552	0.000644

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 3/14/2023 10:12 AM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-5
9/3/2019		<0.000203	<0.005			
9/4/2019	0.00534			<0.005	<0.005	0.00305 (J)
2/11/2020						<0.005
2/12/2020	0.0062	<0.000203	<0.005	<0.005	<0.005	
9/8/2020		<0.000203				<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		
4/12/2022						0.0009
4/13/2022	0.00248	<0.000203	9E-05 (J)	0.00021	0.00014 (J)	
8/16/2022					0.000131 (J)	0.00134
8/17/2022		<0.000203	0.000109 (J)			
8/18/2022	0.00199			0.000189 (J)		
1/17/2023	0.00221					
1/18/2023		0.000215	0.000103 (J)	0.000254	0.000122 (J)	0.000836
Mean	0.003805	0.0001734	0.001938	0.002027	0.001963	0.00216
Std. Dev.	0.001546	5.886E-05	0.002535	0.002463	0.002515	0.001925
Upper Lim.	0.005444	0.000215	0.005	0.005	0.005	0.001845
Lower Lim.	0.002166	7E-05	9E-05	0.000189	0.00012	0.0005472

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 3/14/2023 10:12 AM View: Appendix IV  
Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
9/3/2019			0.00118 (J)	<0.005
9/4/2019	<0.000203	<0.005		
2/11/2020	<0.000203	0.001 (J)		
2/12/2020			0.00133 (J)	<0.005
9/8/2020	<0.000203			<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)
4/12/2022	0.00011 (J)	0.00043	0.00124	0.00018 (J)
8/16/2022	<0.000203	0.000335	0.00116	
8/17/2022				8.6E-05 (J)
1/17/2023		0.000711		
1/18/2023	0.000157 (J)		0.00111	0.000121 (J)
Mean	0.0001572	0.001654	0.001246	0.00197
Std. Dev.	5.344E-05	0.002077	9.039E-05	0.002509
Upper Lim.	0.000203	0.005	0.001342	0.005
Lower Lim.	8E-05	0.00029	0.00115	8.6E-05

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 3/14/2023 10:12 AM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-5
9/3/2019		0.0377	0.00656 (J)			
9/4/2019	1.96			0.0205	0.0455	0.0824
2/11/2020						0.0513
2/12/2020	2.15	0.0344	0.00444 (J)	0.024	0.0419	
9/8/2020		0.0331				0.0464
9/9/2020	2.5		0.00545 (J)	0.0182	0.039	
4/13/2021	2.41	0.0373	0.00636	0.0234	0.0403	0.0478
10/4/2021	1.92				0.0369	0.0494
10/5/2021		0.0359	0.00871	0.0212		
4/12/2022						0.0666
4/13/2022	2.68	0.0403	0.0162	0.0272	0.0415	
8/16/2022					0.0383	0.0743
8/17/2022		0.0361	0.0131			
8/18/2022	2.23			0.0204		
1/17/2023	2.22					
1/18/2023		0.0354	0.0106	0.0223	0.0351	0.0635
Mean	2.259	0.03628	0.008928	0.02215	0.03981	0.06021
Std. Dev.	0.261	0.002198	0.004098	0.002746	0.003239	0.01354
Upper Lim.	2.535	0.0386	0.01327	0.02506	0.04325	0.07457
Lower Lim.	1.982	0.03395	0.004584	0.01924	0.03638	0.04586

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 3/14/2023 10:12 AM View: Appendix IV  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
9/3/2019			0.0314	0.0271
9/4/2019	0.0176	0.0256		
2/11/2020	0.0175	0.0194		
2/12/2020			0.0257	0.0214
9/8/2020	0.0159			0.0234
9/9/2020		0.0161	0.026	
4/13/2021	0.0175	0.016	0.0262	0.0226
10/4/2021	0.0161	0.0181	0.0265	
10/5/2021				0.0234
4/12/2022	0.0214	0.0192	0.0294	0.0252
8/16/2022	0.0178	0.0175	0.0275	
8/17/2022				0.0237
1/17/2023		0.018		
1/18/2023	0.0176		0.0257	0.0217
Mean	0.01768	0.01874	0.0273	0.02356
Std. Dev.	0.001673	0.00304	0.002067	0.001865
Upper Lim.	0.0214	0.0256	0.0314	0.02554
Lower Lim.	0.0159	0.016	0.0257	0.02159

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 3/14/2023 10:12 AM View: Appendix IV  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-10
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)
4/13/2022	<0.000203
8/17/2022	0.000143 (J)
1/18/2023	<0.000203
Mean	0.0001801
Std. Dev.	4.558E-05
Upper Lim.	0.000203
Lower Lim.	8E-05

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 3/14/2023 10:12 AM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-5
9/3/2019		<0.00102	<0.001015			
9/4/2019	<0.001015			<0.001015	<0.01	<0.001015
2/11/2020						<0.001015
2/12/2020	<0.001015	<0.00102	<0.001015	<0.001015	<0.01	
9/8/2020		<0.00102				<0.001015
9/9/2020	<0.001015		<0.001015	<0.001015	<0.01	
4/13/2021	<0.001015	<0.00102	<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)		
4/12/2022						0.00029 (J)
4/13/2022	<0.001015	<0.00102	<0.001015	0.00021 (J)	0.00052 (J)	
8/16/2022					0.000444 (J)	0.000271 (J)
8/17/2022		0.000266 (J)	<0.001015			
8/18/2022	<0.001015			<0.001015		
1/17/2023	<0.001015					
1/18/2023		0.000283 (J)	<0.001015	<0.001015	0.000417 (J)	0.000262 (J)
Mean	0.0009144	0.0007349	0.0009256	0.0008238	0.004056	0.0006454
Std. Dev.	0.0002846	0.0003938	0.0002528	0.0003548	0.004922	0.0003952
Upper Lim.	0.001015	0.00102	0.001015	0.001015	0.01	0.001015
Lower Lim.	0.00021	0.00023	0.0003	0.00021	0.000417	0.000262

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 3/14/2023 10:12 AM View: Appendix IV  
Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
9/3/2019			<0.01	<0.001015
9/4/2019	<0.001015	<0.001015		
2/11/2020	<0.001015	<0.001015		
2/12/2020			<0.01	<0.001015
9/8/2020	<0.001015			<0.001015
9/9/2020		<0.001015	<0.01	
4/13/2021	0.000257 (J)	0.000361 (J)	0.000291 (J)	0.000276 (J)
10/4/2021	0.00025 (J)	0.00056 (J)	0.00037 (J)	
10/5/2021				0.00021 (J)
4/12/2022	0.00022 (J)	<0.001015	0.00035 (J)	<0.001015
8/16/2022	<0.001015	0.0004 (J)	0.000437 (J)	
8/17/2022				<0.001015
1/17/2023		<0.001015		
1/18/2023	0.000264 (J)		0.000358 (J)	0.000219 (J)
Mean	0.0006314	0.0007995	0.003976	0.0007225
Std. Dev.	0.0004103	0.0003027	0.004989	0.0004041
Upper Lim.	0.001015	0.001015	0.01	0.001015
Lower Lim.	0.00022	0.000361	0.000291	0.00021



# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 3/14/2023 10:12 AM View: Appendix IV  
 Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-5	GN-GSA-MW-6
9/3/2019	<0.000203	0.00298 (J)				
9/4/2019			<0.005	<0.0002	0.00527	<0.005
2/11/2020					<0.005	<0.005
2/12/2020	<0.000203	<0.005	<0.005	<0.0002		
9/8/2020	<0.000203				<0.005	<0.005
9/9/2020		0.00256 (J)	<0.005	<0.0002		
4/13/2021	<0.000203	0.00212	0.000218	0.000158 (J)	0.00104	0.000682
10/4/2021				0.0001 (J)	0.00142	0.00065
10/5/2021	<0.000203	0.00217	0.00042			
4/12/2022					0.00215	0.00066
4/13/2022	<0.000203	0.00324	0.00016 (J)	<0.0002		
8/16/2022				8.8E-05 (J)	0.00389	0.000713
8/17/2022	<0.000203	0.00278				
8/18/2022			0.000296			
1/18/2023	0.000912	0.00237	0.000168 (J)	8.6E-05 (J)	0.00293	0.000709
Mean	0.0002916	0.00259	0.002033	0.000154	0.003337	0.002302
Std. Dev.	0.0002507	0.0003901	0.002458	5.395E-05	0.001694	0.002234
Upper Lim.	0.000912	0.003004	0.005	0.0002	0.004121	0.005
Lower Lim.	0.000203	0.002176	0.00016	8.6E-05	0.001197	0.00065

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 3/14/2023 10:12 AM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
9/3/2019		<0.005	<0.000203
9/4/2019	0.00217 (J)		
2/11/2020	<0.005		
2/12/2020		<0.005	<0.000203
9/8/2020			<0.000203
9/9/2020	<0.005	<0.005	
4/13/2021	0.00077	0.000123 (J)	8.16E-05 (J)
10/4/2021	0.00033	0.00014 (J)	
10/5/2021			0.00041
4/12/2022	0.0006	7E-05 (J)	<0.000203
8/16/2022	0.000415	0.000133 (J)	
8/17/2022			0.000132 (J)
1/17/2023	0.00128		
1/18/2023		0.00017 (J)	<0.000203
Mean	0.001946	0.001954	0.0002048
Std. Dev.	0.001975	0.002522	9.457E-05
Upper Lim.	0.001515	0.005	0.00041
Lower Lim.	0.0003589	7E-05	8.16E-05

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L)    Analysis Run 3/14/2023 10:12 AM    View: Appendix IV  
 Plant Gaston    Client: Southern Company    Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-5
9/3/2019		0.793	3.47			
9/4/2019	2.39			0.534	3.92	1.05
2/11/2020						0.585
2/12/2020	1.17	0.13 (U)	0.0433 (U)	0.836	0.799	
9/8/2020		0.65 (U)				0.921
9/9/2020	1.02		0.798	1.88	0.27 (U)	
4/13/2021	0.909 (U)	0.531 (U)	0.589 (U)	0.592 (U)	0.667 (U)	0.434 (U)
10/4/2021	1.43				0.231 (U)	0.11 (U)
10/5/2021		0.269 (U)	0.524 (U)	1.42		
4/12/2022						0.739 (U)
4/13/2022	1.31	0.551 (U)	0.453 (U)	0.257 (U)	0.357 (U)	
8/16/2022					0.98	0.734 (U)
8/17/2022		0.934 (U)	0.33 (U)			
8/18/2022	0.975			0.607 (U)		
1/17/2023	1.4					
1/18/2023		0.632 (U)	0.167 (U)	0.305 (U)	0.376 (U)	0.299 (U)
Mean	1.326	0.5613	0.7968	0.8039	0.95	0.609
Std. Dev.	0.4726	0.2613	1.106	0.5661	1.23	0.3164
Upper Lim.	1.777	0.8382	1.581	1.404	1.591	0.9443
Lower Lim.	0.8935	0.2843	0.08913	0.2039	0.2274	0.2737

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 3/14/2023 10:12 AM View: Appendix IV  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
9/3/2019			0.983	0.994
9/4/2019	0.608	1.28		
2/11/2020	0.743	0.513 (U)		
2/12/2020			-0.0587 (U)	0.377 (U)
9/8/2020	-0.109 (U)			1.07
9/9/2020		0.382 (U)	0.287 (U)	
4/13/2021	0.611 (U)	0.492 (U)	0.391 (U)	0.592 (U)
10/4/2021	1.7	0.144 (U)	0.794 (U)	
10/5/2021				0.2 (U)
4/12/2022	0.157 (U)	0.0248 (U)	0.367 (U)	0.191 (U)
8/16/2022	1.06 (U)	0.537 (U)	0.78 (U)	
8/17/2022				1.25
1/17/2023		0.24 (U)		
1/18/2023	0.389 (U)		1.63	0.418 (U)
Mean	0.6449	0.4516	0.6467	0.6365
Std. Dev.	0.5567	0.3827	0.5196	0.4137
Upper Lim.	1.235	0.8573	1.197	1.075
Lower Lim.	0.05478	0.04594	0.0959	0.198

# Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 3/14/2023 10:12 AM View: Appendix IV  
 Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-5	GN-GSA-MW-7
9/3/2019		<0.125				
9/4/2019	0.33		0.0547 (J)	0.0555 (J)	0.0962 (J)	0.07 (J)
2/11/2020					<0.125	0.0912 (J)
2/12/2020	0.301	<0.125	0.0586 (J)	<0.125		
9/8/2020		0.0617 (J)			<0.125	
9/9/2020	0.313		0.068 (J)	0.0655 (J)		0.118
4/13/2021	0.29	<0.125	<0.125	0.0633 (J)	<0.125	0.129
10/4/2021	0.376			0.0748 (J)	<0.125	0.12
10/5/2021		<0.125	<0.125			
4/12/2022					<0.125	0.0724 (J)
4/13/2022	0.307	<0.125	<0.125	<0.125		
8/16/2022				0.0614 (J)	<0.125	0.112 (J)
8/17/2022		<0.125				
8/18/2022	0.327		<0.125			
1/17/2023	0.358					0.1 (J)
1/18/2023		<0.125	0.0913 (J)	<0.125	<0.125	
Mean	0.3253	0.1171	0.09658	0.08694	0.1214	0.1016
Std. Dev.	0.02925	0.02238	0.03223	0.03197	0.01018	0.02213
Upper Lim.	0.3562	0.125	0.125	0.125	0.125	0.125
Lower Lim.	0.2943	0.0617	0.0547	0.0555	0.0962	0.07812

# Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 3/14/2023 10:12 AM View: Appendix IV  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-8	GN-GSA-MW-9
9/3/2019	0.123	0.0554 (J)
2/12/2020	0.108	<0.125
9/8/2020		0.097 (J)
9/9/2020	0.14	
4/13/2021	0.119	0.0602 (J)
10/4/2021	0.134	
10/5/2021		<0.125
4/12/2022	0.0621 (J)	<0.125
8/16/2022	0.0979 (J)	
8/17/2022		<0.125
1/18/2023	0.105 (J)	<0.125
Mean	0.1111	0.1047
Std. Dev.	0.02445	0.03054
Upper Lim.	0.137	0.125
Lower Lim.	0.08521	0.0554

# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 3/14/2023 10:12 AM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-6	GN-GSA-MW-9
9/3/2019		<0.000203	<0.000203		<0.000203
9/4/2019	<0.000203			<0.005	
2/11/2020				<0.005	
2/12/2020	<0.000203	<0.000203	<0.000203		<0.000203
9/8/2020		<0.000203		<0.005	<0.000203
9/9/2020	<0.000203		<0.000203		
4/13/2021	<0.000203	<0.000203	<0.000203	0.000305	<0.000203
10/4/2021	<0.000203			0.00031	
10/5/2021		<0.000203	<0.000203		<0.000203
4/12/2022				0.0004	0.00011 (J)
4/13/2022	<0.000203	<0.000203	0.00011 (J)		
8/16/2022				0.000318	
8/17/2022		<0.000203	7.8E-05 (J)		<0.000203
8/18/2022	<0.000203				
1/17/2023	0.000345				
1/18/2023		8E-05 (J)	<0.000203	0.000353	<0.000203
Mean	0.0002208	0.0001876	0.0001758	0.002086	0.0001914
Std. Dev.	5.02E-05	4.349E-05	5.118E-05	0.002413	3.288E-05
Upper Lim.	0.000345	0.000203	0.000203	0.005	0.000203
Lower Lim.	0.000203	8E-05	7.8E-05	0.000305	0.00011

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 3/14/2023 10:12 AM View: Appendix IV  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-1
9/4/2019	<0.02
2/12/2020	<0.02
9/9/2020	0.0101 (J)
4/13/2021	0.00953 (J)
10/4/2021	0.00963 (J)
4/13/2022	0.00966 (J)
8/18/2022	0.00965 (J)
1/17/2023	0.00981 (J)
Mean	0.0123
Std. Dev.	0.004757
Upper Lim.	0.02
Lower Lim.	0.00953



# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 3/14/2023 10:12 AM View: Appendix IV  
 Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-5	GN-GSA-MW-7	GN-GSA-MW-8
9/3/2019						0.00437 (J)
9/4/2019	0.00504 (J)	<0.01	<0.01	<0.01	<0.01	
2/11/2020				<0.01	<0.01	
2/12/2020	0.00448 (J)	<0.01	<0.01			0.00322 (J)
9/8/2020				<0.01		
9/9/2020	0.00405 (J)	<0.01	<0.01		<0.01	0.00418 (J)
4/13/2021	0.00353	0.000298	0.000175 (J)	9.4E-05 (J)	0.000276	0.00318
10/4/2021	0.00372		0.00016 (J)	9E-05 (J)	0.00025	0.00345
10/5/2021		0.00033				
4/12/2022				0.00012 (J)	0.00027	0.00347
4/13/2022	0.0033	0.00031	0.00021			
8/16/2022			0.000189 (J)	0.000131 (J)	0.000232	0.00356
8/18/2022	0.00295	0.000207				
1/17/2023	0.00329				0.000328	
1/18/2023		0.000234	0.000285	0.000113 (J)		0.00321
Mean	0.003795	0.003922	0.003877	0.003818	0.003919	0.00358
Std. Dev.	0.0006943	0.005033	0.00507	0.005119	0.005035	0.0004536
Upper Lim.	0.004531	0.01	0.01	0.01	0.01	0.00437
Lower Lim.	0.003059	0.000207	0.00016	9E-05	0.000232	0.00318

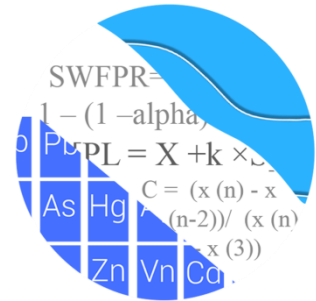
# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 3/14/2023 10:12 AM View: Appendix IV  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-9
9/3/2019	<0.01
2/12/2020	<0.01
9/8/2020	<0.01
4/13/2021	0.000207
10/5/2021	0.00032
4/12/2022	0.00021
8/17/2022	0.000338
1/18/2023	0.000232
Mean	0.003913
Std. Dev.	0.00504
Upper Lim.	0.01
Lower Lim.	0.000207

# GROUNDWATER STATS CONSULTING



October 12, 2023

Southern Company Services  
Attn: Mr. Greg Budd  
3535 Colonnade Parkway  
Birmingham, AL 35243

Re: Plant Gaston Gypsum Pond  
2<sup>nd</sup> Semi-Annual Background Update and Analysis – July 2023

Dear Mr. Budd,

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 July 2023 2<sup>nd</sup> semi-annual sample event for Alabama Power Company's Plant Gaston Gypsum Pond. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals (CCR) from Electric Utilities (CCR Rule, 2015) as well as with the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling began at site for the CCR program in 2016. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** GN-GSA-MW-2, GN-GSA-MW-3, GN-GSA-MW-14S, and GN-GSA-MW-15
- **Downgradient wells:** GN-GSA-MW-1, GN-GSA-MW-5, GN-GSA-MW-6, GN-GSA-MW-7, GN-GSA-MW-8, GN-GSA-MW-9, GN-GSA-MW-10, GN-GSA-MW-11, GN-GSA-MW-12, and GN-GSA-MW-13
- **Delineation wells:** GN-GSA-GS2-1 and GN-GSA-GS2-4

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was prepared according to the Statistical Analysis Plan approved by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance, and Senior Advisor to Groundwater Stats Consulting. The analysis was reviewed by Kristina Rayner, Founder and Senior Statistician 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. 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).

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): 84
- # 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, 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 for parametric limits. 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 2023**

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. 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 spatial variation in groundwater quality for these parameters. Interwell prediction limits, which compare the most recent sample from each downgradient well to statistical limits constructed from pooled upgradient well data, are updated during each sample event after screening for new outliers. Interwell prediction limits are used to evaluate boron, fluoride, and pH.

#### Outlier Analysis

Prior to performing prediction limits, proposed background data through January 2023 were reviewed through visual screening and Tukey's outlier test to identify any suspected outliers at all wells for calcium, chloride sulfate, and TDS, and through July 2023 at upgradient wells for boron, fluoride, and pH (Figure C). Outliers 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 update, Tukey's outlier test identified high and low outliers for chloride and sulfate, and high outliers for TDS. Some identified outliers by Tukey's test were not flagged because the measurements appeared to be representative of spatial variation. Previously flagged outliers were confirmed by Tukey's outlier test and visual screening. Although not identified by Tukey's outlier test, high non-detects for sulfate in wells GN-GSA-MW-10 and GN-GSA-MW-15 were identified by visual screening and flagged as outliers. 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 list 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 April 2021 to compliance data through January 2023 (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-10, GN-GSA-MW-12, and GN-GSA-MW-5
- Chloride: GN-GSA-MW-11
- Sulfate: GN-GSA-MW-5 and GN-GSA-MW-8
- TDS: GN-GSA-MW-10 and GN-GSA-MW-5

### Decrease:

- Calcium: GN-GSA-MW-15 (upgradient) and GN-GSA-MW-6
- Sulfate: GN-GSA-MW-14S, GN-GSA-MW-3 (both upgradient), GN-GSA-MW-7, and GN-GSA-MW-9
- TDS: GN-GSA-MW-14S, GNGSA-MW-15, and GN-GSA-MW-3 (all 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 TDS in downgradient well GN-GSA-MW-10, the majority of the reported measurements in more recent data are relatively stable and similar to concentrations reported within its background. Additionally, these concentrations are similar to those reported historically among two upgradient wells. Therefore, this record was updated.

The statistically significant increasing differences identified at remaining downgradient wells by the Mann-Whitney test resulted from increases in median concentrations in more recent data. In order to maintain conservative (i.e., lower) statistical limits, the following well/constituent pairs were not updated during this screening:

- Calcium: GN-GSA-MW-5 GN-GSA-MW-10, 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

The statistically significant decreasing differences identified at wells for calcium, sulfate, and TDS by the Mann-Whitney test resulted from slightly lower medians in more recent data compared to the medians of the historical data in these wells. These records were updated since statistically significant decreases in medians between historical and compliance data sets signify lower concentrations and, subsequently, similar or more conservative (i.e., lower) statistical limits. For calcium at GN-GSA-MW-15 (upgradient) and GN-GSA-MW-6; sulfate at GN-GSA-MW-14S (upgradient) and GN-GSA-MW-7; and TDS at GN-GSA-MW-3; however, more recent observations have stabilized at lower concentrations; therefore, the earlier portion of the records with higher concentrations were truncated to construct statistical limits, using at a minimum of 8 observations, to 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 to see if concentrations are increasing, decreasing, or stable at the 99% confidence level (Figure E). 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 wells GN-GSA-MW-15 and



GN-GSA-MW-3. Since the magnitude of the trend is marginal compared to the concentrations, no adjustments were required. A summary of these results follows this letter.

### **Evaluation of Appendix III Parameters – July 2023**

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 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.

An update was made to the Sanitas™ statistical software in October 2022 that determines the percentage of non-detects within a given record rather than all records evaluated for a given constituent. Simple substitution of ½ the reporting limit is applied when the percentage of non-detects is <15% in accordance with the USEPA EPA Unified Guidance (2009). No significant changes resulted from this implementation.

#### 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 January 2023 at each well (Figure F). The July 2023 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 follows this report.

Interwell prediction limits combined with a 1-of-2 verification strategy were constructed for boron, fluoride, and pH using upgradient well data through July 2023 (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
- Chloride: GN-GSA-MW-11
- Sulfate: GN-GSA-MW-15, GN-GSA-MW-5, and GN-GSA-MW-8
- TDS: GN-GSA-MW-5

Interwell:

- Fluoride: GN-GSA-MW-1
- pH: GN-GSA-MW-1 and GN-GSA-MW-6

Trend Tests

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable at the 99% confidence level (Figure H). 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 spatial 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
- 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-15 and GN-GSA-MW-3 (both upgradient)
- Chloride: GN-GSA-MW-14S (upgradient)
- pH: GN-GSA-MW-15, GN-GSA-MW-3 (both upgradient) and MW-1
- Sulfate: GN-GSA-MW-3 and GN-GSA-MW-14S (both upgradient)
- TDS: GN-GSA-MW-3, GN-GSA-MW-14S, and GN-GSA-MW-15 (all upgradient)

## **Evaluation of Appendix IV Parameters – July 2023**

Prior to evaluating Appendix IV parameters, upgradient well data were screened through visual screening and Tukey's outlier test for potential outliers and extreme trending patterns that would lead to artificially elevated statistical limits. A discussion of those findings is provided below.

Tukey's outlier test on pooled upgradient well data for Appendix IV parameters through July 2023 did not identify any values as outliers. Therefore, no additional values were flagged. Additionally, downgradient well data through July 2023 were screened through visual screening using time series graphs. Since the downgradient well data are used to construct confidence intervals, a regulatory conservative approach is taken in that values that are marginally high relative to the rest of the data are retained unless there is particular justification for excluding them. No changes were to previously flagged data were made. All flagged values may be seen on the Outlier Summary following this letter (Figure C).

In accordance with Alabama Department of Environmental Management (ADEM), the Groundwater Protections Standards (GWPS) were updated during this 2023 2<sup>nd</sup> semi-annual statistical analysis. The GWPS will be updated again during the 2025 2<sup>nd</sup> semi-annual statistical analysis. The methodology used to create these GWPS is described below.

### Interwell Upper Tolerance Limits

Background limits were determined using upper tolerance limits (UTLs) constructed from pooled upgradient well data through July 2023 (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 screened background as the statistical limit, were constructed. A summary of the upper tolerance limits follows this letter.

### 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 for the confidence interval comparisons described below. A table of the GWPS follows this letter (Figure J).

## Confidence Intervals

Confidence intervals were then constructed on downgradient wells using a maximum of the most recent 8 samples through July 2023 for each of the Appendix IV parameters (Figure K). These intervals were either parametric or nonparametric confidence intervals depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the highest and lowest values as interval limits when  $n=8$ , were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. The confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

As mentioned above, well/constituent pairs containing 100% non-detects for the most recent 8 samples did not require statistics and 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. An exceedance was identified for the following well/constituent pair:

- Barium: GN-GSA-MW-1

## Trend Test Evaluation – Appendix IV

When confidence interval 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 at the 95% confidence level (Figure L). Utilizing the 95% confidence level for trend tests readily identifies significant trends and is more sensitive than the 99% confidence level without drastically increasing the false negative rate. Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells. When similar patterns exist upgradient of the site, it is an indication of variability in groundwater which may be unrelated to practices at the site. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- Barium: GN-GSA-MW-1

Decreasing:

- Barium: GN-GSA-MW-14S, GN-GSA-MW-15, and GN-GSA-MW-3  
(all upgradient)

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 T. Collins  
Project Manager

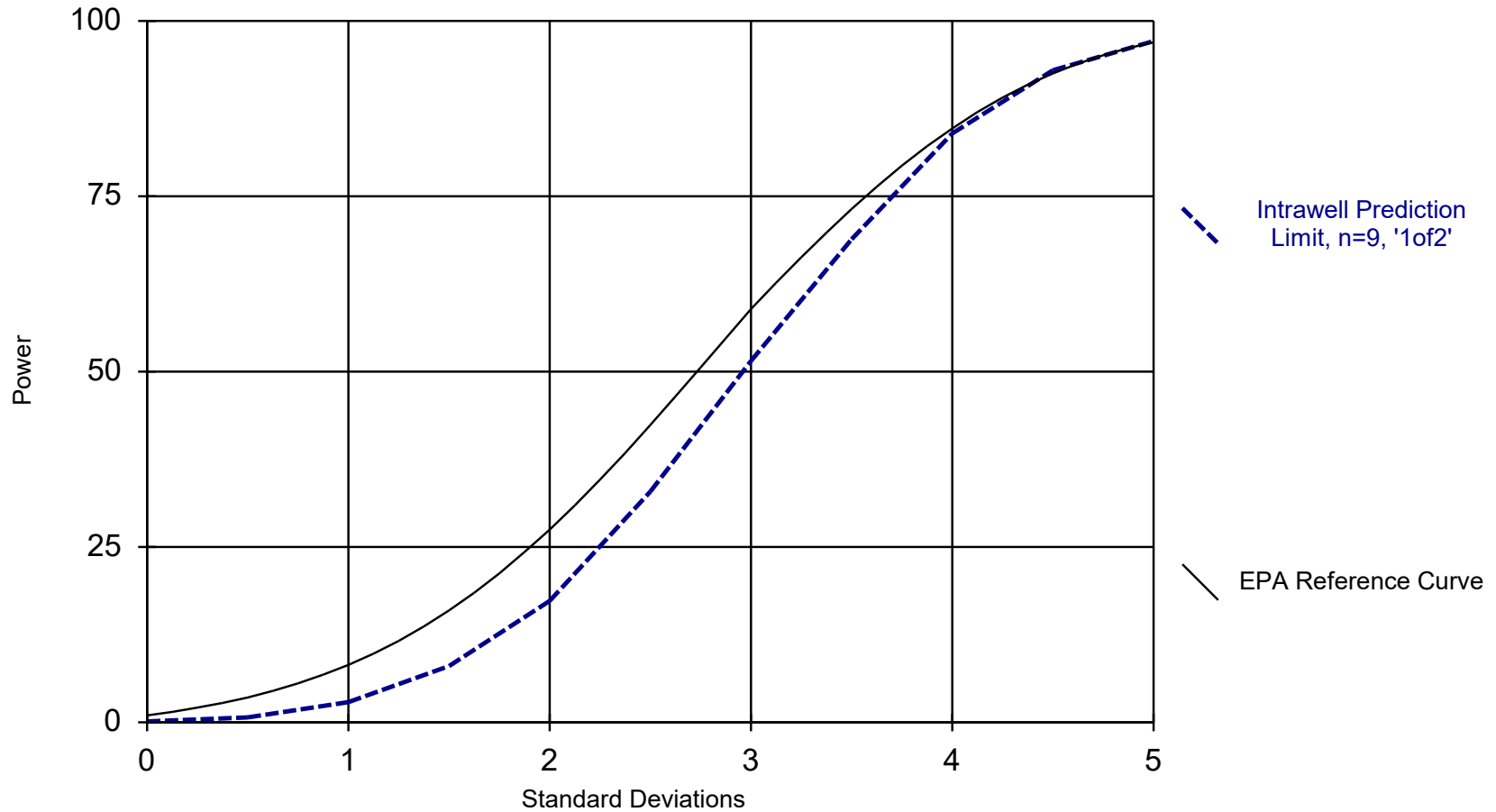


Kristina L. Rayner  
Senior Statistician

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## Intrawell Power Curve

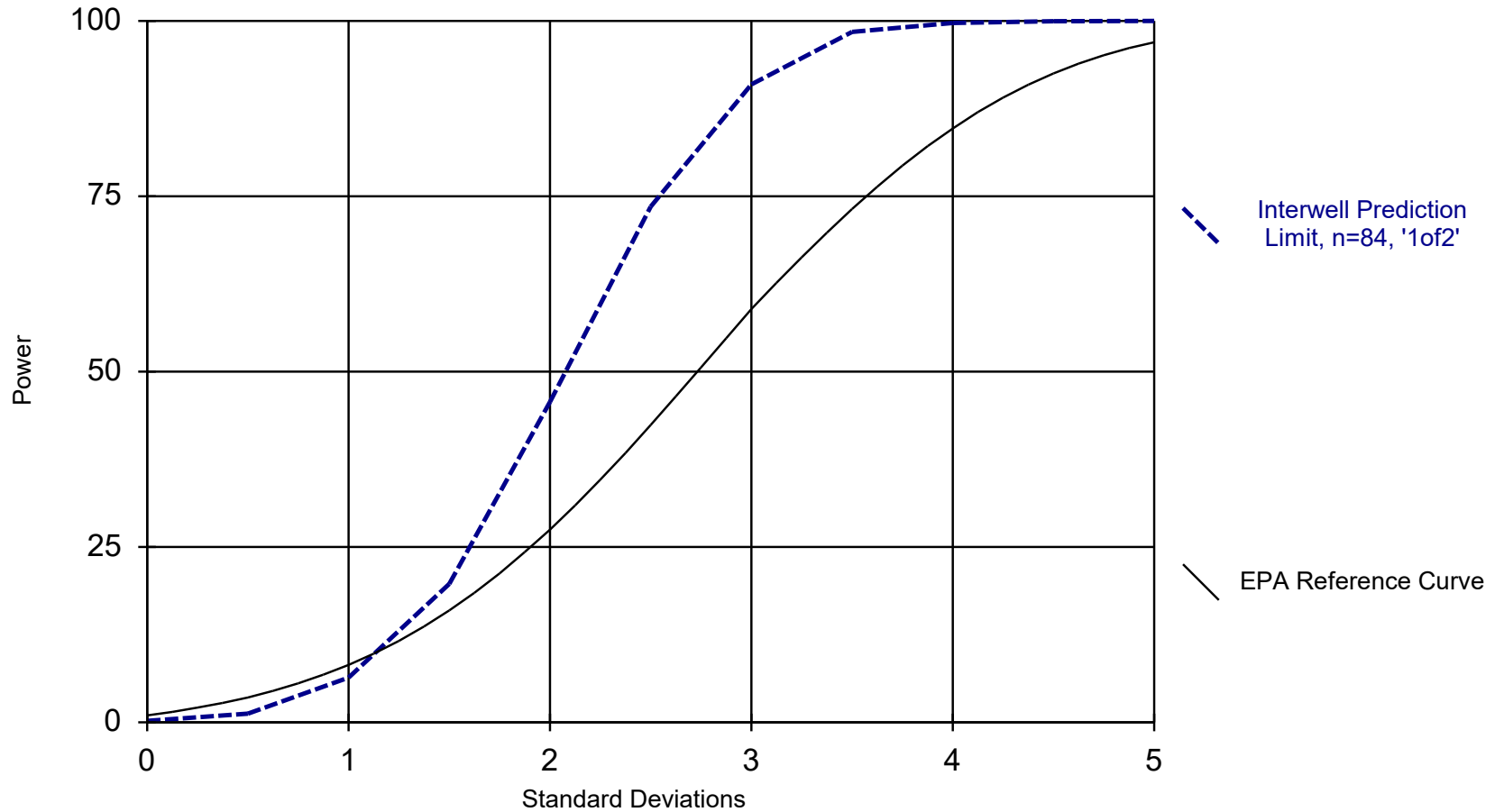


Kappa = 2.961, based on 10 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 10/5/2023 11:02 AM

Plant Gaston Client: Southern Company Data: Gaston GSA

## Interwell Power Curve



Kappa = 1.98, based on 10 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 10/10/2023 1:22 PM

Plant Gaston Client: Southern Company Data: Gaston GSA



# Date Ranges

Date: 10/10/2023 1:28 PM

Plant Gaston Client: Southern Company Data: Gaston GSA

**Calcium (mg/L)**

GN-GSA-MW-10 background:3/24/2016-4/13/2021  
GN-GSA-MW-12 background:3/23/2016-4/13/2021  
GN-GSA-MW-15 background:10/23/2018-1/17/2023  
GN-GSA-MW-5 background:3/23/2016-5/20/2019  
GN-GSA-MW-6 background:5/30/2017-1/18/2023

**Chloride (mg/L)**

GN-GSA-MW-11 background:3/23/2016-9/7/2017

**Sulfate (mg/L)**

GN-GSA-MW-14S background:2/21/2017-1/18/2023  
GN-GSA-MW-3 background:2/20/2017-1/18/2023  
GN-GSA-MW-5 background:3/23/2016-9/7/2017  
GN-GSA-MW-7 background:7/5/2017-1/18/2023  
GN-GSA-MW-8 background:3/23/2016-9/7/2017

**TDS (mg/L)**

GN-GSA-MW-3 background:7/5/2017-1/18/2023  
GN-GSA-MW-5 background:3/23/2016-9/7/2017

# 100% Non-Detects: Appendix IV Downgradient

Analysis Run 10/2/2023 7:35 PM View: Appendix IV

Plant Gaston Data: Gaston GSA

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**Antimony (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-7, GN-GSA-MW-8, GN-GSA-MW-9

**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

**Fluoride (mg/L)**

GN-GSA-MW-11, GN-GSA-MW-6

**Lead (mg/L)**

GN-GSA-MW-12, GN-GSA-MW-13, GN-GSA-MW-7, GN-GSA-MW-8

**Lithium (mg/L)**

GN-GSA-MW-10, GN-GSA-MW-11, GN-GSA-MW-12, GN-GSA-MW-13, GN-GSA-MW-5, GN-GSA-MW-6, GN-GSA-MW-7, GN-GSA-MW-8, GN-GSA-MW-9

**Mercury (mg/L)**

GN-GSA-MW-1, GN-GSA-MW-10, GN-GSA-MW-11, GN-GSA-MW-12, GN-GSA-MW-13, GN-GSA-MW-5, GN-GSA-MW-6, GN-GSA-MW-7, GN-GSA-MW-8, GN-GSA-MW-9

**Molybdenum (mg/L)**

GN-GSA-MW-10, GN-GSA-MW-11, GN-GSA-MW-6

**Selenium (mg/L)**

GN-GSA-MW-1, GN-GSA-MW-10, GN-GSA-MW-11, GN-GSA-MW-12, GN-GSA-MW-13, GN-GSA-MW-5, GN-GSA-MW-6, GN-GSA-MW-7, GN-GSA-MW-8, GN-GSA-MW-9

**Thallium (mg/L)**

GN-GSA-MW-1, GN-GSA-MW-10, GN-GSA-MW-11, GN-GSA-MW-12, GN-GSA-MW-13, GN-GSA-MW-5, GN-GSA-MW-6, GN-GSA-MW-7, GN-GSA-MW-8, GN-GSA-MW-9

# Welch's t-test/Mann-Whitney - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 10/2/2023, 6:05 PM

<u>Constituent</u>	<u>Well</u>	<u>Calc.</u>	<u>0.01</u>	<u>Alpha</u>	<u>Sig.</u>	<u>Method</u>
Calcium (mg/L)	GN-GSA-MW-10	2.883	Yes	0.01	Yes	Mann-W
Calcium (mg/L)	GN-GSA-MW-12	2.978	Yes	0.01	Yes	Mann-W
Calcium (mg/L)	GN-GSA-MW-15 (bg)	-3.071	Yes	0.01	Yes	Mann-W
Calcium (mg/L)	GN-GSA-MW-5	3.356	Yes	0.01	Yes	Mann-W
Calcium (mg/L)	GN-GSA-MW-6	-2.601	Yes	0.01	Yes	Mann-W
Chloride (mg/L)	GN-GSA-MW-11	3.647	Yes	0.01	Yes	Mann-W
Sulfate (mg/L)	GN-GSA-MW-14S (bg)	-2.599	Yes	0.01	Yes	Mann-W
Sulfate (mg/L)	GN-GSA-MW-3 (bg)	-2.812	Yes	0.01	Yes	Mann-W
Sulfate (mg/L)	GN-GSA-MW-5	3.723	Yes	0.01	Yes	Mann-W
Sulfate (mg/L)	GN-GSA-MW-7	-2.976	Yes	0.01	Yes	Mann-W
Sulfate (mg/L)	GN-GSA-MW-8	3.647	Yes	0.01	Yes	Mann-W
Sulfate (mg/L)	GN-GSA-MW-9	-2.882	Yes	0.01	Yes	Mann-W
TDS (mg/L)	GN-GSA-MW-10	3.692	Yes	0.01	Yes	Mann-W
TDS (mg/L)	GN-GSA-MW-14S (bg)	-2.84	Yes	0.01	Yes	Mann-W
TDS (mg/L)	GN-GSA-MW-15 (bg)	-2.886	Yes	0.01	Yes	Mann-W
TDS (mg/L)	GN-GSA-MW-3 (bg)	-2.599	Yes	0.01	Yes	Mann-W
TDS (mg/L)	GN-GSA-MW-5	3.724	Yes	0.01	Yes	Mann-W

# Welch's t-test/Mann-Whitney - All Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 10/2/2023, 6:05 PM

<u>Constituent</u>	<u>Well</u>	<u>Calc.</u>	<u>0.01</u>	<u>Alpha</u>	<u>Sig.</u>	<u>Method</u>
Calcium (mg/L)	GN-GSA-MW-1	2.41	No	0.01	No	Mann-W
<b>Calcium (mg/L)</b>	<b>GN-GSA-MW-10</b>	<b>2.883</b>	<b>Yes</b>	<b>0.01</b>	<b>Yes</b>	<b>Mann-W</b>
Calcium (mg/L)	GN-GSA-MW-11	2.506	No	0.01	No	Mann-W
<b>Calcium (mg/L)</b>	<b>GN-GSA-MW-12</b>	<b>2.978</b>	<b>Yes</b>	<b>0.01</b>	<b>Yes</b>	<b>Mann-W</b>
Calcium (mg/L)	GN-GSA-MW-13	1.465	No	0.01	No	Mann-W
Calcium (mg/L)	GN-GSA-MW-14S (bg)	1.797	No	0.01	No	Mann-W
<b>Calcium (mg/L)</b>	<b>GN-GSA-MW-15 (bg)</b>	<b>-3.071</b>	<b>Yes</b>	<b>0.01</b>	<b>Yes</b>	<b>Mann-W</b>
Calcium (mg/L)	GN-GSA-MW-2 (bg)	1.654	No	0.01	No	Mann-W
Calcium (mg/L)	GN-GSA-MW-3 (bg)	-2.221	No	0.01	No	Mann-W
<b>Calcium (mg/L)</b>	<b>GN-GSA-MW-5</b>	<b>3.356</b>	<b>Yes</b>	<b>0.01</b>	<b>Yes</b>	<b>Mann-W</b>
<b>Calcium (mg/L)</b>	<b>GN-GSA-MW-6</b>	<b>-2.601</b>	<b>Yes</b>	<b>0.01</b>	<b>Yes</b>	<b>Mann-W</b>
Calcium (mg/L)	GN-GSA-MW-7	1.796	No	0.01	No	Mann-W
Calcium (mg/L)	GN-GSA-MW-8	-0.5201	No	0.01	No	Mann-W
Calcium (mg/L)	GN-GSA-MW-9	0.9922	No	0.01	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-1	-1.371	No	0.01	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-10	1.371	No	0.01	No	Mann-W
<b>Chloride (mg/L)</b>	<b>GN-GSA-MW-11</b>	<b>3.647</b>	<b>Yes</b>	<b>0.01</b>	<b>Yes</b>	<b>Mann-W</b>
Chloride (mg/L)	GN-GSA-MW-12	1.559	No	0.01	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-13	-0.5199	No	0.01	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-14S (bg)	-2.316	No	0.01	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-15 (bg)	-0.04728	No	0.01	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-2 (bg)	0.5676	No	0.01	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-3 (bg)	-0.6622	No	0.01	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-5	-0.8038	No	0.01	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-6	2.505	No	0.01	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-7	0.3308	No	0.01	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-8	0.3315	No	0.01	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-9	-1.945	No	0.01	No	Mann-W
Sulfate (mg/L)	GN-GSA-MW-1	0.6144	No	0.01	No	Mann-W
Sulfate (mg/L)	GN-GSA-MW-10	1.33	No	0.01	No	Mann-W
Sulfate (mg/L)	GN-GSA-MW-11	-2.41	No	0.01	No	Mann-W
Sulfate (mg/L)	GN-GSA-MW-12	0.4255	No	0.01	No	Mann-W
Sulfate (mg/L)	GN-GSA-MW-13	-0.4254	No	0.01	No	Mann-W
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-14S (bg)</b>	<b>-2.599</b>	<b>Yes</b>	<b>0.01</b>	<b>Yes</b>	<b>Mann-W</b>
Sulfate (mg/L)	GN-GSA-MW-15 (bg)	-1.351	No	0.01	No	Mann-W
Sulfate (mg/L)	GN-GSA-MW-2 (bg)	0.04725	No	0.01	No	Mann-W
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-3 (bg)</b>	<b>-2.812</b>	<b>Yes</b>	<b>0.01</b>	<b>Yes</b>	<b>Mann-W</b>
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-5</b>	<b>3.723</b>	<b>Yes</b>	<b>0.01</b>	<b>Yes</b>	<b>Mann-W</b>
Sulfate (mg/L)	GN-GSA-MW-6	1.277	No	0.01	No	Mann-W
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-7</b>	<b>-2.976</b>	<b>Yes</b>	<b>0.01</b>	<b>Yes</b>	<b>Mann-W</b>
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-8</b>	<b>3.647</b>	<b>Yes</b>	<b>0.01</b>	<b>Yes</b>	<b>Mann-W</b>
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-9</b>	<b>-2.882</b>	<b>Yes</b>	<b>0.01</b>	<b>Yes</b>	<b>Mann-W</b>
TDS (mg/L)	GN-GSA-MW-1	0.5209	No	0.01	No	Mann-W
<b>TDS (mg/L)</b>	<b>GN-GSA-MW-10</b>	<b>3.692</b>	<b>Yes</b>	<b>0.01</b>	<b>Yes</b>	<b>Mann-W</b>
TDS (mg/L)	GN-GSA-MW-11	1.468	No	0.01	No	Mann-W
TDS (mg/L)	GN-GSA-MW-12	2.033	No	0.01	No	Mann-W
TDS (mg/L)	GN-GSA-MW-13	-0.2368	No	0.01	No	Mann-W
<b>TDS (mg/L)</b>	<b>GN-GSA-MW-14S (bg)</b>	<b>-2.84</b>	<b>Yes</b>	<b>0.01</b>	<b>Yes</b>	<b>Mann-W</b>
<b>TDS (mg/L)</b>	<b>GN-GSA-MW-15 (bg)</b>	<b>-2.886</b>	<b>Yes</b>	<b>0.01</b>	<b>Yes</b>	<b>Mann-W</b>
TDS (mg/L)	GN-GSA-MW-2 (bg)	-1.565	No	0.01	No	Mann-W
<b>TDS (mg/L)</b>	<b>GN-GSA-MW-3 (bg)</b>	<b>-2.599</b>	<b>Yes</b>	<b>0.01</b>	<b>Yes</b>	<b>Mann-W</b>
<b>TDS (mg/L)</b>	<b>GN-GSA-MW-5</b>	<b>3.724</b>	<b>Yes</b>	<b>0.01</b>	<b>Yes</b>	<b>Mann-W</b>
TDS (mg/L)	GN-GSA-MW-6	0	No	0.01	No	Mann-W
TDS (mg/L)	GN-GSA-MW-7	-0.04732	No	0.01	No	Mann-W
TDS (mg/L)	GN-GSA-MW-8	-1.564	No	0.01	No	Mann-W
TDS (mg/L)	GN-GSA-MW-9	-0.7565	No	0.01	No	Mann-W

# Upgradient Wells Trend Test - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 10/2/2023, 5:30 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Alpha</u>	<u>Method</u>
pH (pH)	GN-GSA-MW-15 (bg)	-0.06518	-146	-92	Yes	22	0	n/a	0.01	NP
pH (pH)	GN-GSA-MW-3 (bg)	-0.08319	-95	-92	Yes	22	0	n/a	0.01	NP

# Upgradient Wells Trend Test - All Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 10/2/2023, 5:30 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	GN-GSA-MW-14S (bg)	0	12	87	No	21	95.24	n/a	0.01	NP
Boron (mg/L)	GN-GSA-MW-15 (bg)	0	0	87	No	21	100	n/a	0.01	NP
Boron (mg/L)	GN-GSA-MW-2 (bg)	0	0	87	No	21	100	n/a	0.01	NP
Boron (mg/L)	GN-GSA-MW-3 (bg)	0	0	87	No	21	100	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-14S (bg)	0.005474	72	92	No	22	36.36	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-15 (bg)	0	80	92	No	22	77.27	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-2 (bg)	0.001872	70	92	No	22	54.55	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-3 (bg)	0	6	92	No	22	13.64	n/a	0.01	NP
pH (pH)	GN-GSA-MW-14S (bg)	-0.02094	-78	-92	No	22	0	n/a	0.01	NP
<b>pH (pH)</b>	<b>GN-GSA-MW-15 (bg)</b>	<b>-0.06518</b>	<b>-146</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH (pH)	GN-GSA-MW-2 (bg)	-0.01481	-86	-92	No	22	0	n/a	0.01	NP
<b>pH (pH)</b>	<b>GN-GSA-MW-3 (bg)</b>	<b>-0.08319</b>	<b>-95</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>

# Appendix III Intrawell Prediction Limits - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 10/10/2023, 1:19 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform Alpha	Method
Calcium (mg/L)	GN-GSA-MW-5	71.16	n/a	7/10/2023	85	Yes	12	0	None	No 0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-11	7.709	n/a	7/11/2023	21.4	Yes	9	0	None	No 0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-15	5.223	n/a	7/12/2023	8.91	Yes	19	0	None	x^(1/3) 0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-5	41.19	n/a	7/10/2023	191	Yes	9	0	None	x^(1/3) 0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-8	2.935	n/a	7/11/2023	4.37	Yes	9	0	None	No 0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-5	269	n/a	7/10/2023	444	Yes	9	0	n/a	n/a 0.01809	NP Intra (normality) 1 of 2

# Appendix III Intrawell Prediction Limits - All Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 10/10/2023, 1:19 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	GN-GSA-MW-1	53.14	n/a	7/11/2023	47.2	No	20	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-10	108.2	n/a	7/11/2023	103	No	16	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-11	16.48	n/a	7/11/2023	14.7	No	20	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-12	85.67	n/a	7/11/2023	81.1	No	16	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-13	110.4	n/a	7/11/2023	105	No	20	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-14S	59.05	n/a	7/12/2023	54	No	20	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-15	7.339	n/a	7/12/2023	3.81	No	10	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-2	97.46	n/a	7/11/2023	79.7	No	20	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-3	125	n/a	7/12/2023	78.4	No	20	0	None	No	0.0007523	Param Intra 1 of 2
<b>Calcium (mg/L)</b>	<b>GN-GSA-MW-5</b>	<b>71.16</b>	<b>n/a</b>	<b>7/10/2023</b>	<b>85</b>	<b>Yes</b>	<b>12</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0007523</b>	<b>Param Intra 1 of 2</b>
Calcium (mg/L)	GN-GSA-MW-6	0.9608	n/a	7/10/2023	0.589	No	14	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-7	79.99	n/a	7/10/2023	65.6	No	20	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-8	60.6	n/a	7/11/2023	55	No	20	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-9	68.31	n/a	7/11/2023	48.1	No	20	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-1	3.522	n/a	7/11/2023	2.18	No	20	5	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-10	3.663	n/a	7/11/2023	2.82	No	20	5	None	x^2	0.0007523	Param Intra 1 of 2
<b>Chloride (mg/L)</b>	<b>GN-GSA-MW-11</b>	<b>7.709</b>	<b>n/a</b>	<b>7/11/2023</b>	<b>21.4</b>	<b>Yes</b>	<b>9</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0007523</b>	<b>Param Intra 1 of 2</b>
Chloride (mg/L)	GN-GSA-MW-12	5.696	n/a	7/11/2023	3.84	No	20	5	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-13	4.657	n/a	7/11/2023	3.69	No	20	0	None	sqrt(x)	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-14S	5.648	n/a	7/12/2023	2.36	No	20	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-15	3.986	n/a	7/12/2023	2.04	No	20	5	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-2	4.75	n/a	7/11/2023	3.58	No	20	0	None	x^(1/3)	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-3	3.658	n/a	7/12/2023	2.79	No	20	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-5	19.35	n/a	7/10/2023	8.17	No	20	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-6	4.093	n/a	7/10/2023	3.44	No	20	5	None	x^2	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-7	4.449	n/a	7/10/2023	3.33	No	20	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-8	2.383	n/a	7/11/2023	1.56	No	20	10	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-9	2.982	n/a	7/11/2023	1.87	No	20	5	None	x^2	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-1	6.09	n/a	7/11/2023	4.01	No	20	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-10	2.24	n/a	7/11/2023	1.85J	No	18	0	n/a	n/a	0.005373	NP Intra (normality) 1 of 2
Sulfate (mg/L)	GN-GSA-MW-11	14.19	n/a	7/11/2023	1.97J	No	20	0	None	ln(x)	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-12	16.21	n/a	7/11/2023	9.46	No	20	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-13	10.08	n/a	7/11/2023	9.4	No	20	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-14S	8.742	n/a	7/12/2023	2.79	No	15	0	None	No	0.0007523	Param Intra 1 of 2
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-15</b>	<b>5.223</b>	<b>n/a</b>	<b>7/12/2023</b>	<b>8.91</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>None</b>	<b>x^(1/3)</b>	<b>0.0007523</b>	<b>Param Intra 1 of 2</b>
Sulfate (mg/L)	GN-GSA-MW-2	10.93	n/a	7/11/2023	6.77	No	20	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-3	18.26	n/a	7/12/2023	8.92	No	15	0	None	No	0.0007523	Param Intra 1 of 2
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-5</b>	<b>41.19</b>	<b>n/a</b>	<b>7/10/2023</b>	<b>191</b>	<b>Yes</b>	<b>9</b>	<b>0</b>	<b>None</b>	<b>x^(1/3)</b>	<b>0.0007523</b>	<b>Param Intra 1 of 2</b>
Sulfate (mg/L)	GN-GSA-MW-6	2	n/a	7/10/2023	0.94J	No	18	72.22	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	GN-GSA-MW-7	10.81	n/a	7/10/2023	5.64	No	13	0	None	No	0.0007523	Param Intra 1 of 2
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-8</b>	<b>2.935</b>	<b>n/a</b>	<b>7/11/2023</b>	<b>4.37</b>	<b>Yes</b>	<b>9</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0007523</b>	<b>Param Intra 1 of 2</b>
Sulfate (mg/L)	GN-GSA-MW-9	6.813	n/a	7/11/2023	4.18	No	20	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-1	253.8	n/a	7/11/2023	215	No	20	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-10	290.2	n/a	7/11/2023	268	No	20	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-11	104.7	n/a	7/11/2023	90.7	No	20	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-12	285.7	n/a	7/11/2023	258	No	20	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-13	311.6	n/a	7/11/2023	283	No	20	0	None	x^3	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-14S	226.6	n/a	7/12/2023	187	No	20	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-15	60.08	n/a	7/12/2023	32	No	20	5	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-2	306.3	n/a	7/11/2023	291	No	20	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-3	328	n/a	7/12/2023	227	No	13	0	None	No	0.0007523	Param Intra 1 of 2
<b>TDS (mg/L)</b>	<b>GN-GSA-MW-5</b>	<b>269</b>	<b>n/a</b>	<b>7/10/2023</b>	<b>444</b>	<b>Yes</b>	<b>9</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01809</b>	<b>NP Intra (normality) 1 of 2</b>
TDS (mg/L)	GN-GSA-MW-6	32	n/a	7/10/2023	25ND	No	20	70	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
TDS (mg/L)	GN-GSA-MW-7	252	n/a	7/10/2023	216	No	20	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-8	208.7	n/a	7/11/2023	182	No	20	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-9	206.6	n/a	7/11/2023	162	No	20	0	None	No	0.0007523	Param Intra 1 of 2



# Appendix III Interwell Prediction Limits - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 10/2/2023, 5:33 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bq N	%NDs	ND Adj.	Transform Alpha	Method	
Fluoride (mg/L)	GN-GSA-MW-1	0.125	n/a	7/11/2023	0.3	Yes	88	45.45	n/a	n/a	0.0002485	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-1	7.53	5.25	7/11/2023	7.58	Yes	88	0	n/a	n/a	0.0004971	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-6	7.53	5.25	7/10/2023	4.4	Yes	88	0	n/a	n/a	0.0004971	NP Inter (normality) 1 of 2

# Appendix III Interwell Prediction Limits - All Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 10/2/2023, 5:33 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bq N	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GN-GSA-MW-1	0.1015	n/a	7/11/2023	0.0346J	No	84	98.81	n/a	n/a	0.0002728	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-10	0.1015	n/a	7/11/2023	0.1015ND	No	84	98.81	n/a	n/a	0.0002728	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-11	0.1015	n/a	7/11/2023	0.0659J	No	84	98.81	n/a	n/a	0.0002728	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-12	0.1015	n/a	7/11/2023	0.1015ND	No	84	98.81	n/a	n/a	0.0002728	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-13	0.1015	n/a	7/11/2023	0.1015ND	No	84	98.81	n/a	n/a	0.0002728	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-5	0.1015	n/a	7/10/2023	0.0436J	No	84	98.81	n/a	n/a	0.0002728	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-6	0.1015	n/a	7/10/2023	0.1015ND	No	84	98.81	n/a	n/a	0.0002728	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-7	0.1015	n/a	7/10/2023	0.1015ND	No	84	98.81	n/a	n/a	0.0002728	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-8	0.1015	n/a	7/11/2023	0.1015ND	No	84	98.81	n/a	n/a	0.0002728	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-9	0.1015	n/a	7/11/2023	0.1015ND	No	84	98.81	n/a	n/a	0.0002728	NP Inter (NDs) 1 of 2
<b>Fluoride (mg/L)</b>	<b>GN-GSA-MW-1</b>	<b>0.125</b>	<b>n/a</b>	<b>7/11/2023</b>	<b>0.3</b>	<b>Yes</b>	<b>88</b>	<b>45.45</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0002485</b>	<b>NP Inter (normality) 1 of 2</b>
Fluoride (mg/L)	GN-GSA-MW-10	0.125	n/a	7/11/2023	0.125ND	No	88	45.45	n/a	n/a	0.0002485	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-11	0.125	n/a	7/11/2023	0.125ND	No	88	45.45	n/a	n/a	0.0002485	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-12	0.125	n/a	7/11/2023	0.125ND	No	88	45.45	n/a	n/a	0.0002485	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-13	0.125	n/a	7/11/2023	0.103J	No	88	45.45	n/a	n/a	0.0002485	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-5	0.125	n/a	7/10/2023	0.099J	No	88	45.45	n/a	n/a	0.0002485	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-6	0.125	n/a	7/10/2023	0.125ND	No	88	45.45	n/a	n/a	0.0002485	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-7	0.125	n/a	7/10/2023	0.1J	No	88	45.45	n/a	n/a	0.0002485	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-8	0.125	n/a	7/11/2023	0.0857J	No	88	45.45	n/a	n/a	0.0002485	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-9	0.125	n/a	7/11/2023	0.125ND	No	88	45.45	n/a	n/a	0.0002485	NP Inter (normality) 1 of 2
<b>pH (pH)</b>	<b>GN-GSA-MW-1</b>	<b>7.53</b>	<b>5.25</b>	<b>7/11/2023</b>	<b>7.58</b>	<b>Yes</b>	<b>88</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0004971</b>	<b>NP Inter (normality) 1 of 2</b>
pH (pH)	GN-GSA-MW-10	7.53	5.25	7/11/2023	6.89	No	88	0	n/a	n/a	0.0004971	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-11	7.53	5.25	7/11/2023	5.33	No	88	0	n/a	n/a	0.0004971	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-12	7.53	5.25	7/11/2023	6.79	No	88	0	n/a	n/a	0.0004971	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-13	7.53	5.25	7/11/2023	6.62	No	88	0	n/a	n/a	0.0004971	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-5	7.53	5.25	7/10/2023	6.3	No	88	0	n/a	n/a	0.0004971	NP Inter (normality) 1 of 2
<b>pH (pH)</b>	<b>GN-GSA-MW-6</b>	<b>7.53</b>	<b>5.25</b>	<b>7/10/2023</b>	<b>4.4</b>	<b>Yes</b>	<b>88</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0004971</b>	<b>NP Inter (normality) 1 of 2</b>
pH (pH)	GN-GSA-MW-7	7.53	5.25	7/10/2023	6.66	No	88	0	n/a	n/a	0.0004971	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-8	7.53	5.25	7/11/2023	7.32	No	88	0	n/a	n/a	0.0004971	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-9	7.53	5.25	7/11/2023	6.23	No	88	0	n/a	n/a	0.0004971	NP Inter (normality) 1 of 2

# Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Gaston    Client: Southern Company    Data: Gaston GSA    Printed 10/2/2023, 6:11 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Alpha</u>	<u>Method</u>
Calcium (mg/L)	GN-GSA-MW-15 (bg)	-0.7048	-172	-87	Yes	21	0	n/a	0.01	NP
Calcium (mg/L)	GN-GSA-MW-3 (bg)	-8.196	-134	-87	Yes	21	0	n/a	0.01	NP
Calcium (mg/L)	GN-GSA-MW-5	5.982	162	87	Yes	21	0	n/a	0.01	NP
Chloride (mg/L)	GN-GSA-MW-11	1.994	168	87	Yes	21	0	n/a	0.01	NP
Chloride (mg/L)	GN-GSA-MW-14S (bg)	-0.3525	-147	-87	Yes	21	0	n/a	0.01	NP
pH (pH)	GN-GSA-MW-1	-0.02452	-93	-92	Yes	22	0	n/a	0.01	NP
pH (pH)	GN-GSA-MW-15 (bg)	-0.06518	-146	-92	Yes	22	0	n/a	0.01	NP
pH (pH)	GN-GSA-MW-3 (bg)	-0.08319	-95	-92	Yes	22	0	n/a	0.01	NP
Sulfate (mg/L)	GN-GSA-MW-14S (bg)	-1.143	-140	-87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	GN-GSA-MW-3 (bg)	-2.163	-178	-87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	GN-GSA-MW-5	20.68	166	87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	GN-GSA-MW-8	0.4486	134	87	Yes	21	0	n/a	0.01	NP
TDS (mg/L)	GN-GSA-MW-14S (bg)	-3.172	-102	-87	Yes	21	0	n/a	0.01	NP
TDS (mg/L)	GN-GSA-MW-15 (bg)	-2.977	-122	-87	Yes	21	4.762	n/a	0.01	NP
TDS (mg/L)	GN-GSA-MW-3 (bg)	-26.35	-154	-87	Yes	21	0	n/a	0.01	NP
TDS (mg/L)	GN-GSA-MW-5	35.35	155	87	Yes	21	0	n/a	0.01	NP

# Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 10/2/2023, 6:11 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Calcium (mg/L)	GN-GSA-MW-14S (bg)	0.4261	24	87	No	21	0	n/a	0.01	NP
<b>Calcium (mg/L)</b>	<b>GN-GSA-MW-15 (bg)</b>	<b>-0.7048</b>	<b>-172</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium (mg/L)	GN-GSA-MW-2 (bg)	1.156	67	87	No	21	0	n/a	0.01	NP
<b>Calcium (mg/L)</b>	<b>GN-GSA-MW-3 (bg)</b>	<b>-8.196</b>	<b>-134</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GN-GSA-MW-5</b>	<b>5.982</b>	<b>162</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride (mg/L)</b>	<b>GN-GSA-MW-11</b>	<b>1.994</b>	<b>168</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride (mg/L)</b>	<b>GN-GSA-MW-14S (bg)</b>	<b>-0.3525</b>	<b>-147</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	GN-GSA-MW-15 (bg)	-0.1996	-80	-87	No	21	4.762	n/a	0.01	NP
Chloride (mg/L)	GN-GSA-MW-2 (bg)	0.01843	25	87	No	21	0	n/a	0.01	NP
Chloride (mg/L)	GN-GSA-MW-3 (bg)	-0.05385	-83	-87	No	21	0	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-1	0	-1	-92	No	22	0	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-14S (bg)	0.005474	72	92	No	22	36.36	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-15 (bg)	0	80	92	No	22	77.27	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-2 (bg)	0.001872	70	92	No	22	54.55	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-3 (bg)	0	6	92	No	22	13.64	n/a	0.01	NP
<b>pH (pH)</b>	<b>GN-GSA-MW-1</b>	<b>-0.02452</b>	<b>-93</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH (pH)	GN-GSA-MW-14S (bg)	-0.02094	-78	-92	No	22	0	n/a	0.01	NP
<b>pH (pH)</b>	<b>GN-GSA-MW-15 (bg)</b>	<b>-0.06518</b>	<b>-146</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH (pH)	GN-GSA-MW-2 (bg)	-0.01481	-86	-92	No	22	0	n/a	0.01	NP
<b>pH (pH)</b>	<b>GN-GSA-MW-3 (bg)</b>	<b>-0.08319</b>	<b>-95</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH (pH)	GN-GSA-MW-6	-0.02343	-64	-92	No	22	0	n/a	0.01	NP
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-14S (bg)</b>	<b>-1.143</b>	<b>-140</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate (mg/L)	GN-GSA-MW-15 (bg)	-0.1832	-68	-81	No	20	0	n/a	0.01	NP
Sulfate (mg/L)	GN-GSA-MW-2 (bg)	0.1097	26	87	No	21	0	n/a	0.01	NP
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-3 (bg)</b>	<b>-2.163</b>	<b>-178</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-5</b>	<b>20.68</b>	<b>166</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-8</b>	<b>0.4486</b>	<b>134</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>TDS (mg/L)</b>	<b>GN-GSA-MW-14S (bg)</b>	<b>-3.172</b>	<b>-102</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>TDS (mg/L)</b>	<b>GN-GSA-MW-15 (bg)</b>	<b>-2.977</b>	<b>-122</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>4.762</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
TDS (mg/L)	GN-GSA-MW-2 (bg)	-1.447	-46	-87	No	21	0	n/a	0.01	NP
<b>TDS (mg/L)</b>	<b>GN-GSA-MW-3 (bg)</b>	<b>-26.35</b>	<b>-154</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>TDS (mg/L)</b>	<b>GN-GSA-MW-5</b>	<b>35.35</b>	<b>155</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>

# Upper Tolerance Limits - Summary Table

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 10/2/2023, 5:41 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	n/a	0.00195	n/a	n/a	n/a	84	94.05	n/a	n/a	0.01345	NP Inter
Arsenic (mg/L)	n/a	0.00032	n/a	n/a	n/a	84	76.19	n/a	n/a	0.01345	NP Inter
Barium (mg/L)	n/a	0.0622	n/a	n/a	n/a	84	0	n/a	n/a	0.01345	NP Inter
Beryllium (mg/L)	n/a	0.001015	n/a	n/a	n/a	84	100	n/a	n/a	0.01345	NP Inter
Cadmium (mg/L)	n/a	0.000203	n/a	n/a	n/a	84	100	n/a	n/a	0.01345	NP Inter
Chromium (mg/L)	n/a	0.00102	n/a	n/a	n/a	84	72.62	n/a	n/a	0.01345	NP Inter
Cobalt (mg/L)	n/a	0.00313	n/a	n/a	n/a	84	85.71	n/a	n/a	0.01345	NP Inter
Combined Radium 226 + 228 (pCi/L)	n/a	2.36	n/a	n/a	n/a	84	2.381	n/a	n/a	0.01345	NP Inter
Fluoride (mg/L)	n/a	0.125	n/a	n/a	n/a	88	45.45	n/a	n/a	0.01096	NP Inter
Lead (mg/L)	n/a	0.00023	n/a	n/a	n/a	84	92.86	n/a	n/a	0.01345	NP Inter
Lithium (mg/L)	n/a	0.02	n/a	n/a	n/a	84	100	n/a	n/a	0.01345	NP Inter
Mercury (mg/L)	n/a	0.0005	n/a	n/a	n/a	84	100	n/a	n/a	0.01345	NP Inter
Molybdenum (mg/L)	n/a	0.01015	n/a	n/a	n/a	84	85.71	n/a	n/a	0.01345	NP Inter
Selenium (mg/L)	n/a	0.001015	n/a	n/a	n/a	84	96.43	n/a	n/a	0.01345	NP Inter
Thallium (mg/L)	n/a	0.000228	n/a	n/a	n/a	84	98.81	n/a	n/a	0.01345	NP Inter

<b>GASTON GYPSUM POND GWPS</b>			
<b>Analyte</b>	<b>Units</b>	<b>Background</b>	<b>GWPS</b>
Antimony	mg/L	0.00195	0.006
Arsenic	mg/L	0.00032	0.01
Barium	mg/L	0.0622	2
Beryllium	mg/L	0.001015	0.004
Cadmium	mg/L	0.000203	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	0.125	4
Lead	mg/L	0.00023	0.015
Lithium	mg/L	0.02	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.01015	0.1
Selenium	mg/L	0.001015	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 2023.

# Appendix IV Confidence Intervals - Significant Results

Plant Gaston Data: Gaston GSA Printed 10/2/2023, 7:40 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Barium (mg/L)	GN-GSA-MW-1	2.567	2.068	2	Yes	8	0	None	No	0.01	Param.

# Appendix IV Confidence Intervals - All Results

Plant Gaston    Data: Gaston GSA    Printed 10/2/2023, 7:40 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GN-GSA-MW-10	0.001015	0.000552	0.006	No	8	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-GSA-MW-6	0.001015	0.000644	0.006	No	8	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-1	0.005007	0.001716	0.01	No	8	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-GSA-MW-10	0.000215	0.00007	0.01	No	8	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-11	0.000203	0.00009	0.01	No	8	37.5	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-GSA-MW-12	0.005	0.000124	0.01	No	8	25	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-GSA-MW-13	0.005	0.00012	0.01	No	8	25	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-GSA-MW-5	0.005	0.00057	0.01	No	8	25	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-GSA-MW-6	0.000203	0.00008	0.01	No	8	50	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-GSA-MW-7	0.001246	0.0002784	0.01	No	8	12.5	None	ln(x)	0.01	Param.
Arsenic (mg/L)	GN-GSA-MW-8	0.001342	0.001153	0.01	No	8	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-GSA-MW-9	0.0001948	0.00009498	0.01	No	8	37.5	Kaplan-Meier	No	0.01	Param.
<b>Barium (mg/L)</b>	<b>GN-GSA-MW-1</b>	<b>2.567</b>	<b>2.068</b>	<b>2</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Barium (mg/L)	GN-GSA-MW-10	0.0387	0.03395	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-11	0.01478	0.005234	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-12	0.02525	0.0196	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-13	0.04222	0.03668	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-5	0.07513	0.04567	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-6	0.01981	0.01601	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-7	0.019	0.0162	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-8	0.02805	0.02548	2	No	8	0	None	ln(x)	0.01	Param.
Barium (mg/L)	GN-GSA-MW-9	0.02452	0.02186	2	No	8	0	None	No	0.01	Param.
Cadmium (mg/L)	GN-GSA-MW-10	0.000203	0.000079	0.005	No	8	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-1	0.001015	0.00021	0.1	No	8	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-10	0.001015	0.00023	0.1	No	8	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-11	0.001015	0.000239	0.1	No	8	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-12	0.001015	0.00021	0.1	No	8	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-13	0.01	0.000417	0.1	No	8	25	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-GSA-MW-5	0.001015	0.000239	0.1	No	8	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-GSA-MW-6	0.001015	0.000217	0.1	No	8	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-GSA-MW-7	0.001015	0.000299	0.1	No	8	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-GSA-MW-8	0.01	0.000291	0.1	No	8	25	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-GSA-MW-9	0.001015	0.000207	0.1	No	8	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-GSA-MW-10	0.000912	0.000174	0.006	No	8	75	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-11	0.002977	0.002178	0.006	No	8	12.5	None	No	0.01	Param.
Cobalt (mg/L)	GN-GSA-MW-12	0.005	0.000075	0.006	No	8	25	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-GSA-MW-13	0.0002	0.000074	0.006	No	8	37.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-GSA-MW-5	0.003595	0.001382	0.006	No	8	25	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	GN-GSA-MW-6	0.005	0.00065	0.006	No	8	25	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-GSA-MW-7	0.005	0.00033	0.006	No	8	25	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-GSA-MW-8	0.005	0.00007	0.006	No	8	25	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-GSA-MW-9	0.0002227	0.00005031	0.006	No	8	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-1	1.478	0.9676	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-10	1.101	0.2012	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-11	0.7175	0.1768	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-12	1.416	0.2345	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-13	0.8428	0.2562	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-5	1.088	0.2246	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-6	1.286	0.08663	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-7	0.773	0.08273	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-8	1.251	0.09639	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-9	1.015	0.1876	5	No	8	0	None	No	0.01	Param.



# Appendix IV Confidence Intervals - All Results

Plant Gaston Data: Gaston GSA Printed 10/2/2023, 7:40 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GN-GSA-MW-1	0.3538	0.2892	4	No	8	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-GSA-MW-10	0.125	0.0617	4	No	8	87.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-GSA-MW-12	0.125	0.0586	4	No	8	62.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-GSA-MW-13	0.125	0.0614	4	No	8	37.5	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-GSA-MW-5	0.125	0.099	4	No	8	87.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-GSA-MW-7	0.1246	0.08602	4	No	8	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-GSA-MW-8	0.1334	0.07954	4	No	8	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-GSA-MW-9	0.125	0.0602	4	No	8	75	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-GSA-MW-1	0.000345	0.000203	0.015	No	8	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-GSA-MW-10	0.000203	0.00008	0.015	No	8	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-GSA-MW-11	0.000203	0.000078	0.015	No	8	62.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-GSA-MW-5	0.000203	0.000092	0.015	No	8	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-GSA-MW-6	0.005	0.000305	0.015	No	8	25	None	No	0.004	NP (normality)
Lead (mg/L)	GN-GSA-MW-9	0.000203	0.00011	0.015	No	8	87.5	None	No	0.004	NP (NDs)
Lithium (mg/L)	GN-GSA-MW-1	0.009983	0.009567	0.04	No	8	12.5	None	No	0.01	Param.
Molybdenum (mg/L)	GN-GSA-MW-1	0.004545	0.003054	0.1	No	8	12.5	None	No	0.01	Param.
Molybdenum (mg/L)	GN-GSA-MW-12	0.01015	0.000207	0.1	No	8	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-GSA-MW-13	0.01015	0.00016	0.1	No	8	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-GSA-MW-5	0.01015	0.00009	0.1	No	8	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-GSA-MW-7	0.01015	0.000232	0.1	No	8	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-GSA-MW-8	0.005075	0.00318	0.1	No	8	12.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-GSA-MW-9	0.01015	0.000207	0.1	No	8	37.5	None	No	0.004	NP (normality)

# Appendix IV Trend Tests - Confidence Interval Exceedances - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 10/5/2023, 10:57 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Barium (mg/L)	GN-GSA-MW-1	0.1198	116	87	Yes	21	0	n/a	0.01	NP
Barium (mg/L)	GN-GSA-MW-14S (bg)	-0.002203	-130	-87	Yes	21	0	n/a	0.01	NP
Barium (mg/L)	GN-GSA-MW-15 (bg)	-0.0004201	-109	-87	Yes	21	0	n/a	0.01	NP
Barium (mg/L)	GN-GSA-MW-3 (bg)	-0.003358	-138	-87	Yes	21	0	n/a	0.01	NP

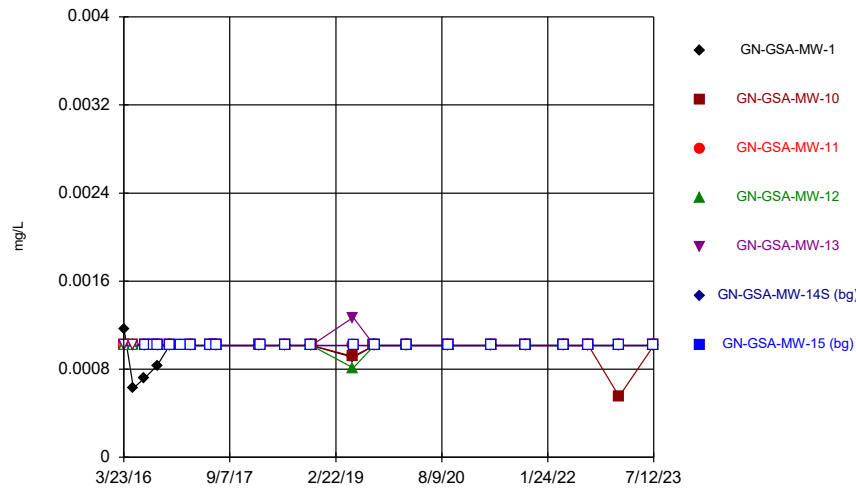
# Appendix IV Trend Tests - Confidence Interval Exceedances - All Results

Plant Gaston    Client: Southern Company    Data: Gaston GSA    Printed 10/5/2023, 10:57 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Alpha</u>	<u>Method</u>
Barium (mg/L)	GN-GSA-MW-1	0.1198	116	87	Yes	21	0	n/a	0.01	NP
Barium (mg/L)	GN-GSA-MW-14S (bg)	-0.002203	-130	-87	Yes	21	0	n/a	0.01	NP
Barium (mg/L)	GN-GSA-MW-15 (bg)	-0.0004201	-109	-87	Yes	21	0	n/a	0.01	NP
Barium (mg/L)	GN-GSA-MW-2 (bg)	0.000046063		87	No	21	0	n/a	0.01	NP
Barium (mg/L)	GN-GSA-MW-3 (bg)	-0.003358	-138	-87	Yes	21	0	n/a	0.01	NP

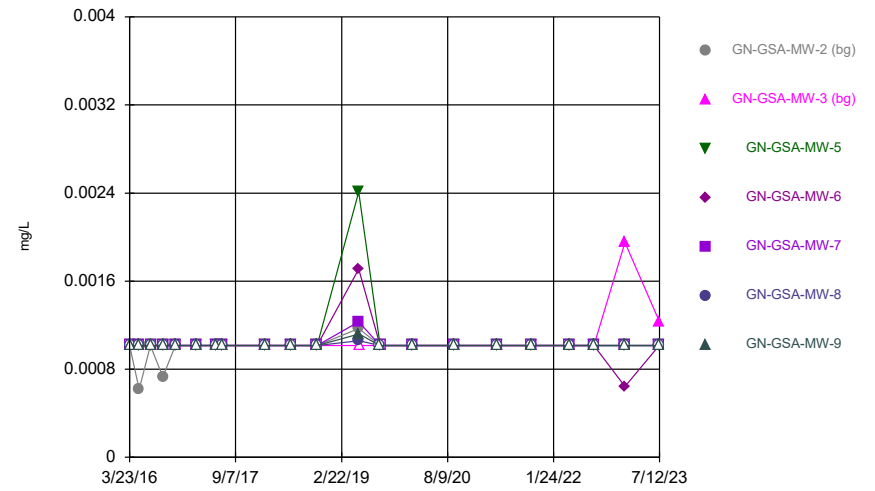
FIGURE A.

### Time Series



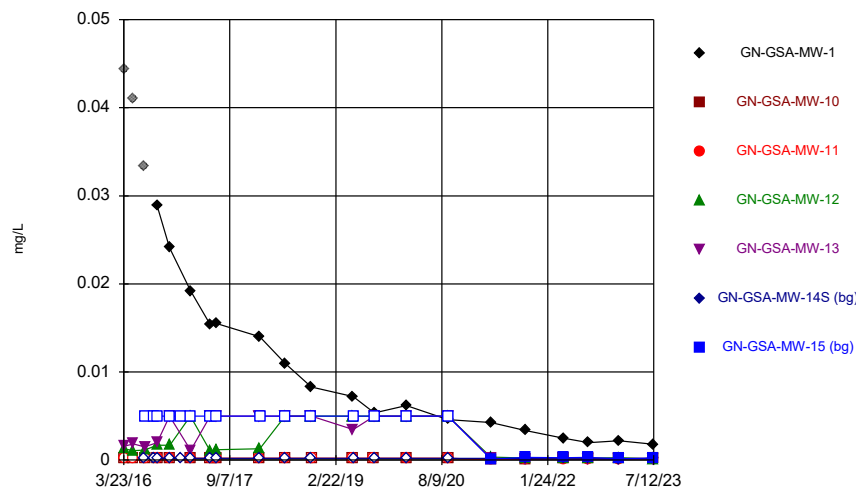
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Plant Gaston Client: Southern Company Data: Gaston GSA

### Time Series



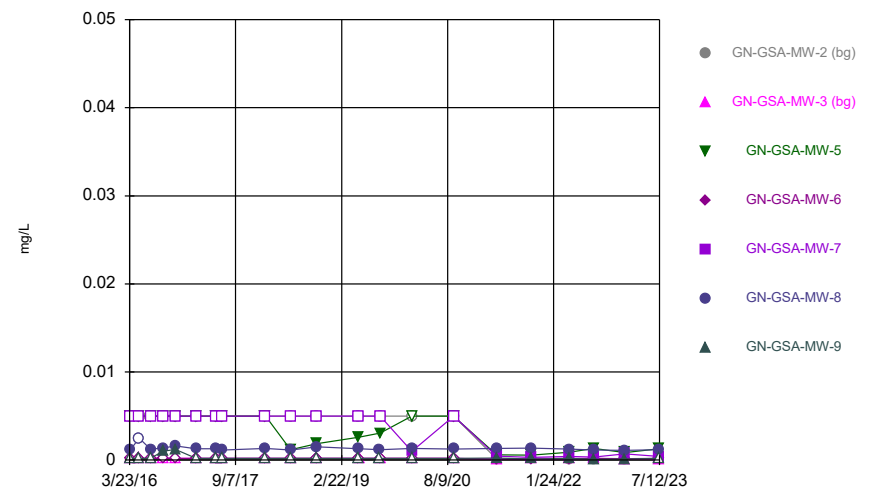
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Plant Gaston Client: Southern Company Data: Gaston GSA

### Time Series



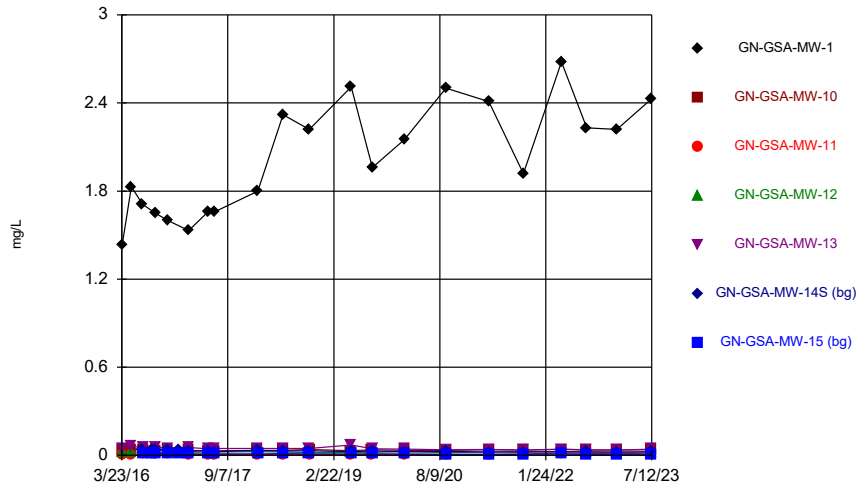
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### Time Series



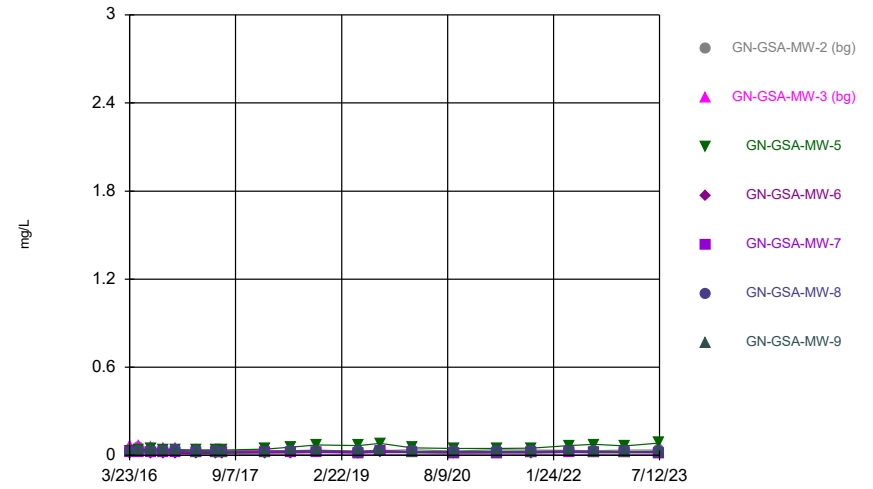
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### Time Series



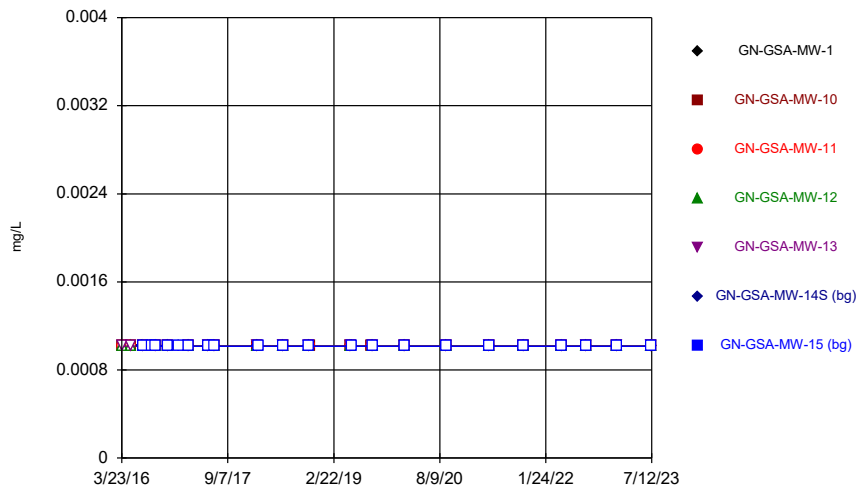
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### Time Series



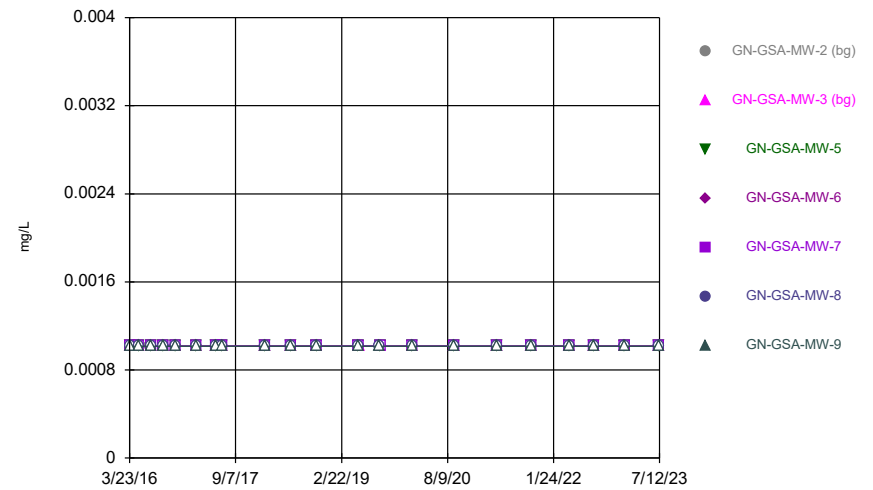
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### Time Series



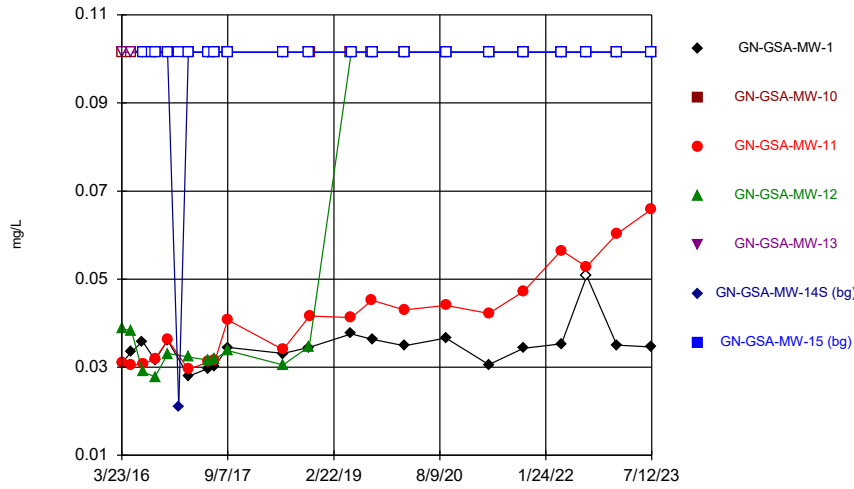
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### Time Series



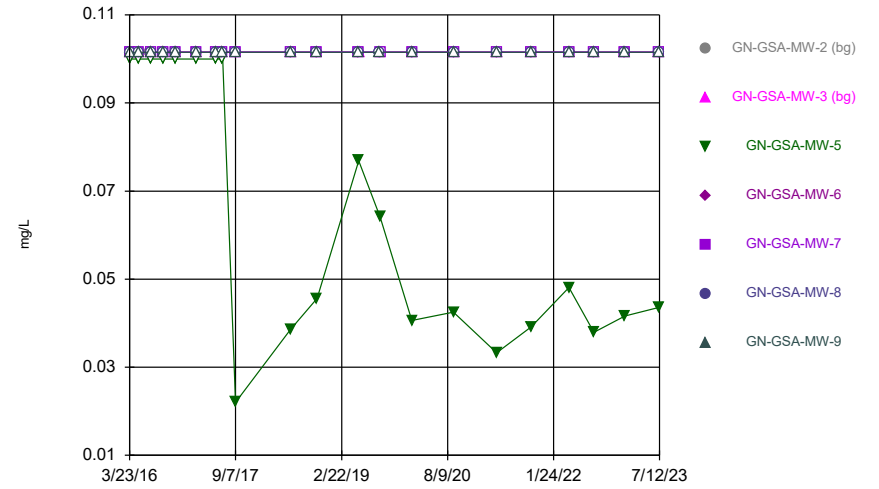
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Plant Gaston Client: Southern Company Data: Gaston GSA

### Time Series



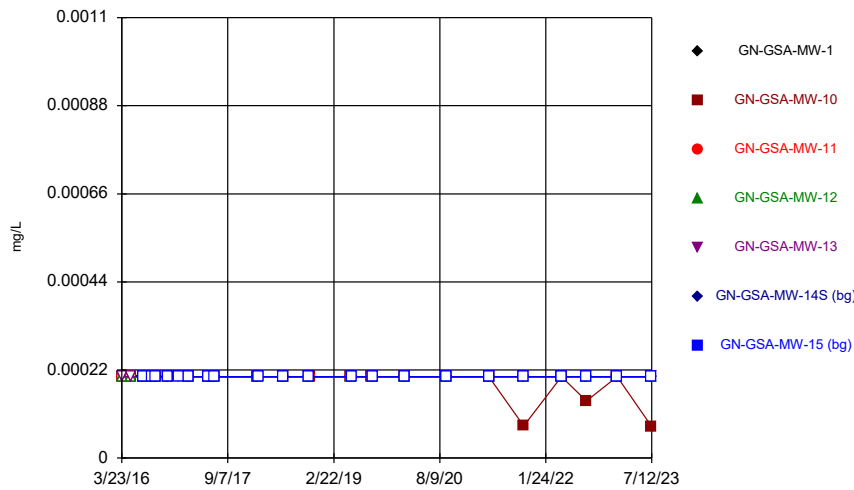
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### Time Series



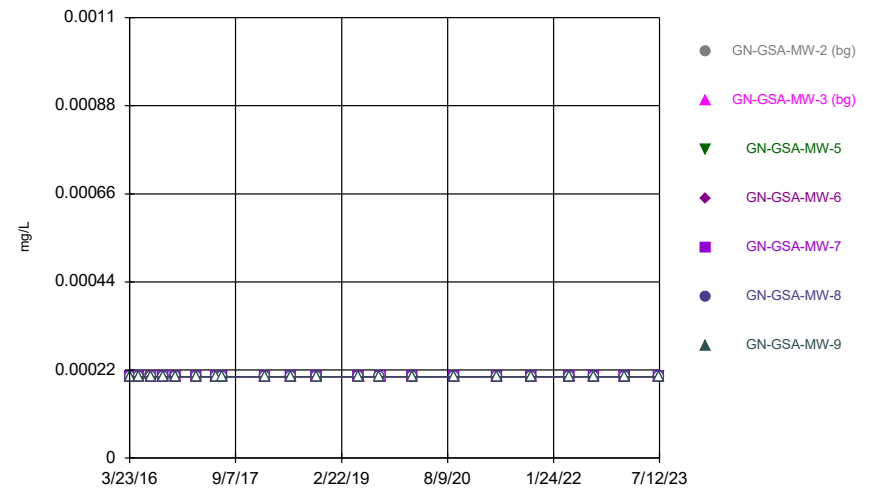
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### Time Series



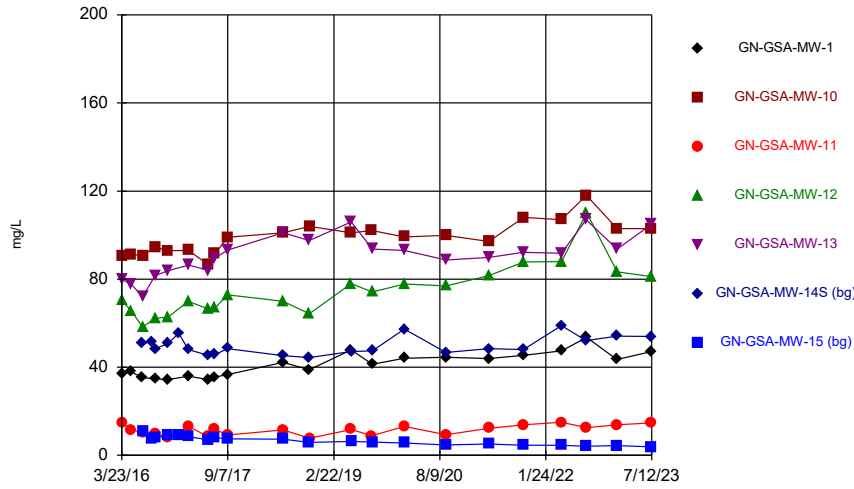
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### Time Series



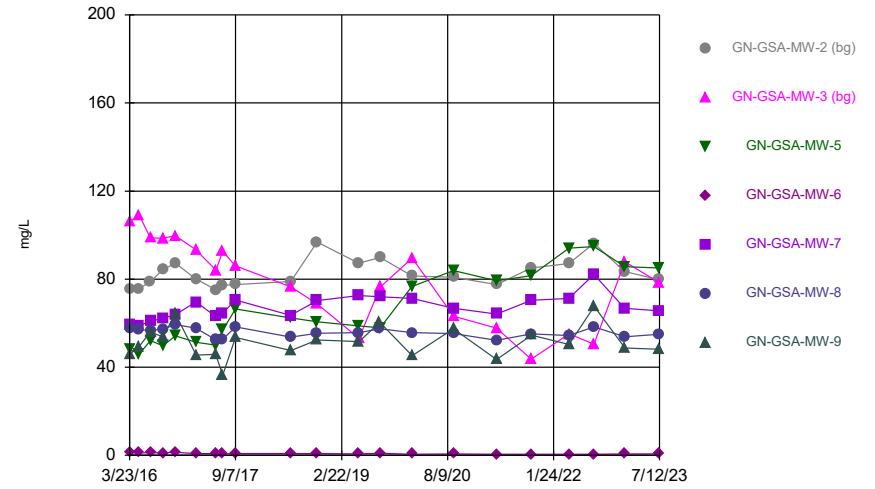
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### Time Series



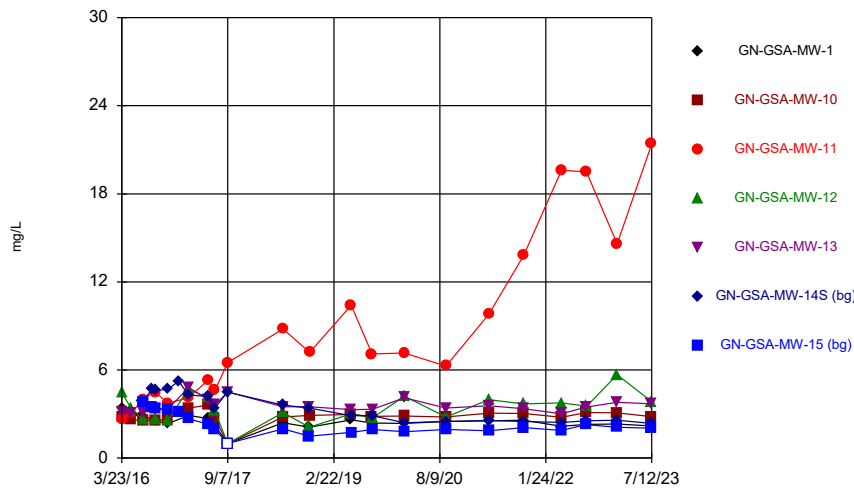
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 Plant Gaston Client: Southern Company Data: Gaston GSA

### Time Series



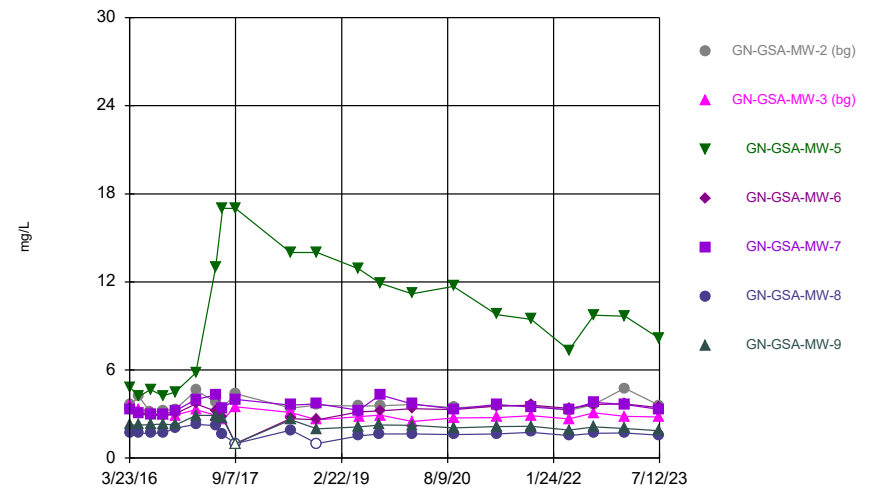
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 Plant Gaston Client: Southern Company Data: Gaston GSA

### Time Series



Constituent: Chloride Analysis Run 10/2/2023 5:58 PM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

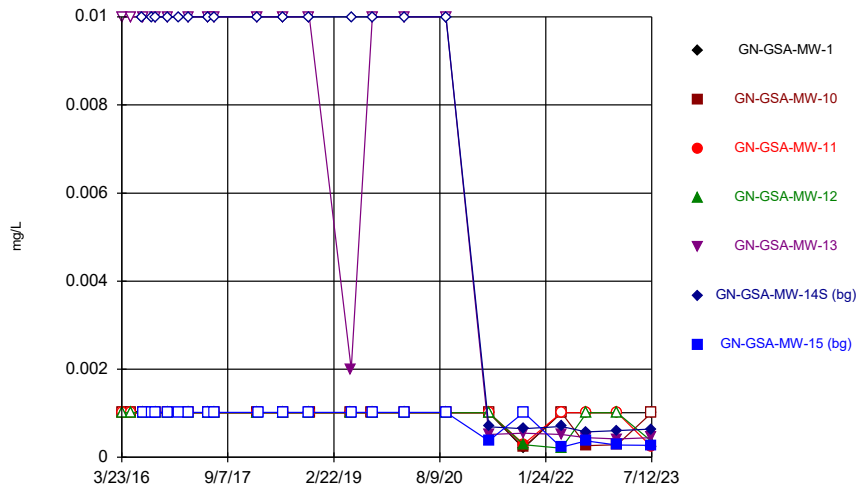
### Time Series



Constituent: Chloride Analysis Run 10/2/2023 5:58 PM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

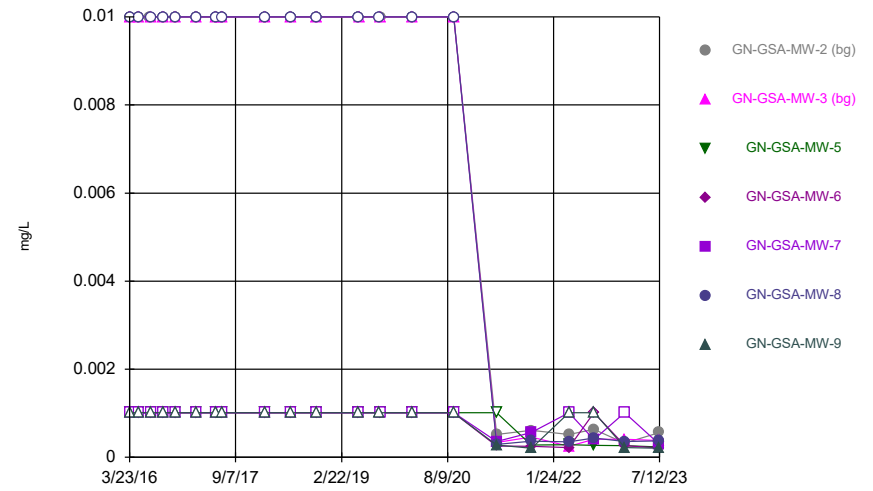


### Time Series



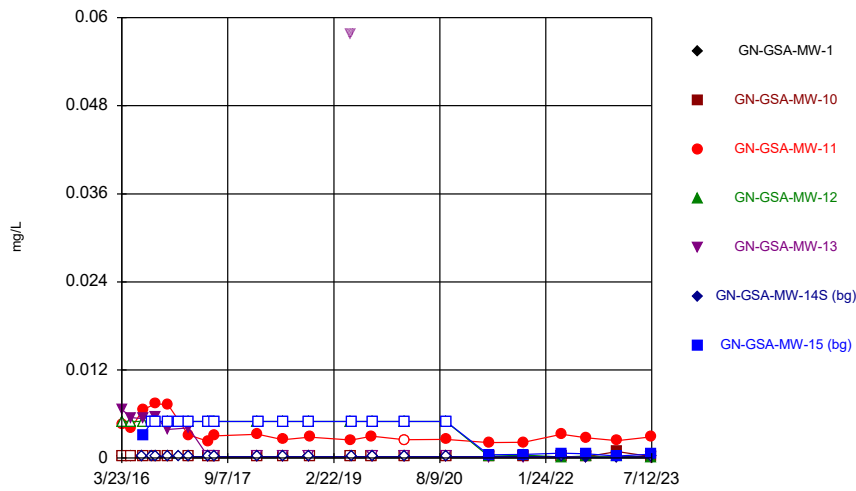
Constituent: Chromium Analysis Run 10/2/2023 5:58 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Time Series



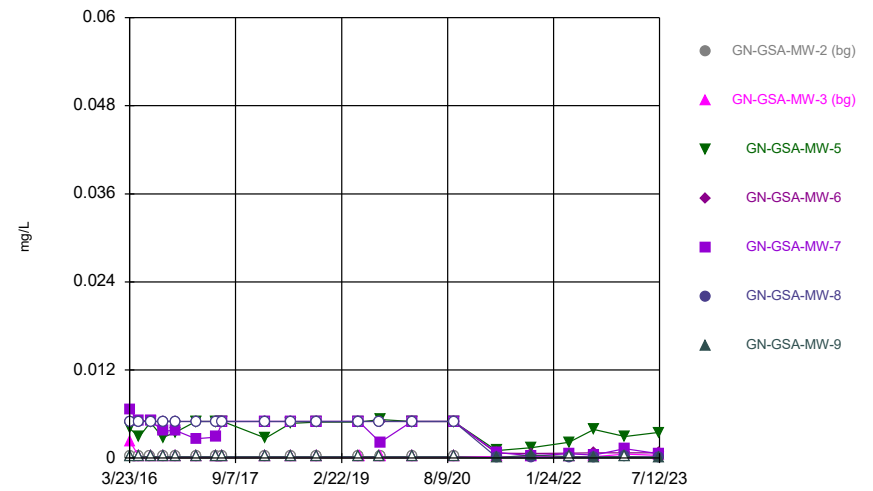
Constituent: Chromium Analysis Run 10/2/2023 5:58 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Time Series



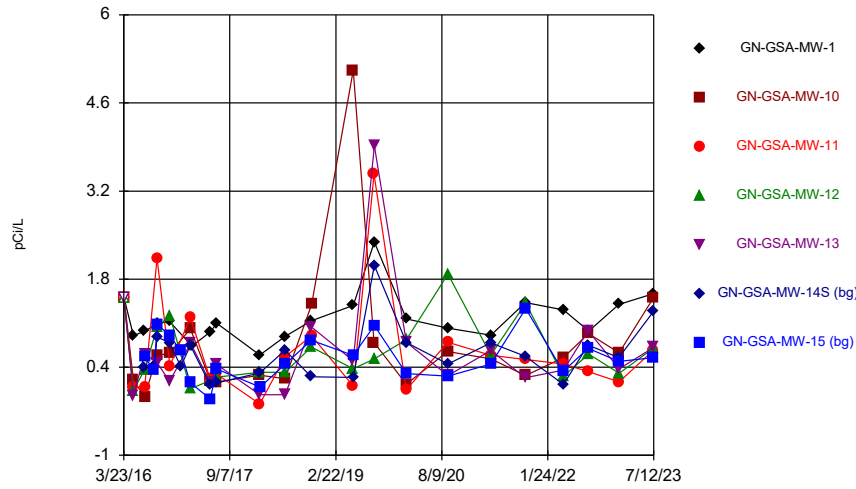
Constituent: Cobalt Analysis Run 10/2/2023 5:58 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Time Series



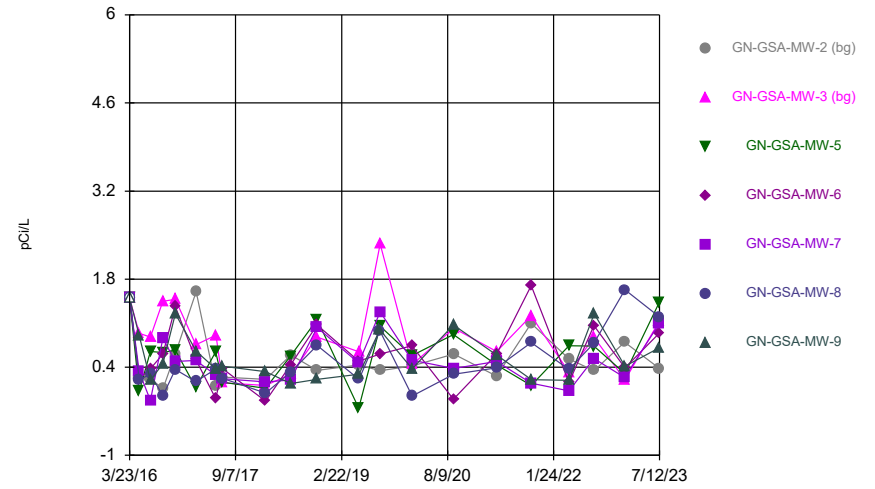
Constituent: Cobalt Analysis Run 10/2/2023 5:58 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Time Series



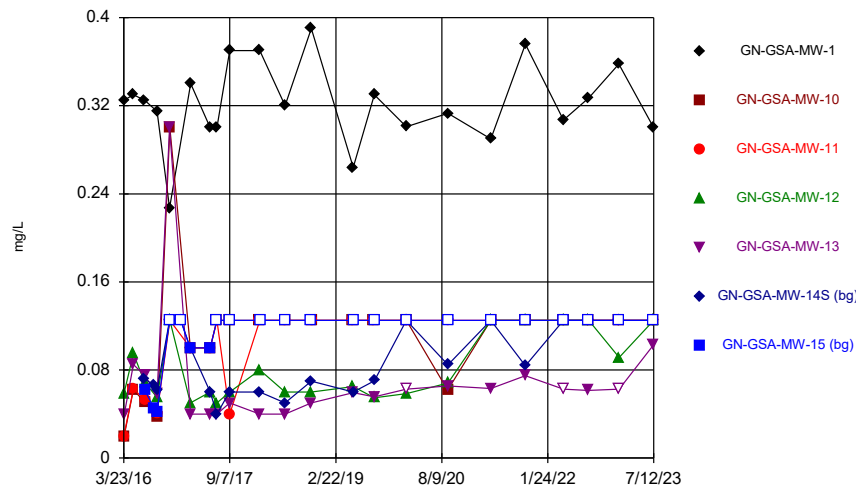
Constituent: Combined Radium 226 + 228 Analysis Run 10/2/2023 5:58 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Time Series



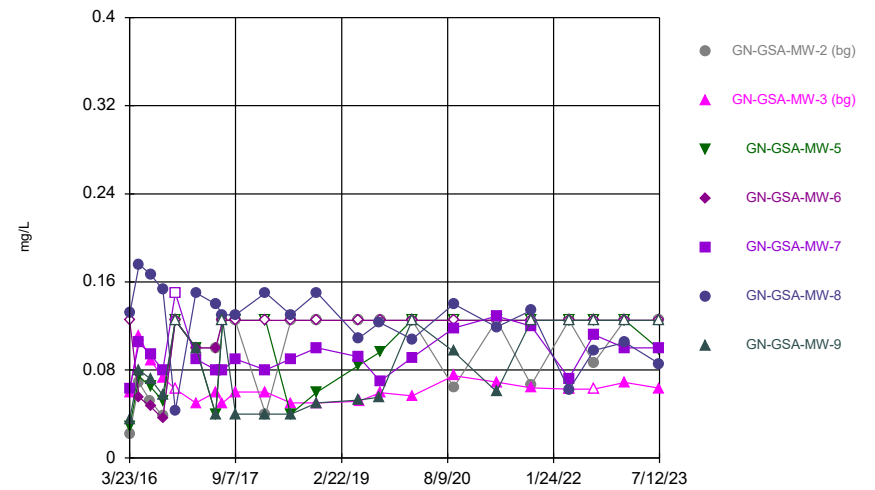
Constituent: Combined Radium 226 + 228 Analysis Run 10/2/2023 5:58 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Time Series



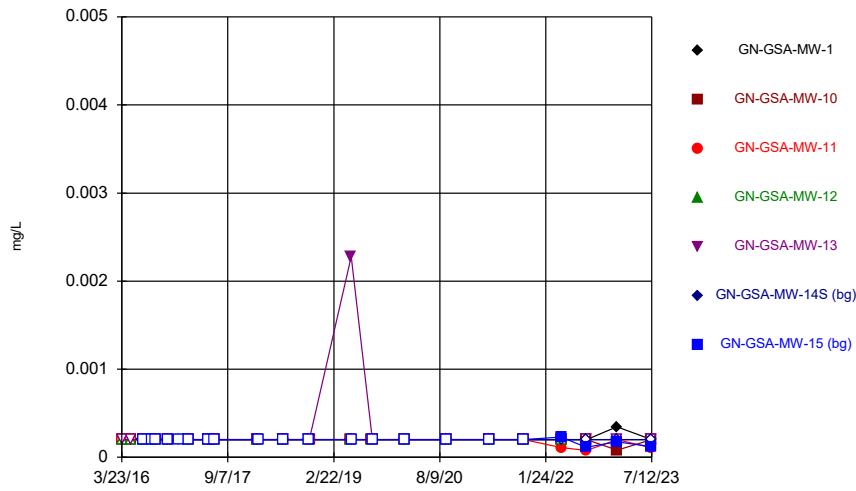
Constituent: Fluoride Analysis Run 10/2/2023 5:58 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Time Series



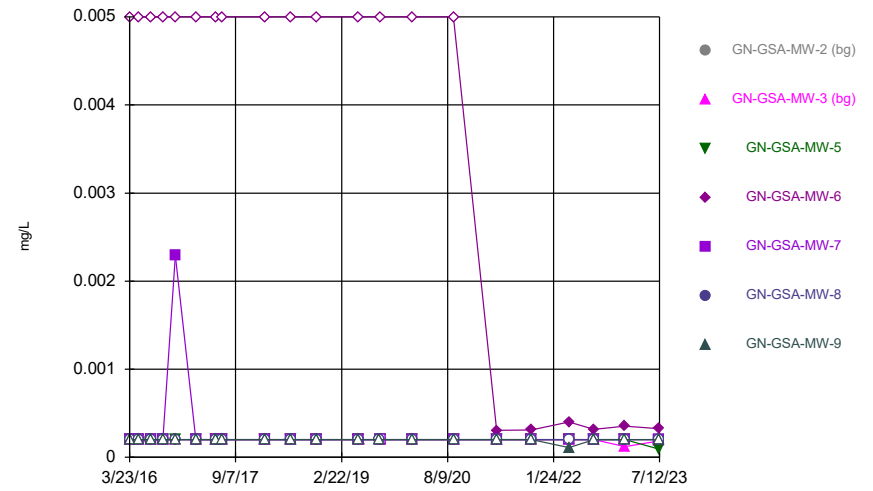
Constituent: Fluoride Analysis Run 10/2/2023 5:58 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Time Series



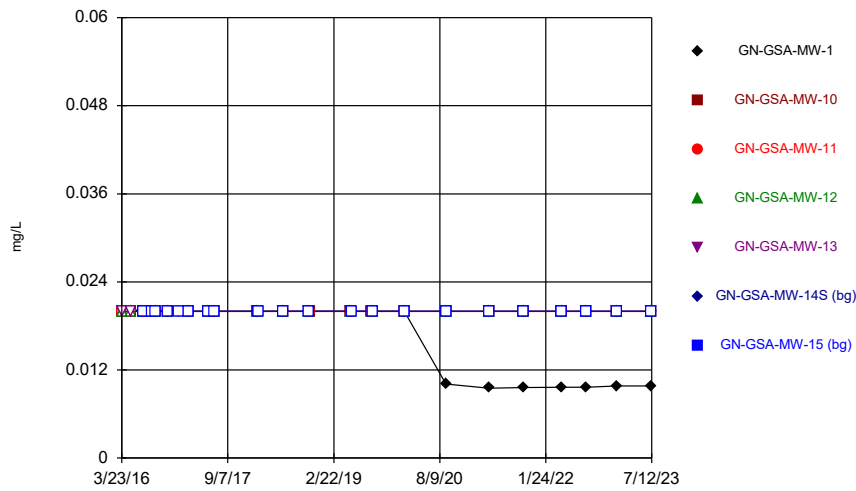
Constituent: Lead Analysis Run 10/2/2023 5:58 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Time Series



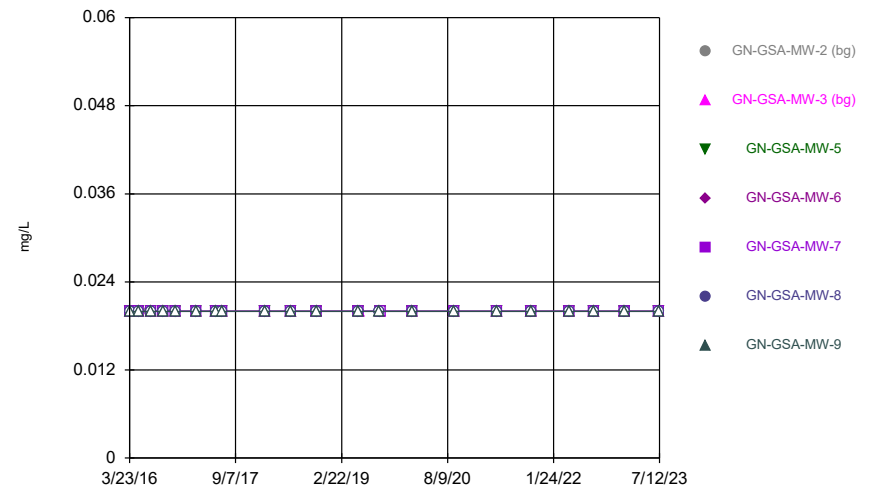
Constituent: Lead Analysis Run 10/2/2023 5:58 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Time Series



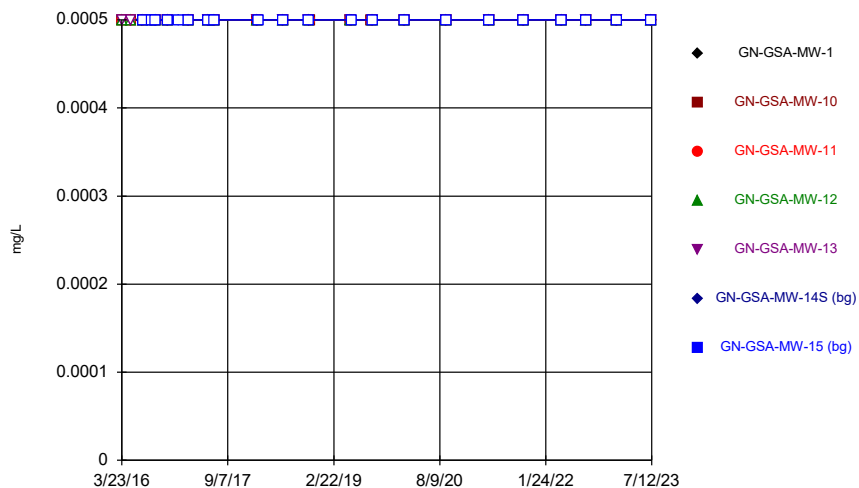
Constituent: Lithium Analysis Run 10/2/2023 5:58 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Time Series

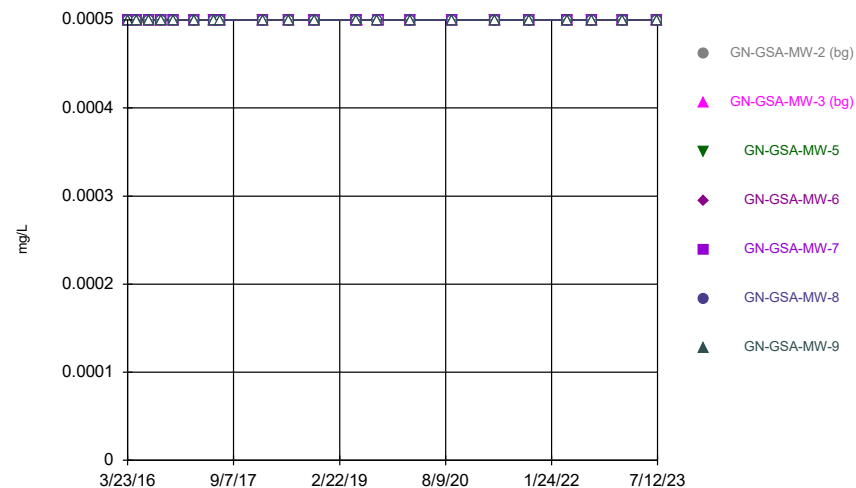


Constituent: Lithium Analysis Run 10/2/2023 5:58 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

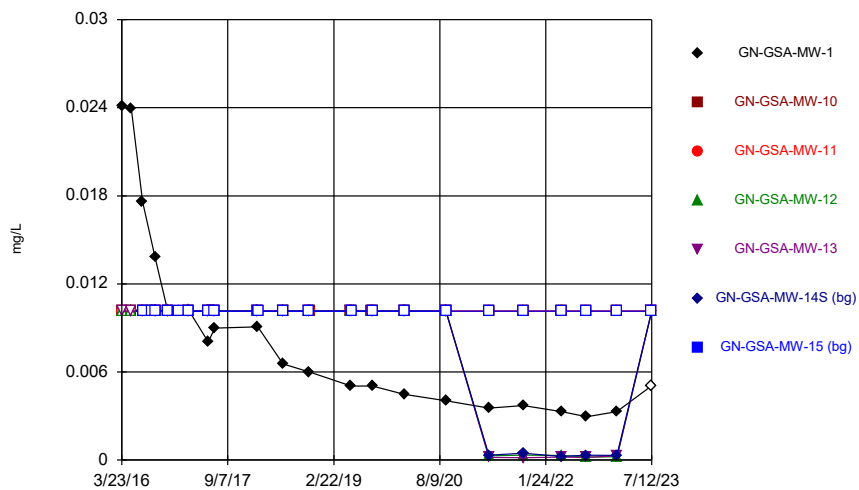
### Time Series



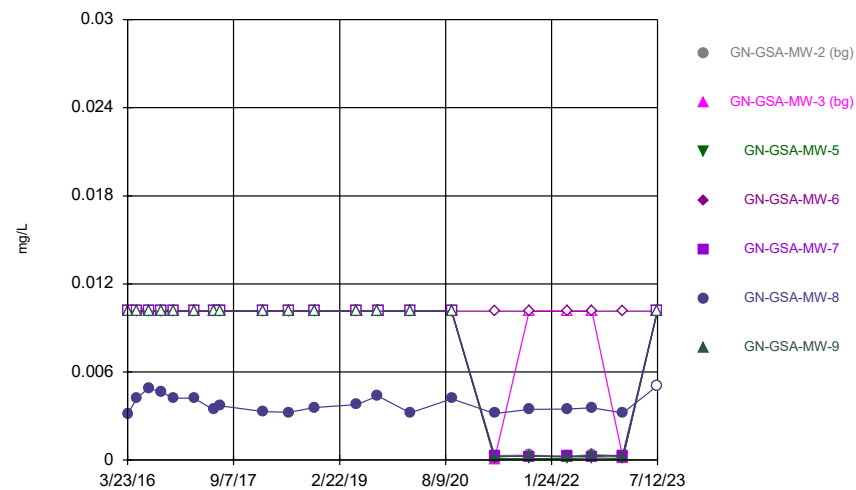
### Time Series



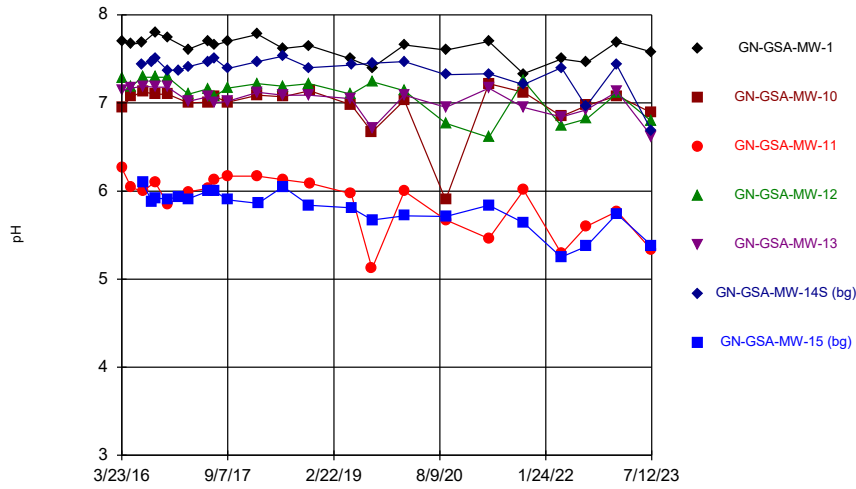
### Time Series



### Time Series

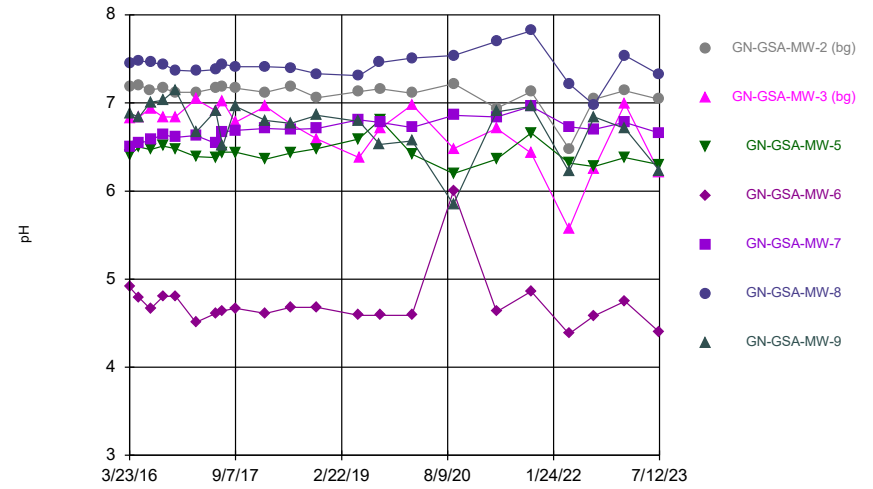


### Time Series



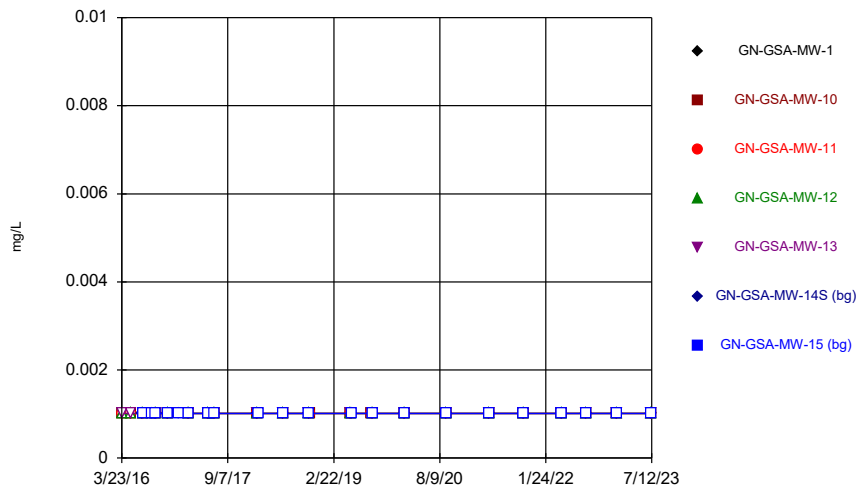
Constituent: pH Analysis Run 10/2/2023 5:58 PM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Time Series



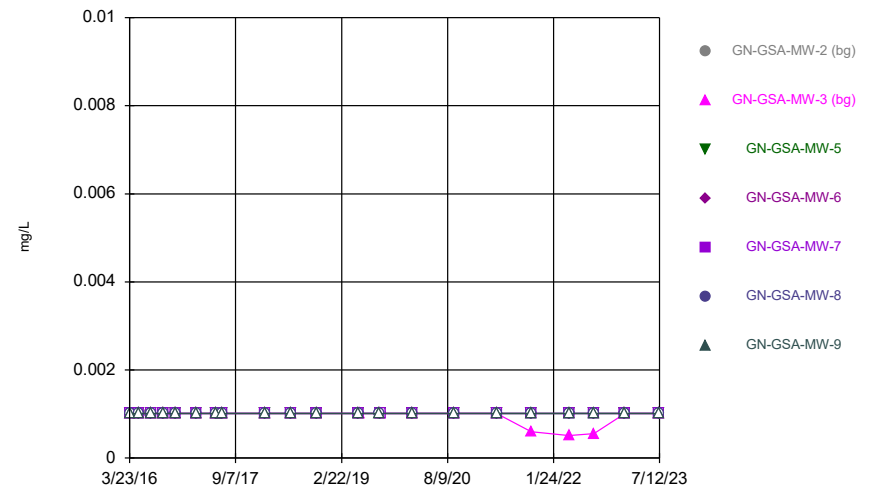
Constituent: pH Analysis Run 10/2/2023 5:58 PM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Time Series



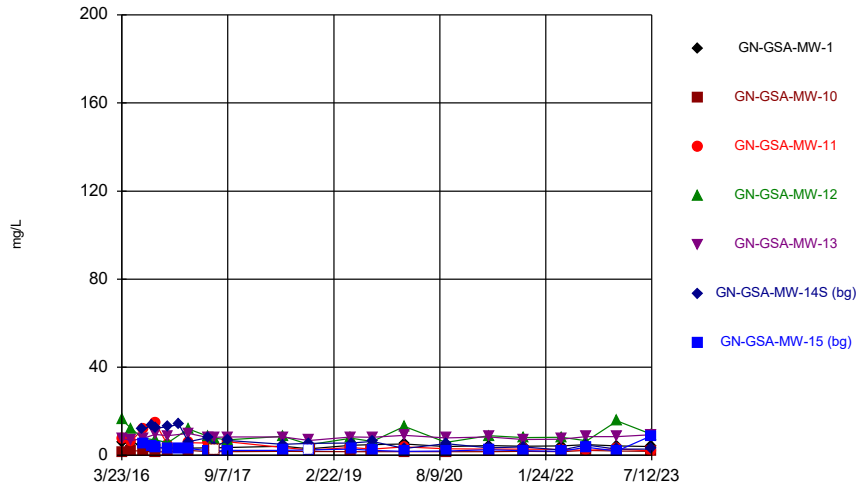
Constituent: Selenium Analysis Run 10/2/2023 5:58 PM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Time Series



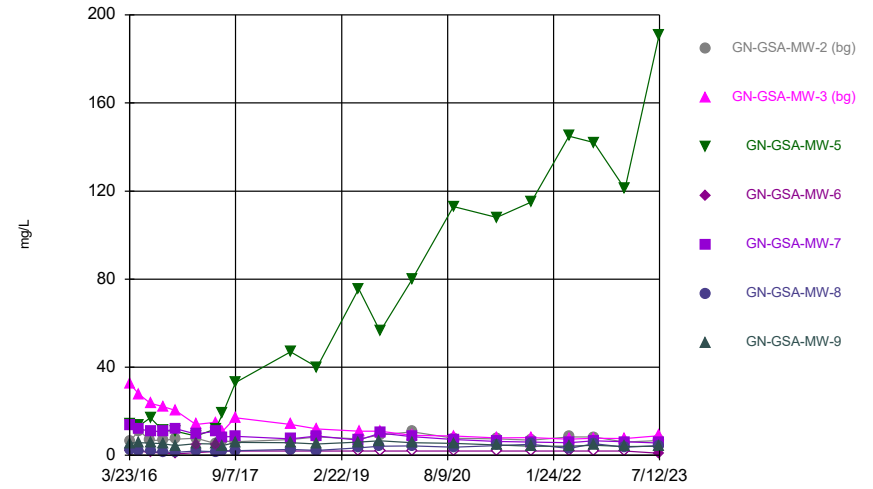
Constituent: Selenium Analysis Run 10/2/2023 5:58 PM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Time Series



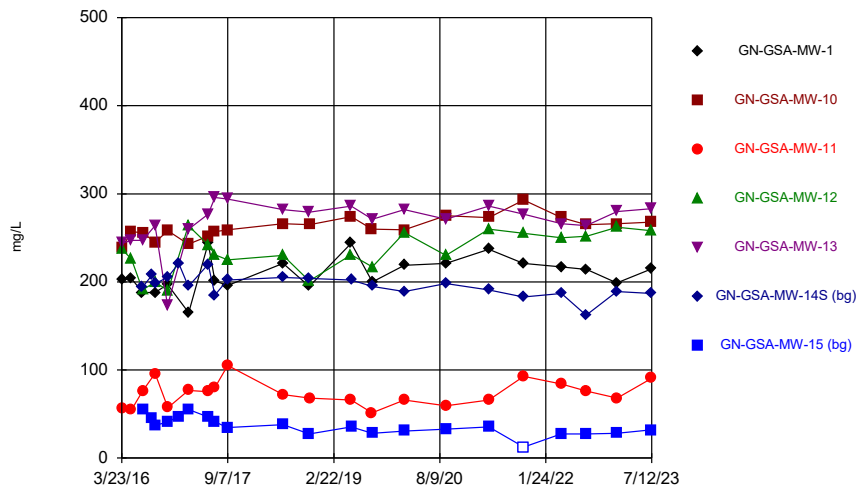
Constituent: Sulfate Analysis Run 10/2/2023 5:58 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Time Series



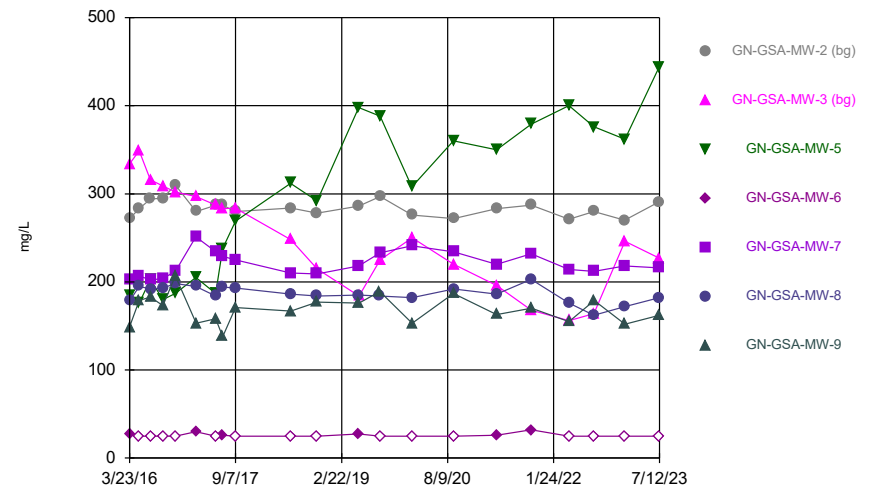
Constituent: Sulfate Analysis Run 10/2/2023 5:58 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Time Series



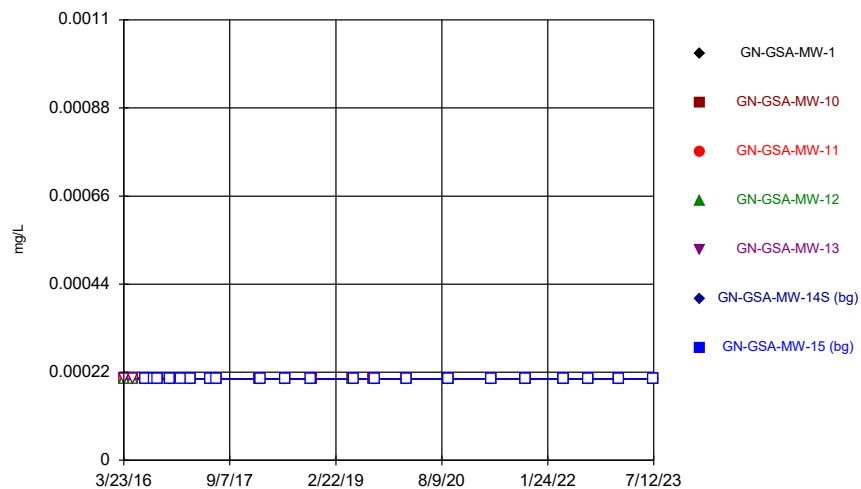
Constituent: TDS Analysis Run 10/2/2023 5:58 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Time Series



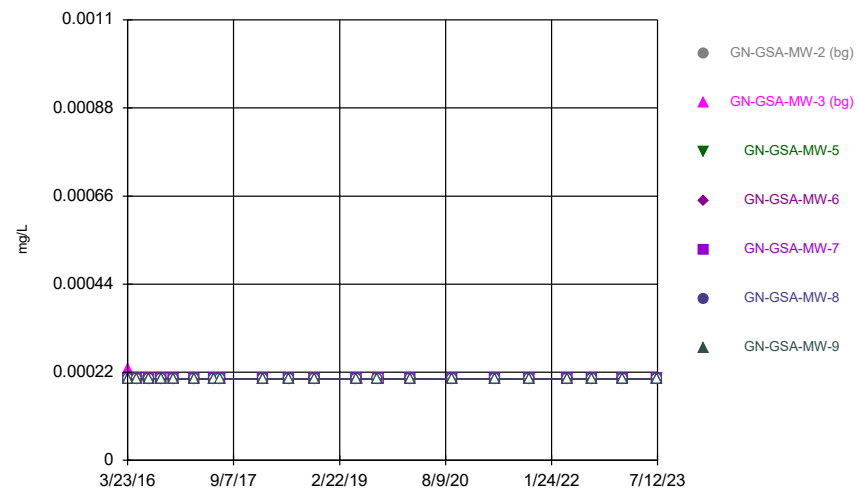
Constituent: TDS Analysis Run 10/2/2023 5:58 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Time Series



Constituent: Thallium Analysis Run 10/2/2023 5:58 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Time Series



Constituent: Thallium Analysis Run 10/2/2023 5:58 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

# Time Series

Constituent: Antimony (mg/L) Analysis Run 10/2/2023 5:59 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
10/4/2021	<0.001015				<0.001015	<0.001015	
10/5/2021		<0.001015	<0.001015	<0.001015			
10/6/2021							<0.001015
4/12/2022							<0.001015
4/13/2022	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
8/16/2022					<0.001015	<0.001015	<0.001015
8/17/2022		<0.001015	<0.001015				
8/18/2022	<0.001015			<0.001015			
1/17/2023	<0.001015					<0.001015	<0.001015
1/18/2023		0.000552 (J)	<0.001015	<0.001015	<0.001015		
7/11/2023	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
7/12/2023						<0.001015	<0.001015



# Time Series

Constituent: Antimony (mg/L) Analysis Run 10/2/2023 5:59 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
10/4/2021	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
10/5/2021							<0.001015
4/12/2022	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
8/16/2022	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
8/17/2022							<0.001015
1/17/2023	<0.001015				<0.001015		
1/18/2023		0.00195	<0.001015	0.000644 (J)		<0.001015	<0.001015
7/10/2023			<0.001015	<0.001015	<0.001015		
7/11/2023	<0.001015					<0.001015	<0.001015
7/12/2023		0.00123					

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/2/2023 5:59 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	0.0013 (J)			
3/24/2016	0.0444 (o)	<0.000203			0.00157 (J)		
5/10/2016	0.041 (o)			0.00107 (J)	0.00182 (J)		
5/11/2016		<0.000203	<0.000203				
7/5/2016	0.0333 (o)					<0.000203	
7/6/2016		<0.000203	<0.000203	0.00113 (J)	0.00152 (J)		<0.005
8/23/2016						<0.000203	<0.005
9/6/2016	0.0289	<0.000203		0.00169 (J)	0.00197 (J)		
9/7/2016			<0.000203			<0.000203	<0.005
11/8/2016	0.0241				<0.005	<0.000203	<0.005
11/9/2016		<0.000203	<0.000203	0.00168 (J)			
1/3/2017						<0.000203	<0.005
2/20/2017							<0.005
2/21/2017		<0.000203	<0.000203	<0.005		<0.000203	
2/22/2017	0.0192				0.0011 (J)		
5/31/2017	0.0154	<0.000203	<0.000203	0.00102 (J)	<0.005	<0.000203	<0.005
7/5/2017	0.0155	<0.000203	<0.000203	0.00117 (J)	<0.005	<0.000203	<0.005
2/5/2018	0.014			0.00127 (J)	<0.005		
2/6/2018		<0.000203	<0.000203			<0.000203	
2/7/2018							<0.005
6/12/2018	0.011	<0.000203	<0.000203	<0.005	<0.005	<0.000203	<0.005
10/23/2018	0.00829			<0.005	<0.005	<0.000203	<0.005
10/24/2018		<0.000203	<0.000203				
5/21/2019	0.00722	<0.000203	<0.000203	<0.005	0.00348 (J)		
5/22/2019						<0.000203	<0.005
9/3/2019		<0.000203	<0.000203				
9/4/2019	0.00534			<0.005	<0.005	<0.000203	<0.005
2/12/2020	0.0062	<0.000203	<0.000203	<0.005	<0.005	<0.000203	<0.005
9/8/2020		<0.000203					
9/9/2020	0.0046 (J)		<0.000203	<0.005	<0.005	<0.000203	<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)
10/4/2021	0.00335				0.00012 (J)	0.00016 (J)	
10/5/2021		7E-05 (J)	0.00011 (J)	0.00023			
10/6/2021							0.00032
4/12/2022							0.00028
4/13/2022	0.00248	<0.000203	9E-05 (J)	0.00021	0.00014 (J)	0.00014 (J)	
8/16/2022					0.000131 (J)	0.00014 (J)	0.000298
8/17/2022		<0.000203	0.000109 (J)				
8/18/2022	0.00199			0.000189 (J)			
1/17/2023	0.00221					0.000122 (J)	0.000172 (J)
1/18/2023		0.000215	0.000103 (J)	0.000254	0.000122 (J)		
7/11/2023	0.00179	<0.000203	<0.000203	0.000124 (J)	0.000131 (J)		
7/12/2023						<0.000203	0.000216

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/2/2023 5:59 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	<0.000203	<0.005	<0.000203	<0.005		<0.000203
3/24/2016						0.00112 (J)	
5/10/2016	<0.005	<0.000203					
5/11/2016			<0.005	<0.000203	<0.005	<0.005	<0.000203
7/5/2016	<0.005						
7/6/2016		<0.000203	<0.005	<0.000203	<0.005	0.00124 (J)	<0.000203
9/6/2016	<0.005		<0.005	<0.000203	<0.005	0.00137 (J)	
9/7/2016		<0.000203					0.00101 (J)
11/8/2016	<0.005	<0.000203	<0.005	<0.000203	<0.005	0.00162 (J)	0.00121 (J)
2/20/2017		<0.000203	<0.005	<0.000203	<0.005	0.00127 (J)	
2/21/2017	<0.005						<0.000203
5/30/2017			<0.005	<0.000203		0.00129 (J)	<0.000203
5/31/2017	<0.005	<0.000203			<0.005		
7/5/2017	<0.005	<0.000203	<0.005	<0.000203	<0.005	0.00116 (J)	<0.000203
2/5/2018	<0.005						
2/6/2018		<0.000203	<0.005	<0.000203	<0.005	0.00131 (J)	<0.000203
6/11/2018			0.00119 (J)	<0.000203	<0.005		
6/12/2018	<0.005	<0.000203				0.00115 (J)	<0.000203
10/22/2018	<0.005		0.00188 (J)	<0.000203	<0.005	0.0015 (J)	<0.000203
10/23/2018		<0.000203					
5/20/2019	<0.005		0.00259 (J)	<0.000203	<0.005		
5/21/2019						0.00128 (J)	<0.000203
5/22/2019		<0.000203					
9/3/2019						0.00118 (J)	<0.000203
9/4/2019	<0.005	<0.000203	0.00305 (J)	<0.000203	<0.005		
2/11/2020			<0.005	<0.000203	0.001 (J)		
2/12/2020	<0.005	<0.000203				0.00133 (J)	<0.000203
9/8/2020			<0.005	<0.000203			<0.000203
9/9/2020	<0.005	<0.000203			<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
10/4/2021	0.00017 (J)	<0.000203	0.00057	8E-05 (J)	0.00029	0.00135	
10/5/2021							0.00014 (J)
4/12/2022	0.0001 (J)	<0.000203	0.0009	0.00011 (J)	0.00043	0.00124	0.00018 (J)
8/16/2022	8.2E-05 (J)	<0.000203	0.00134	<0.000203	0.000335	0.00116	
8/17/2022							8.6E-05 (J)
1/17/2023	0.000132 (J)				0.000711		
1/18/2023		0.000116 (J)	0.000836	0.000157 (J)		0.00111	0.000121 (J)
7/10/2023			0.0013	<0.000203	0.000416		
7/11/2023	0.000148 (J)					0.00119	<0.000203
7/12/2023		0.000127 (J)					

# Time Series

Constituent: Barium (mg/L) Analysis Run 10/2/2023 5:59 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
4/12/2022							0.00927
4/13/2022	2.68	0.0403	0.0162	0.0272	0.0415	0.0217	
8/16/2022					0.0383	0.0251	0.0074
8/17/2022		0.0361	0.0131				
8/18/2022	2.23			0.0204			
1/17/2023	2.22					0.0201	0.00718
1/18/2023		0.0354	0.0106	0.0223	0.0351		
7/11/2023	2.43	0.0381	0.0152	0.0227	0.0426		
7/12/2023						0.0258	0.00706

# Time Series

Constituent: Barium (mg/L) Analysis Run 10/2/2023 5:59 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
4/12/2022	0.034	0.0309	0.0666	0.0214	0.0192	0.0294	0.0252
8/16/2022	0.0314	0.025	0.0743	0.0178	0.0175	0.0275	
8/17/2022							0.0237
1/17/2023	0.0363				0.018		
1/18/2023		0.0213	0.0635	0.0176		0.0257	0.0217
7/10/2023			0.0839	0.0195	0.0165		
7/11/2023	0.0359					0.0271	0.0241
7/12/2023		0.0279					

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/2/2023 5:59 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
10/4/2021	<0.001015				<0.001015	<0.001015	
10/5/2021		<0.001015	<0.001015	<0.001015			
10/6/2021							<0.001015
4/12/2022							<0.001015
4/13/2022	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
8/16/2022					<0.001015	<0.001015	<0.001015
8/17/2022		<0.001015	<0.001015				
8/18/2022	<0.001015			<0.001015			
1/17/2023	<0.001015					<0.001015	<0.001015
1/18/2023		<0.001015	<0.001015	<0.001015	<0.001015		
7/11/2023	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
7/12/2023						<0.001015	<0.001015

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/2/2023 5:59 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
10/4/2021	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
10/5/2021							<0.001015
4/12/2022	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
8/16/2022	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
8/17/2022							<0.001015
1/17/2023	<0.001015				<0.001015		
1/18/2023		<0.001015	<0.001015	<0.001015		<0.001015	<0.001015
7/10/2023			<0.001015	<0.001015	<0.001015		
7/11/2023	<0.001015					<0.001015	<0.001015
7/12/2023		<0.001015					

# Time Series

Constituent: Boron (mg/L) Analysis Run 10/2/2023 5:59 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
4/12/2022							<0.1015
4/13/2022	0.0353 (J)	<0.1015	0.0565 (J)	<0.1015	<0.1015	<0.1015	
8/16/2022					<0.1015	<0.1015	<0.1015
8/17/2022		<0.1015	0.0528 (J)				
8/18/2022	<0.1015			<0.1015			
1/17/2023	0.035 (J)					<0.1015	<0.1015
1/18/2023		<0.1015	0.0603 (J)	<0.1015	<0.1015		
7/11/2023	0.0346 (J)	<0.1015	0.0659 (J)	<0.1015	<0.1015		
7/12/2023						<0.1015	<0.1015



# Time Series

Constituent: Boron (mg/L) Analysis Run 10/2/2023 5:59 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	<0.1	<0.1015	<0.1015		<0.1015
3/24/2016						<0.1015	
5/10/2016	<0.1015	<0.1015					
5/11/2016			<0.1	<0.1015	<0.1015	<0.1015	<0.1015
7/5/2016	<0.1015						
7/6/2016		<0.1015	<0.1	<0.1015	<0.1015	<0.1015	<0.1015
9/6/2016	<0.1015		<0.1	<0.1015	<0.1015	<0.1015	
9/7/2016		<0.1015					<0.1015
11/8/2016	<0.1015	<0.1015	<0.1	<0.1015	<0.1015	<0.1015	<0.1015
2/20/2017		<0.1015	<0.1	<0.1015	<0.1015	<0.1015	
2/21/2017	<0.1015						<0.1015
5/30/2017			<0.1	<0.1015		<0.1015	<0.1015
5/31/2017	<0.1015	<0.1015			<0.1015		
7/5/2017	<0.1015	<0.1015	<0.1	<0.1015	<0.1015	<0.1015	<0.1015
9/5/2017	<0.1015	<0.1015					
9/7/2017			0.022 (J)	<0.1015	<0.1015	<0.1015	<0.1015
6/11/2018			0.0386 (J)	<0.1015	<0.1015		
6/12/2018	<0.1015	<0.1015				<0.1015	<0.1015
10/22/2018	<0.1015		0.0456 (J)	<0.1015	<0.1015	<0.1015	<0.1015
10/23/2018		<0.1015					
5/20/2019	<0.1015		0.0769 (J)	<0.1015	<0.1015		
5/21/2019						<0.1015	<0.1015
5/22/2019		<0.1015					
9/3/2019						<0.1015	<0.1015
9/4/2019	<0.1015	<0.1015	0.0641 (J)	<0.1015	<0.1015		
2/11/2020			0.0406 (J)	<0.1015	<0.1015		
2/12/2020	<0.1015	<0.1015				<0.1015	<0.1015
9/8/2020			0.0425 (J)	<0.1015			<0.1015
9/9/2020	<0.1015	<0.1015			<0.1015	<0.1015	
4/13/2021	<0.1015	<0.1015	0.0333 (J)	<0.1015	<0.1015	<0.1015	<0.1015
10/4/2021	<0.1015	<0.1015	0.0392 (J)	<0.1015	<0.1015	<0.1015	
10/5/2021							<0.1015
4/12/2022	<0.1015	<0.1015	0.0481 (J)	<0.1015	<0.1015	<0.1015	<0.1015
8/16/2022	<0.1015	<0.1015	0.0379 (J)	<0.1015	<0.1015	<0.1015	
8/17/2022							<0.1015
1/17/2023	<0.1015				<0.1015		
1/18/2023		<0.1015	0.0416 (J)	<0.1015		<0.1015	<0.1015
7/10/2023			0.0436 (J)	<0.1015	<0.1015		
7/11/2023	<0.1015					<0.1015	<0.1015
7/12/2023		<0.1015					

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/2/2023 5:59 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
10/4/2021	<0.000203				<0.000203	<0.000203	
10/5/2021		8E-05 (J)	<0.000203	<0.000203			
10/6/2021							<0.000203
4/12/2022							<0.000203
4/13/2022	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
8/16/2022					<0.000203	<0.000203	<0.000203
8/17/2022		0.000143 (J)	<0.000203				
8/18/2022	<0.000203			<0.000203			
1/17/2023	<0.000203					<0.000203	<0.000203
1/18/2023		<0.000203	<0.000203	<0.000203	<0.000203		
7/11/2023	<0.000203	7.9E-05 (J)	<0.000203	<0.000203	<0.000203		
7/12/2023						<0.000203	<0.000203

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/2/2023 5:59 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
10/4/2021	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
10/5/2021							<0.000203
4/12/2022	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
8/16/2022	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
8/17/2022							<0.000203
1/17/2023	<0.000203				<0.000203		
1/18/2023		<0.000203	<0.000203	<0.000203		<0.000203	<0.000203
7/10/2023			<0.000203	<0.000203	<0.000203		
7/11/2023	<0.000203					<0.000203	<0.000203
7/12/2023		<0.000203					

# Time Series

Constituent: Calcium (mg/L) Analysis Run 10/2/2023 5:59 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
4/12/2022							4.59
4/13/2022	47.5	107	15	88	91.8	58.9	
8/16/2022					107	52.099998	4.13
8/17/2022		118	12.6				
8/18/2022	53.5			110			
1/17/2023	43.5					54.099998	4.39
1/18/2023		103	13.8	83.300003	93.699997		
7/11/2023	47.200001	103	14.7	81.099998	105		
7/12/2023						54	3.81

# Time Series

Constituent: Calcium (mg/L) Analysis Run 10/2/2023 5:59 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
4/12/2022	87.1	55.1	94.1	0.516	71.2	54.4	50.4
8/16/2022	96.300003	50.5	94.800003	0.516	82.199997	58.400002	
8/17/2022							67.699997
1/17/2023	83.400002				66.800003		
1/18/2023		87.900002	85.599998	0.583		53.799999	48.799999
7/10/2023			85	0.589	65.599998		
7/11/2023	79.699997					55	48.099998
7/12/2023		78.400002					

# Time Series

Constituent: Chloride (mg/L) Analysis Run 10/2/2023 5:59 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
4/12/2022							1.88
4/13/2022	2.17	2.77	19.6	3.76	3.01	2.42	
8/16/2022					3.47	2.54	2.27
8/17/2022		3.11	19.5				
8/18/2022	2.3			3.53			
1/17/2023	2.31					2.58	2.11
1/18/2023		3.09	14.6	5.68	3.8		
7/11/2023	2.18	2.82	21.4	3.84	3.69		
7/12/2023						2.36	2.04

# Time Series

Constituent: Chloride (mg/L) Analysis Run 10/2/2023 5:59 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
4/12/2022	3.23	2.67	7.35	3.38	3.29	1.54	1.91
8/16/2022	3.66	3.08	9.72	3.64	3.8	1.69	
8/17/2022							2.13
1/17/2023	4.76				3.65		
1/18/2023		2.84	9.67	3.69		1.71	2.01
7/10/2023			8.17	3.44	3.33		
7/11/2023	3.58					1.56	1.87
7/12/2023		2.79					

# Time Series

Constituent: Chromium (mg/L) Analysis Run 10/2/2023 5:59 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			<0.01	
5/10/2016	<0.001015			<0.001015	<0.01	
5/11/2016		<0.001015	<0.001015			
7/5/2016	<0.001015					<0.01
7/6/2016		<0.001015	<0.001015	<0.001015	<0.01	<0.00102
8/23/2016						<0.01
9/6/2016	<0.001015	<0.001015		<0.001015	<0.01	
9/7/2016			<0.001015			<0.01
11/8/2016	<0.001015				<0.01	<0.00102
11/9/2016		<0.001015	<0.001015	<0.001015		<0.00102
1/3/2017						<0.01
2/20/2017						<0.00102
2/21/2017		<0.001015	<0.001015	<0.001015		<0.01
2/22/2017	<0.001015				<0.01	
5/31/2017	<0.001015	<0.001015	<0.001015	<0.001015	<0.01	<0.01
7/5/2017	<0.001015	<0.001015	<0.001015	<0.001015	<0.01	<0.01
2/5/2018	<0.001015			<0.001015	<0.01	
2/6/2018		<0.001015	<0.001015			<0.01
2/7/2018						<0.00102
6/12/2018	<0.001015	<0.001015	<0.001015	<0.001015	<0.01	<0.01
10/23/2018	<0.001015			<0.001015	<0.01	<0.01
10/24/2018		<0.001015	<0.001015			
5/21/2019	<0.001015	<0.001015	<0.001015	<0.001015	0.002 (J)	
5/22/2019						<0.01
9/3/2019		<0.001015	<0.001015			<0.00102
9/4/2019	<0.001015			<0.001015	<0.01	<0.01
2/12/2020	<0.001015	<0.001015	<0.001015	<0.001015	<0.01	<0.01
9/8/2020		<0.001015				
9/9/2020	<0.001015		<0.001015	<0.001015	<0.01	<0.01
4/13/2021	<0.001015	<0.001015	<0.001015	<0.001015	0.000518 (J)	0.000697 (J)
10/4/2021	0.00021 (J)				0.00055 (J)	0.00065 (J)
10/5/2021		0.00023 (J)	0.0003 (J)	0.00029 (J)		
10/6/2021						<0.00102
4/12/2022						0.00023 (J)
4/13/2022	<0.001015	<0.001015	<0.001015	0.00021 (J)	0.00052 (J)	0.0007 (J)
8/16/2022					0.000444 (J)	0.000574 (J)
8/17/2022		0.000266 (J)	<0.001015			0.000374 (J)
8/18/2022	<0.001015			<0.001015		
1/17/2023	<0.001015					0.000606 (J)
1/18/2023		0.000283 (J)	<0.001015	<0.001015	0.000417 (J)	0.000279 (J)
7/11/2023	<0.001015	<0.001015	0.000239 (J)	0.000361 (J)	0.000446 (J)	
7/12/2023						0.000639 (J)



# Time Series

Constituent: Chromium (mg/L) Analysis Run 10/2/2023 5:59 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	<0.01	<0.01	<0.001015	<0.001015	<0.001015		<0.001015
3/24/2016						<0.01	
5/10/2016	<0.01	<0.01					
5/11/2016			<0.001015	<0.001015	<0.001015	<0.01	<0.001015
7/5/2016	<0.01						
7/6/2016		<0.01	<0.001015	<0.001015	<0.001015	<0.01	<0.001015
9/6/2016	<0.01		<0.001015	<0.001015	<0.001015	<0.01	
9/7/2016		<0.01					<0.001015
11/8/2016	<0.01	<0.01	<0.001015	<0.001015	<0.001015	<0.01	<0.001015
2/20/2017		<0.01	<0.001015	<0.001015	<0.001015	<0.01	
2/21/2017	<0.01						<0.001015
5/30/2017			<0.001015	<0.001015		<0.01	<0.001015
5/31/2017	<0.01	<0.01			<0.001015		
7/5/2017	<0.01	<0.01	<0.001015	<0.001015	<0.001015	<0.01	<0.001015
2/5/2018	<0.01						
2/6/2018		<0.01	<0.001015	<0.001015	<0.001015	<0.01	<0.001015
6/11/2018			<0.001015	<0.001015	<0.001015		
6/12/2018	<0.01	<0.01				<0.01	<0.001015
10/22/2018	<0.01		<0.001015	<0.001015	<0.001015	<0.01	<0.001015
10/23/2018		<0.01					
5/20/2019	<0.01		<0.001015	<0.001015	<0.001015		
5/21/2019						<0.01	<0.001015
5/22/2019		<0.01					
9/3/2019						<0.01	<0.001015
9/4/2019	<0.01	<0.01	<0.001015	<0.001015	<0.001015		
2/11/2020			<0.001015	<0.001015	<0.001015		
2/12/2020	<0.01	<0.01				<0.01	<0.001015
9/8/2020			<0.001015	<0.001015			<0.001015
9/9/2020	<0.01	<0.01			<0.001015	<0.01	
4/13/2021	0.000517 (J)	0.000337 (J)	<0.001015	0.000257 (J)	0.000361 (J)	0.000291 (J)	0.000276 (J)
10/4/2021	0.00061 (J)	0.00046 (J)	0.00028 (J)	0.00025 (J)	0.00056 (J)	0.00037 (J)	
10/5/2021							0.00021 (J)
4/12/2022	0.00052 (J)	0.00025 (J)	0.00029 (J)	0.00022 (J)	<0.001015	0.00035 (J)	<0.001015
8/16/2022	0.000633 (J)	0.000408 (J)	0.000271 (J)	<0.001015	0.0004 (J)	0.000437 (J)	
8/17/2022							<0.001015
1/17/2023	0.000325 (J)				<0.001015		
1/18/2023		0.000409 (J)	0.000262 (J)	0.000264 (J)		0.000358 (J)	0.000219 (J)
7/10/2023			0.000239 (J)	0.000217 (J)	0.000299 (J)		
7/11/2023	0.00056 (J)					0.000371 (J)	0.000207 (J)
7/12/2023		0.000378 (J)					

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/2/2023 5:59 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)	<0.005			
3/24/2016	<0.000203	<0.000203			0.00662 (J)		
5/10/2016	<0.000203			<0.005	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)	<0.005	0.00537 (J)		0.00313 (J)
8/23/2016						<0.000203	<0.005
9/6/2016	<0.000203	<0.000203		<0.005	0.00568 (J)		
9/7/2016			0.00737 (J)			<0.000203	<0.005
11/8/2016	<0.000203				0.00388 (J)	<0.000203	<0.005
11/9/2016		<0.000203	0.00732 (J)	<0.005			
1/3/2017						<0.000203	<0.005
2/20/2017							<0.005
2/21/2017		<0.000203	0.00315 (J)	<0.005		<0.000203	
2/22/2017	<0.000203				0.00412 (J)		
5/31/2017	<0.000203	<0.000203	0.0023 (J)	<0.005	<0.0002	<0.000203	<0.005
7/5/2017	<0.000203	<0.000203	0.00303 (J)	<0.005	<0.0002	<0.000203	<0.005
2/5/2018	<0.000203			<0.005	<0.0002		
2/6/2018		<0.000203	0.00324 (J)			<0.000203	
2/7/2018							<0.005
6/12/2018	<0.000203	<0.000203	0.00251 (J)	<0.005	<0.0002	<0.000203	<0.005
10/23/2018	<0.000203			<0.005	<0.0002	<0.000203	<0.005
10/24/2018		<0.000203	0.00286 (J)				
5/21/2019	<0.000203	<0.000203	0.00245 (J)	<0.005	0.0578 (o)		
5/22/2019						<0.000203	<0.005
9/3/2019		<0.000203	0.00298 (J)				
9/4/2019	<0.000203			<0.005	<0.0002	<0.000203	<0.005
2/12/2020	<0.000203	<0.000203	<0.005	<0.005	<0.0002	<0.000203	<0.005
9/8/2020		<0.000203					
9/9/2020	<0.000203		0.00256 (J)	<0.005	<0.0002	<0.000203	<0.005
4/13/2021	<0.000203	<0.000203	0.00212	0.000218	0.000158 (J)	<0.000203	0.00046
10/4/2021	<0.000203				0.0001 (J)	<0.000203	
10/5/2021		<0.000203	0.00217	0.00042			
10/6/2021							0.0005
4/12/2022							0.00066
4/13/2022	<0.000203	<0.000203	0.00324	0.00016 (J)	<0.0002	<0.000203	
8/16/2022					8.8E-05 (J)	0.000124 (J)	0.000587
8/17/2022		<0.000203	0.00278				
8/18/2022	<0.000203			0.000296			
1/17/2023	<0.000203					7E-05 (J)	0.000272
1/18/2023		0.000912	0.00237	0.000168 (J)	8.6E-05 (J)		
7/11/2023	<0.000203	0.000174 (J)	0.00288	7.5E-05 (J)	7.4E-05 (J)		
7/12/2023						<0.000203	0.000541

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/2/2023 5:59 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)	<0.005	0.00656 (J)		<0.000203
3/24/2016						<0.005	
5/10/2016	<0.000203	<0.000203					
5/11/2016			0.00289 (J)	<0.005	0.00505 (J)	<0.005	<0.000203
7/5/2016	<0.000203						
7/6/2016		<0.000203	0.00485 (J)	<0.005	0.00515 (J)	<0.005	<0.000203
9/6/2016	<0.000203		0.00281 (J)	<0.005	0.0037 (J)	<0.005	
9/7/2016		<0.000203					<0.000203
11/8/2016	<0.000203	<0.000203	0.0035 (J)	<0.005	0.00375 (J)	<0.005	<0.000203
2/20/2017		<0.000203	<0.005	<0.005	0.00263 (J)	<0.005	
2/21/2017	<0.000203						<0.000203
5/30/2017			<0.005	<0.005		<0.005	<0.000203
5/31/2017	<0.000203	<0.000203			0.00287 (J)		
7/5/2017	<0.000203	<0.000203	<0.005	<0.005	<0.005	<0.005	<0.000203
2/5/2018	<0.000203						
2/6/2018		<0.000203	0.00274 (J)	<0.005	<0.005	<0.005	<0.000203
6/11/2018			0.00472 (J)	<0.005	<0.005		
6/12/2018	<0.000203	<0.000203				<0.005	<0.000203
10/22/2018	<0.000203		0.0049 (J)	<0.005	<0.005	<0.005	<0.000203
10/23/2018		<0.000203					
5/20/2019	<0.000203		0.00489 (J)	<0.005	<0.005		
5/21/2019						<0.005	<0.000203
5/22/2019		<0.000203					
9/3/2019						<0.005	<0.000203
9/4/2019	<0.000203	<0.000203	0.00527	<0.005	0.00217 (J)		
2/11/2020			<0.005	<0.005	<0.005		
2/12/2020	<0.000203	<0.000203				<0.005	<0.000203
9/8/2020			<0.005	<0.005			<0.000203
9/9/2020	<0.000203	<0.000203			<0.005	<0.005	
4/13/2021	<0.000203	<0.000203	0.00104	0.000682	0.00077	0.000123 (J)	8.16E-05 (J)
10/4/2021	<0.000203	<0.000203	0.00142	0.00065	0.00033	0.00014 (J)	
10/5/2021							0.00041
4/12/2022	<0.000203	<0.000203	0.00215	0.00066	0.0006	7E-05 (J)	<0.000203
8/16/2022	<0.000203	<0.000203	0.00389	0.000713	0.000415	0.000133 (J)	
8/17/2022							0.000132 (J)
1/17/2023	<0.000203				0.00128		
1/18/2023		0.000528	0.00293	0.000709		0.00017 (J)	<0.000203
7/10/2023			0.0035	0.000713	0.000572		
7/11/2023	<0.000203					0.000144 (J)	7.3E-05 (J)
7/12/2023		0.000386					

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/2/2023 5:59 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
4/12/2022						0.336 (U)
4/13/2022	1.31	0.551 (U)	0.453 (U)	0.257 (U)	0.357 (U)	0.127 (U)
8/16/2022					0.98	0.753 (U) 0.703 (U)
8/17/2022		0.934 (U)	0.33 (U)			
8/18/2022	0.975			0.607 (U)		
1/17/2023	1.4					0.551 (U) 0.493 (U)
1/18/2023		0.632 (U)	0.167 (U)	0.305 (U)	0.376 (U)	
7/11/2023	1.57	1.51	0.673 (U)	0.707 (U)	0.716 (U)	
7/12/2023						1.29 (U) 0.553 (U)

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/2/2023 5:59 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)
4/12/2022	0.535 (U)	0.319 (U)	0.739 (U)	0.157 (U)	0.0248 (U)	0.367 (U)	0.191 (U)
8/16/2022	0.346 (U)	0.877 (U)	0.734 (U)	1.06 (U)	0.537 (U)	0.78 (U)	
8/17/2022							1.25
1/17/2023	0.8 (U)				0.24 (U)		
1/18/2023		0.199 (U)	0.299 (U)	0.389 (U)		1.63	0.418 (U)
7/10/2023			1.43	0.941 (U)	1.09		
7/11/2023	0.382 (U)					1.2	0.712 (U)
7/12/2023		1.14 (U)					

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/2/2023 5:59 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)	<0.125	<0.125
11/9/2016		0.3 (U)	<0.125	<0.125			
1/3/2017						<0.125	<0.125
2/20/2017							0.1
2/21/2017		0.1	0.1	0.05 (J)		0.1	
2/22/2017	0.34				0.04 (J)		
5/31/2017	0.3	0.1	0.1	0.06 (J)	0.04 (J)	0.06 (J)	0.1
7/5/2017	0.3	<0.125	<0.125	0.05 (J)	0.04 (J)	0.04 (J)	<0.125
9/5/2017						0.06 (J)	<0.125
9/7/2017	0.37	<0.125	0.04 (J)	0.06 (J)	0.05 (J)		
2/5/2018	0.37			0.08 (J)	0.04 (J)		
2/6/2018		<0.125	<0.125			0.06 (J)	
2/7/2018							<0.125
6/12/2018	0.32	<0.125	<0.125	0.06 (J)	0.04 (J)	0.05 (J)	<0.125
10/23/2018	0.39			0.06 (J)	0.05 (J)	0.07 (J)	<0.125
10/24/2018		<0.125	<0.125				
5/21/2019	0.264	<0.125	<0.125	0.0649 (J)	0.0595 (J)		
5/22/2019						0.0601 (J)	<0.125
9/3/2019		<0.125	<0.125				
9/4/2019	0.33			0.0547 (J)	0.0555 (J)	0.0703 (J)	<0.125
2/12/2020	0.301	<0.125	<0.125	0.0586 (J)	<0.125	<0.125	<0.125
9/8/2020		0.0617 (J)					
9/9/2020	0.313		<0.125	0.068 (J)	0.0655 (J)	0.0847 (J)	<0.125
4/13/2021	0.29	<0.125	<0.125	<0.125	0.0633 (J)	<0.125	<0.125
10/4/2021	0.376				0.0748 (J)	0.0838 (J)	
10/5/2021		<0.125	<0.125	<0.125			
10/6/2021							<0.125
4/12/2022							<0.125
4/13/2022	0.307	<0.125	<0.125	<0.125	<0.125	<0.125	
8/16/2022					0.0614 (J)	<0.125	<0.125
8/17/2022		<0.125	<0.125				
8/18/2022	0.327			<0.125			
1/17/2023	0.358					<0.125	<0.125
1/18/2023		<0.125	<0.125	0.0913 (J)	<0.125		
7/11/2023	0.3	<0.125	<0.125	<0.125	0.103 (J)		
7/12/2023						<0.125	<0.125

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/2/2023 5:59 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)	<0.125	0.063 (J)		0.035 (J)
3/24/2016						0.132 (J)	
5/10/2016	0.068 (J)	0.111 (J)					
5/11/2016			0.074 (J)	0.055 (J)	0.105 (J)	0.176 (J)	0.08 (J)
7/5/2016	0.052 (J)						
7/6/2016		0.089 (J)	0.065 (J)	0.047 (J)	0.094 (J)	0.167 (J)	0.072 (J)
9/6/2016	0.038 (J)		0.052 (J)	0.036 (J)	0.08 (J)	0.153 (J)	
9/7/2016		0.073 (J)					0.057 (J)
11/8/2016	<0.125	<0.125	<0.125	<0.125	<0.3	0.043 (J)	<0.125
2/20/2017		0.05 (J)	0.1	0.1	0.09 (J)	0.15	
2/21/2017	0.1						0.1
5/30/2017			0.04 (J)	0.1		0.14	0.04 (J)
5/31/2017	0.1	0.06 (J)			0.08 (J)		
7/5/2017	<0.125	0.05 (J)	<0.125	<0.125	0.08 (J)	0.13	<0.125
9/5/2017	<0.125	0.06 (J)					
9/7/2017			<0.125	<0.125	0.09 (J)	0.13	0.04 (J)
2/5/2018	0.04 (J)						
2/6/2018		0.06 (J)	<0.125	<0.125	0.08 (J)	0.15	0.04 (J)
6/11/2018			0.04 (J)	<0.125	0.09 (J)		
6/12/2018	<0.125	0.05 (J)				0.13	0.04 (J)
10/22/2018	<0.125		0.06 (J)	<0.125	0.1	0.15	0.05 (J)
10/23/2018		0.05 (J)					
5/20/2019	<0.125		0.0842 (J)	<0.125	0.0919 (J)		
5/21/2019						0.109	0.0526 (J)
5/22/2019		0.0515 (J)					
9/3/2019						0.123	0.0554 (J)
9/4/2019	<0.125	0.0594 (J)	0.0962 (J)	<0.125	0.07 (J)		
2/11/2020			<0.125	<0.125	0.0912 (J)		
2/12/2020	<0.125	0.0566 (J)				0.108	<0.125
9/8/2020			<0.125	<0.125			0.097 (J)
9/9/2020	0.0644 (J)	0.0748 (J)			0.118	0.14	
4/13/2021	<0.125	0.069 (J)	<0.125	<0.125	0.129	0.119	0.0602 (J)
10/4/2021	0.0664 (J)	0.0637 (J)	<0.125	<0.125	0.12	0.134	
10/5/2021							<0.125
4/12/2022	<0.125	<0.125	<0.125	<0.125	0.0724 (J)	0.0621 (J)	<0.125
8/16/2022	0.0865 (J)	<0.125	<0.125	<0.125	0.112 (J)	0.0979 (J)	
8/17/2022							<0.125
1/17/2023	<0.125				0.1 (J)		
1/18/2023		0.0687 (J)	<0.125	<0.125		0.105 (J)	<0.125
7/10/2023			0.099 (J)	<0.125	0.1 (J)		
7/11/2023	<0.125					0.0857 (J)	<0.125
7/12/2023		0.0634 (J)					

# Time Series

Constituent: Lead (mg/L) Analysis Run 10/2/2023 5:59 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		<0.0002
8/23/2016						<0.000203	<0.0002
9/6/2016	<0.000203	<0.000203		<0.000203	<0.000203		
9/7/2016			<0.000203			<0.000203	<0.0002
11/8/2016	<0.000203				<0.000203	<0.000203	<0.0002
11/9/2016		<0.000203	<0.000203	<0.000203			
1/3/2017						<0.000203	<0.0002
2/20/2017							<0.0002
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	<0.0002
7/5/2017	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.0002
2/5/2018	<0.000203			<0.000203	<0.000203		
2/6/2018		<0.000203	<0.000203			<0.000203	
2/7/2018							<0.0002
6/12/2018	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.0002
10/23/2018	<0.000203			<0.000203	<0.000203	<0.000203	<0.0002
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	<0.0002
9/3/2019		<0.000203	<0.000203				
9/4/2019	<0.000203			<0.000203	<0.000203	<0.000203	<0.0002
2/12/2020	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.0002
9/8/2020		<0.000203					
9/9/2020	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203	<0.0002
4/13/2021	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.0002
10/4/2021	<0.000203				<0.000203	<0.000203	
10/5/2021		<0.000203	<0.000203	<0.000203			
10/6/2021							<0.0002
4/12/2022							0.00023
4/13/2022	<0.000203	<0.000203	0.00011 (J)	<0.000203	<0.000203	<0.000203	
8/16/2022					<0.000203	<0.000203	0.000115 (J)
8/17/2022		<0.000203	7.8E-05 (J)				
8/18/2022	<0.000203			<0.000203			
1/17/2023	0.000345					<0.000203	0.000176 (J)
1/18/2023		8E-05 (J)	<0.000203	<0.000203	<0.000203		
7/11/2023	<0.000203	<0.000203	0.000108 (J)	<0.000203	<0.000203		
7/12/2023						<0.000203	0.000122 (J)



# Time Series

Constituent: Lead (mg/L) Analysis Run 10/2/2023 5:59 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	<0.005	<0.000203		<0.000203
3/24/2016						<0.000203	
5/10/2016	<0.000203	<0.000203					
5/11/2016			<0.000203	<0.005	<0.000203	<0.000203	<0.000203
7/5/2016	<0.000203						
7/6/2016		<0.000203	<0.000203	<0.005	<0.000203	<0.000203	<0.000203
9/6/2016	<0.000203		<0.000203	<0.005	<0.000203	<0.000203	
9/7/2016		<0.000203					<0.000203
11/8/2016	<0.000203	<0.000203	<0.000203	<0.005	0.00229 (J)	<0.000203	<0.000203
2/20/2017		<0.000203	<0.000203	<0.005	<0.000203	<0.000203	
2/21/2017	<0.000203						<0.000203
5/30/2017			<0.000203	<0.005		<0.000203	<0.000203
5/31/2017	<0.000203	<0.000203			<0.000203		
7/5/2017	<0.000203	<0.000203	<0.000203	<0.005	<0.000203	<0.000203	<0.000203
2/5/2018	<0.000203						
2/6/2018		<0.000203	<0.000203	<0.005	<0.000203	<0.000203	<0.000203
6/11/2018			<0.000203	<0.005	<0.000203		
6/12/2018	<0.000203	<0.000203				<0.000203	<0.000203
10/22/2018	<0.000203		<0.000203	<0.005	<0.000203	<0.000203	<0.000203
10/23/2018		<0.000203					
5/20/2019	<0.000203		<0.000203	<0.005	<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	<0.005	<0.000203		
2/11/2020			<0.000203	<0.005	<0.000203		
2/12/2020	<0.000203	<0.000203				<0.000203	<0.000203
9/8/2020			<0.000203	<0.005			<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
10/4/2021	<0.000203	<0.000203	<0.000203	0.00031	<0.000203	<0.000203	
10/5/2021							<0.000203
4/12/2022	<0.000203	<0.000203	<0.000203	0.0004	<0.000203	<0.000203	0.00011 (J)
8/16/2022	<0.000203	<0.000203	<0.000203	0.000318	<0.000203	<0.000203	
8/17/2022							<0.000203
1/17/2023	<0.000203				<0.000203		
1/18/2023		0.000121 (J)	<0.000203	0.000353		<0.000203	<0.000203
7/10/2023			9.2E-05 (J)	0.000324	<0.000203		
7/11/2023	<0.000203					<0.000203	<0.000203
7/12/2023		0.000187 (J)					

# Time Series

Constituent: Lithium (mg/L) Analysis Run 10/2/2023 5:59 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
4/12/2022							<0.02
4/13/2022	0.00966 (J)	<0.02	<0.02	<0.02	<0.02	<0.02	
8/16/2022					<0.02	<0.02	<0.02
8/17/2022		<0.02	<0.02				
8/18/2022	0.00965 (J)			<0.02			
1/17/2023	0.00981 (J)					<0.02	<0.02
1/18/2023		<0.02	<0.02	<0.02	<0.02		
7/11/2023	0.00982 (J)	<0.02	<0.02	<0.02	<0.02		
7/12/2023						<0.02	<0.02

# Time Series

Constituent: Lithium (mg/L) Analysis Run 10/2/2023 5:59 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
4/12/2022	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
8/16/2022	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
8/17/2022							<0.02
1/17/2023	<0.02				<0.02		
1/18/2023		<0.02	<0.02	<0.02		<0.02	<0.02
7/10/2023			<0.02	<0.02	<0.02		
7/11/2023	<0.02					<0.02	<0.02
7/12/2023		<0.02					

# Time Series

Constituent: Mercury (mg/L) Analysis Run 10/2/2023 5:59 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
4/12/2022							<0.0005
4/13/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/16/2022					<0.0005	<0.0005	<0.0005
8/17/2022		<0.0005	<0.0005				
8/18/2022	<0.0005			<0.0005			
1/17/2023	<0.0005					<0.0005	<0.0005
1/18/2023		<0.0005	<0.0005	<0.0005	<0.0005		
7/11/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
7/12/2023						<0.0005	<0.0005

# Time Series

Constituent: Mercury (mg/L) Analysis Run 10/2/2023 5:59 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
4/12/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/16/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
8/17/2022							<0.0005
1/17/2023	<0.0005				<0.0005		
1/18/2023		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
7/10/2023			<0.0005	<0.0005	<0.0005		
7/11/2023	<0.0005					<0.0005	<0.0005
7/12/2023		<0.0005					

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/2/2023 5:59 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			<0.01015	<0.01015		
3/24/2016	0.0241	<0.01015			<0.01015	
5/10/2016	0.0239			<0.01015	<0.01015	
5/11/2016		<0.01015	<0.01015			
7/5/2016	0.0176					<0.01015
7/6/2016		<0.01015	<0.01015	<0.01015	<0.01015	<0.01015
8/23/2016						<0.01015
9/6/2016	0.0138	<0.01015		<0.01015	<0.01015	
9/7/2016			<0.01015			<0.01015
11/8/2016	0.0102				<0.01015	<0.01015
11/9/2016		<0.01015	<0.01015	<0.01015		
1/3/2017						<0.01015
2/20/2017						<0.01015
2/21/2017		<0.01015	<0.01015	<0.01015		<0.01015
2/22/2017	0.0102				<0.01015	
5/31/2017	0.00805 (J)	<0.01015	<0.01015	<0.01015	<0.01015	<0.01015
7/5/2017	0.009 (J)	<0.01015	<0.01015	<0.01015	<0.01015	<0.01015
2/5/2018	0.00908 (J)			<0.01015	<0.01015	
2/6/2018		<0.01015	<0.01015			<0.01015
2/7/2018						<0.01015
6/12/2018	0.00655 (J)	<0.01015	<0.01015	<0.01015	<0.01015	<0.01015
10/23/2018	0.006 (J)			<0.01015	<0.01015	<0.01015
10/24/2018		<0.01015	<0.01015			
5/21/2019	0.00504 (J)	<0.01015	<0.01015	<0.01015	<0.01015	
5/22/2019						<0.01015
9/3/2019		<0.01015	<0.01015			<0.01015
9/4/2019	0.00504 (J)			<0.01015	<0.01015	<0.01015
2/12/2020	0.00448 (J)	<0.01015	<0.01015	<0.01015	<0.01015	<0.01015
9/8/2020		<0.01015				
9/9/2020	0.00405 (J)		<0.01015	<0.01015	<0.01015	<0.01015
4/13/2021	0.00353	<0.01015	<0.01015	0.000298	0.000175 (J)	0.000334
10/4/2021	0.00372				0.00016 (J)	0.00046
10/5/2021		<0.01015	<0.01015	0.00033		
10/6/2021						<0.01015
4/12/2022						<0.01015
4/13/2022	0.0033	<0.01015	<0.01015	0.00031	0.00021	0.00025
8/16/2022					0.000189 (J)	0.000334
8/17/2022		<0.01015	<0.01015			<0.01015
8/18/2022	0.00295			0.000207		
1/17/2023	0.00329					0.000322
1/18/2023		<0.01015	<0.01015	0.000234	0.000285	<0.01015
7/11/2023	<0.01015	<0.01015	<0.01015	<0.01015	<0.01015	
7/12/2023						<0.01015

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/2/2023 5:59 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	<0.01015	<0.01015	<0.01015	<0.01015	<0.01015		<0.01015
3/24/2016						0.00317 (J)	
5/10/2016	<0.01015	<0.01015					
5/11/2016			<0.01015	<0.01015	<0.01015	0.00424 (J)	<0.01015
7/5/2016	<0.01015						
7/6/2016		<0.01015	<0.01015	<0.01015	<0.01015	0.00489 (J)	<0.01015
9/6/2016	<0.01015		<0.01015	<0.01015	<0.01015	0.00466 (J)	
9/7/2016		<0.01015					<0.01015
11/8/2016	<0.01015	<0.01015	<0.01015	<0.01015	<0.01015	0.00422 (J)	<0.01015
2/20/2017		<0.01015	<0.01015	<0.01015	<0.01015	0.00422 (J)	
2/21/2017	<0.01015						<0.01015
5/30/2017			<0.01015	<0.01015		0.00344 (J)	<0.01015
5/31/2017	<0.01015	<0.01015			<0.01015		
7/5/2017	<0.01015	<0.01015	<0.01015	<0.01015	<0.01015	0.00369 (J)	<0.01015
2/5/2018	<0.01015						
2/6/2018		<0.01015	<0.01015	<0.01015	<0.01015	0.00331 (J)	<0.01015
6/11/2018			<0.01015	<0.01015	<0.01015		
6/12/2018	<0.01015	<0.01015				0.00325 (J)	<0.01015
10/22/2018	<0.01015		<0.01015	<0.01015	<0.01015	0.00359 (J)	<0.01015
10/23/2018		<0.01015					
5/20/2019	<0.01015		<0.01015	<0.01015	<0.01015		
5/21/2019						0.00379 (J)	<0.01015
5/22/2019		<0.01015					
9/3/2019						0.00437 (J)	<0.01015
9/4/2019	<0.01015	<0.01015	<0.01015	<0.01015	<0.01015		
2/11/2020			<0.01015	<0.01015	<0.01015		
2/12/2020	<0.01015	<0.01015				0.00322 (J)	<0.01015
9/8/2020			<0.01015	<0.01015			<0.01015
9/9/2020	<0.01015	<0.01015			<0.01015	0.00418 (J)	
4/13/2021	0.000307	7.49E-05 (J)	9.4E-05 (J)	<0.01015	0.000276	0.00318	0.000207
10/4/2021	0.00034	<0.01015	9E-05 (J)	<0.01015	0.00025	0.00345	
10/5/2021							0.00032
4/12/2022	0.00026	<0.01015	0.00012 (J)	<0.01015	0.00027	0.00347	0.00021
8/16/2022	0.00037	<0.01015	0.000131 (J)	<0.01015	0.000232	0.00356	
8/17/2022							0.000338
1/17/2023	0.000294				0.000328		
1/18/2023		0.000144 (J)	0.000113 (J)	<0.01015		0.00321	0.000232
7/10/2023			<0.01015	<0.01015	<0.01015		
7/11/2023	<0.01015					<0.01015	<0.01015
7/12/2023		<0.01015					

# Time Series

Constituent: pH (pH) Analysis Run 10/2/2023 5:59 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
4/12/2022							5.25
4/13/2022	7.5	6.85	5.29	6.74	6.84	7.4	
8/16/2022					6.92	6.96	5.37
8/17/2022		6.97	5.6				
8/18/2022	7.46			6.82			
1/17/2023	7.69					7.43	5.74
1/18/2023		7.08	5.77	7.11	7.13		
7/11/2023	7.58	6.89	5.33	6.79	6.62		
7/12/2023						6.68	5.38



# Time Series

Constituent: pH (pH) Analysis Run 10/2/2023 5:59 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
4/12/2022	6.48	5.57	6.32	4.38	6.73	7.22	6.22
8/16/2022	7.04	6.25	6.28	4.58	6.7	6.98	
8/17/2022							6.84
1/17/2023	7.14				6.78		
1/18/2023		6.99	6.38	4.75		7.54	6.71
7/10/2023			6.3	4.4	6.66		
7/11/2023	7.04					7.32	6.23
7/12/2023		6.21					

# Time Series

Constituent: Selenium (mg/L) Analysis Run 10/2/2023 5:59 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
10/4/2021	<0.001015				<0.001015	<0.001015	
10/5/2021		<0.001015	<0.001015	<0.001015			
10/6/2021							<0.001015
4/12/2022							<0.001015
4/13/2022	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
8/16/2022					<0.001015	<0.001015	<0.001015
8/17/2022		<0.001015	<0.001015				
8/18/2022	<0.001015			<0.001015			
1/17/2023	<0.001015					<0.001015	<0.001015
1/18/2023		<0.001015	<0.001015	<0.001015	<0.001015		
7/11/2023	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
7/12/2023						<0.001015	<0.001015

# Time Series

Constituent: Selenium (mg/L) Analysis Run 10/2/2023 5:59 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
10/4/2021	<0.001015	0.0006 (J)	<0.001015	<0.001015	<0.001015	<0.001015	
10/5/2021							<0.001015
4/12/2022	<0.001015	0.00051 (J)	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
8/16/2022	<0.001015	0.000556 (J)	<0.001015	<0.001015	<0.001015	<0.001015	
8/17/2022							<0.001015
1/17/2023	<0.001015				<0.001015		
1/18/2023		<0.001015	<0.001015	<0.001015		<0.001015	<0.001015
7/10/2023			<0.001015	<0.001015	<0.001015		
7/11/2023	<0.001015					<0.001015	<0.001015
7/12/2023		<0.001015					

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/2/2023 5:59 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)	<5 (o)	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	<5 (o)
10/24/2018		<5 (o)	2.4 (J)				
5/21/2019	4.58	1.72	3.55	7.81	8.29		
5/22/2019						5.57	2.82
9/3/2019		1.73	2.83				
9/4/2019	4.82			6.25	8.18	6.37	2.3
2/12/2020	5.11	1.65	3.89	13.1	9.06	3.09	1.77
9/8/2020		1.62					
9/9/2020	3.97		3.01	5.85	7.89	5.26	2
4/13/2021	4.43	1.68	2.77	8.86	8.38	3.45	2.51
10/4/2021	4.08				7.18	3.78	
10/5/2021		1.8	2.86	8.02			
10/6/2021							2.15
4/12/2022							1.76 (J)
4/13/2022	4.24	1.68 (J)	2.73	8.25	7.27	2.44	
8/16/2022					8.54	4.71	3.73
8/17/2022		2.24	2.29				
8/18/2022	4.84			6.66			
1/17/2023	4.25					2.83	1.99 (J)
1/18/2023		1.96 (J)	2.95	15.6	8.51		
7/11/2023	4.01	1.85 (J)	1.97 (J)	9.46	9.4		
7/12/2023						2.79	8.91

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/2/2023 5:59 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	<2	8.3	1.9 (J)	4.4 (J)
9/5/2017	6.1	17					
9/7/2017			33	<2	8.6	2.1 (J)	5.9
6/11/2018			47	<2	7.5		
6/12/2018	7.2	14				2.7 (J)	5.7
10/22/2018	8.3		40	<2	8.8	2.2 (J)	5.1
10/23/2018		12					
5/20/2019	7.52		75.6	<2	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	<2	10.1		
2/11/2020			79.7	<2	8.5		
2/12/2020	10.7	9.13				4.31	5.67
9/8/2020			113	<2			5.42
9/9/2020	7.77	8.76			7.13	3.67	
4/13/2021	7.44	7.88	108	<2	6.37	4.49	4.65
10/4/2021	6.86	8.09	115	<2	6.02	5.05	
10/5/2021							4.08
4/12/2022	8.36	7.36	145	<2	5.75	3.13	4.09
8/16/2022	8.31	7.79	142	<2	6.63	5.27	
8/17/2022							4.58
1/17/2023	6.01				6.1		
1/18/2023		7.56	121	<2		3.71	3.93
7/10/2023			191	0.94 (J)	5.64		
7/11/2023	6.77					4.37	4.18
7/12/2023		8.92					

# Time Series

Constituent: TDS (mg/L) Analysis Run 10/2/2023 5:59 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
9/6/2016	188	245		200	264	45.3
9/7/2016			96			198
11/8/2016	197				173	205
11/9/2016		258	57.3	190		
1/3/2017						221
2/20/2017						47.3
2/21/2017		243	76.7	264		55.3
2/22/2017	165				260	
5/31/2017	244	252	75.3	242	277	220
7/5/2017	201	257	80	231	296	185
9/5/2017						202
9/7/2017	196	259	105	225	294	
6/12/2018	221	266	72	230	282	205
10/23/2018	195 (D)			201 (D)	279 (D)	204 (D)
10/24/2018		265 (D)	68 (D)			
5/21/2019	244	274	66	231	286	
5/22/2019						202
9/3/2019		260	51.3			35.3
9/4/2019	200			217	271	195
2/12/2020	219	259	66	256	282	189
9/8/2020		275				
9/9/2020	221		59.3	230	271	198
4/13/2021	237	273	66	260	286	191
10/4/2021	221				277	183
10/5/2021		293	92.7	255		
10/6/2021						<25
4/12/2022						27.3
4/13/2022	217	273	84	250	266	187
8/16/2022					264	162
8/17/2022		265	76			27.299999
8/18/2022	214			252		
1/17/2023	199					189
1/18/2023		266	68	262	280	28
7/11/2023	215	268	90.699997	258	283	
7/12/2023						187
						32

# Time Series

Constituent: TDS (mg/L) Analysis Run 10/2/2023 5:59 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
4/12/2022	271	156	400	<25	214	176	155
8/16/2022	280	164	376	<25	212	162	
8/17/2022							179
1/17/2023	270				218		
1/18/2023		246	362	<25		172	152
7/10/2023			444	<25	216		
7/11/2023	291					182	162
7/12/2023		227					

# Time Series

Constituent: Thallium (mg/L) Analysis Run 10/2/2023 5:59 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
10/4/2021	<0.000203				<0.000203	<0.000203	
10/5/2021		<0.000203	<0.000203	<0.000203			
10/6/2021							<0.000203
4/12/2022							<0.000203
4/13/2022	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
8/16/2022					<0.000203	<0.000203	<0.000203
8/17/2022		<0.000203	<0.000203				
8/18/2022	<0.000203			<0.000203			
1/17/2023	<0.000203					<0.000203	<0.000203
1/18/2023		<0.000203	<0.000203	<0.000203	<0.000203		
7/11/2023	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		
7/12/2023						<0.000203	<0.000203



# Time Series

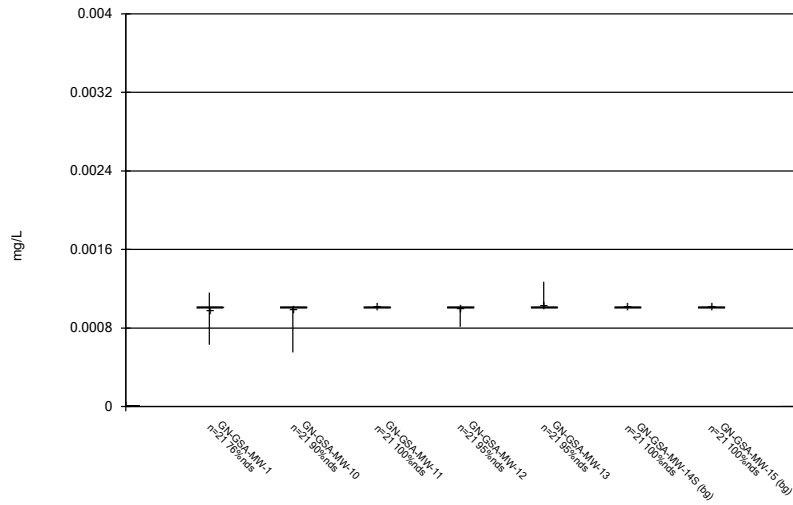
Constituent: Thallium (mg/L) Analysis Run 10/2/2023 5:59 PM

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
10/4/2021	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
10/5/2021							<0.000203
4/12/2022	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
8/16/2022	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
8/17/2022							<0.000203
1/17/2023	<0.000203				<0.000203		
1/18/2023		<0.000203	<0.000203	<0.000203		<0.000203	<0.000203
7/10/2023			<0.000203	<0.000203	<0.000203		
7/11/2023	<0.000203					<0.000203	<0.000203
7/12/2023		<0.000203					

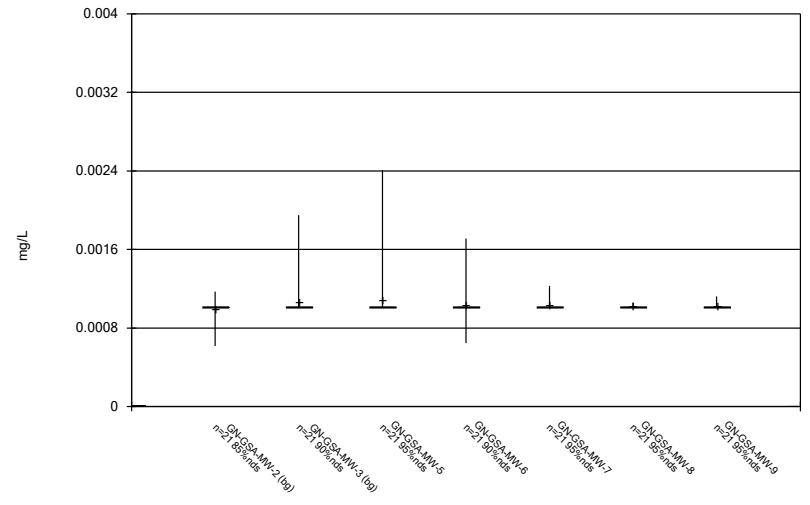
FIGURE B.

### Box & Whiskers Plot



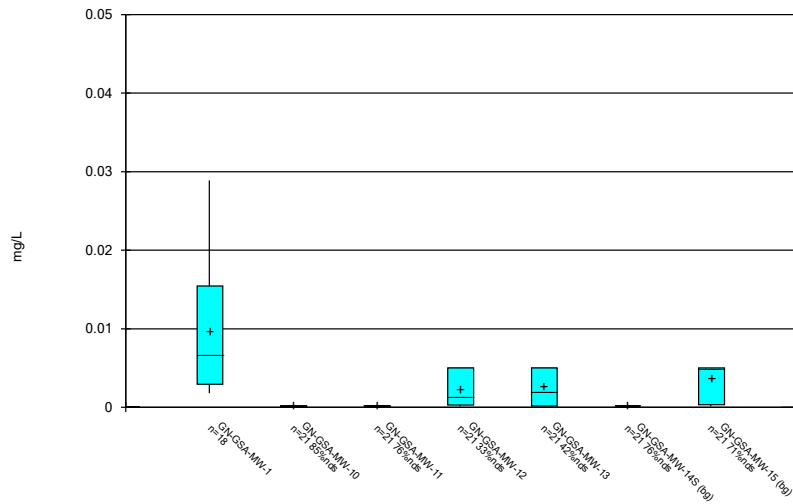
Constituent: Antimony Analysis Run 10/2/2023 5:59 PM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



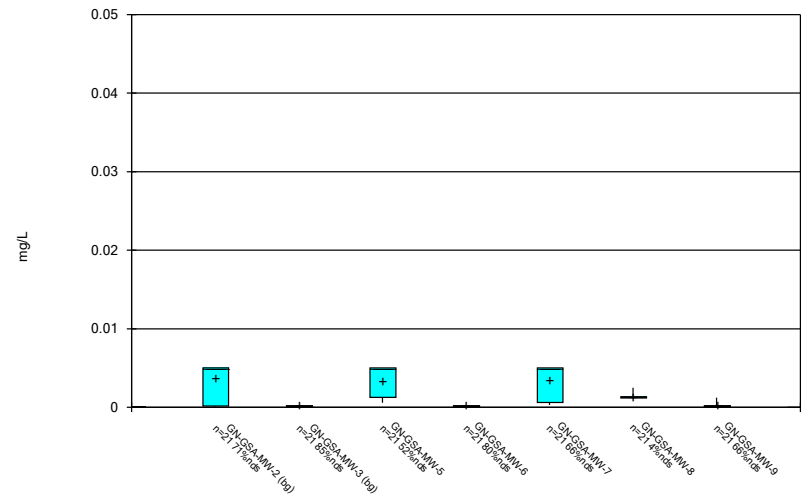
Constituent: Antimony Analysis Run 10/2/2023 5:59 PM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



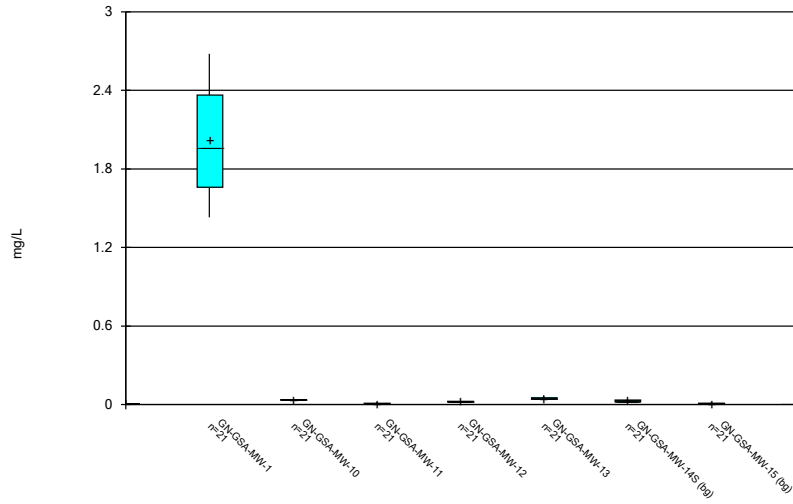
Constituent: Arsenic Analysis Run 10/2/2023 5:59 PM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



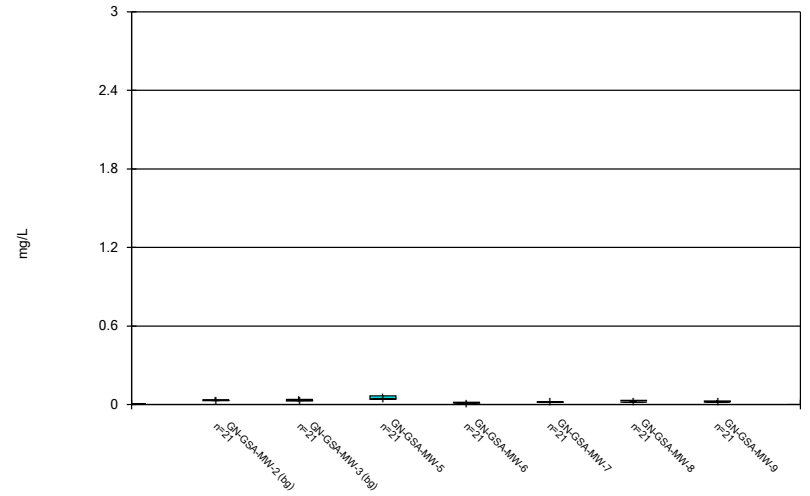
Constituent: Arsenic Analysis Run 10/2/2023 5:59 PM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



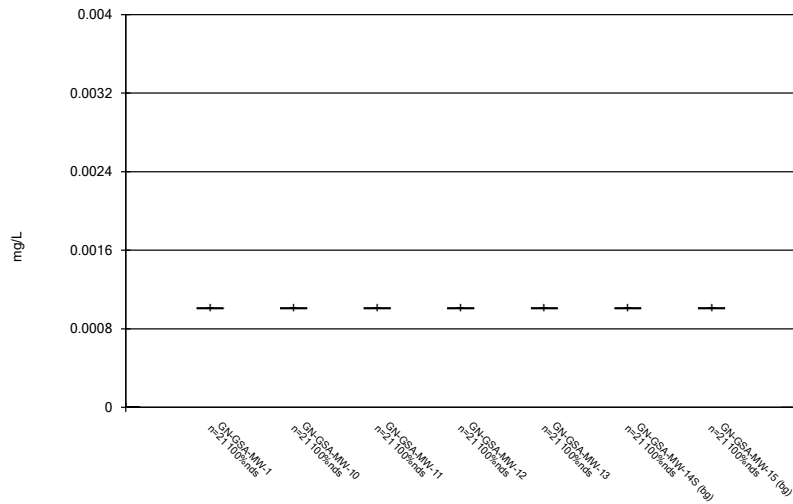
Constituent: Barium Analysis Run 10/2/2023 5:59 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



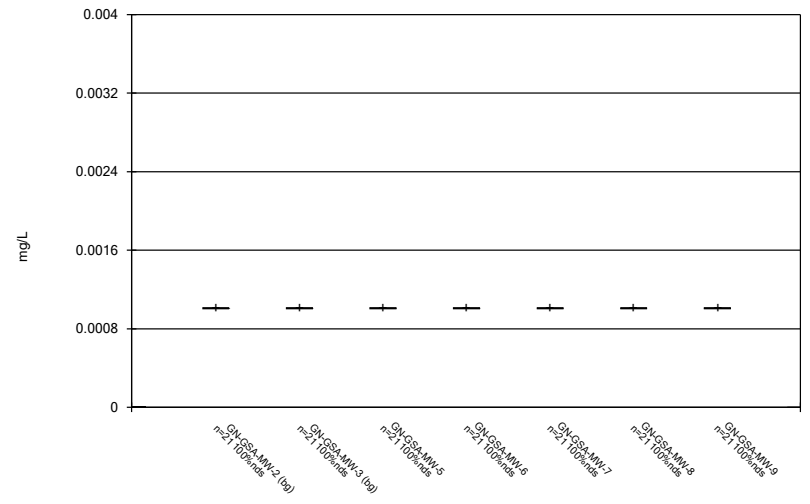
Constituent: Barium Analysis Run 10/2/2023 5:59 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



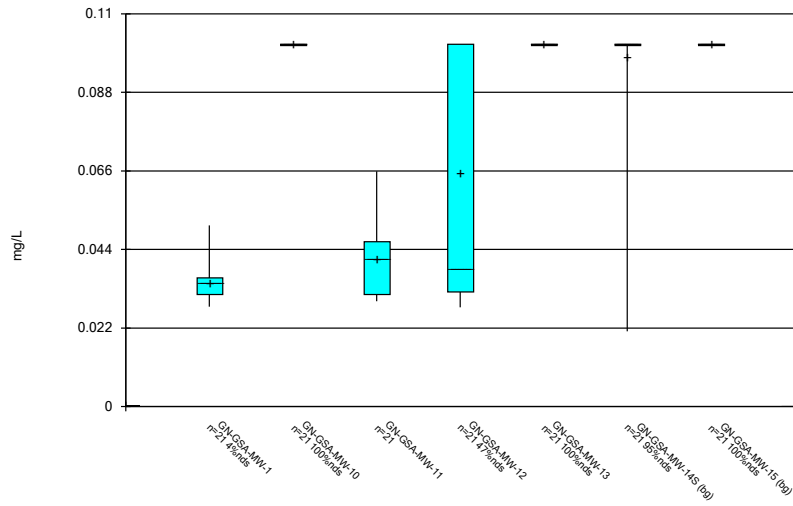
Constituent: Beryllium Analysis Run 10/2/2023 6:00 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



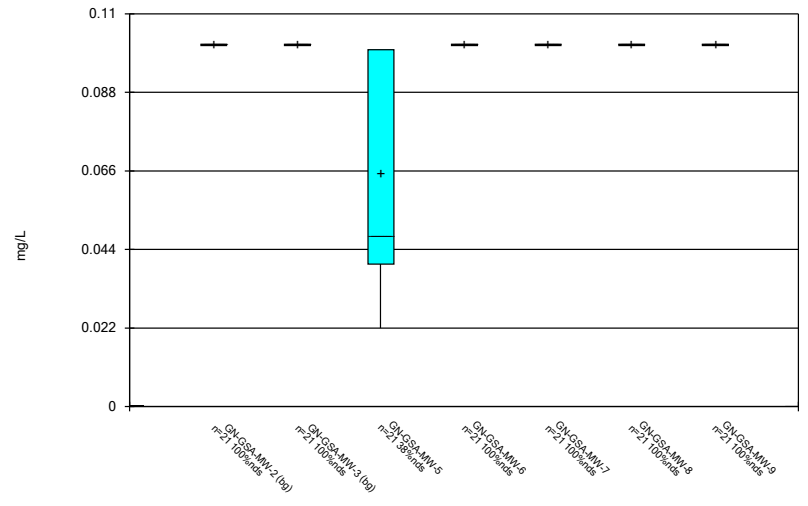
Constituent: Beryllium Analysis Run 10/2/2023 6:00 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



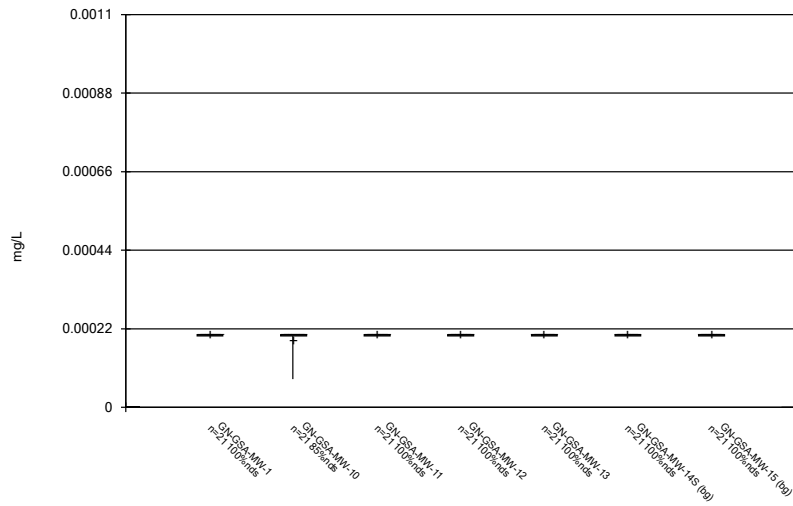
Constituent: Boron Analysis Run 10/2/2023 6:00 PM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



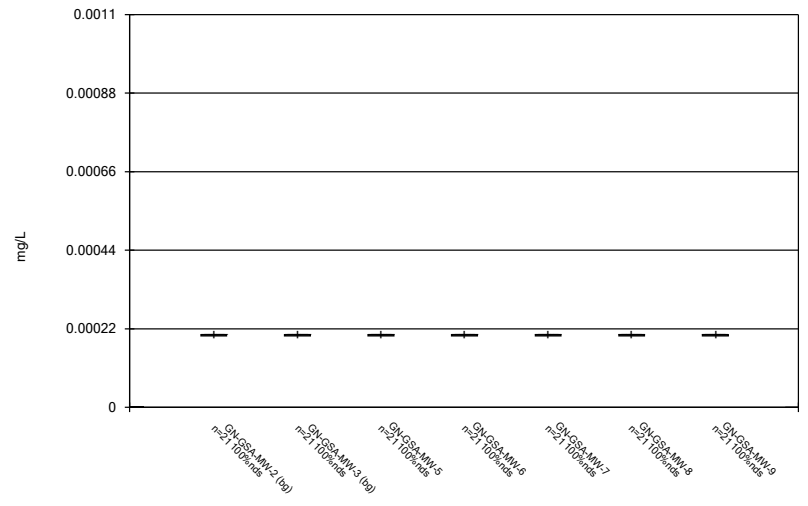
Constituent: Boron Analysis Run 10/2/2023 6:00 PM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



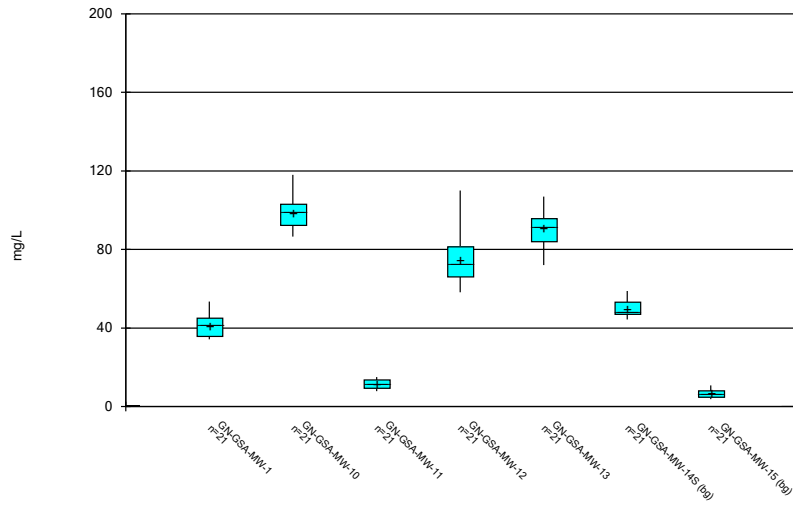
Constituent: Cadmium Analysis Run 10/2/2023 6:00 PM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



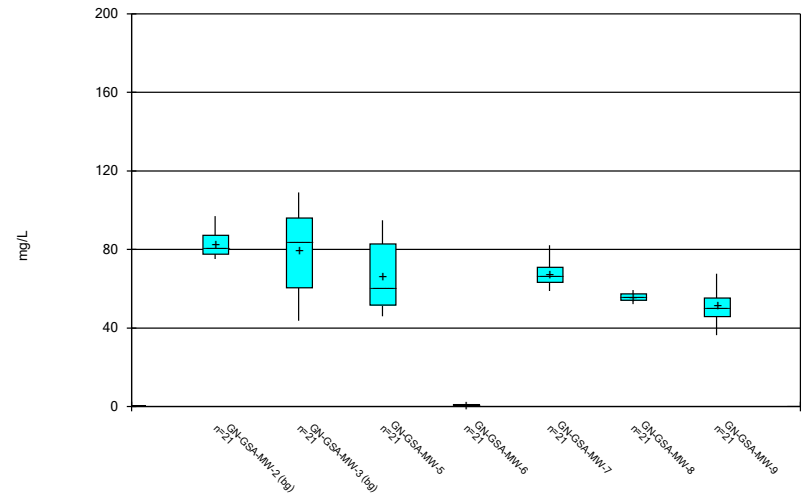
Constituent: Cadmium Analysis Run 10/2/2023 6:00 PM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



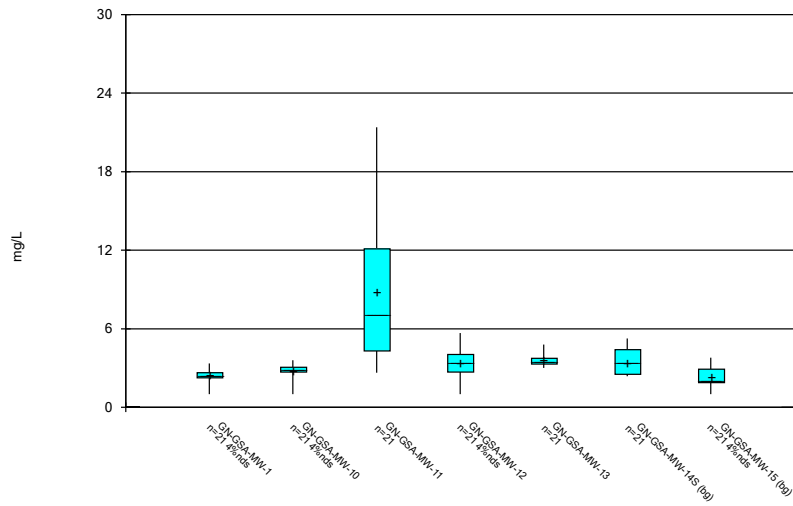
Constituent: Calcium Analysis Run 10/2/2023 6:00 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



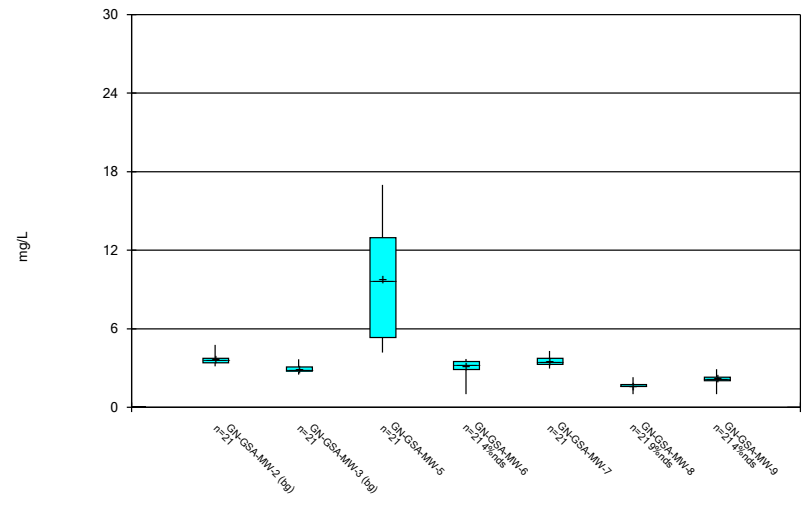
Constituent: Calcium Analysis Run 10/2/2023 6:00 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



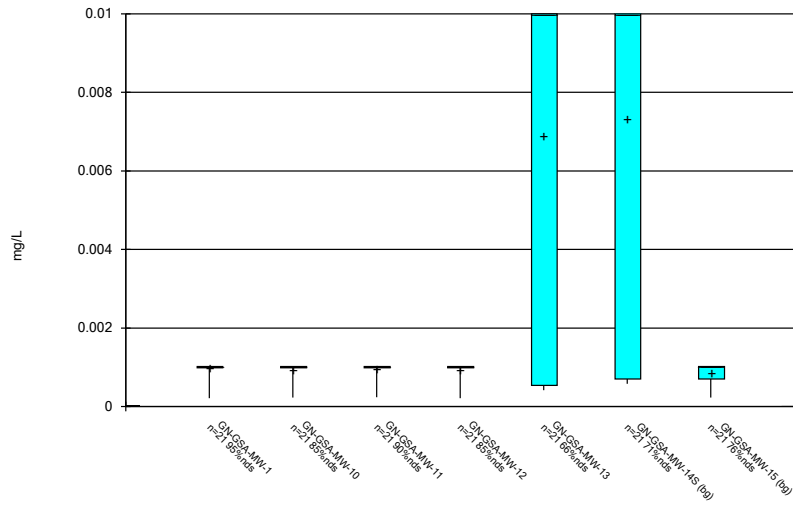
Constituent: Chloride Analysis Run 10/2/2023 6:00 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



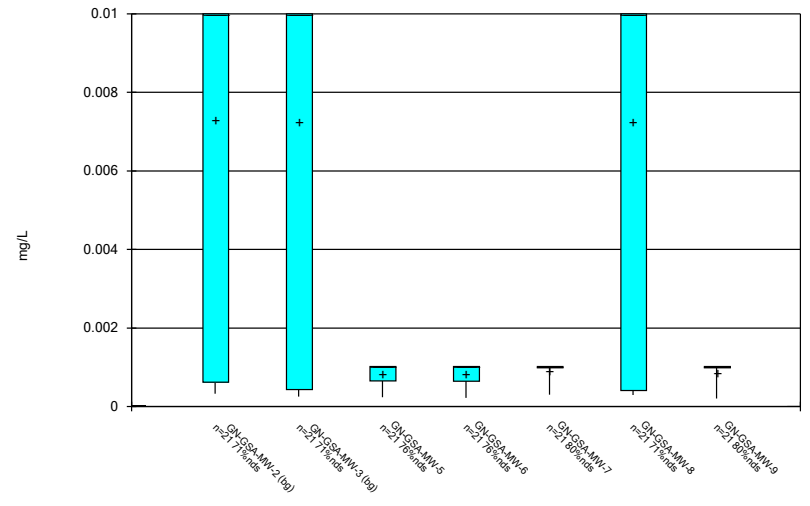
Constituent: Chloride Analysis Run 10/2/2023 6:00 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

Box & Whiskers Plot



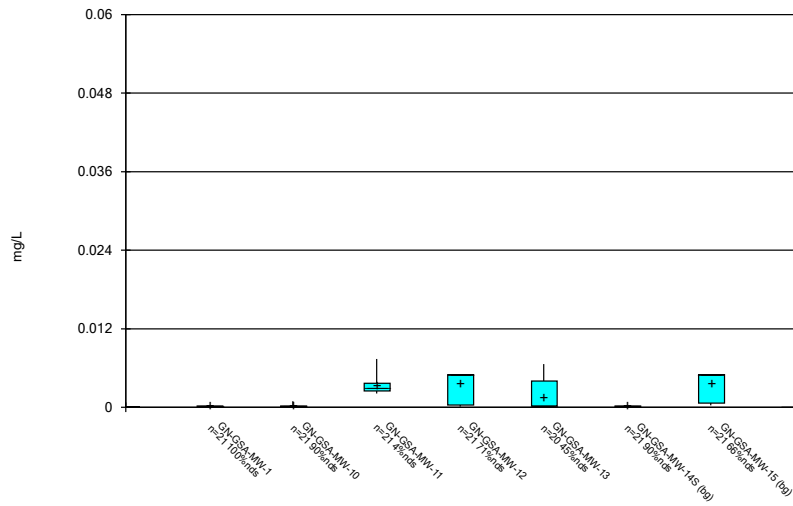
Constituent: Chromium Analysis Run 10/2/2023 6:00 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

Box & Whiskers Plot



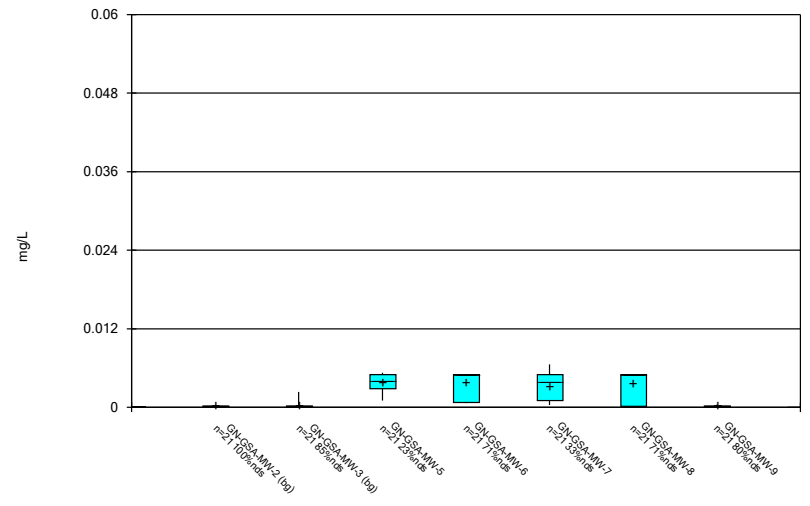
Constituent: Chromium Analysis Run 10/2/2023 6:00 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

Box & Whiskers Plot



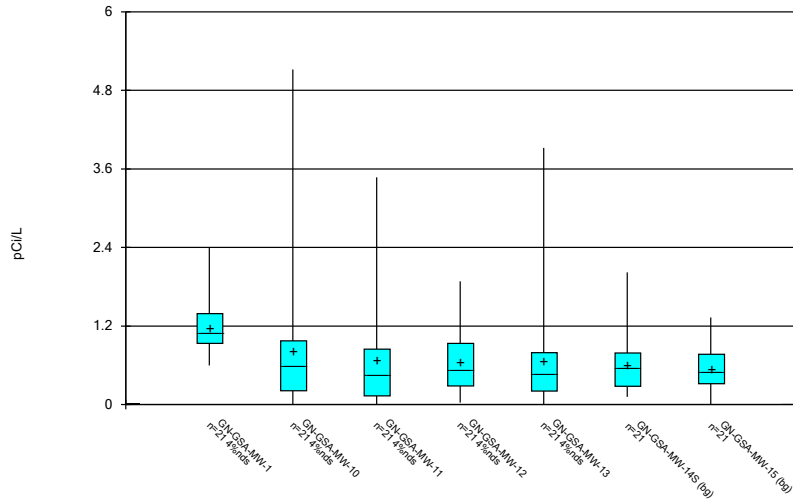
Constituent: Cobalt Analysis Run 10/2/2023 6:00 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

Box & Whiskers Plot



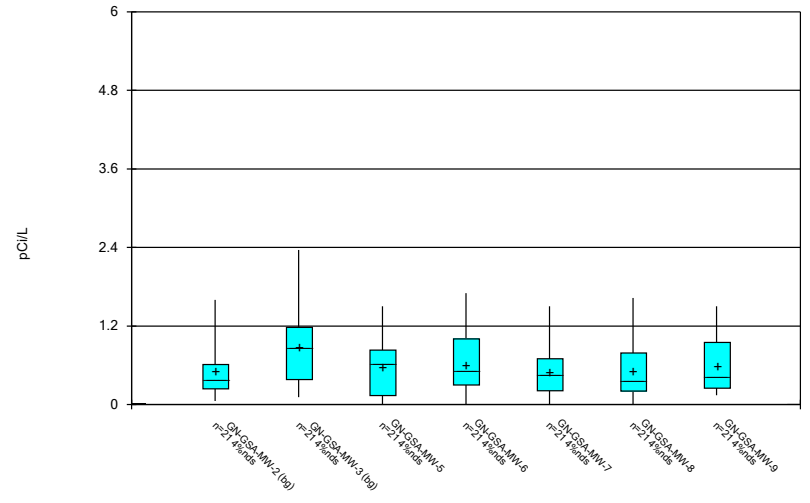
Constituent: Cobalt Analysis Run 10/2/2023 6:00 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



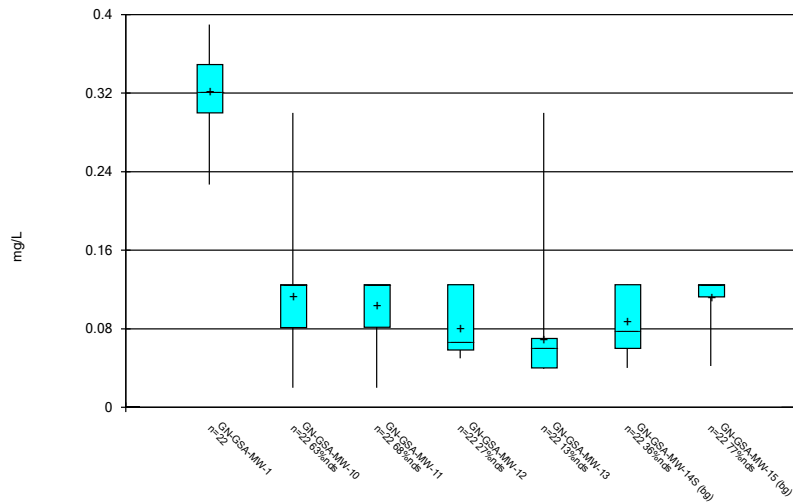
Constituent: Combined Radium 226 + 228 Analysis Run 10/2/2023 6:00 PM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



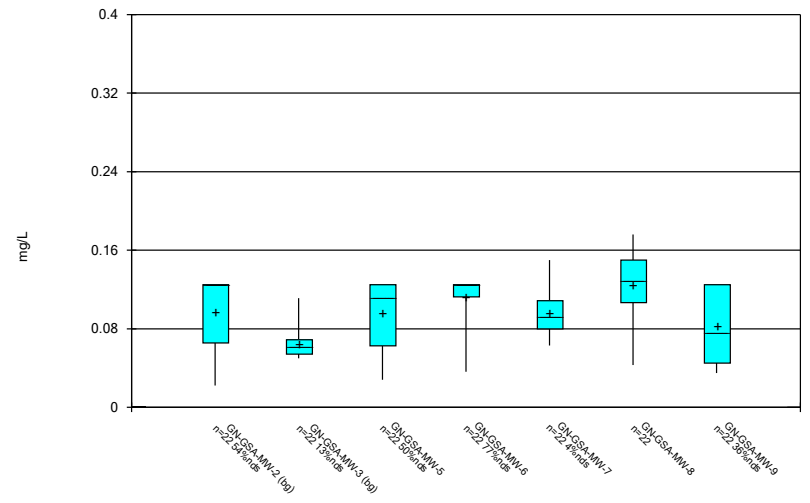
Constituent: Combined Radium 226 + 228 Analysis Run 10/2/2023 6:00 PM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



Constituent: Fluoride Analysis Run 10/2/2023 6:00 PM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

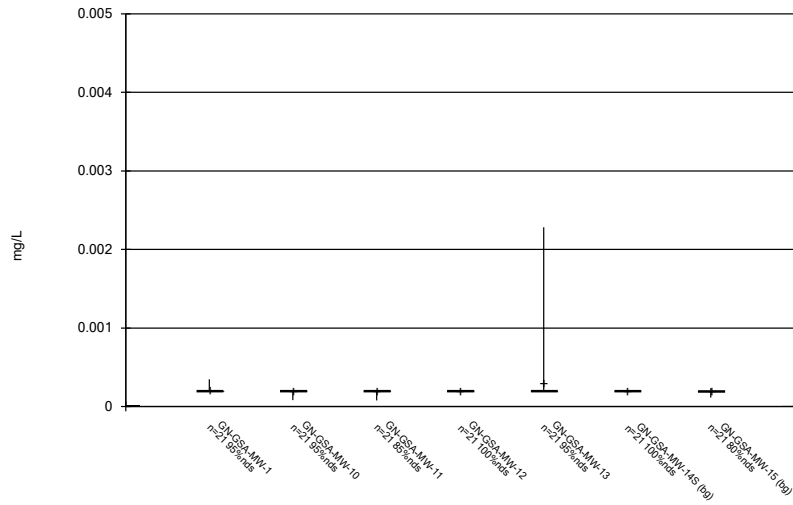
### Box & Whiskers Plot



Constituent: Fluoride Analysis Run 10/2/2023 6:00 PM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

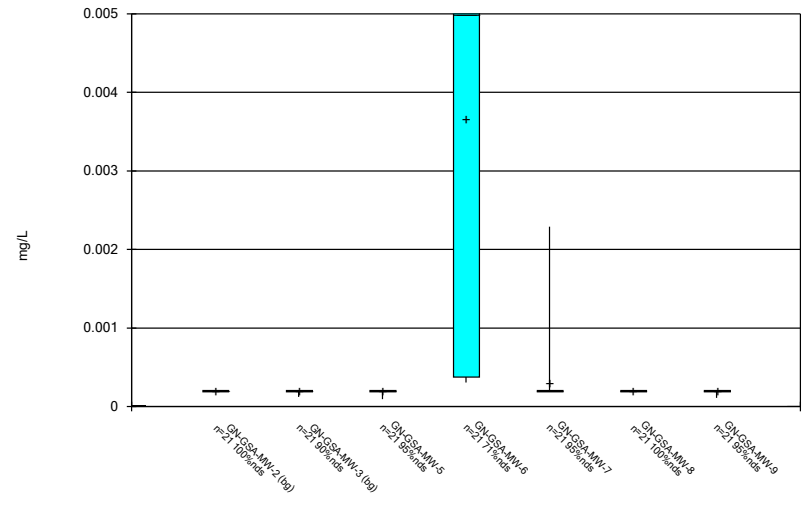


### Box & Whiskers Plot



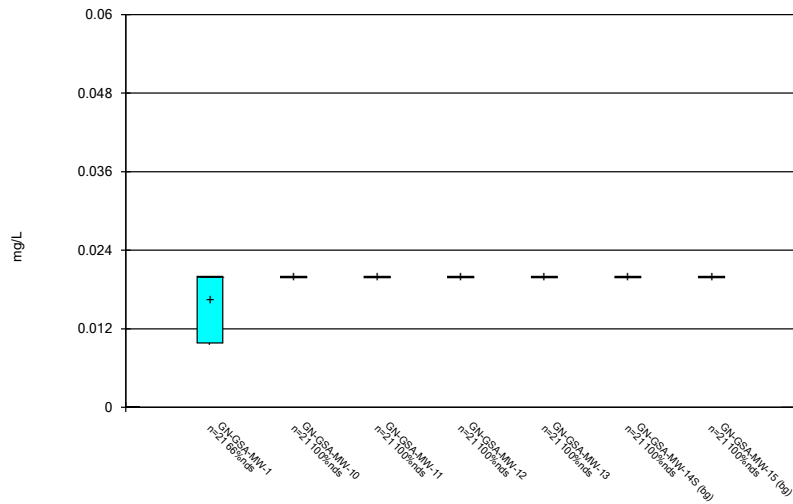
Constituent: Lead Analysis Run 10/2/2023 6:00 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



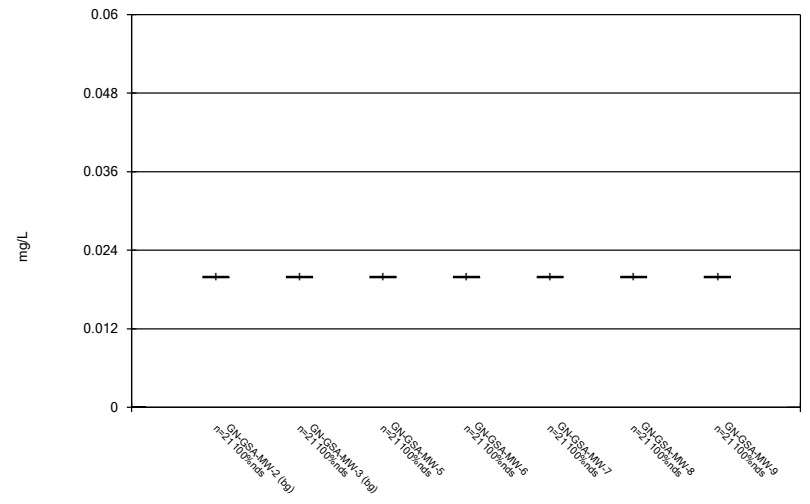
Constituent: Lead Analysis Run 10/2/2023 6:00 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



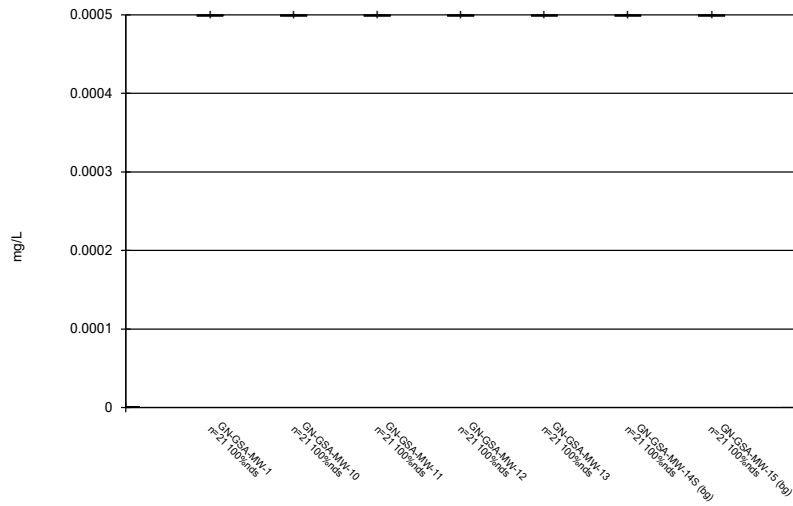
Constituent: Lithium Analysis Run 10/2/2023 6:00 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



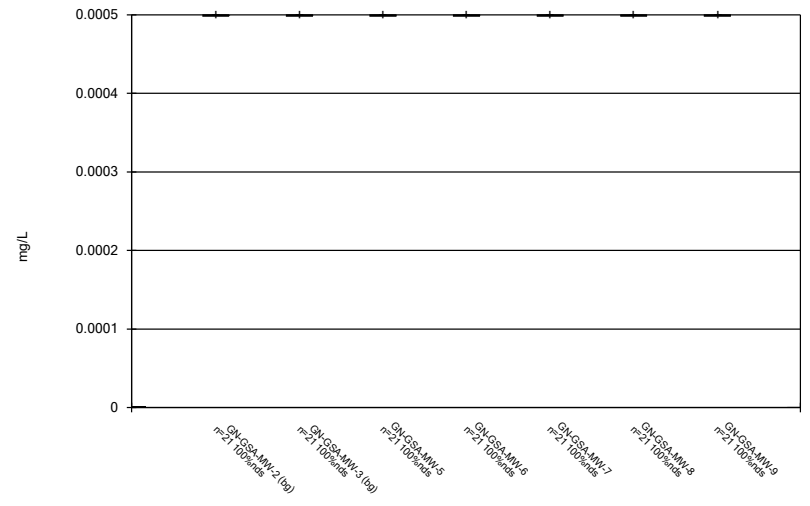
Constituent: Lithium Analysis Run 10/2/2023 6:00 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



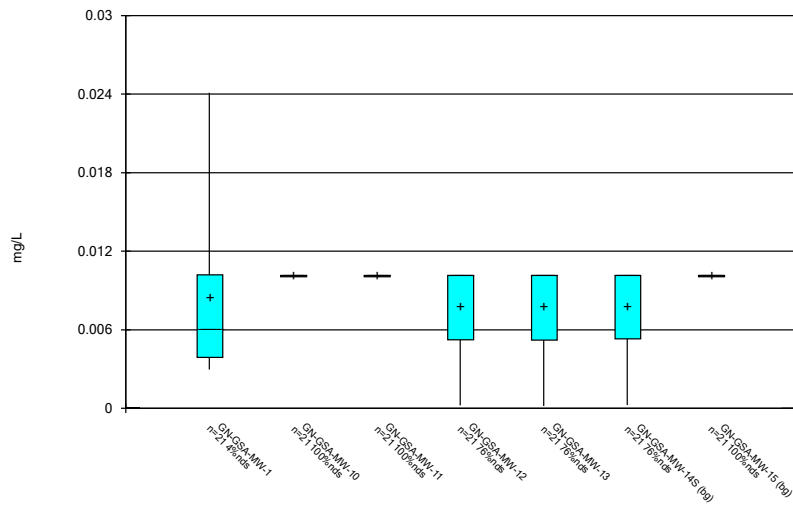
Constituent: Mercury Analysis Run 10/2/2023 6:00 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



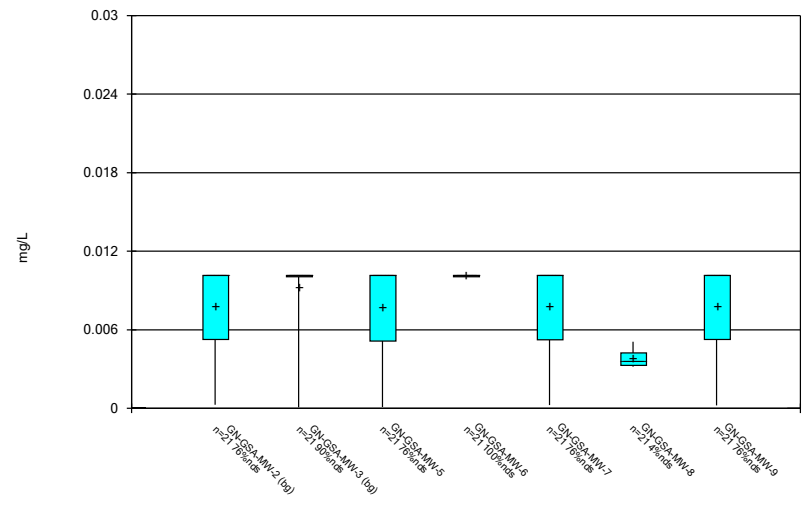
Constituent: Mercury Analysis Run 10/2/2023 6:00 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



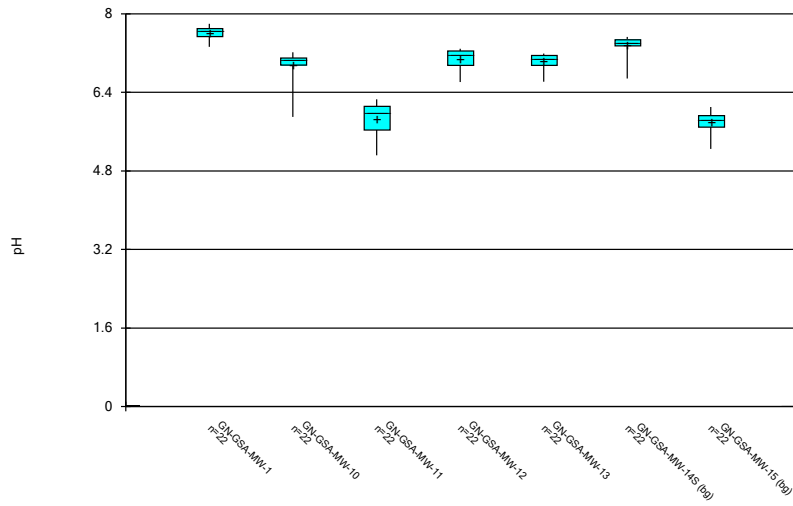
Constituent: Molybdenum Analysis Run 10/2/2023 6:00 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



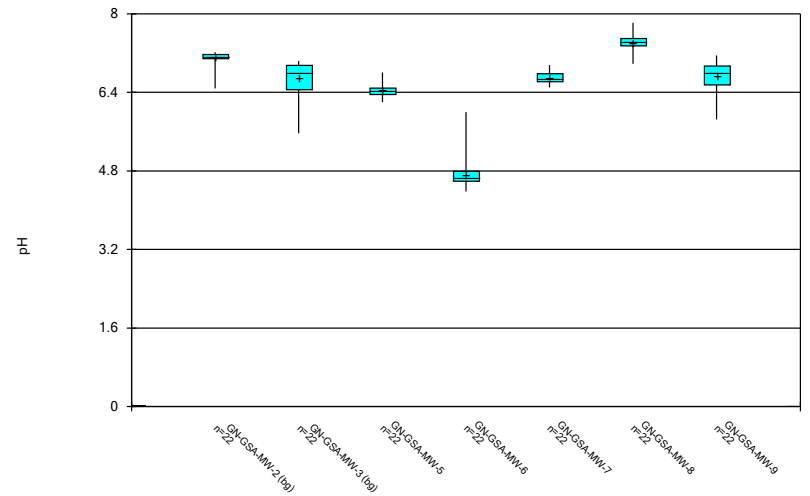
Constituent: Molybdenum Analysis Run 10/2/2023 6:00 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



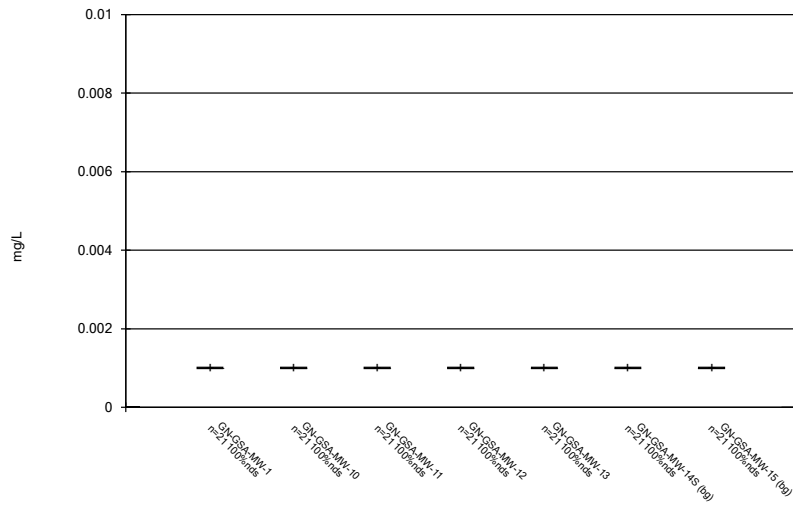
Constituent: pH Analysis Run 10/2/2023 6:00 PM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



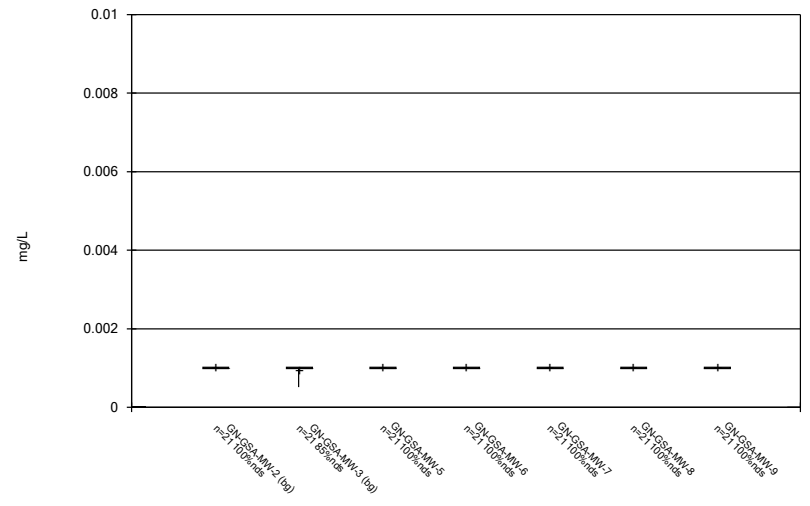
Constituent: pH Analysis Run 10/2/2023 6:00 PM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



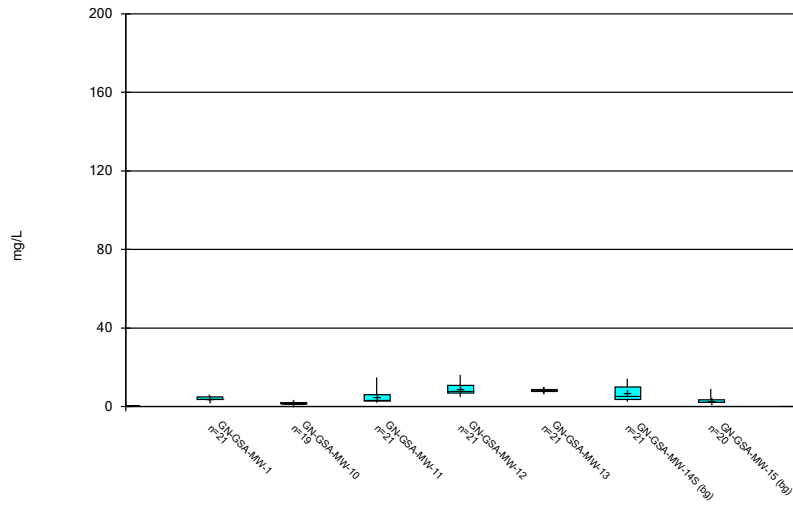
Constituent: Selenium Analysis Run 10/2/2023 6:00 PM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



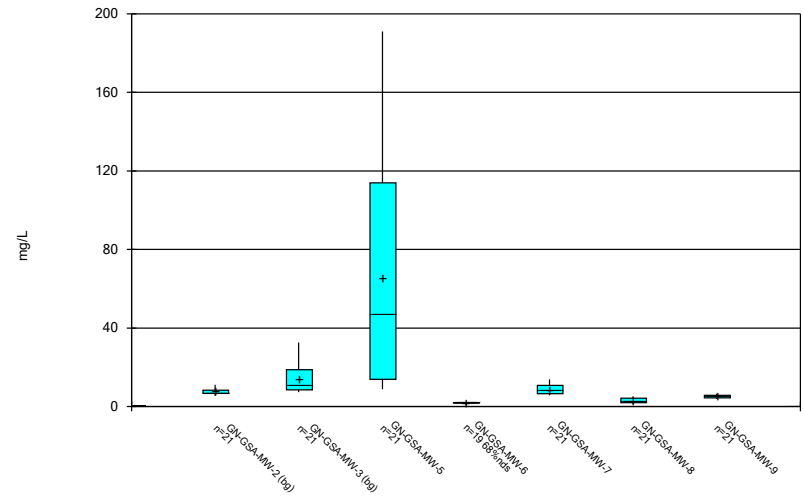
Constituent: Selenium Analysis Run 10/2/2023 6:00 PM  
 Plant Gaston Client: Southern Company Data: Gaston GSA

Box & Whiskers Plot



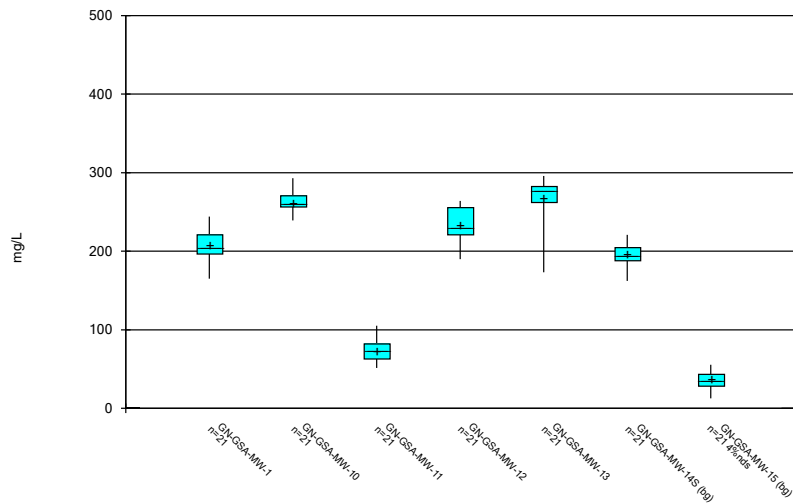
Constituent: Sulfate Analysis Run 10/2/2023 6:00 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

Box & Whiskers Plot



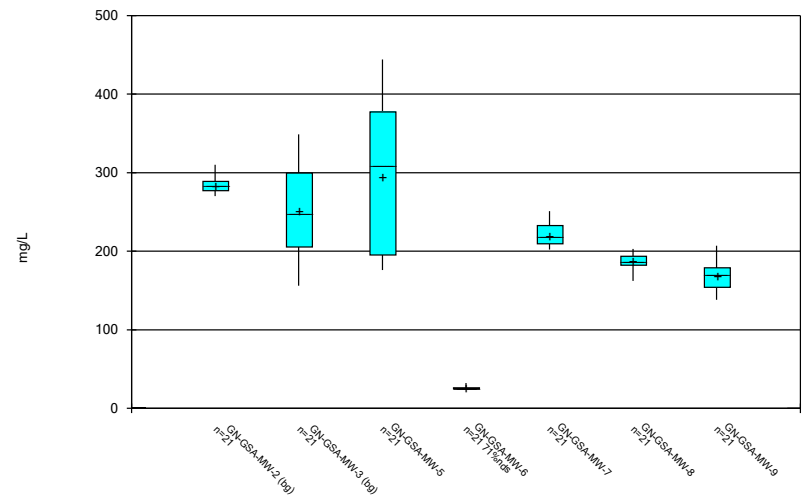
Constituent: Sulfate Analysis Run 10/2/2023 6:00 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

Box & Whiskers Plot



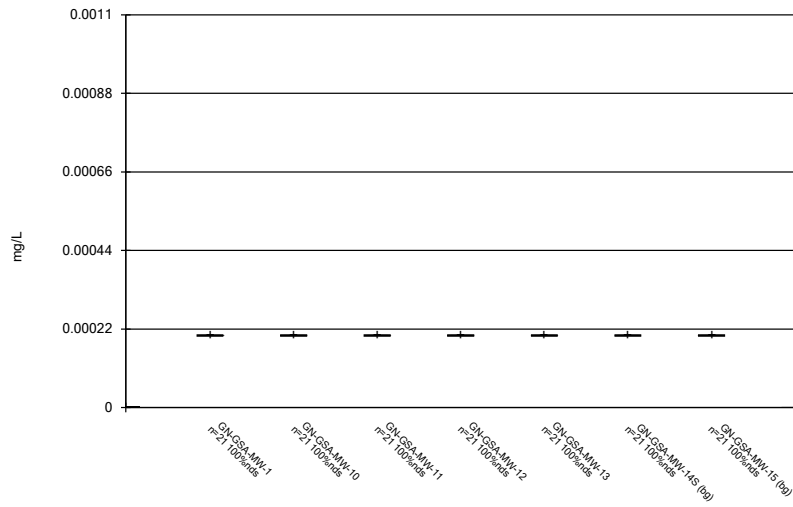
Constituent: TDS Analysis Run 10/2/2023 6:00 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

Box & Whiskers Plot



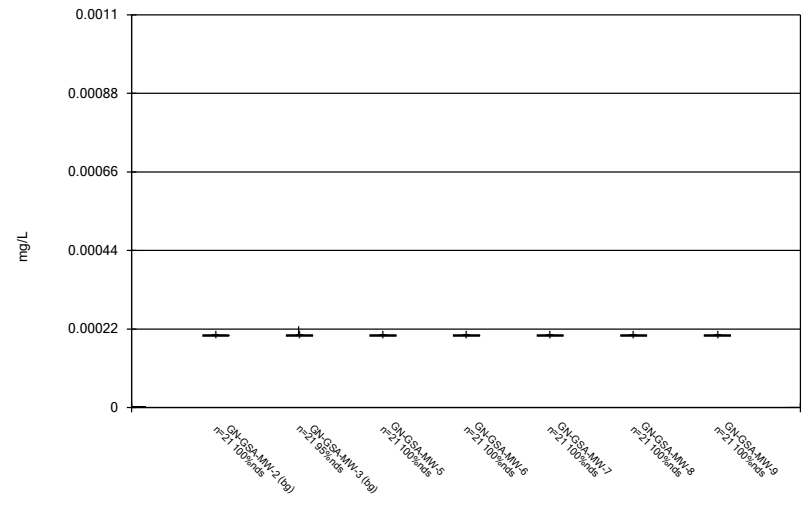
Constituent: TDS Analysis Run 10/2/2023 6:00 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



Constituent: Thallium Analysis Run 10/2/2023 6:00 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Box & Whiskers Plot



Constituent: Thallium Analysis Run 10/2/2023 6:00 PM  
Plant Gaston Client: Southern Company Data: Gaston GSA

FIGURE C.

# Outlier Summary

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 10/2/2023, 6:02 PM

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	GN-GSA-MW-1 Arsenic (mg/L)	GN-GSA-MW-13 Cobalt (mg/L)	GN-GSA-MW-10 Sulfate (mg/L)	GN-GSA-MW-15 Sulfate (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)	
7/5/2017		<5 (o)			
10/23/2018			<5 (o)		
10/24/2018		<5 (o)			
5/21/2019	0.0578 (o)				

# Tukey's Outlier Test - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 10/2/2023, 5:54 PM

Constituent	Well	Outlier	Value(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Chloride (mg/L)	GN-GSA-MW-8	Yes	2.3,2.2,1,1	NP	NaN	20	1.678	0.31	x^2	ShapiroWilk
Chloride (mg/L)	GN-GSA-MW-9	Yes	2.9,2.9,1	NP	NaN	20	2.226	0.4007	x^2	ShapiroWilk
Sulfate (mg/L)	GN-GSA-MW-6	Yes	1.3,1.14,0.622,5,5	NP	NaN	20	2.137	1.047	In(x)	ShapiroWilk
TDS (mg/L)	GN-GSA-MW-6	Yes	30,32	NP	NaN	20	25.93	1.91	In(x)	ShapiroWilk

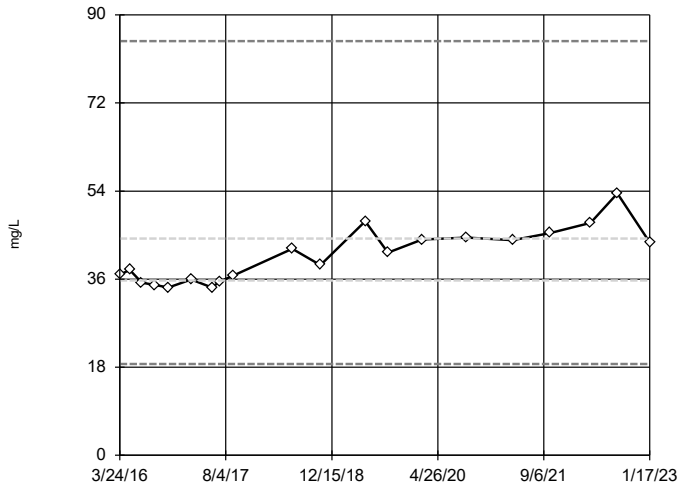


# Tukey's Outlier Test - All Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 10/2/2023, 5:54 PM

Constituent	Well	Outlier	Value(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Calcium (mg/L)	GN-GSA-MW-1	No	n/a	NP	NaN	20	40.72	5.465	ln(x)	ShapiroWilk
Calcium (mg/L)	GN-GSA-MW-10	No	n/a	NP	NaN	20	98.5	7.514	ln(x)	ShapiroWilk
Calcium (mg/L)	GN-GSA-MW-11	No	n/a	NP	NaN	20	11.35	2.255	normal	ShapiroWilk
Calcium (mg/L)	GN-GSA-MW-12	No	n/a	NP	NaN	20	74.36	11.92	ln(x)	ShapiroWilk
Calcium (mg/L)	GN-GSA-MW-13	No	n/a	NP	NaN	20	90.13	8.936	sqrt(x)	ShapiroWilk
Calcium (mg/L)	GN-GSA-MW-14S (bg)	No	n/a	NP	NaN	20	49.71	4.108	ln(x)	ShapiroWilk
Calcium (mg/L)	GN-GSA-MW-15 (bg)	No	n/a	NP	NaN	20	6.705	1.844	x^(1/3)	ShapiroWilk
Calcium (mg/L)	GN-GSA-MW-2 (bg)	No	n/a	NP	NaN	20	82.79	6.457	ln(x)	ShapiroWilk
Calcium (mg/L)	GN-GSA-MW-3 (bg)	No	n/a	NP	NaN	20	79.54	20.01	x^2	ShapiroWilk
Calcium (mg/L)	GN-GSA-MW-5	No	n/a	NP	NaN	20	65.52	16.03	ln(x)	ShapiroWilk
Calcium (mg/L)	GN-GSA-MW-6	No	n/a	NP	NaN	20	0.8009	0.2693	ln(x)	ShapiroWilk
Calcium (mg/L)	GN-GSA-MW-7	No	n/a	NP	NaN	20	67.18	5.639	ln(x)	ShapiroWilk
Calcium (mg/L)	GN-GSA-MW-8	No	n/a	NP	NaN	20	55.81	2.108	x^5	ShapiroWilk
Calcium (mg/L)	GN-GSA-MW-9	No	n/a	NP	NaN	20	51.52	7.387	x^(1/3)	ShapiroWilk
Chloride (mg/L)	GN-GSA-MW-1	No	n/a	NP	NaN	20	2.462	0.4667	x^2	ShapiroWilk
Chloride (mg/L)	GN-GSA-MW-10	No	n/a	NP	NaN	20	2.804	0.5034	x^3	ShapiroWilk
Chloride (mg/L)	GN-GSA-MW-11	No	n/a	NP	NaN	20	8.133	5.102	ln(x)	ShapiroWilk
Chloride (mg/L)	GN-GSA-MW-12	No	n/a	NP	NaN	20	3.361	1.027	normal	ShapiroWilk
Chloride (mg/L)	GN-GSA-MW-13	No	n/a	NP	NaN	20	3.558	0.4729	ln(x)	ShapiroWilk
Chloride (mg/L)	GN-GSA-MW-14S (bg)	No	n/a	NP	NaN	20	3.487	0.9507	sqrt(x)	ShapiroWilk
Chloride (mg/L)	GN-GSA-MW-15 (bg)	No	n/a	NP	NaN	20	2.31	0.7374	x^(1/3)	ShapiroWilk
Chloride (mg/L)	GN-GSA-MW-2 (bg)	No	n/a	NP	NaN	20	3.681	0.4557	ln(x)	ShapiroWilk
Chloride (mg/L)	GN-GSA-MW-3 (bg)	No	n/a	NP	NaN	20	2.959	0.3079	ln(x)	ShapiroWilk
Chloride (mg/L)	GN-GSA-MW-5	No	n/a	NP	NaN	20	9.846	4.182	normal	ShapiroWilk
Chloride (mg/L)	GN-GSA-MW-6	No	n/a	NP	NaN	20	3.103	0.5956	x^4	ShapiroWilk
Chloride (mg/L)	GN-GSA-MW-7	No	n/a	NP	NaN	20	3.548	0.3965	ln(x)	ShapiroWilk
<b>Chloride (mg/L)</b>	<b>GN-GSA-MW-8</b>	<b>Yes</b>	<b>2.3,2.2,1,1</b>	<b>NP</b>	<b>NaN</b>	<b>20</b>	<b>1.678</b>	<b>0.31</b>	<b>x^2</b>	<b>ShapiroWilk</b>
<b>Chloride (mg/L)</b>	<b>GN-GSA-MW-9</b>	<b>Yes</b>	<b>2.9,2.9,1</b>	<b>NP</b>	<b>NaN</b>	<b>20</b>	<b>2.226</b>	<b>0.4007</b>	<b>x^2</b>	<b>ShapiroWilk</b>
Sulfate (mg/L)	GN-GSA-MW-1	No	n/a	NP	NaN	20	4.221	0.8224	x^(1/3)	ShapiroWilk
Sulfate (mg/L)	GN-GSA-MW-10	No	n/a	NP	NaN	20	1.868	0.2929	ln(x)	ShapiroWilk
Sulfate (mg/L)	GN-GSA-MW-11	No	n/a	NP	NaN	20	5.014	3.273	ln(x)	ShapiroWilk
Sulfate (mg/L)	GN-GSA-MW-12	No	n/a	NP	NaN	20	8.902	3.214	ln(x)	ShapiroWilk
Sulfate (mg/L)	GN-GSA-MW-13	No	n/a	NP	NaN	20	8.163	0.8425	x^(1/3)	ShapiroWilk
Sulfate (mg/L)	GN-GSA-MW-14S (bg)	No	n/a	NP	NaN	20	6.87	3.885	ln(x)	ShapiroWilk
Sulfate (mg/L)	GN-GSA-MW-15 (bg)	No	n/a	NP	NaN	20	2.746	0.9439	ln(x)	ShapiroWilk
Sulfate (mg/L)	GN-GSA-MW-2 (bg)	No	n/a	NP	NaN	20	7.583	1.472	ln(x)	ShapiroWilk
Sulfate (mg/L)	GN-GSA-MW-3 (bg)	No	n/a	NP	NaN	20	14.39	7.318	ln(x)	ShapiroWilk
Sulfate (mg/L)	GN-GSA-MW-5	No	n/a	NP	NaN	20	59.11	48.8	ln(x)	ShapiroWilk
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-6</b>	<b>Yes</b>	<b>1.3,1.14,0.622,5,5</b>	<b>NP</b>	<b>NaN</b>	<b>20</b>	<b>2.137</b>	<b>1.047</b>	<b>ln(x)</b>	<b>ShapiroWilk</b>
Sulfate (mg/L)	GN-GSA-MW-7	No	n/a	NP	NaN	20	8.843	2.35	ln(x)	ShapiroWilk
Sulfate (mg/L)	GN-GSA-MW-8	No	n/a	NP	NaN	20	2.933	1.246	ln(x)	ShapiroWilk
Sulfate (mg/L)	GN-GSA-MW-9	No	n/a	NP	NaN	20	5.159	0.728	x^2	ShapiroWilk
TDS (mg/L)	GN-GSA-MW-1	No	n/a	NP	NaN	20	208.7	19.85	sqrt(x)	ShapiroWilk
TDS (mg/L)	GN-GSA-MW-10	No	n/a	NP	NaN	20	261.8	12.5	ln(x)	ShapiroWilk
TDS (mg/L)	GN-GSA-MW-11	No	n/a	NP	NaN	20	72.35	14.22	ln(x)	ShapiroWilk
TDS (mg/L)	GN-GSA-MW-12	No	n/a	NP	NaN	20	232.5	23.4	x^4	ShapiroWilk
TDS (mg/L)	GN-GSA-MW-13	No	n/a	NP	NaN	20	267.3	26.67	x^6	ShapiroWilk
TDS (mg/L)	GN-GSA-MW-14S (bg)	No	n/a	NP	NaN	20	196.7	13.18	x^3	ShapiroWilk
TDS (mg/L)	GN-GSA-MW-15 (bg)	No	n/a	NP	NaN	20	36.31	10.45	normal	ShapiroWilk
TDS (mg/L)	GN-GSA-MW-2 (bg)	No	n/a	NP	NaN	20	283.6	9.992	ln(x)	ShapiroWilk
TDS (mg/L)	GN-GSA-MW-3 (bg)	No	n/a	NP	NaN	20	251.7	59.01	normal	ShapiroWilk
TDS (mg/L)	GN-GSA-MW-5	No	n/a	NP	NaN	20	287.8	85.33	x^2	ShapiroWilk
<b>TDS (mg/L)</b>	<b>GN-GSA-MW-6</b>	<b>Yes</b>	<b>30,32</b>	<b>NP</b>	<b>NaN</b>	<b>20</b>	<b>25.93</b>	<b>1.91</b>	<b>ln(x)</b>	<b>ShapiroWilk</b>
TDS (mg/L)	GN-GSA-MW-7	No	n/a	NP	NaN	20	220.4	13.91	ln(x)	ShapiroWilk
TDS (mg/L)	GN-GSA-MW-8	No	n/a	NP	NaN	20	186.8	9.646	x^6	ShapiroWilk
TDS (mg/L)	GN-GSA-MW-9	No	n/a	NP	NaN	20	169	16.57	ln(x)	ShapiroWilk

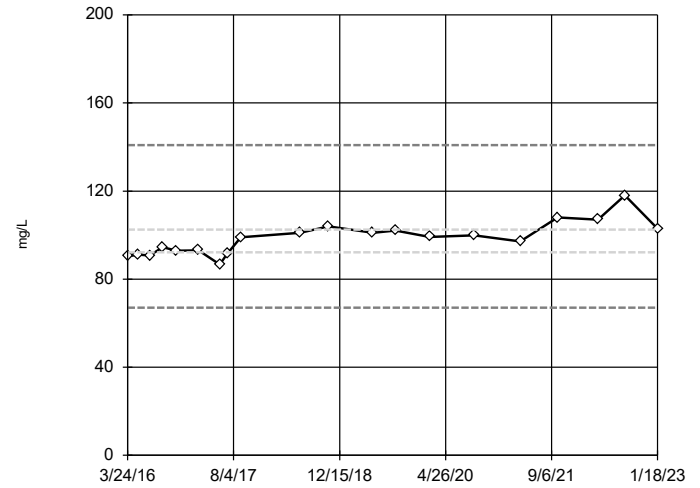
### Tukey's Outlier Screening GN-GSA-MW-1



n = 20  
 No outliers found.  
 Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 84.65, low cutoff = 18.68, based on IQR multiplier of 3.

Constituent: Calcium Analysis Run 10/2/2023 5:52 PM View: Outliers  
 Plant Gaston Client: Southern Company Data: Gaston GSA

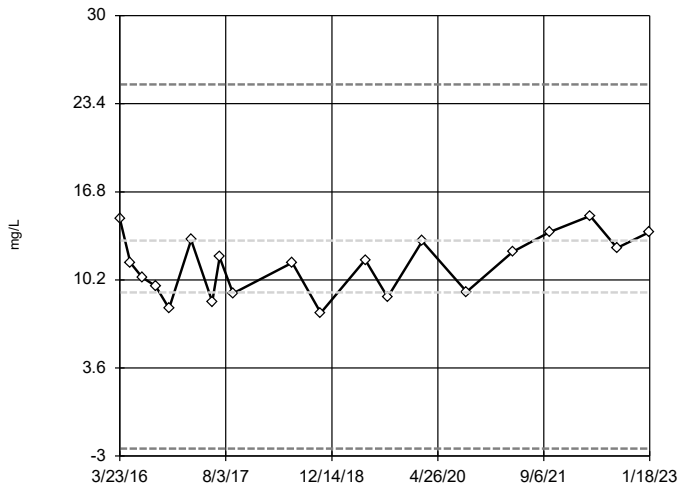
### Tukey's Outlier Screening GN-GSA-MW-10



n = 20  
 No outliers found.  
 Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 140.8, low cutoff = 67.1, based on IQR multiplier of 3.

Constituent: Calcium Analysis Run 10/2/2023 5:52 PM View: Outliers  
 Plant Gaston Client: Southern Company Data: Gaston GSA

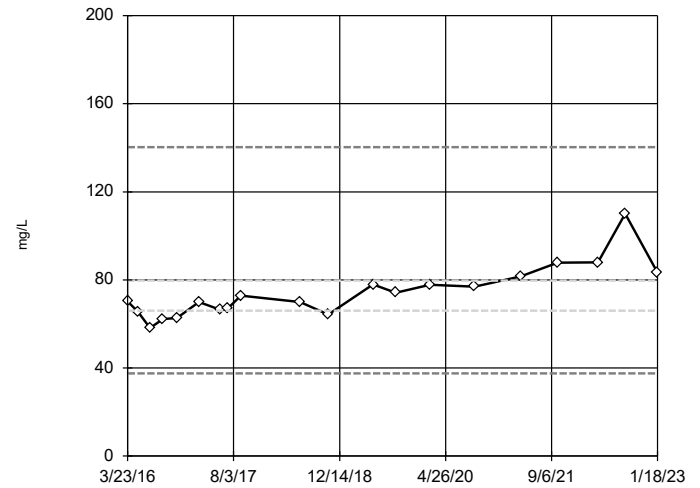
### Tukey's Outlier Screening GN-GSA-MW-11



n = 20  
 No outliers found.  
 Tukey's method selected by user.  
 Ladder of Powers transformations did not improve normality, analysis run on raw data.  
 High cutoff = 24.85, low cutoff = -2.45, based on IQR multiplier of 3.

Constituent: Calcium Analysis Run 10/2/2023 5:52 PM View: Outliers  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening GN-GSA-MW-12

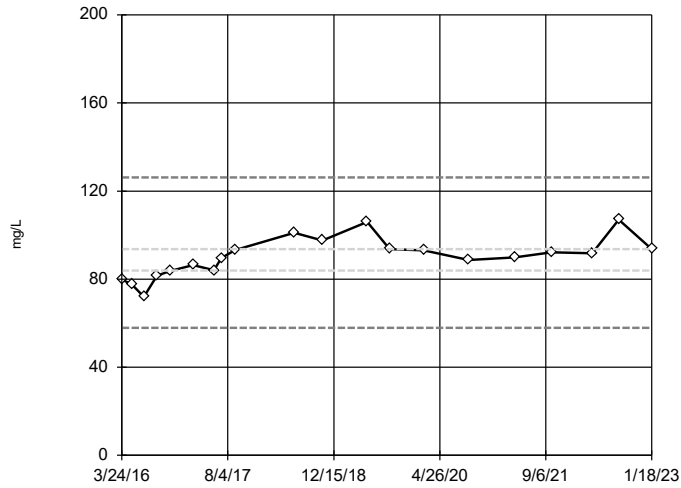


n = 20  
 No outliers found.  
 Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 140.2, low cutoff = 37.55, based on IQR multiplier of 3.

Constituent: Calcium Analysis Run 10/2/2023 5:52 PM View: Outliers  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

GN-GSA-MW-13



n = 20

No outliers found.  
Tukey's method selected by user.

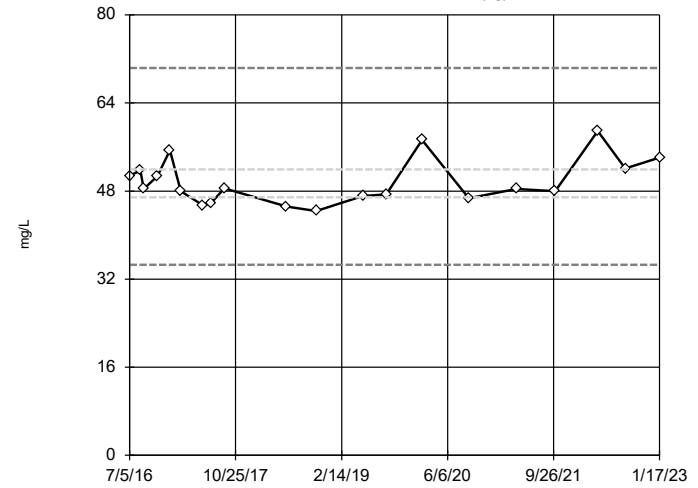
Data were square root transformed to achieve best W statistic (graph shown in original units).

High cutoff = 126.2, low cutoff = 57.91, based on IQR multiplier of 3.

Constituent: Calcium Analysis Run 10/2/2023 5:52 PM View: Outliers  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

GN-GSA-MW-14S (bg)



n = 20

No outliers found.  
Tukey's method selected by user.

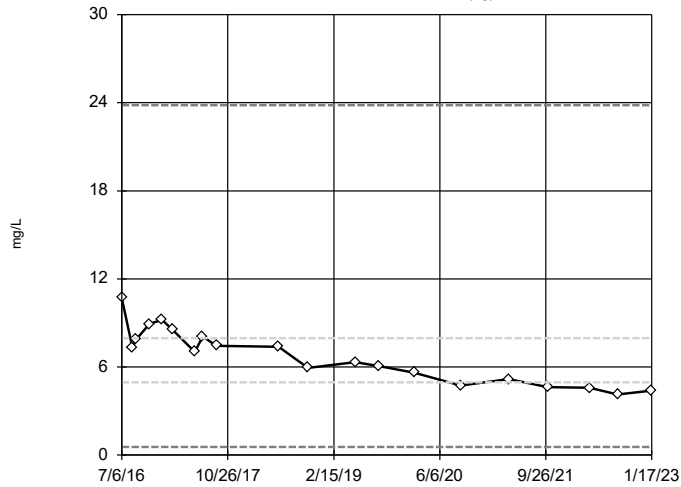
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 70.33, low cutoff = 34.61, based on IQR multiplier of 3.

Constituent: Calcium Analysis Run 10/2/2023 5:52 PM View: Outliers  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

GN-GSA-MW-15 (bg)



n = 20

No outliers found.  
Tukey's method selected by user.

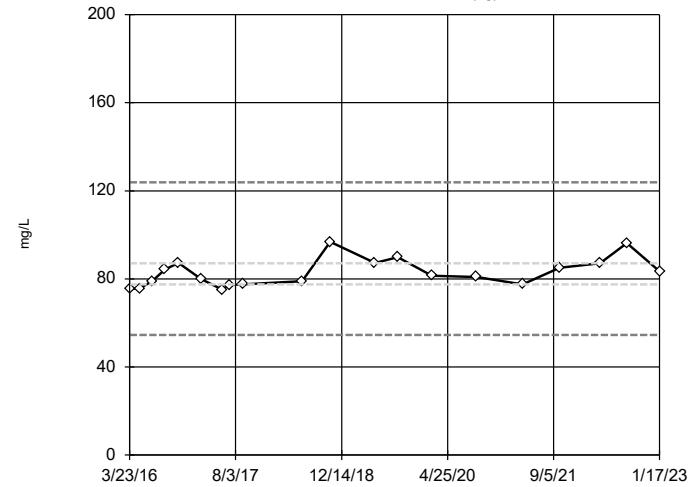
Data were cube root transformed to achieve best W statistic (graph shown in original units).

High cutoff = 23.84, low cutoff = 0.5578, based on IQR multiplier of 3.

Constituent: Calcium Analysis Run 10/2/2023 5:52 PM View: Outliers  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

GN-GSA-MW-2 (bg)



n = 20

No outliers found.  
Tukey's method selected by user.

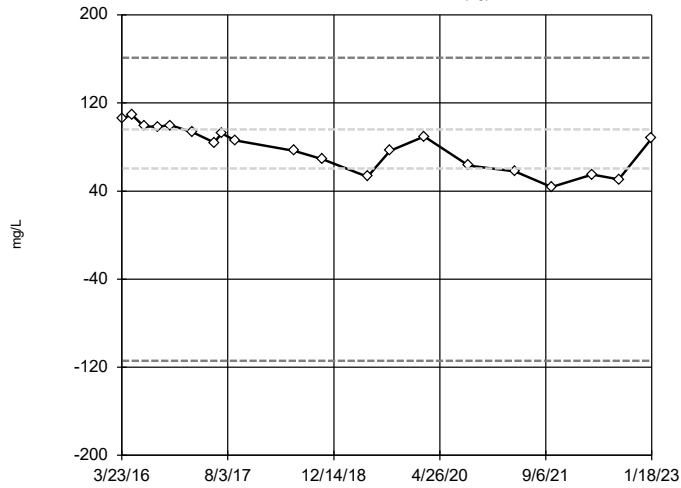
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 123.9, low cutoff = 54.5, based on IQR multiplier of 3.

Constituent: Calcium Analysis Run 10/2/2023 5:52 PM View: Outliers  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

GN-GSA-MW-3 (bg)

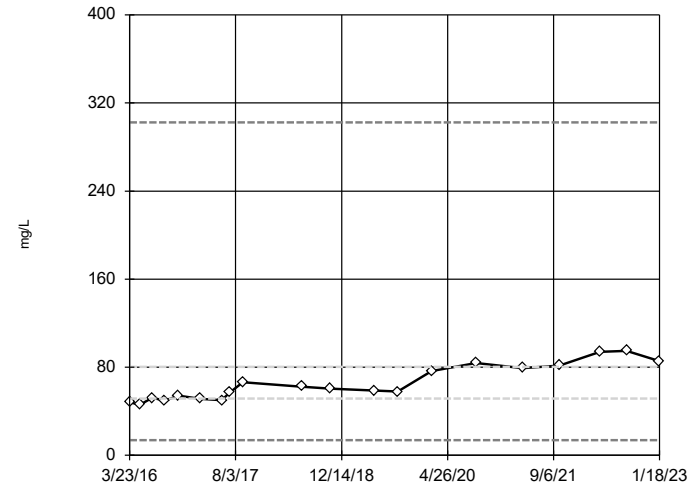


n = 20  
 No outliers found.  
 Tukey's method selected by user.  
 Data were square transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 161, low cutoff = -114.1, based on IQR multiplier of 3.

Constituent: Calcium Analysis Run 10/2/2023 5:52 PM View: Outliers  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

GN-GSA-MW-5

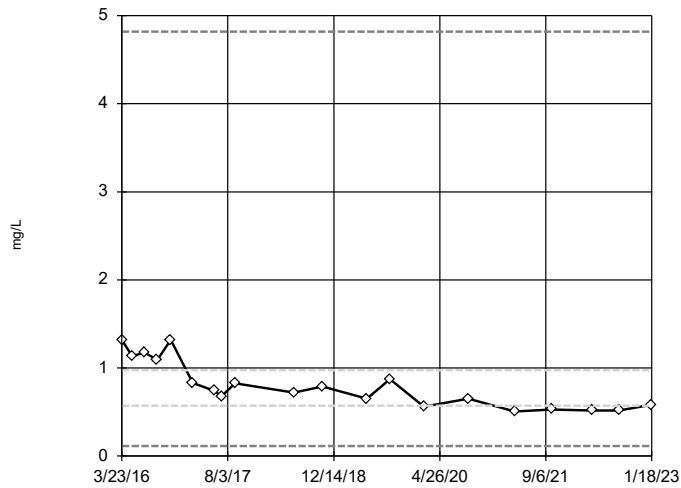


n = 20  
 No outliers found.  
 Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 302.3, low cutoff = 13.75, based on IQR multiplier of 3.

Constituent: Calcium Analysis Run 10/2/2023 5:52 PM View: Outliers  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

GN-GSA-MW-6

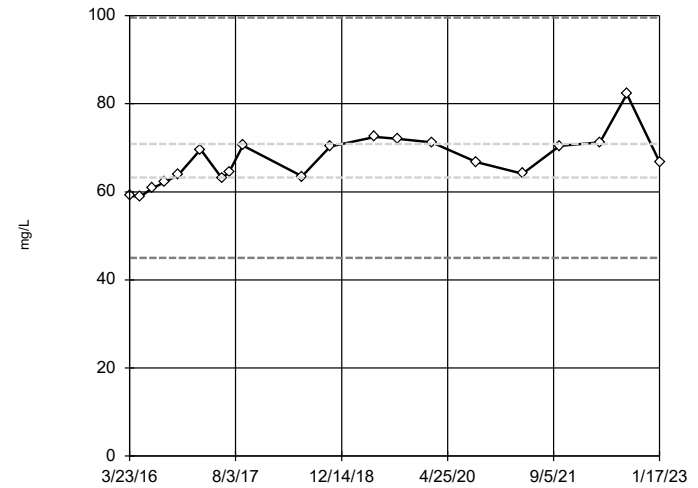


n = 20  
 No outliers found.  
 Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 4.817, low cutoff = 0.1158, based on IQR multiplier of 3.

Constituent: Calcium Analysis Run 10/2/2023 5:52 PM View: Outliers  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

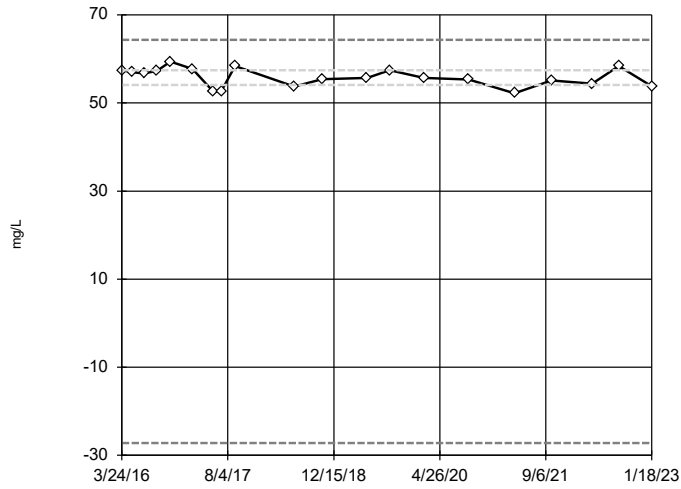
GN-GSA-MW-7



n = 20  
 No outliers found.  
 Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 99.58, low cutoff = 45, based on IQR multiplier of 3.

Constituent: Calcium Analysis Run 10/2/2023 5:52 PM View: Outliers  
 Plant Gaston Client: Southern Company Data: Gaston GSA

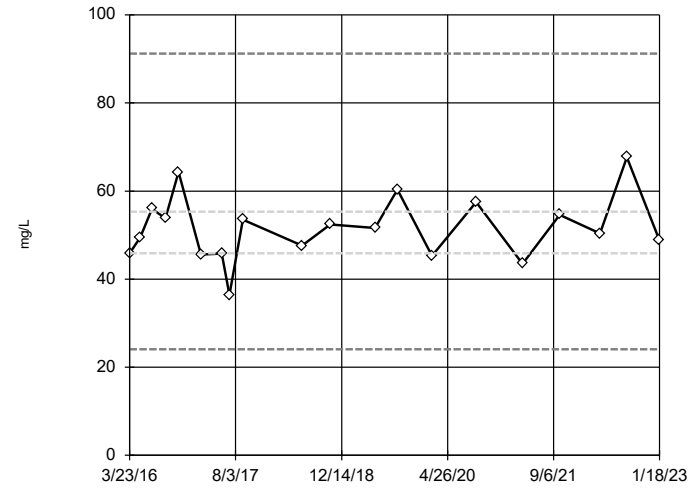
Tukey's Outlier Screening  
GN-GSA-MW-8



n = 20  
No outliers found.  
Tukey's method selected by user.  
Data were  $x^5$  transformed to achieve best W statistic (graph shown in original units).  
High cutoff = 64.33, low cutoff = -27.24, based on IQR multiplier of 3.

Constituent: Calcium Analysis Run 10/2/2023 5:52 PM View: Outliers  
Plant Gaston Client: Southern Company Data: Gaston GSA

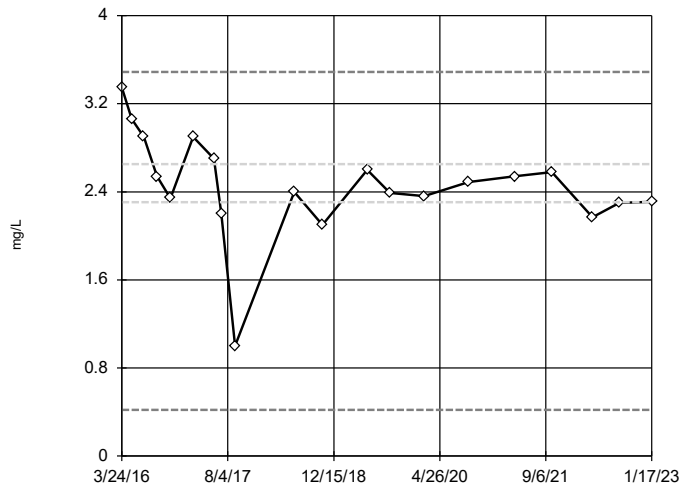
Tukey's Outlier Screening  
GN-GSA-MW-9



n = 20  
No outliers found.  
Tukey's method selected by user.  
Data were cube root transformed to achieve best W statistic (graph shown in original units).  
High cutoff = 91.23, low cutoff = 24.07, based on IQR multiplier of 3.

Constituent: Calcium Analysis Run 10/2/2023 5:52 PM View: Outliers  
Plant Gaston Client: Southern Company Data: Gaston GSA

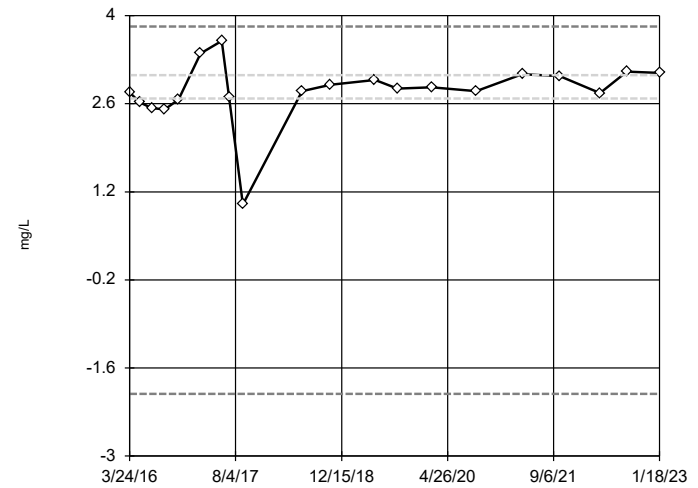
Tukey's Outlier Screening  
GN-GSA-MW-1



n = 20  
No outliers found.  
Tukey's method selected by user.  
Data were square transformed to achieve best W statistic (graph shown in original units).  
High cutoff = 3.487, low cutoff = 0.421, based on IQR multiplier of 3.

Constituent: Chloride Analysis Run 10/2/2023 5:52 PM View: Outliers  
Plant Gaston Client: Southern Company Data: Gaston GSA

Tukey's Outlier Screening  
GN-GSA-MW-10

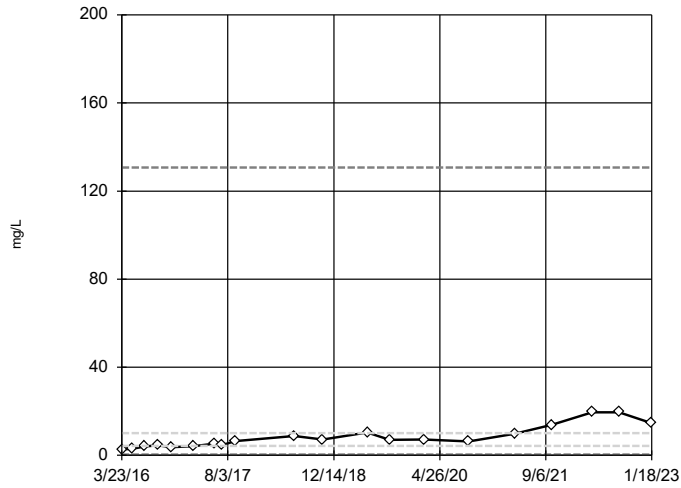


n = 20  
No outliers found.  
Tukey's method selected by user.  
Data were cube transformed to achieve best W statistic (graph shown in original units).  
High cutoff = 3.825, low cutoff = -2.009, based on IQR multiplier of 3.

Constituent: Chloride Analysis Run 10/2/2023 5:52 PM View: Outliers  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

GN-GSA-MW-11

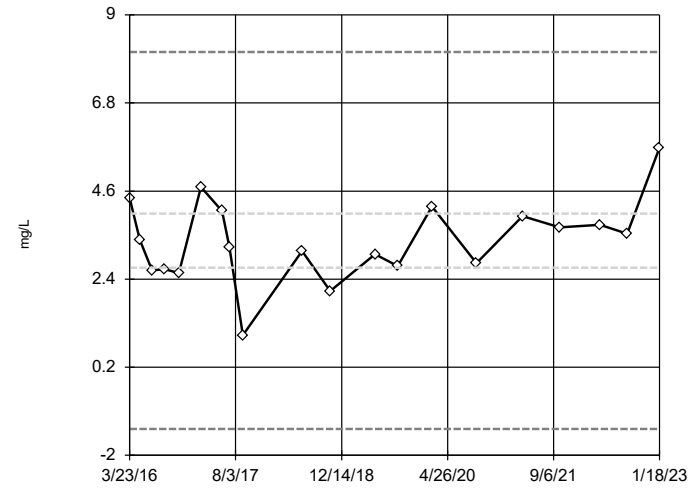


n = 20  
 No outliers found.  
 Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 130.6, low cutoff = 0.3323, based on IQR multiplier of 3.

Constituent: Chloride Analysis Run 10/2/2023 5:52 PM View: Outliers  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

GN-GSA-MW-12

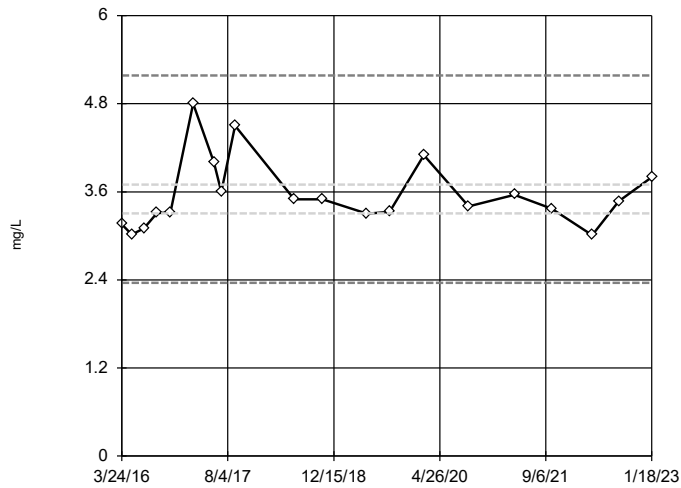


n = 20  
 No outliers found.  
 Tukey's method selected by user.  
 Ladder of Powers transformations did not improve normality; analysis run on raw data.  
 High cutoff = 8.07, low cutoff = -1.345, based on IQR multiplier of 3.

Constituent: Chloride Analysis Run 10/2/2023 5:52 PM View: Outliers  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

GN-GSA-MW-13

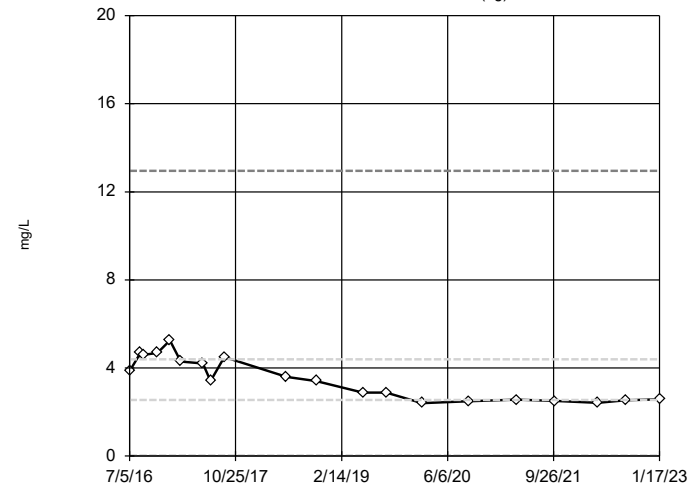


n = 20  
 No outliers found.  
 Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 5.184, low cutoff = 2.358, based on IQR multiplier of 3.

Constituent: Chloride Analysis Run 10/2/2023 5:52 PM View: Outliers  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

GN-GSA-MW-14S (bg)

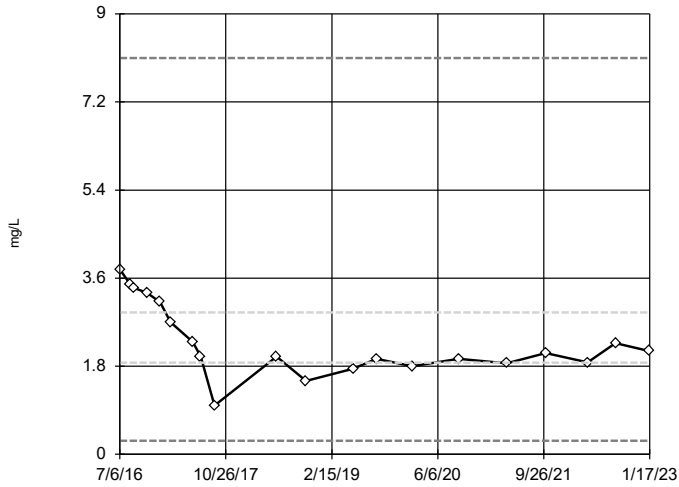


n = 20  
 No outliers found.  
 Tukey's method selected by user.  
 Data were square root transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 12.96, low cutoff = 0.00903, based on IQR multiplier of 3.

Constituent: Chloride Analysis Run 10/2/2023 5:52 PM View: Outliers  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

GN-GSA-MW-15 (bg)

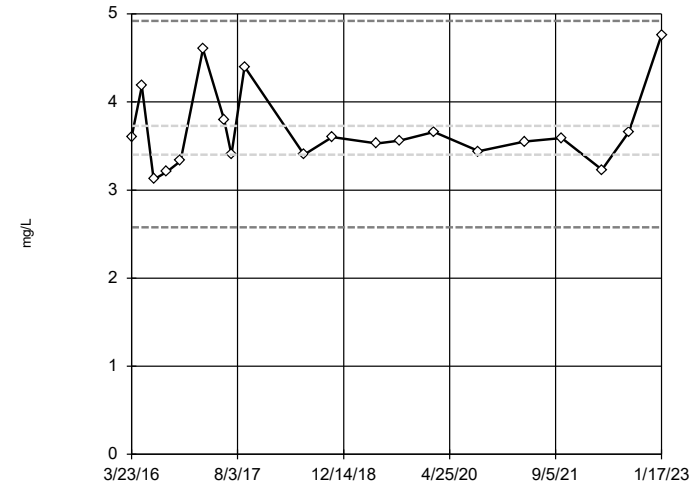


n = 20  
 No outliers found.  
 Tukey's method selected by user.  
 Data were cube root transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 8.1, low cutoff = 0.2744, based on IQR multiplier of 3.

Constituent: Chloride Analysis Run 10/2/2023 5:52 PM View: Outliers  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

GN-GSA-MW-2 (bg)

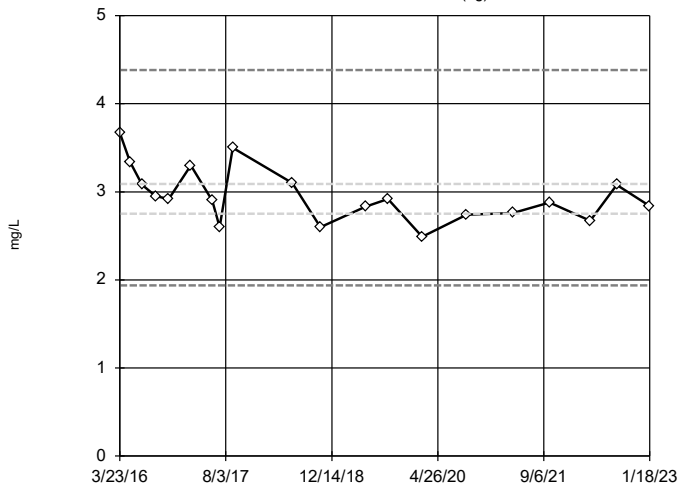


n = 20  
 No outliers found.  
 Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 4.921, low cutoff = 2.576, based on IQR multiplier of 3.

Constituent: Chloride Analysis Run 10/2/2023 5:52 PM View: Outliers  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

GN-GSA-MW-3 (bg)

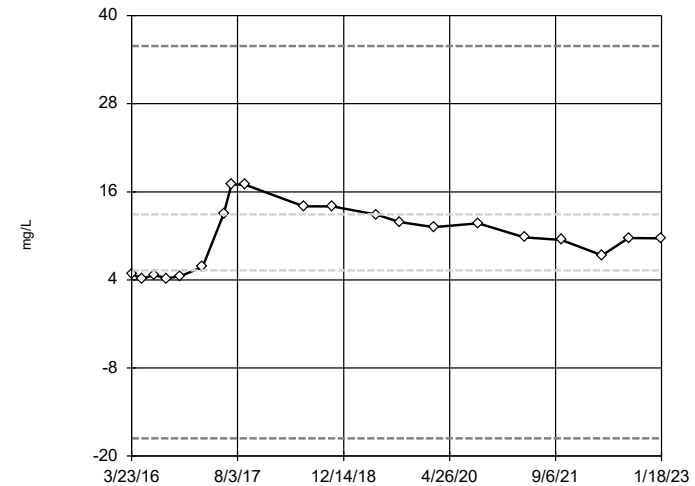


n = 20  
 No outliers found.  
 Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 4.384, low cutoff = 1.938, based on IQR multiplier of 3.

Constituent: Chloride Analysis Run 10/2/2023 5:52 PM View: Outliers  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

GN-GSA-MW-5

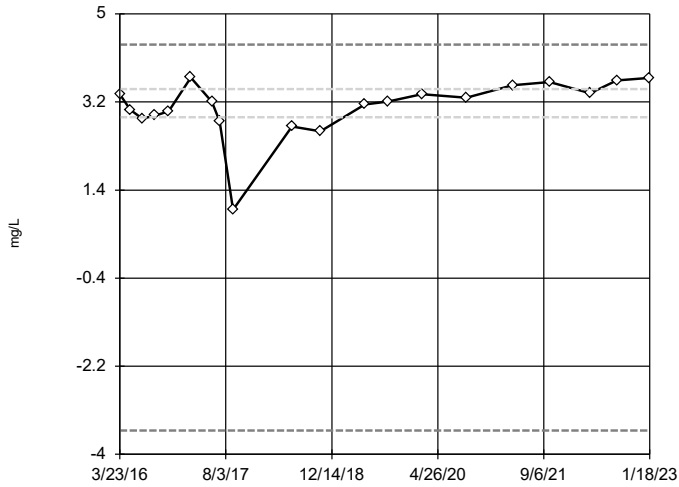


n = 20  
 No outliers found.  
 Tukey's method selected by user.  
 Ladder of Powers transformations did not improve normality; analysis run on raw data.  
 High cutoff = 35.84, low cutoff = -17.57, based on IQR multiplier of 3.

Constituent: Chloride Analysis Run 10/2/2023 5:52 PM View: Outliers  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

GN-GSA-MW-6

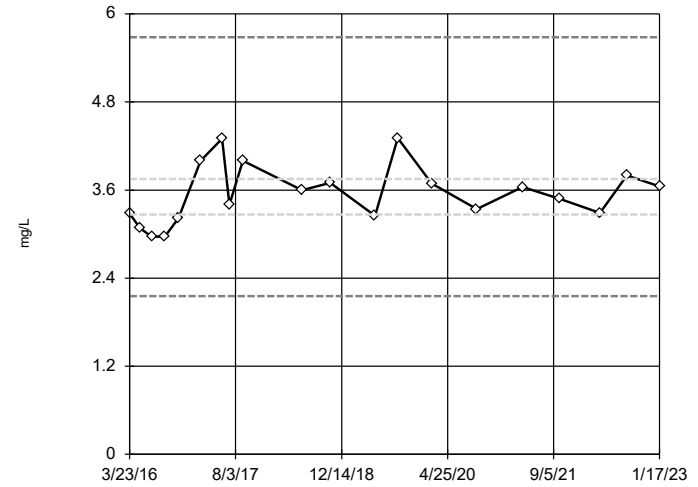


n = 20  
 No outliers found.  
 Tukey's method selected by user.  
 Data were x<sup>4</sup> transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 4.373, low cutoff = -3.512, based on IQR multiplier of 3.

Constituent: Chloride Analysis Run 10/2/2023 5:52 PM View: Outliers  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

GN-GSA-MW-7

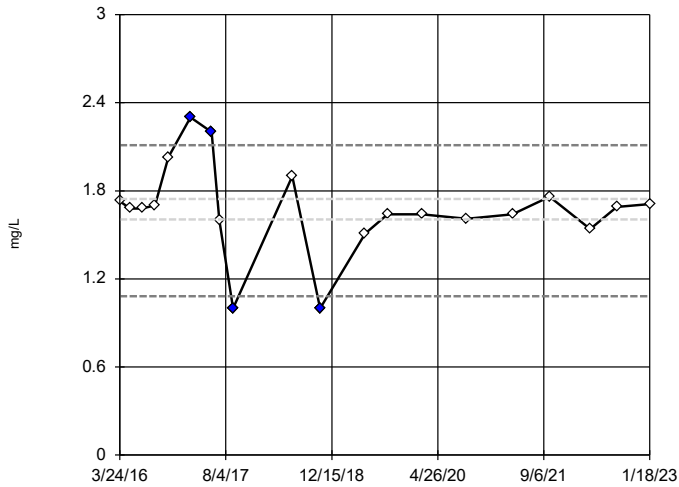


n = 20  
 No outliers found.  
 Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 5.68, low cutoff = 2.155, based on IQR multiplier of 3.

Constituent: Chloride Analysis Run 10/2/2023 5:52 PM View: Outliers  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

GN-GSA-MW-8

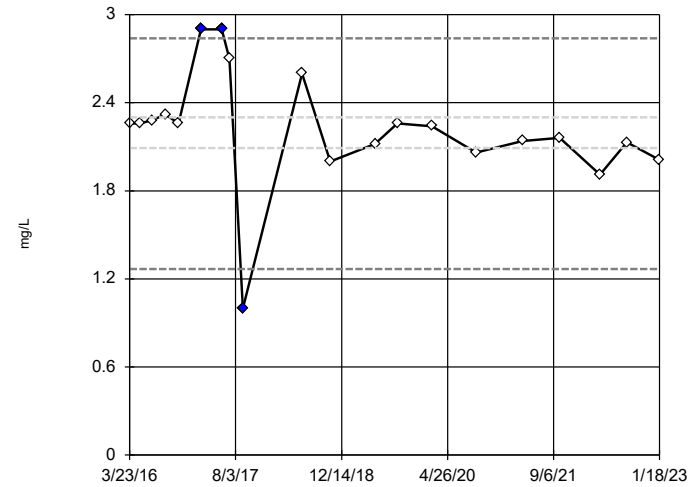


n = 20  
 Outliers are drawn as solid.  
 Tukey's method selected by user.  
 Data were square transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 2.11, low cutoff = 1.081, based on IQR multiplier of 3.

Constituent: Chloride Analysis Run 10/2/2023 5:52 PM View: Outliers  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

GN-GSA-MW-9



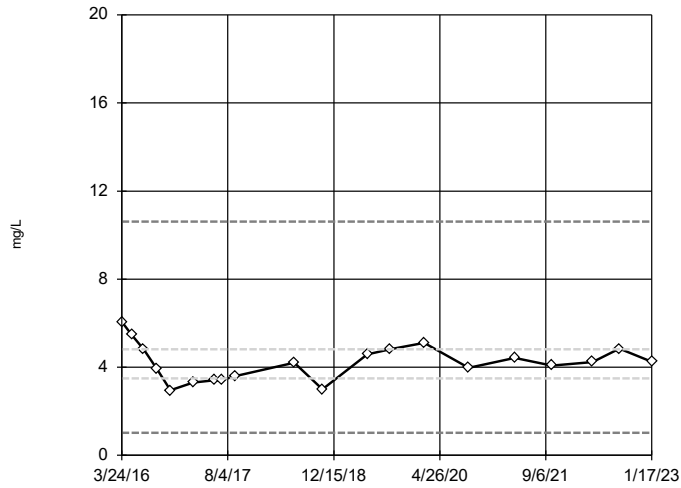
n = 20  
 Outliers are drawn as solid.  
 Tukey's method selected by user.  
 Data were square transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 2.838, low cutoff = 1.267, based on IQR multiplier of 3.

Constituent: Chloride Analysis Run 10/2/2023 5:52 PM View: Outliers  
 Plant Gaston Client: Southern Company Data: Gaston GSA



### Tukey's Outlier Screening

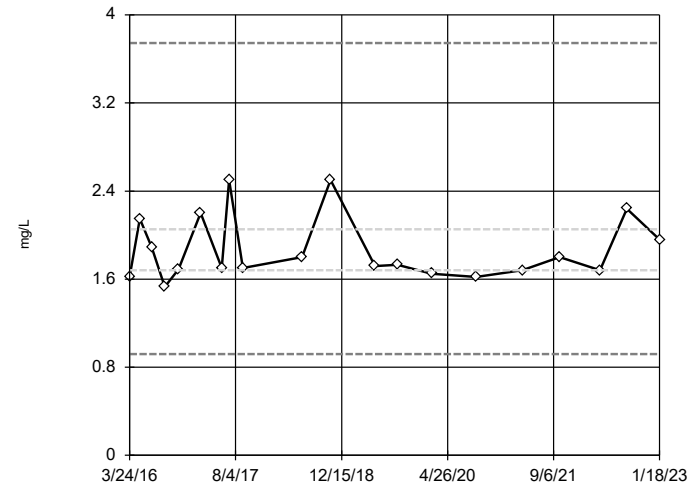
GN-GSA-MW-1



Constituent: Sulfate Analysis Run 10/2/2023 5:52 PM View: Outliers  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

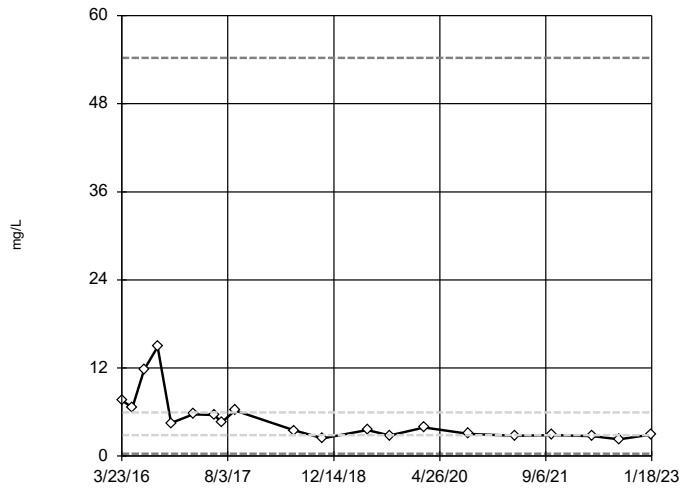
GN-GSA-MW-10



Constituent: Sulfate Analysis Run 10/2/2023 5:52 PM View: Outliers  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

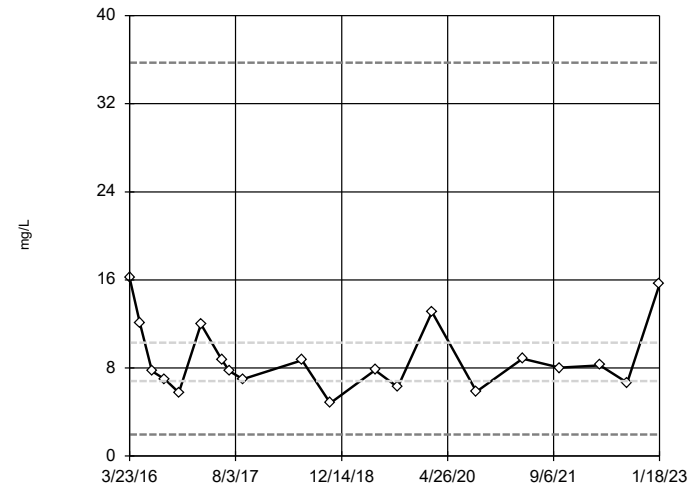
GN-GSA-MW-11



Constituent: Sulfate Analysis Run 10/2/2023 5:52 PM View: Outliers  
Plant Gaston Client: Southern Company Data: Gaston GSA

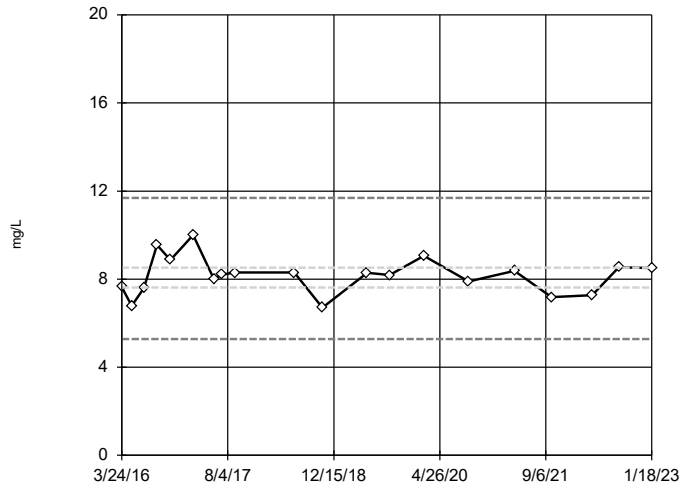
### Tukey's Outlier Screening

GN-GSA-MW-12



Constituent: Sulfate Analysis Run 10/2/2023 5:52 PM View: Outliers  
Plant Gaston Client: Southern Company Data: Gaston GSA

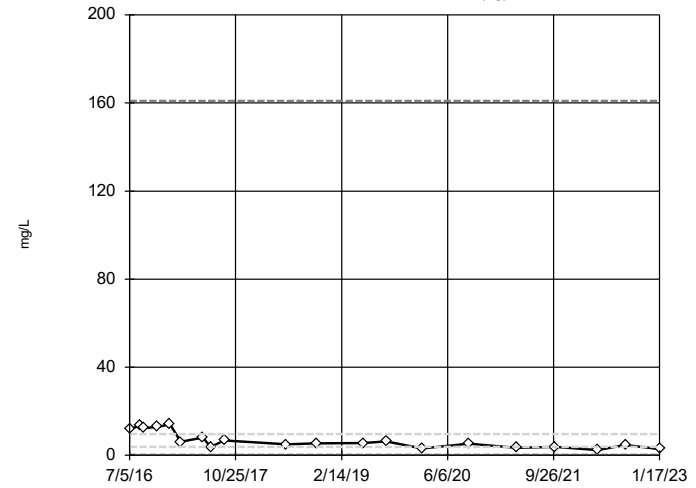
### Tukey's Outlier Screening GN-GSA-MW-13



n = 20  
No outliers found.  
Tukey's method selected by user.  
Data were cube root transformed to achieve best W statistic (graph shown in original units).  
High cutoff = 11.68, low cutoff = 5.278, based on IQR multiplier of 3.

Constituent: Sulfate Analysis Run 10/2/2023 5:52 PM View: Outliers  
Plant Gaston Client: Southern Company Data: Gaston GSA

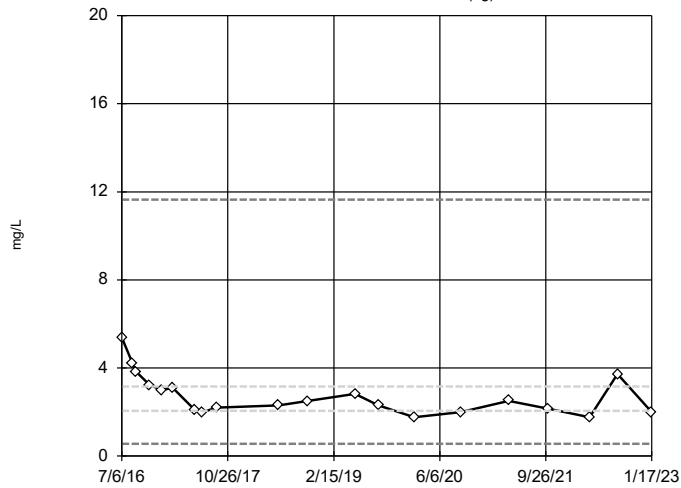
### Tukey's Outlier Screening GN-GSA-MW-14S (bg)



n = 20  
No outliers found.  
Tukey's method selected by user.  
Data were natural log transformed to achieve best W statistic (graph shown in original units).  
High cutoff = 160.9, low cutoff = 0.2278, based on IQR multiplier of 3.

Constituent: Sulfate Analysis Run 10/2/2023 5:52 PM View: Outliers  
Plant Gaston Client: Southern Company Data: Gaston GSA

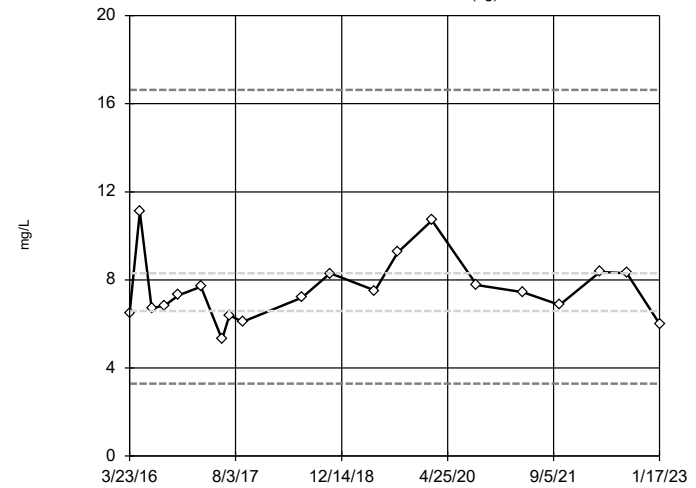
### Tukey's Outlier Screening GN-GSA-MW-15 (bg)



n = 20  
No outliers found.  
Tukey's method selected by user.  
Data were natural log transformed to achieve best W statistic (graph shown in original units).  
High cutoff = 11.65, low cutoff = 0.5567, based on IQR multiplier of 3.

Constituent: Sulfate Analysis Run 10/2/2023 5:52 PM View: Outliers  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening GN-GSA-MW-2 (bg)

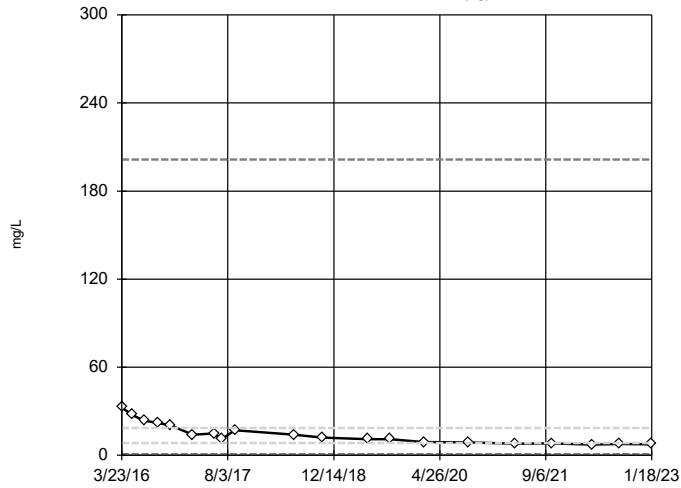


n = 20  
No outliers found.  
Tukey's method selected by user.  
Data were natural log transformed to achieve best W statistic (graph shown in original units).  
High cutoff = 16.63, low cutoff = 3.291, based on IQR multiplier of 3.

Constituent: Sulfate Analysis Run 10/2/2023 5:52 PM View: Outliers  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

GN-GSA-MW-3 (bg)

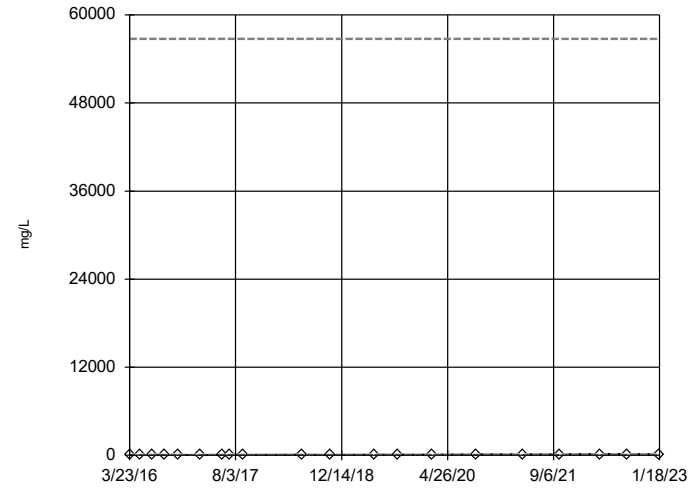


n = 20  
 No outliers found.  
 Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 201.6, low cutoff = 0.7777, based on IQR multiplier of 3.

Constituent: Sulfate Analysis Run 10/2/2023 5:52 PM View: Outliers  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

GN-GSA-MW-5

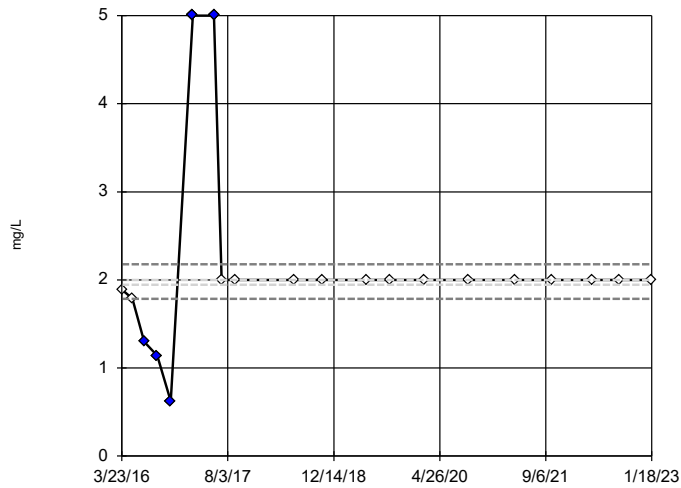


n = 20  
 No outliers found.  
 Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 56712, low cutoff = 0.02688, based on IQR multiplier of 3.

Constituent: Sulfate Analysis Run 10/2/2023 5:52 PM View: Outliers  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

GN-GSA-MW-6

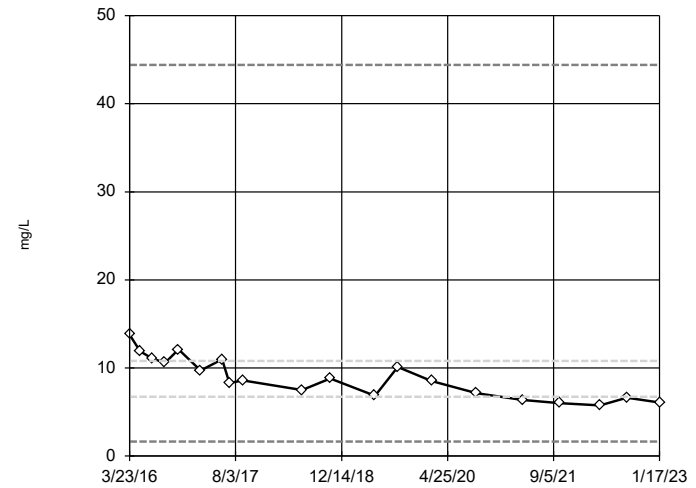


n = 20  
 Outliers are drawn as solid.  
 Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 2.177, low cutoff = 1.786, based on IQR multiplier of 3.

Constituent: Sulfate Analysis Run 10/2/2023 5:52 PM View: Outliers  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

GN-GSA-MW-7

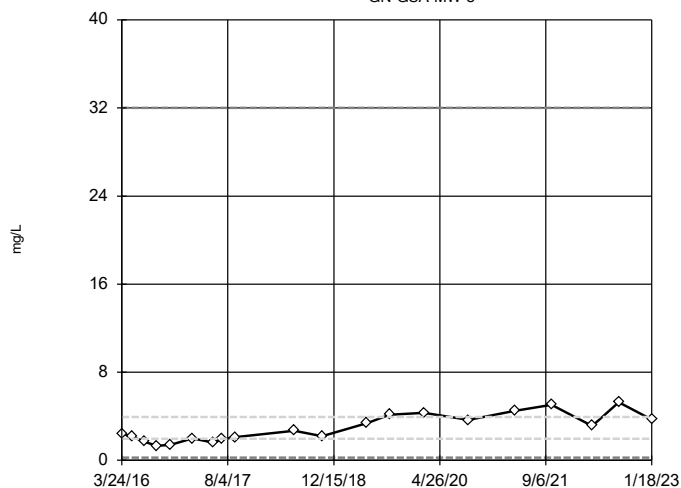


n = 20  
 No outliers found.  
 Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 44.42, low cutoff = 1.638, based on IQR multiplier of 3.

Constituent: Sulfate Analysis Run 10/2/2023 5:52 PM View: Outliers  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

GN-GSA-MW-8

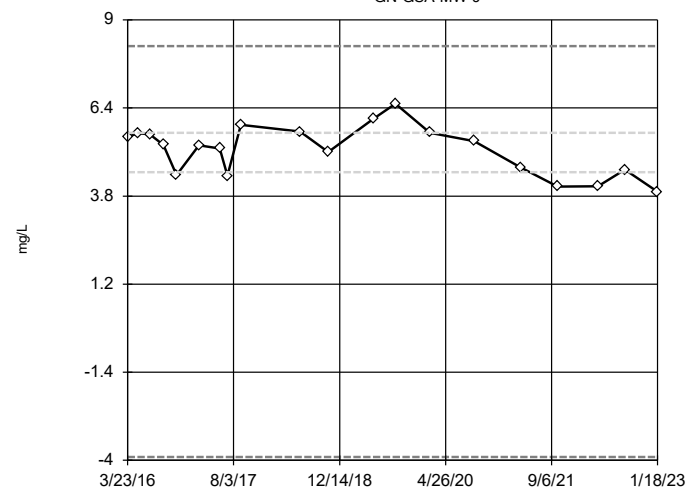


n = 20  
No outliers found.  
Tukey's method selected by user.  
Data were natural log transformed to achieve best W statistic (graph shown in original units).  
High cutoff = 32, low cutoff = 0.239, based on IQR multiplier of 3.

Constituent: Sulfate Analysis Run 10/2/2023 5:53 PM View: Outliers  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

GN-GSA-MW-9

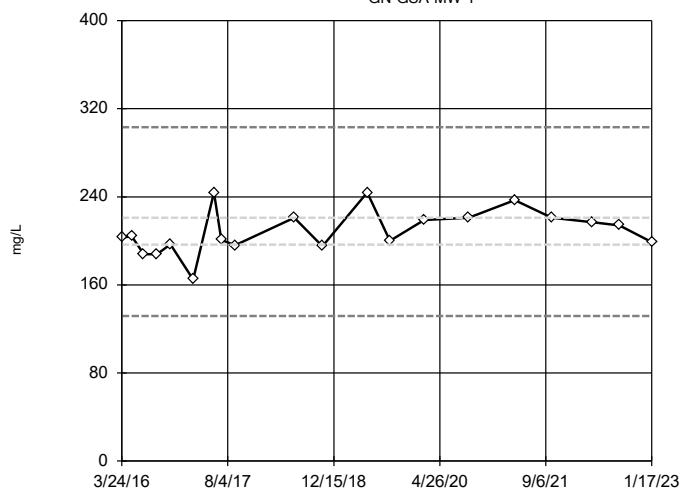


n = 20  
No outliers found.  
Tukey's method selected by user.  
Data were square transformed to achieve best W statistic (graph shown in original units).  
High cutoff = 8.222, low cutoff = -3.905, based on IQR multiplier of 3.

Constituent: Sulfate Analysis Run 10/2/2023 5:53 PM View: Outliers  
Plant Gaston Client: Southern Company Data: Gaston GSA

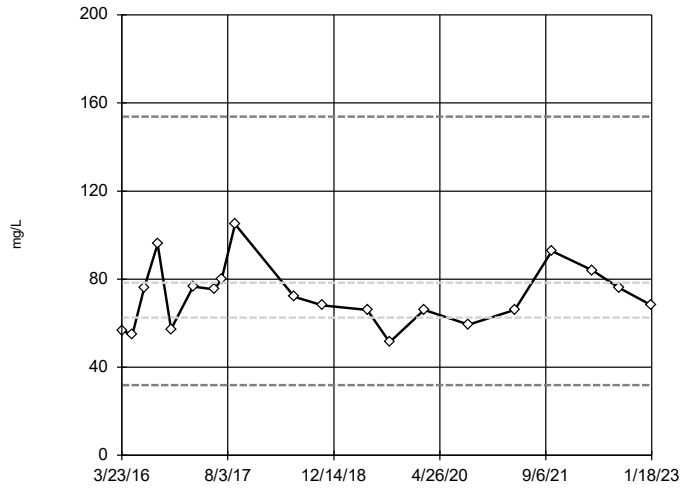
### Tukey's Outlier Screening

GN-GSA-MW-1



### Tukey's Outlier Screening

GN-GSA-MW-11

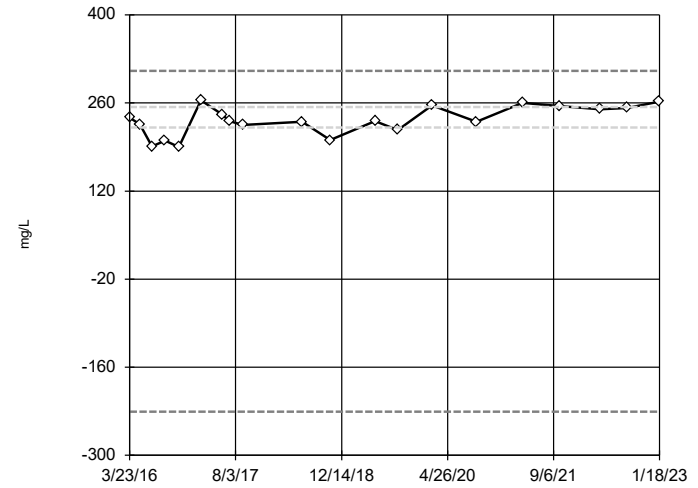


n = 20  
 No outliers found.  
 Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 153.8, low cutoff = 31.87, based on IQR multiplier of 3.

Constituent: TDS Analysis Run 10/2/2023 5:53 PM View: Outliers  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

GN-GSA-MW-12

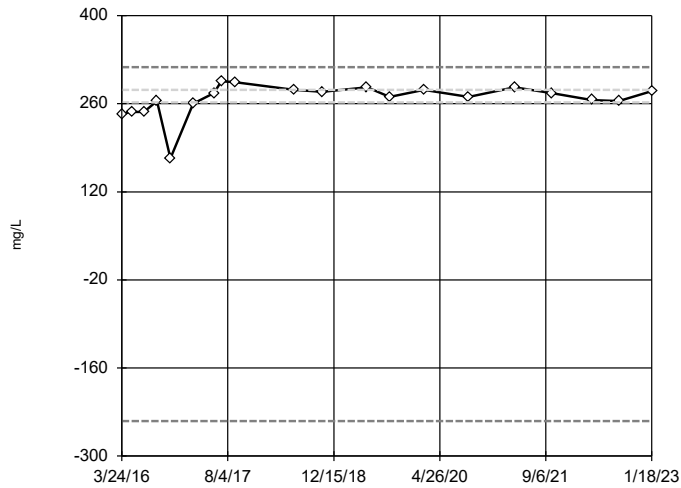


n = 20  
 No outliers found.  
 Tukey's method selected by user.  
 Data were x^4 transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 311, low cutoff = -230.7, based on IQR multiplier of 3.

Constituent: TDS Analysis Run 10/2/2023 5:53 PM View: Outliers  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

GN-GSA-MW-13

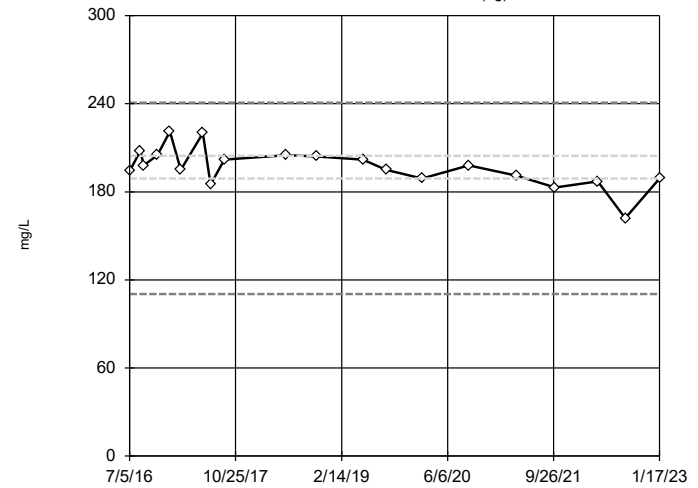


n = 20  
 No outliers found.  
 Tukey's method selected by user.  
 Data were x^6 transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 318.3, low cutoff = -244.5, based on IQR multiplier of 3.

Constituent: TDS Analysis Run 10/2/2023 5:53 PM View: Outliers  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

GN-GSA-MW-14S (bg)

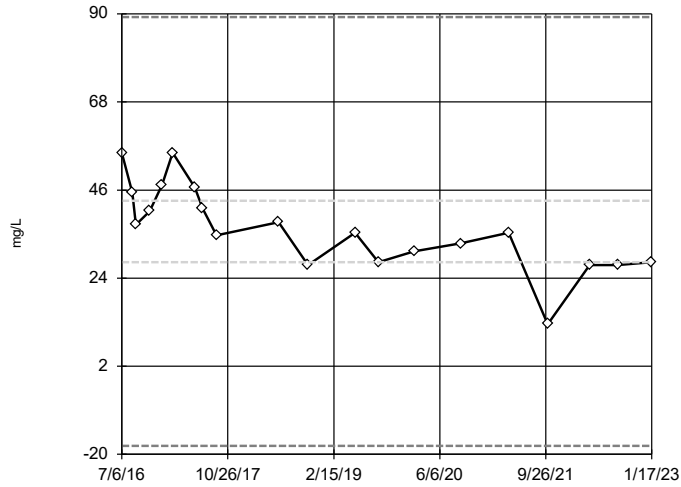


n = 20  
 No outliers found.  
 Tukey's method selected by user.  
 Data were cube transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 240.8, low cutoff = 110.5, based on IQR multiplier of 3.

Constituent: TDS Analysis Run 10/2/2023 5:53 PM View: Outliers  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

GN-GSA-MW-15 (bg)

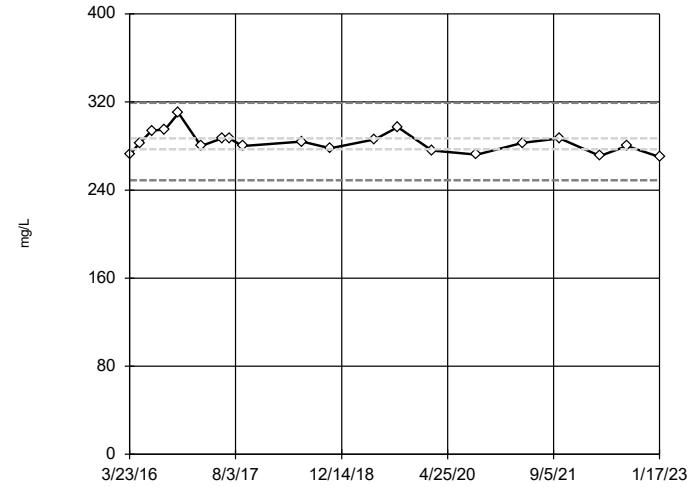


n = 20  
 No outliers found.  
 Tukey's method selected by user.  
 Ladder of Powers transformations did not improve normality; analysis run on raw data.  
 High cutoff = 89.2, low cutoff = -17.9, based on IQR multiplier of 3.

Constituent: TDS Analysis Run 10/2/2023 5:53 PM View: Outliers  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

GN-GSA-MW-2 (bg)

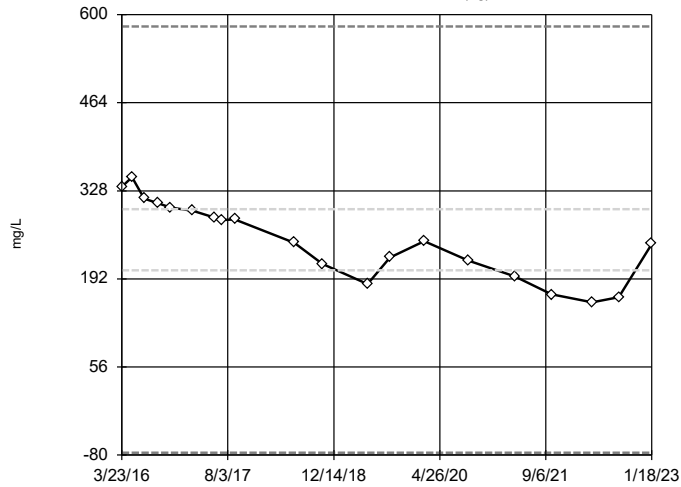


n = 20  
 No outliers found.  
 Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 319.2, low cutoff = 249, based on IQR multiplier of 3.

Constituent: TDS Analysis Run 10/2/2023 5:53 PM View: Outliers  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

GN-GSA-MW-3 (bg)

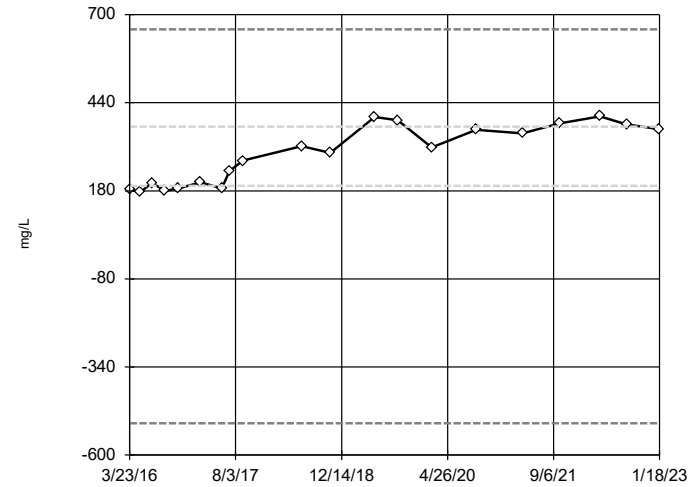


n = 20  
 No outliers found.  
 Tukey's method selected by user.  
 Ladder of Powers transformations did not improve normality; analysis run on raw data.  
 High cutoff = 581.5, low cutoff = -76.5, based on IQR multiplier of 3.

Constituent: TDS Analysis Run 10/2/2023 5:53 PM View: Outliers  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

GN-GSA-MW-5

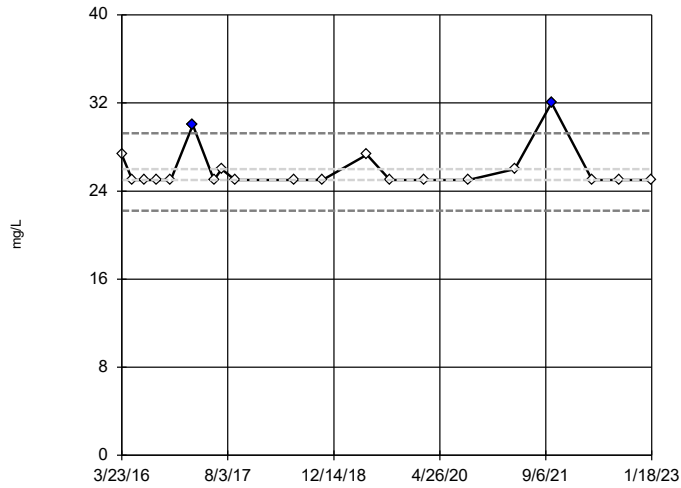


n = 20  
 No outliers found.  
 Tukey's method selected by user.  
 Data were square transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 656.2, low cutoff = -506.2, based on IQR multiplier of 3.

Constituent: TDS Analysis Run 10/2/2023 5:53 PM View: Outliers  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

GN-GSA-MW-6

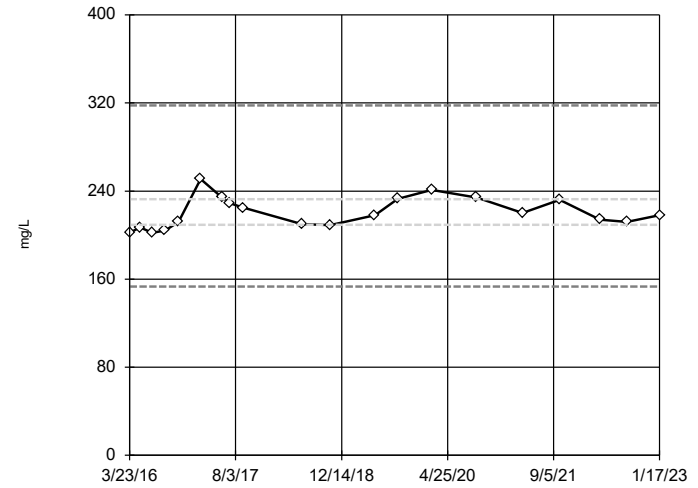


n = 20  
 Outliers are drawn as solid.  
 Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 29.25, low cutoff = 22.22, based on IQR multiplier of 3.

Constituent: TDS Analysis Run 10/2/2023 5:53 PM View: Outliers  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

GN-GSA-MW-7

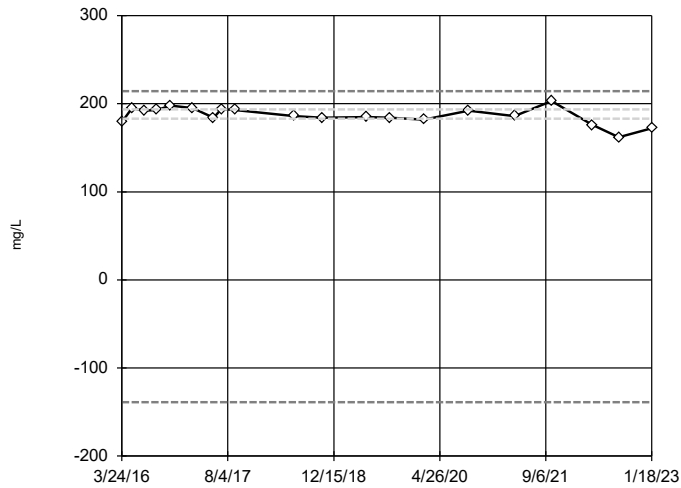


n = 20  
 No outliers found.  
 Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 317.8, low cutoff = 153.3, based on IQR multiplier of 3.

Constituent: TDS Analysis Run 10/2/2023 5:53 PM View: Outliers  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

GN-GSA-MW-8

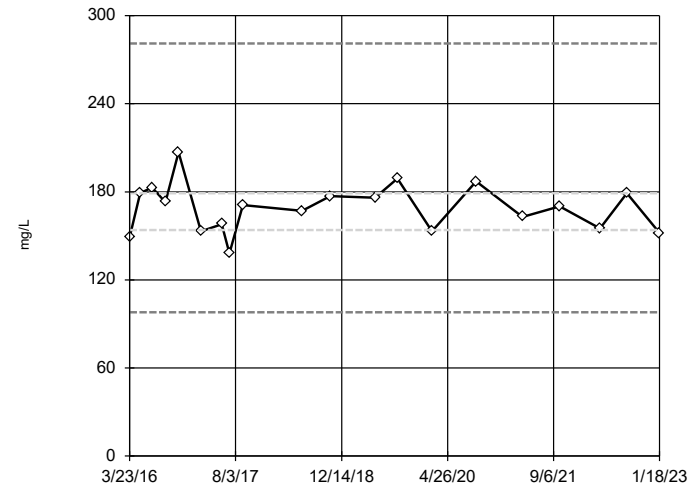


n = 20  
 No outliers found.  
 Tukey's method selected by user.  
 Data were x\*6 transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 214.4, low cutoff = -138.9, based on IQR multiplier of 3.

Constituent: TDS Analysis Run 10/2/2023 5:53 PM View: Outliers  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening

GN-GSA-MW-9



n = 20  
 No outliers found.  
 Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 281.1, low cutoff = 98.06, based on IQR multiplier of 3.

Constituent: TDS Analysis Run 10/2/2023 5:53 PM View: Outliers  
 Plant Gaston Client: Southern Company Data: Gaston GSA

# Tukey's Outlier Test - Upgradient Wells - All Results (No Significant)

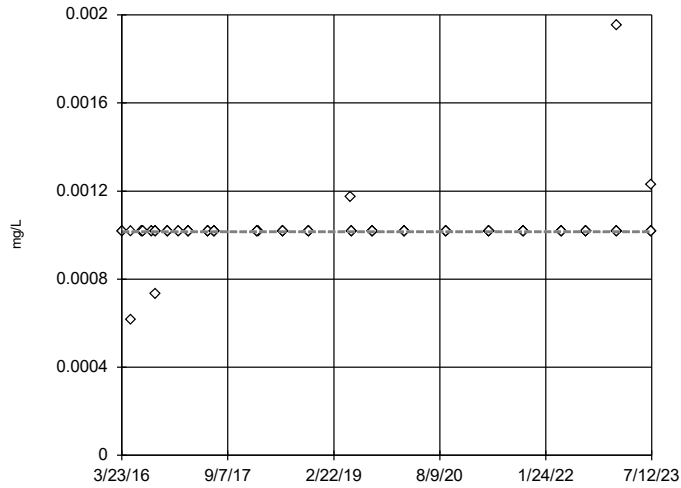
Plant Gaston Client: Southern Company Data: Gaston GSA Printed 10/2/2023, 4:03 PM

Constituent	Well	Outlier	Value(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Antimony (mg/L)	GN-GSA-MW-14S,GN-...	n/a	n/a	NP	NaN	84	0.001022	0.0001193	unknown	ShapiroFrancia
Arsenic (mg/L)	GN-GSA-MW-14S,GN-...	n/a	n/a	NP	NaN	84	0.0001937	0.00003584	unknown	ShapiroFrancia
Barium (mg/L)	GN-GSA-MW-14S,GN-...	No	n/a	NP	NaN	84	0.02665	0.01257	normal	ShapiroFrancia
Beryllium (mg/L)	GN-GSA-MW-14S,GN-...	n/a	n/a	NP	NaN	84	0.001015	0	unknown	ShapiroFrancia
Boron (mg/L)	GN-GSA-MW-14S,GN-...	n/a	n/a	NP	NaN	84	0.1005	0.008772	unknown	ShapiroFrancia
Cadmium (mg/L)	GN-GSA-MW-14S,GN-...	n/a	n/a	NP	NaN	84	0.000203	0	unknown	ShapiroFrancia
Chromium (mg/L)	GN-GSA-MW-14S,GN-...	No	n/a	NP	NaN	84	0.0008693	0.000259	normal	ShapiroFrancia
Cobalt (mg/L)	GN-GSA-MW-14S,GN-...	n/a	n/a	NP	NaN	84	0.000288	0.0003993	unknown	ShapiroFrancia
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-14S,GN-...	No	n/a	NP	NaN	84	0.6345	0.4587	normal	ShapiroFrancia
Fluoride (mg/L)	GN-GSA-MW-14S,GN-...	No	n/a	NP	NaN	88	0.09256	0.03288	x^(1/3)	ShapiroFrancia
Lead (mg/L)	GN-GSA-MW-14S,GN-...	n/a	n/a	NP	NaN	84	0.0001998	0.00001624	unknown	ShapiroFrancia
Lithium (mg/L)	GN-GSA-MW-14S,GN-...	n/a	n/a	NP	NaN	84	0.02	0	unknown	ShapiroFrancia
Mercury (mg/L)	GN-GSA-MW-14S,GN-...	n/a	n/a	NP	NaN	84	0.0005	0	unknown	ShapiroFrancia
Molybdenum (mg/L)	GN-GSA-MW-14S,GN-...	n/a	n/a	NP	NaN	84	0.008742	0.003471	unknown	ShapiroFrancia
pH (pH)	GN-GSA-MW-14S,GN-...	No	n/a	NP	NaN	88	6.735	0.6449	x^6	ShapiroFrancia
Selenium (mg/L)	GN-GSA-MW-14S,GN-...	n/a	n/a	NP	NaN	84	0.0009986	0.0000861	unknown	ShapiroFrancia
Thallium (mg/L)	GN-GSA-MW-14S,GN-...	n/a	n/a	NP	NaN	84	0.0002033	0.000002728	unknown	ShapiroFrancia



### Tukey's Outlier Screening, Pooled Background

GN-GSA-MW-14S,GN-GSA-MW-15,GN-GSA-MW-...

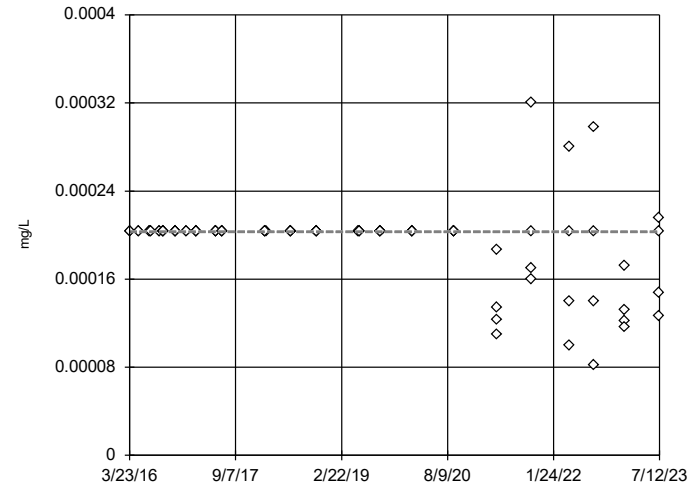


n = 84  
 No outliers found.  
 Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 10/2/2023 4:02 PM View: Outliers - Upgradient Wells  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening, Pooled Background

GN-GSA-MW-14S,GN-GSA-MW-15,GN-GSA-MW-...

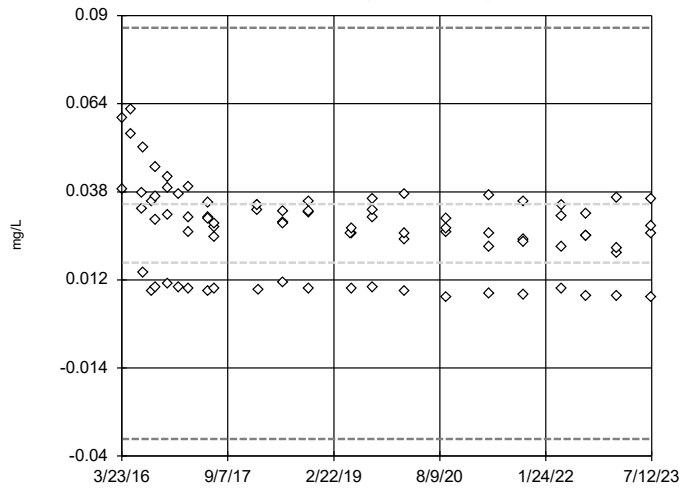


n = 84  
 No outliers found.  
 Tukey's method selected by user.  
 Ladder of Powers transformations did not improve normality; analysis run on raw data.  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Arsenic Analysis Run 10/2/2023 4:02 PM View: Outliers - Upgradient Wells  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening, Pooled Background

GN-GSA-MW-14S,GN-GSA-MW-15,GN-GSA-MW-...

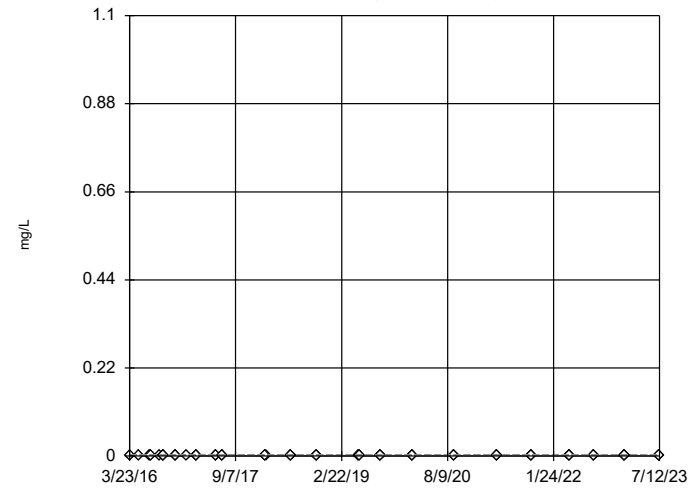


n = 84  
 No outliers found.  
 Tukey's method selected by user.  
 Ladder of Powers transformations did not improve normality; analysis run on raw data.  
 High cutoff = 0.08645, low cutoff = -0.035, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 10/2/2023 4:02 PM View: Outliers - Upgradient Wells  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening, Pooled Background

GN-GSA-MW-14S,GN-GSA-MW-15,GN-GSA-MW-...

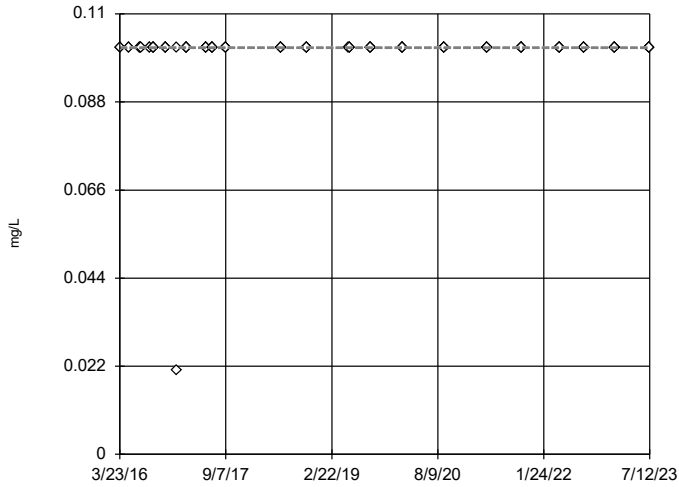


n = 84  
 No outliers found.  
 Tukey's method selected by user.  
 Ladder of Powers transformations did not improve normality; analysis run on raw data.  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 10/2/2023 4:02 PM View: Outliers - Upgradient Wells  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening, Pooled Background

GN-GSA-MW-14S,GN-GSA-MW-15,GN-GSA-MW-...

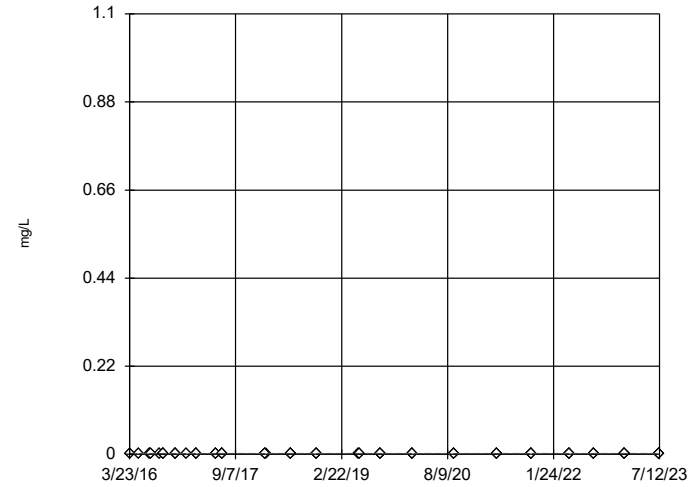


n = 84  
 No outliers found. Tukey's method selected by user.  
 Data were cube transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Boron Analysis Run 10/2/2023 4:02 PM View: Outliers - Upgradient Wells  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening, Pooled Background

GN-GSA-MW-14S,GN-GSA-MW-15,GN-GSA-MW-...

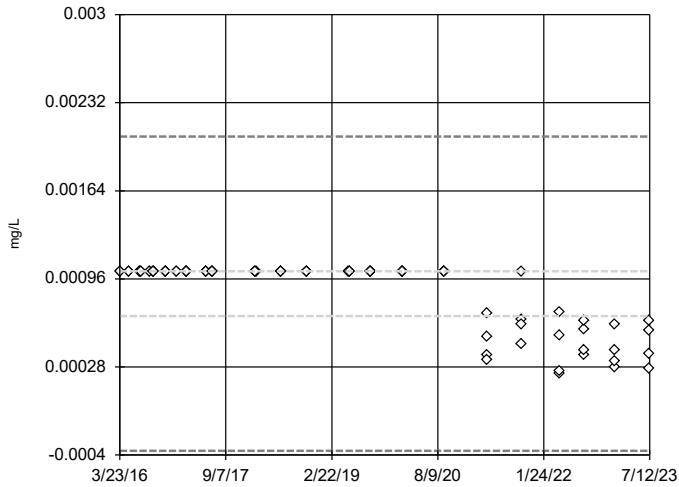


n = 84  
 No outliers found. Tukey's method selected by user.  
 Ladder of Powers transformations did not improve normality; analysis run on raw data.  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 10/2/2023 4:02 PM View: Outliers - Upgradient Wells  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening, Pooled Background

GN-GSA-MW-14S,GN-GSA-MW-15,GN-GSA-MW-...

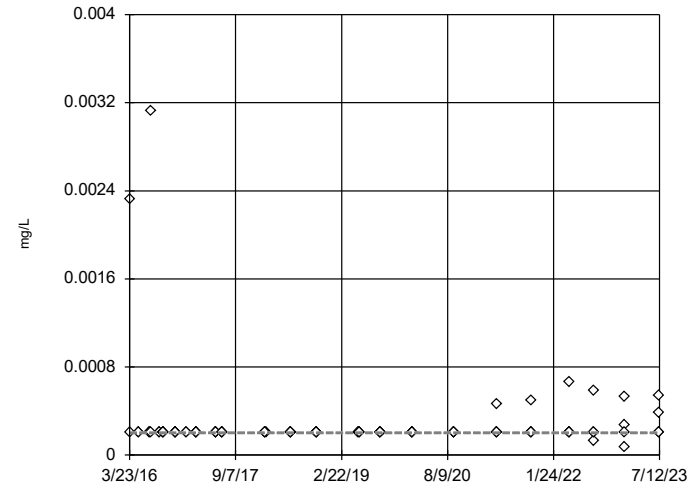


n = 84  
 No outliers found. Tukey's method selected by user.  
 Ladder of Powers transformations did not improve normality; analysis run on raw data.  
 High cutoff = 0.002059, low cutoff = -0.000366, based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 10/2/2023 4:02 PM View: Outliers - Upgradient Wells  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening, Pooled Background

GN-GSA-MW-14S,GN-GSA-MW-15,GN-GSA-MW-...

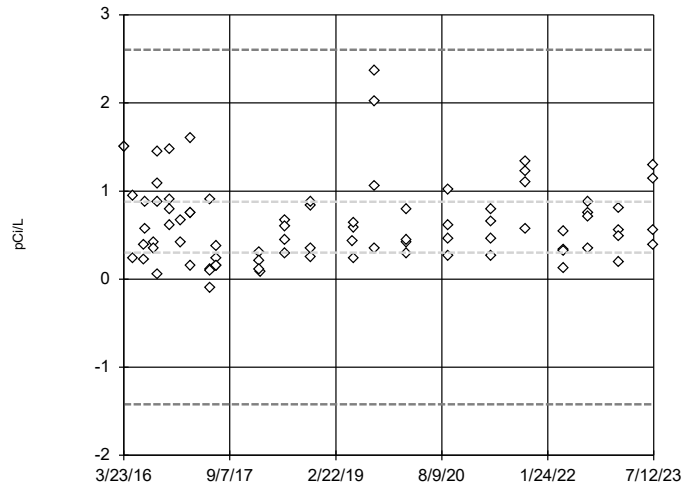


n = 84  
 No outliers found. Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cobalt Analysis Run 10/2/2023 4:02 PM View: Outliers - Upgradient Wells  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening, Pooled Background

GN-GSA-MW-14S,GN-GSA-MW-15,GN-GSA-MW-...

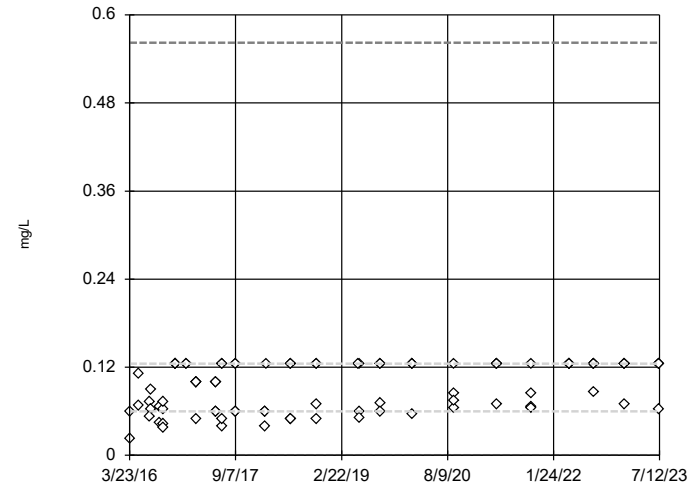


n = 84  
 No outliers found.  
 Tukey's method selected by user.  
 Ladder of Powers transformations did not improve normality; analysis run on raw data.  
 High cutoff = 2.603, low cutoff = -1.423, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 10/2/2023 4:02 PM View: Outliers - Upgradient W  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening, Pooled Background

GN-GSA-MW-14S,GN-GSA-MW-15,GN-GSA-MW-...

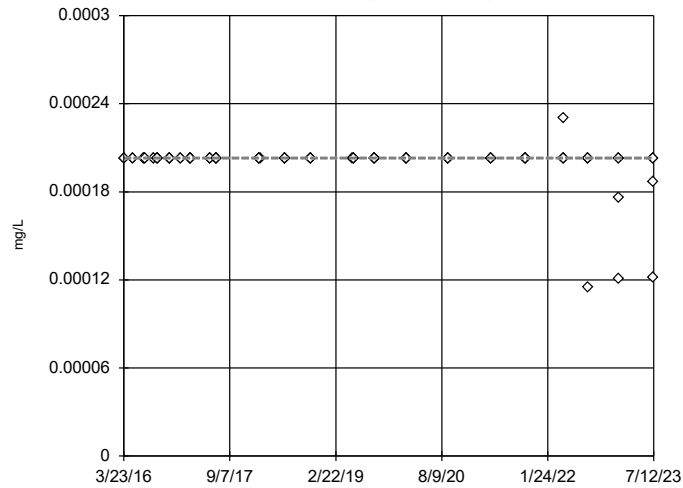


n = 88  
 No outliers found.  
 Tukey's method selected by user.  
 Data were cube root transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 0.562, low cutoff = 0.0002925, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 10/2/2023 4:02 PM View: Outliers - Upgradient Wells  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening, Pooled Background

GN-GSA-MW-14S,GN-GSA-MW-15,GN-GSA-MW-...

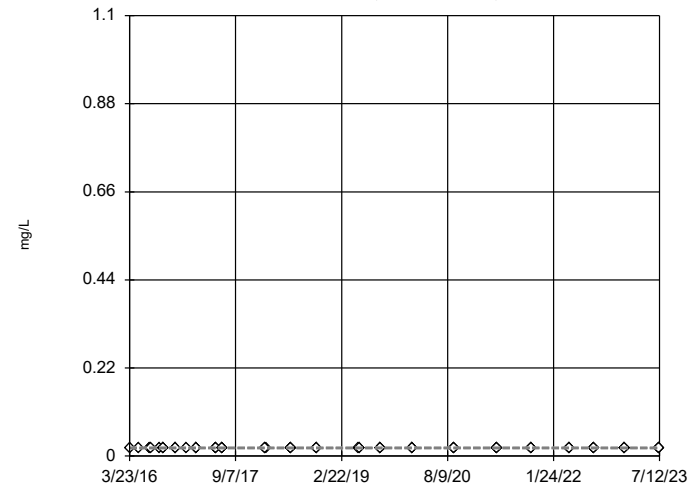


n = 84  
 No outliers found.  
 Tukey's method selected by user.  
 Data were cube transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 10/2/2023 4:02 PM View: Outliers - Upgradient Wells  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening, Pooled Background

GN-GSA-MW-14S,GN-GSA-MW-15,GN-GSA-MW-...

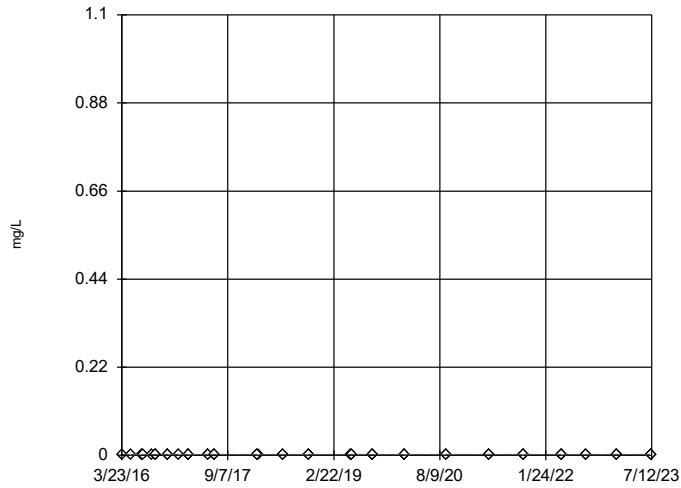


n = 84  
 No outliers found.  
 Tukey's method selected by user.  
 Ladder of Powers transformations did not improve normality; analysis run on raw data.  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lithium Analysis Run 10/2/2023 4:02 PM View: Outliers - Upgradient Wells  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening, Pooled Background

GN-GSA-MW-14S,GN-GSA-MW-15,GN-GSA-MW-...

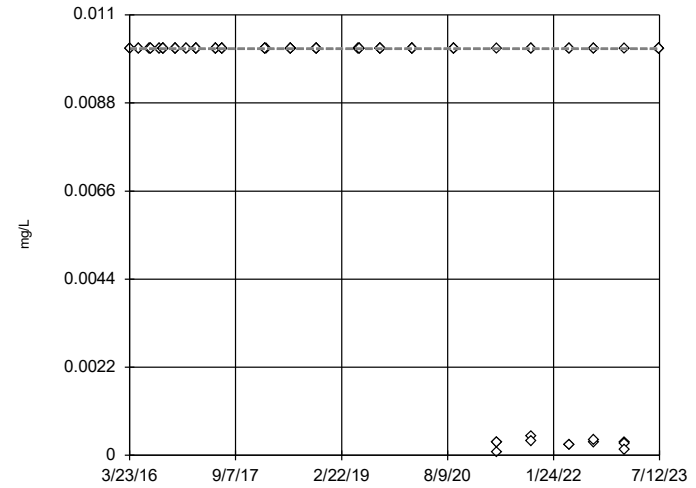


n = 84  
 No outliers found. Tukey's method selected by user.  
 Ladder of Powers transformations did not improve normality; analysis run on raw data.  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury Analysis Run 10/2/2023 4:02 PM View: Outliers - Upgradient Wells  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening, Pooled Background

GN-GSA-MW-14S,GN-GSA-MW-15,GN-GSA-MW-...

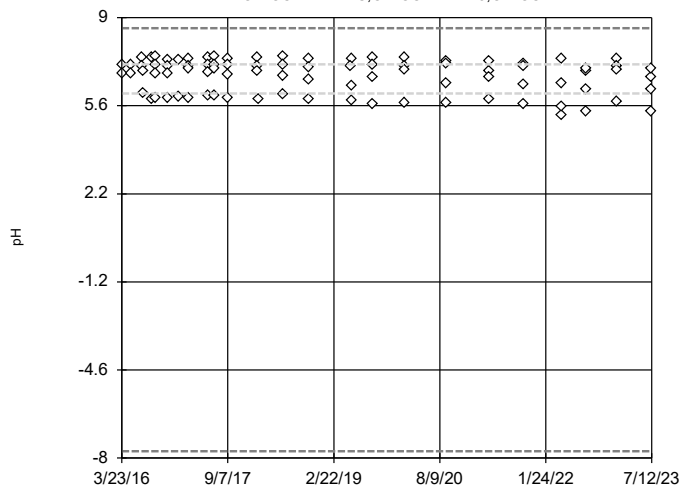


n = 84  
 No outliers found. Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 10/2/2023 4:02 PM View: Outliers - Upgradient Wells  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening, Pooled Background

GN-GSA-MW-14S,GN-GSA-MW-15,GN-GSA-MW-...

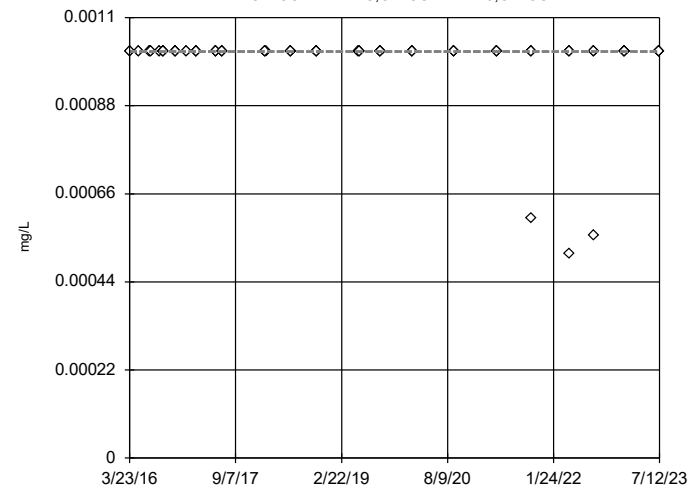


n = 88  
 No outliers found. Tukey's method selected by user.  
 Data were x\*6 transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 8.598, low cutoff = -7.741, based on IQR multiplier of 3.

Constituent: pH Analysis Run 10/2/2023 4:02 PM View: Outliers - Upgradient Wells  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening, Pooled Background

GN-GSA-MW-14S,GN-GSA-MW-15,GN-GSA-MW-...

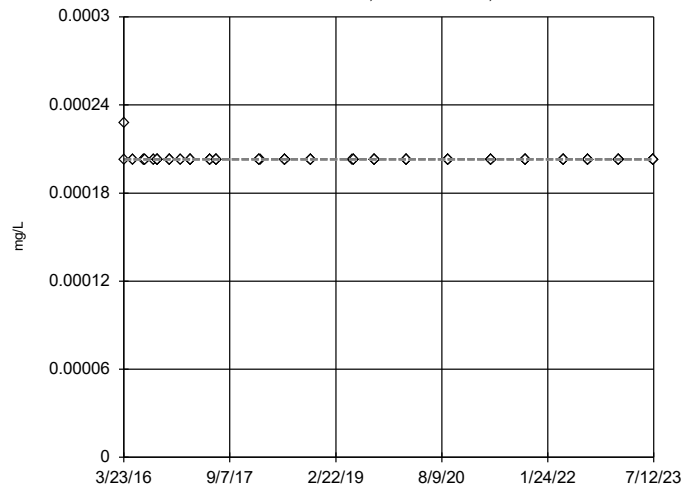


n = 84  
 No outliers found. Tukey's method selected by user.  
 Data were square root transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Selenium Analysis Run 10/2/2023 4:02 PM View: Outliers - Upgradient Wells  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Tukey's Outlier Screening, Pooled Background

GN-GSA-MW-14S,GN-GSA-MW-15,GN-GSA-MW-...



n = 84

No outliers found.  
Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Thallium    Analysis Run 10/2/2023 4:02 PM    View: Outliers - Upgradient Wells  
Plant Gaston    Client: Southern Company    Data: Gaston GSA

FIGURE D.

# Welch's t-test/Mann-Whitney - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 10/2/2023, 6:05 PM

<u>Constituent</u>	<u>Well</u>	<u>Calc.</u>	<u>0.01</u>	<u>Alpha</u>	<u>Sig.</u>	<u>Method</u>
Calcium (mg/L)	GN-GSA-MW-10	2.883	Yes	0.01	Yes	Mann-W
Calcium (mg/L)	GN-GSA-MW-12	2.978	Yes	0.01	Yes	Mann-W
Calcium (mg/L)	GN-GSA-MW-15 (bg)	-3.071	Yes	0.01	Yes	Mann-W
Calcium (mg/L)	GN-GSA-MW-5	3.356	Yes	0.01	Yes	Mann-W
Calcium (mg/L)	GN-GSA-MW-6	-2.601	Yes	0.01	Yes	Mann-W
Chloride (mg/L)	GN-GSA-MW-11	3.647	Yes	0.01	Yes	Mann-W
Sulfate (mg/L)	GN-GSA-MW-14S (bg)	-2.599	Yes	0.01	Yes	Mann-W
Sulfate (mg/L)	GN-GSA-MW-3 (bg)	-2.812	Yes	0.01	Yes	Mann-W
Sulfate (mg/L)	GN-GSA-MW-5	3.723	Yes	0.01	Yes	Mann-W
Sulfate (mg/L)	GN-GSA-MW-7	-2.976	Yes	0.01	Yes	Mann-W
Sulfate (mg/L)	GN-GSA-MW-8	3.647	Yes	0.01	Yes	Mann-W
Sulfate (mg/L)	GN-GSA-MW-9	-2.882	Yes	0.01	Yes	Mann-W
TDS (mg/L)	GN-GSA-MW-10	3.692	Yes	0.01	Yes	Mann-W
TDS (mg/L)	GN-GSA-MW-14S (bg)	-2.84	Yes	0.01	Yes	Mann-W
TDS (mg/L)	GN-GSA-MW-15 (bg)	-2.886	Yes	0.01	Yes	Mann-W
TDS (mg/L)	GN-GSA-MW-3 (bg)	-2.599	Yes	0.01	Yes	Mann-W
TDS (mg/L)	GN-GSA-MW-5	3.724	Yes	0.01	Yes	Mann-W

# Welch's t-test/Mann-Whitney - All Results

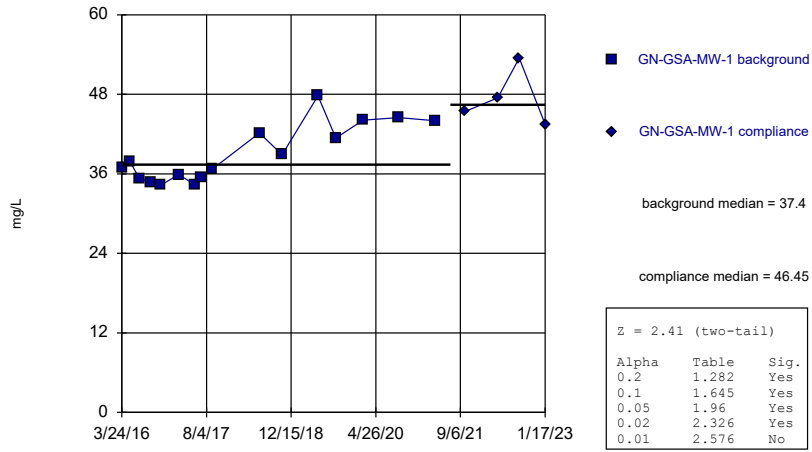
Plant Gaston Client: Southern Company Data: Gaston GSA Printed 10/2/2023, 6:05 PM

<u>Constituent</u>	<u>Well</u>	<u>Calc.</u>	<u>0.01</u>	<u>Alpha</u>	<u>Sig.</u>	<u>Method</u>
Calcium (mg/L)	GN-GSA-MW-1	2.41	No	0.01	No	Mann-W
<b>Calcium (mg/L)</b>	<b>GN-GSA-MW-10</b>	<b>2.883</b>	<b>Yes</b>	<b>0.01</b>	<b>Yes</b>	<b>Mann-W</b>
Calcium (mg/L)	GN-GSA-MW-11	2.506	No	0.01	No	Mann-W
<b>Calcium (mg/L)</b>	<b>GN-GSA-MW-12</b>	<b>2.978</b>	<b>Yes</b>	<b>0.01</b>	<b>Yes</b>	<b>Mann-W</b>
Calcium (mg/L)	GN-GSA-MW-13	1.465	No	0.01	No	Mann-W
Calcium (mg/L)	GN-GSA-MW-14S (bg)	1.797	No	0.01	No	Mann-W
<b>Calcium (mg/L)</b>	<b>GN-GSA-MW-15 (bg)</b>	<b>-3.071</b>	<b>Yes</b>	<b>0.01</b>	<b>Yes</b>	<b>Mann-W</b>
Calcium (mg/L)	GN-GSA-MW-2 (bg)	1.654	No	0.01	No	Mann-W
Calcium (mg/L)	GN-GSA-MW-3 (bg)	-2.221	No	0.01	No	Mann-W
<b>Calcium (mg/L)</b>	<b>GN-GSA-MW-5</b>	<b>3.356</b>	<b>Yes</b>	<b>0.01</b>	<b>Yes</b>	<b>Mann-W</b>
<b>Calcium (mg/L)</b>	<b>GN-GSA-MW-6</b>	<b>-2.601</b>	<b>Yes</b>	<b>0.01</b>	<b>Yes</b>	<b>Mann-W</b>
Calcium (mg/L)	GN-GSA-MW-7	1.796	No	0.01	No	Mann-W
Calcium (mg/L)	GN-GSA-MW-8	-0.5201	No	0.01	No	Mann-W
Calcium (mg/L)	GN-GSA-MW-9	0.9922	No	0.01	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-1	-1.371	No	0.01	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-10	1.371	No	0.01	No	Mann-W
<b>Chloride (mg/L)</b>	<b>GN-GSA-MW-11</b>	<b>3.647</b>	<b>Yes</b>	<b>0.01</b>	<b>Yes</b>	<b>Mann-W</b>
Chloride (mg/L)	GN-GSA-MW-12	1.559	No	0.01	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-13	-0.5199	No	0.01	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-14S (bg)	-2.316	No	0.01	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-15 (bg)	-0.04728	No	0.01	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-2 (bg)	0.5676	No	0.01	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-3 (bg)	-0.6622	No	0.01	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-5	-0.8038	No	0.01	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-6	2.505	No	0.01	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-7	0.3308	No	0.01	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-8	0.3315	No	0.01	No	Mann-W
Chloride (mg/L)	GN-GSA-MW-9	-1.945	No	0.01	No	Mann-W
Sulfate (mg/L)	GN-GSA-MW-1	0.6144	No	0.01	No	Mann-W
Sulfate (mg/L)	GN-GSA-MW-10	1.33	No	0.01	No	Mann-W
Sulfate (mg/L)	GN-GSA-MW-11	-2.41	No	0.01	No	Mann-W
Sulfate (mg/L)	GN-GSA-MW-12	0.4255	No	0.01	No	Mann-W
Sulfate (mg/L)	GN-GSA-MW-13	-0.4254	No	0.01	No	Mann-W
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-14S (bg)</b>	<b>-2.599</b>	<b>Yes</b>	<b>0.01</b>	<b>Yes</b>	<b>Mann-W</b>
Sulfate (mg/L)	GN-GSA-MW-15 (bg)	-1.351	No	0.01	No	Mann-W
Sulfate (mg/L)	GN-GSA-MW-2 (bg)	0.04725	No	0.01	No	Mann-W
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-3 (bg)</b>	<b>-2.812</b>	<b>Yes</b>	<b>0.01</b>	<b>Yes</b>	<b>Mann-W</b>
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-5</b>	<b>3.723</b>	<b>Yes</b>	<b>0.01</b>	<b>Yes</b>	<b>Mann-W</b>
Sulfate (mg/L)	GN-GSA-MW-6	1.277	No	0.01	No	Mann-W
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-7</b>	<b>-2.976</b>	<b>Yes</b>	<b>0.01</b>	<b>Yes</b>	<b>Mann-W</b>
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-8</b>	<b>3.647</b>	<b>Yes</b>	<b>0.01</b>	<b>Yes</b>	<b>Mann-W</b>
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-9</b>	<b>-2.882</b>	<b>Yes</b>	<b>0.01</b>	<b>Yes</b>	<b>Mann-W</b>
TDS (mg/L)	GN-GSA-MW-1	0.5209	No	0.01	No	Mann-W
<b>TDS (mg/L)</b>	<b>GN-GSA-MW-10</b>	<b>3.692</b>	<b>Yes</b>	<b>0.01</b>	<b>Yes</b>	<b>Mann-W</b>
TDS (mg/L)	GN-GSA-MW-11	1.468	No	0.01	No	Mann-W
TDS (mg/L)	GN-GSA-MW-12	2.033	No	0.01	No	Mann-W
TDS (mg/L)	GN-GSA-MW-13	-0.2368	No	0.01	No	Mann-W
<b>TDS (mg/L)</b>	<b>GN-GSA-MW-14S (bg)</b>	<b>-2.84</b>	<b>Yes</b>	<b>0.01</b>	<b>Yes</b>	<b>Mann-W</b>
<b>TDS (mg/L)</b>	<b>GN-GSA-MW-15 (bg)</b>	<b>-2.886</b>	<b>Yes</b>	<b>0.01</b>	<b>Yes</b>	<b>Mann-W</b>
TDS (mg/L)	GN-GSA-MW-2 (bg)	-1.565	No	0.01	No	Mann-W
<b>TDS (mg/L)</b>	<b>GN-GSA-MW-3 (bg)</b>	<b>-2.599</b>	<b>Yes</b>	<b>0.01</b>	<b>Yes</b>	<b>Mann-W</b>
<b>TDS (mg/L)</b>	<b>GN-GSA-MW-5</b>	<b>3.724</b>	<b>Yes</b>	<b>0.01</b>	<b>Yes</b>	<b>Mann-W</b>
TDS (mg/L)	GN-GSA-MW-6	0	No	0.01	No	Mann-W
TDS (mg/L)	GN-GSA-MW-7	-0.04732	No	0.01	No	Mann-W
TDS (mg/L)	GN-GSA-MW-8	-1.564	No	0.01	No	Mann-W
TDS (mg/L)	GN-GSA-MW-9	-0.7565	No	0.01	No	Mann-W



Mann-Whitney (Wilcoxon Rank Sum)

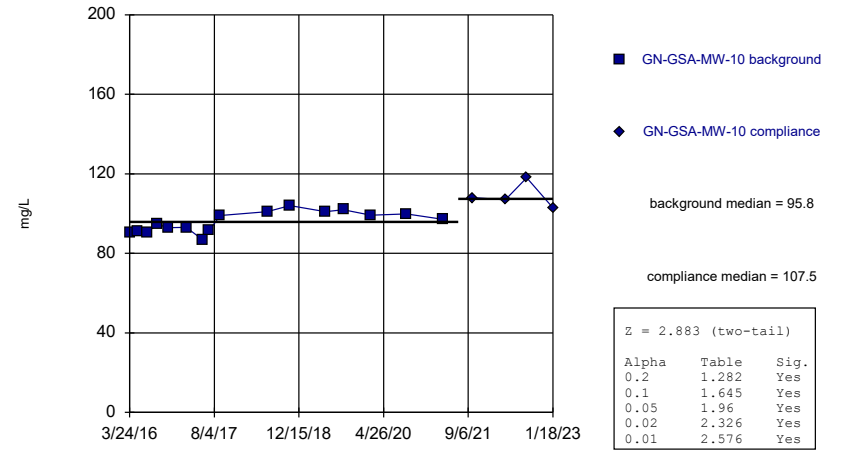
GN-GSA-MW-1



Constituent: Calcium Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

Mann-Whitney (Wilcoxon Rank Sum)

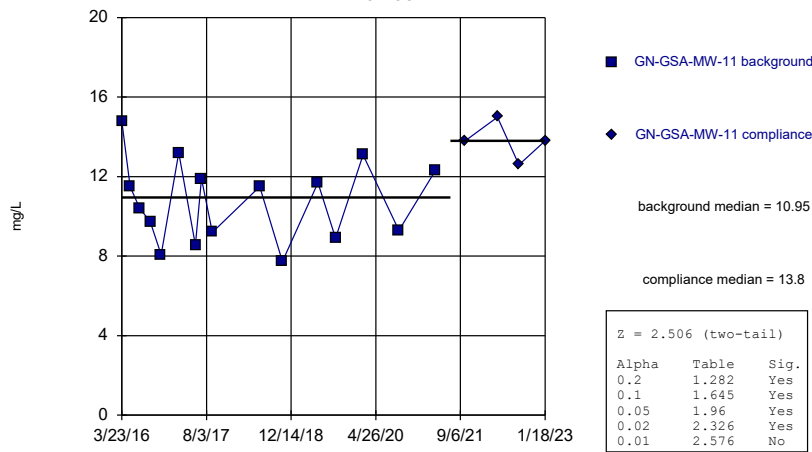
GN-GSA-MW-10



Constituent: Calcium Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

Mann-Whitney (Wilcoxon Rank Sum)

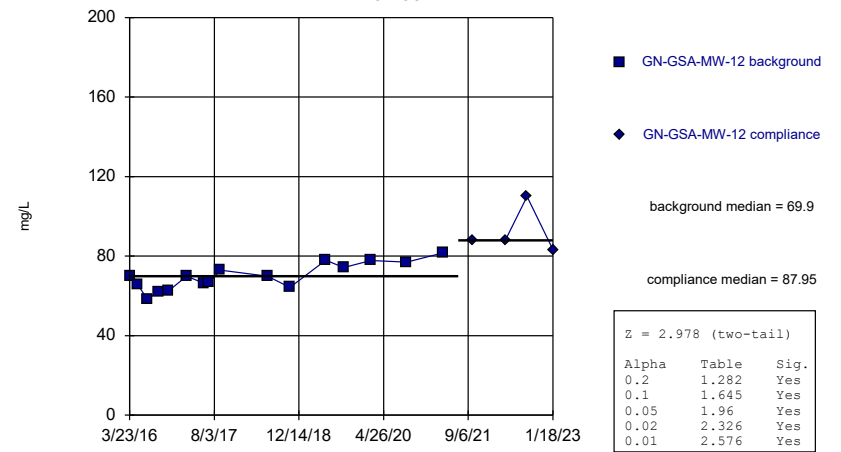
GN-GSA-MW-11



Constituent: Calcium Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

Mann-Whitney (Wilcoxon Rank Sum)

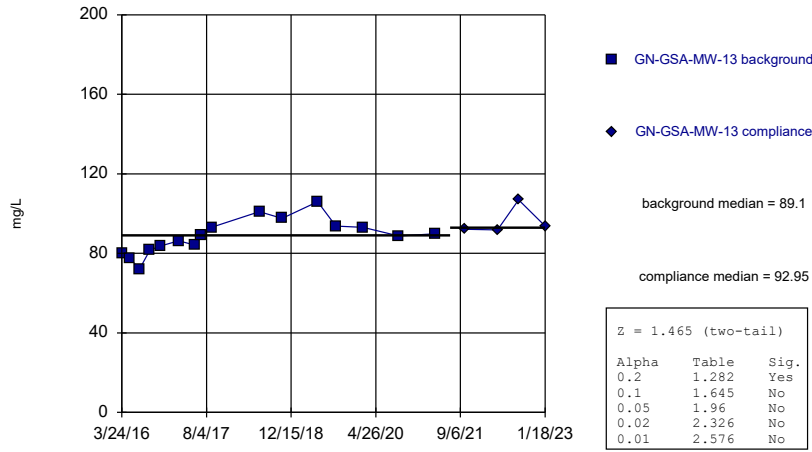
GN-GSA-MW-12



Constituent: Calcium Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

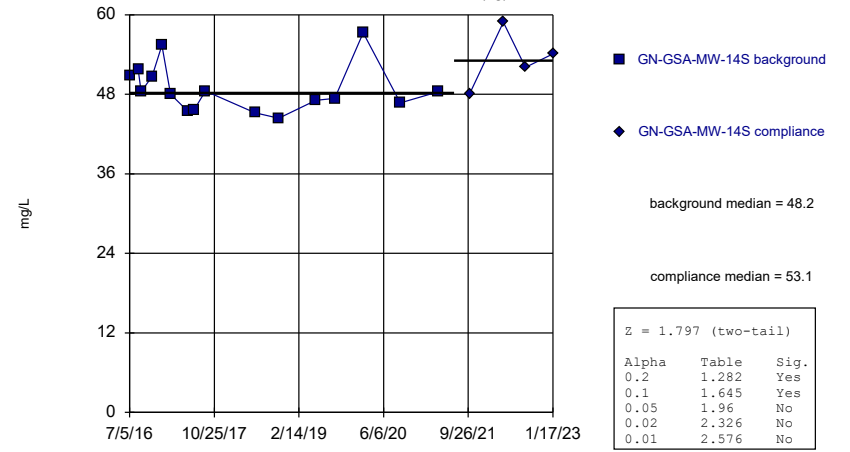
GN-GSA-MW-13



Constituent: Calcium Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

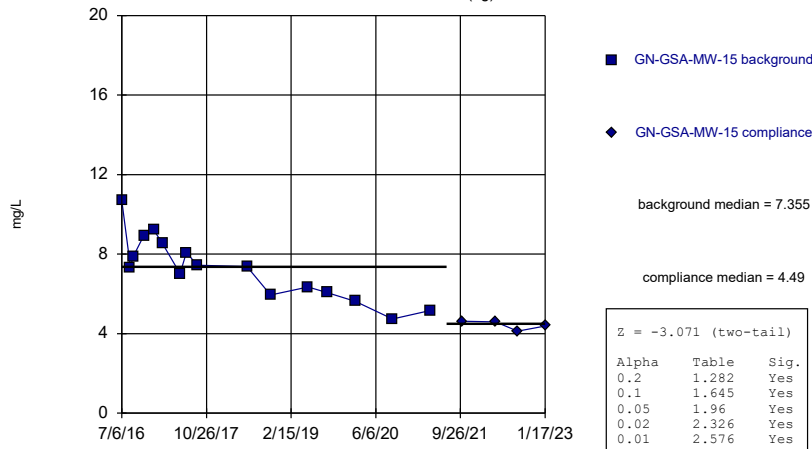
GN-GSA-MW-14S (bg)



Constituent: Calcium Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

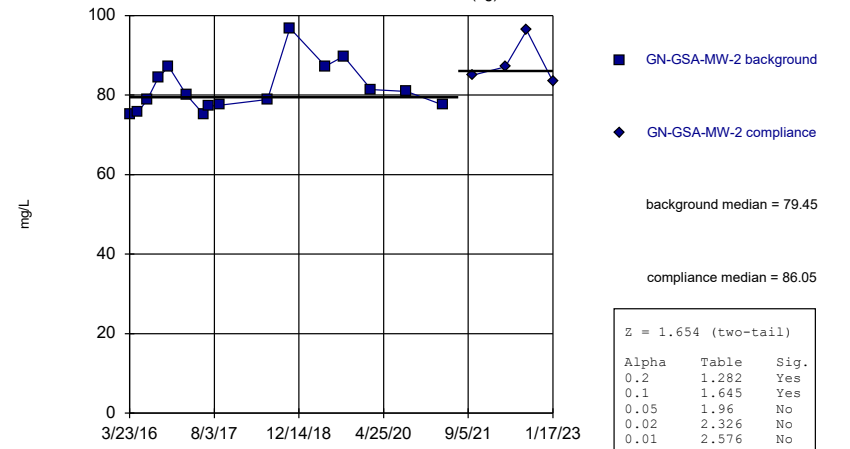
GN-GSA-MW-15 (bg)



Constituent: Calcium Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

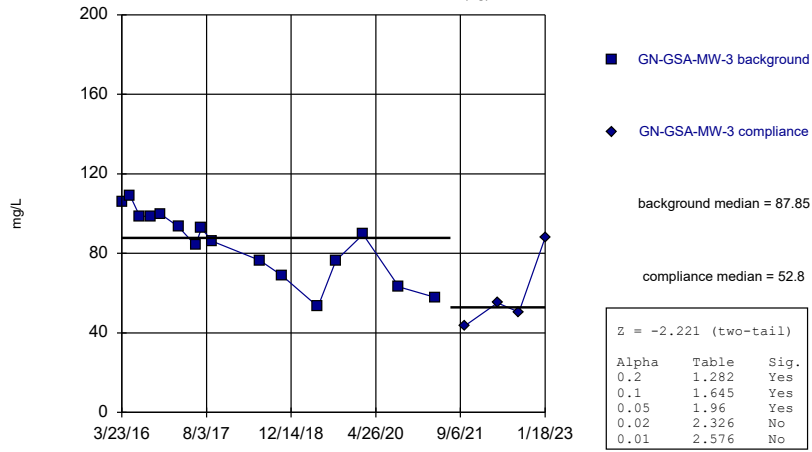
GN-GSA-MW-2 (bg)



Constituent: Calcium Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

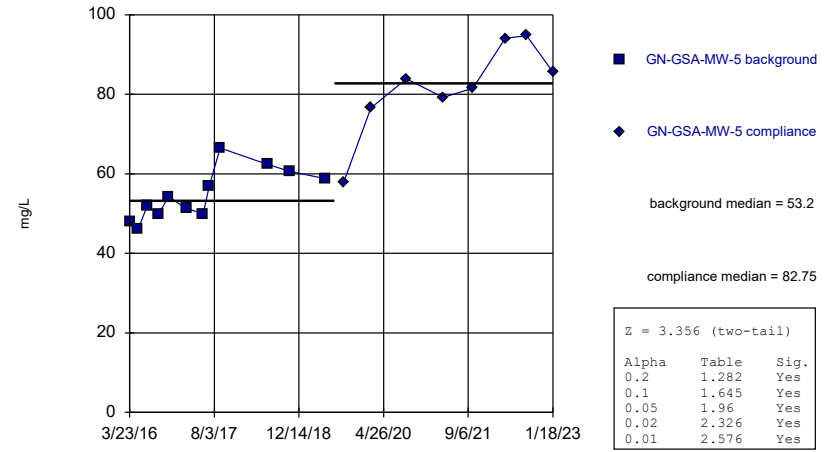
GN-GSA-MW-3 (bg)



Constituent: Calcium Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

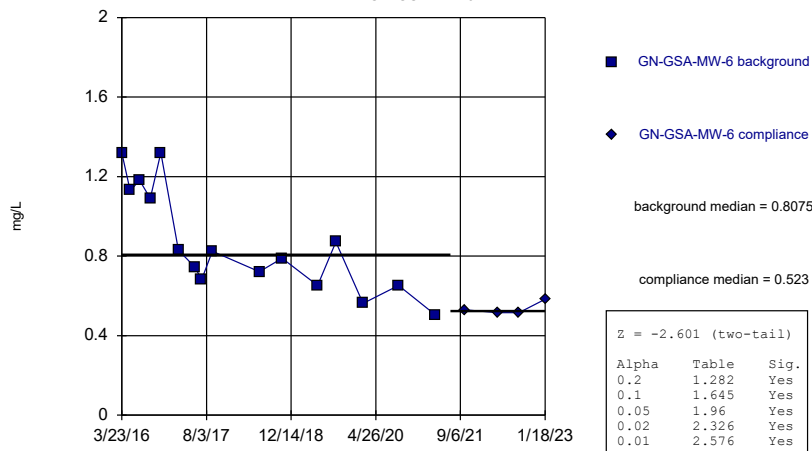
GN-GSA-MW-5



Constituent: Calcium Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

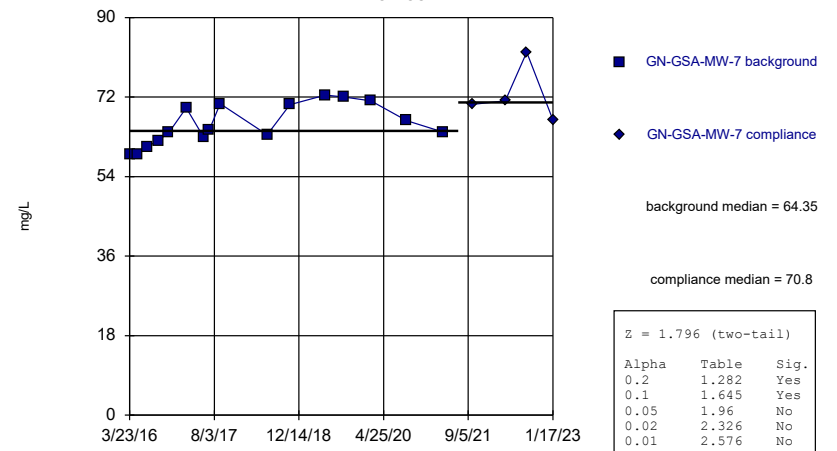
GN-GSA-MW-6



Constituent: Calcium Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

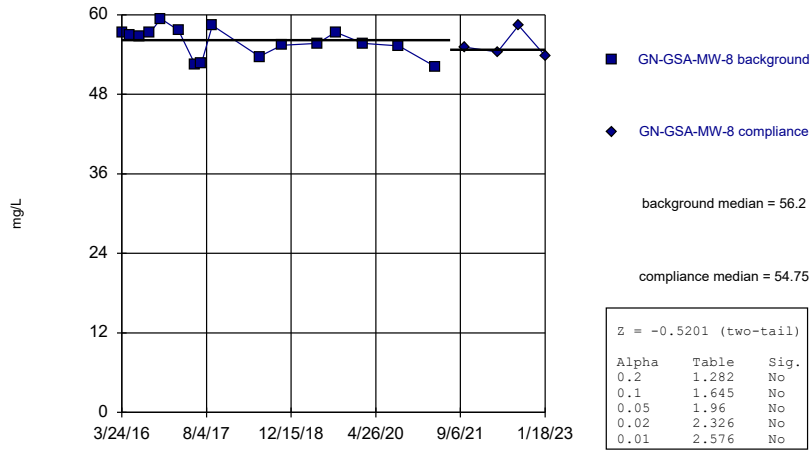
GN-GSA-MW-7



Constituent: Calcium Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

Mann-Whitney (Wilcoxon Rank Sum)

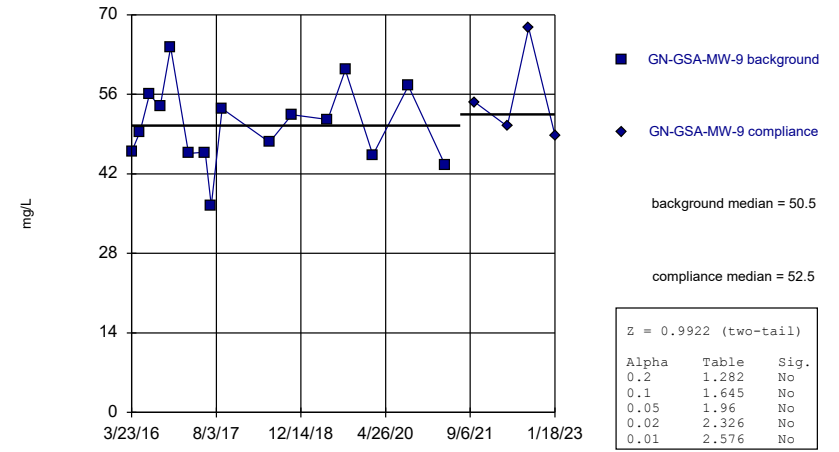
GN-GSA-MW-8



Constituent: Calcium Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

Mann-Whitney (Wilcoxon Rank Sum)

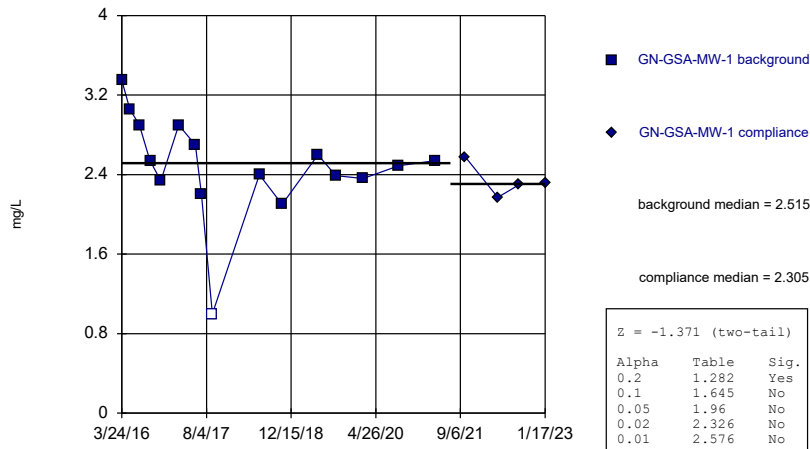
GN-GSA-MW-9



Constituent: Calcium Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

Mann-Whitney (Wilcoxon Rank Sum)

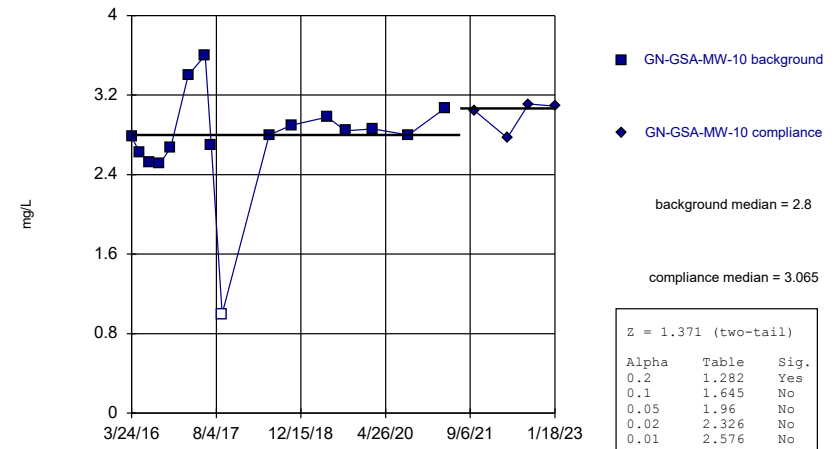
GN-GSA-MW-1



Constituent: Chloride Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

Mann-Whitney (Wilcoxon Rank Sum)

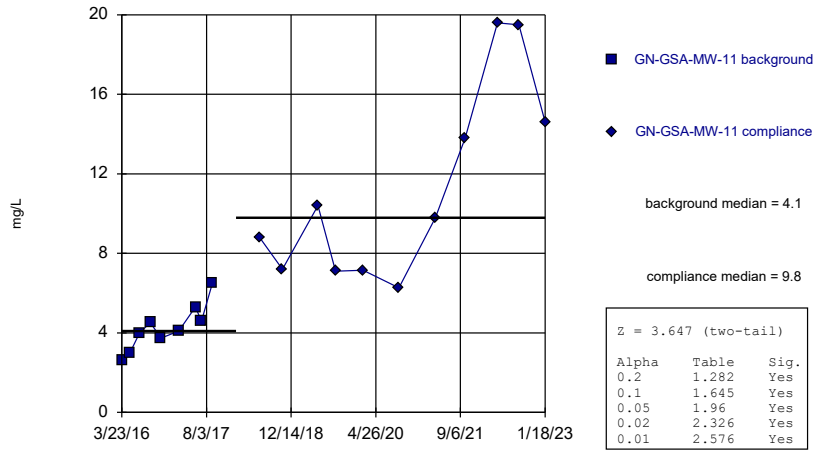
GN-GSA-MW-10



Constituent: Chloride Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-11

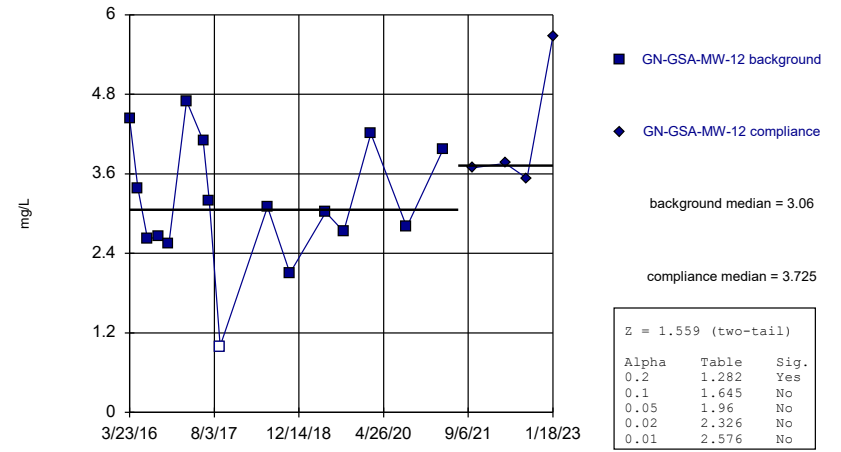


Constituent: Chloride Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
 Plant Gaston Client: Southern Company Data: Gaston GSA

Hollow symbols indicate censored values.

### Mann-Whitney (Wilcoxon Rank Sum)

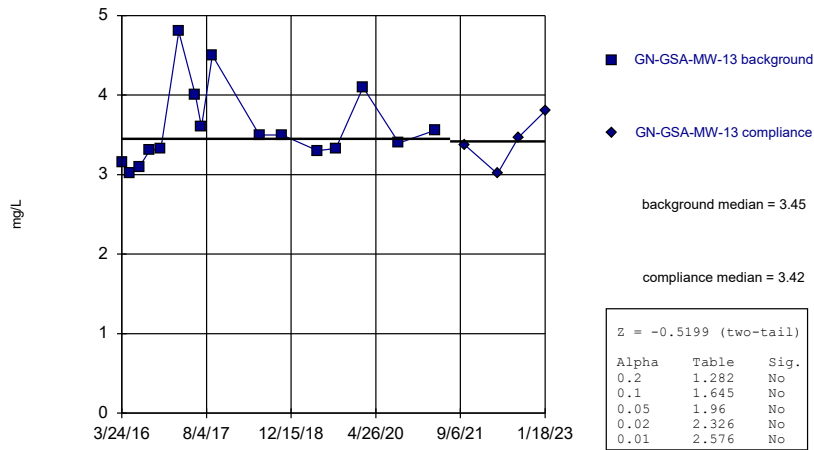
GN-GSA-MW-12



Constituent: Chloride Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

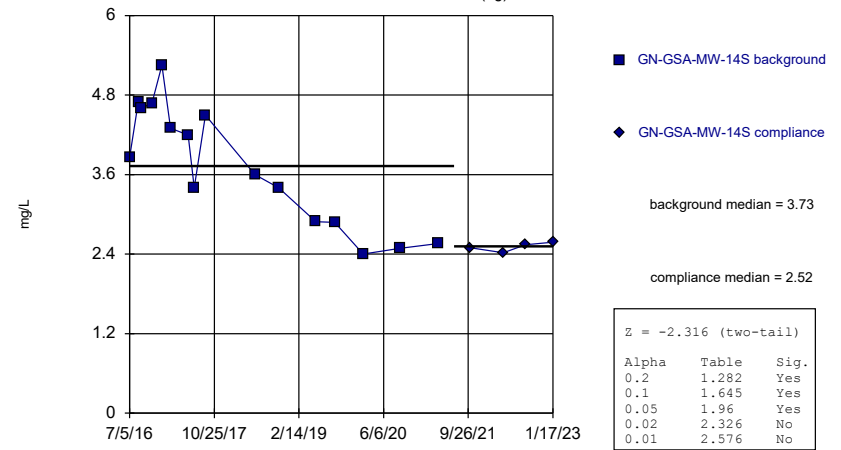
GN-GSA-MW-13



Constituent: Chloride Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

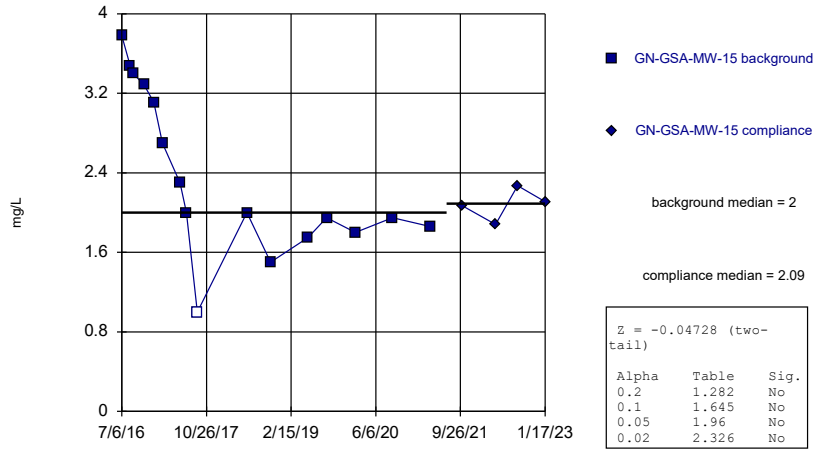
GN-GSA-MW-14S (bg)



Constituent: Chloride Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

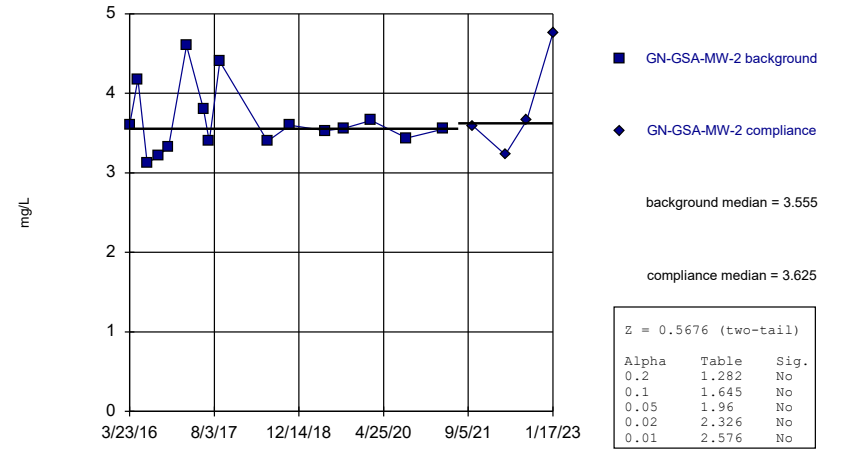
GN-GSA-MW-15 (bg)



Constituent: Chloride Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

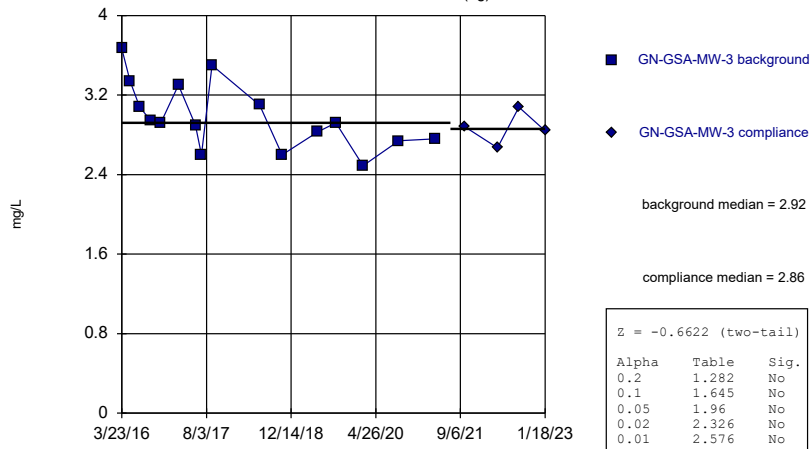
GN-GSA-MW-2 (bg)



Constituent: Chloride Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

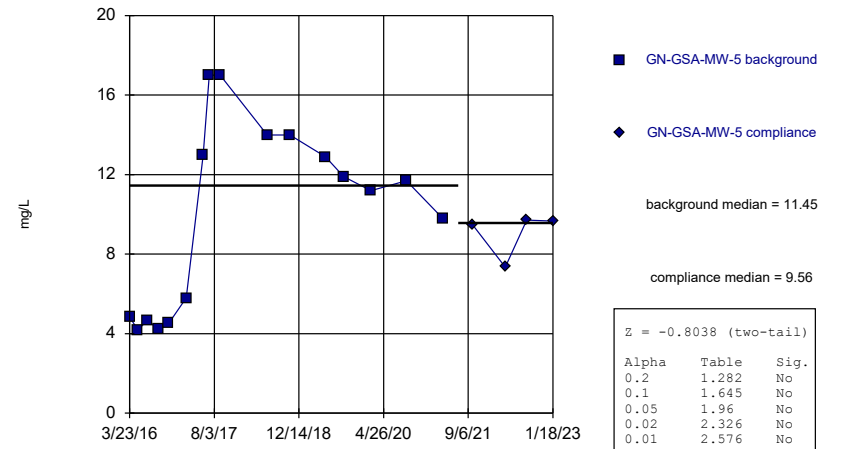
GN-GSA-MW-3 (bg)



Constituent: Chloride Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

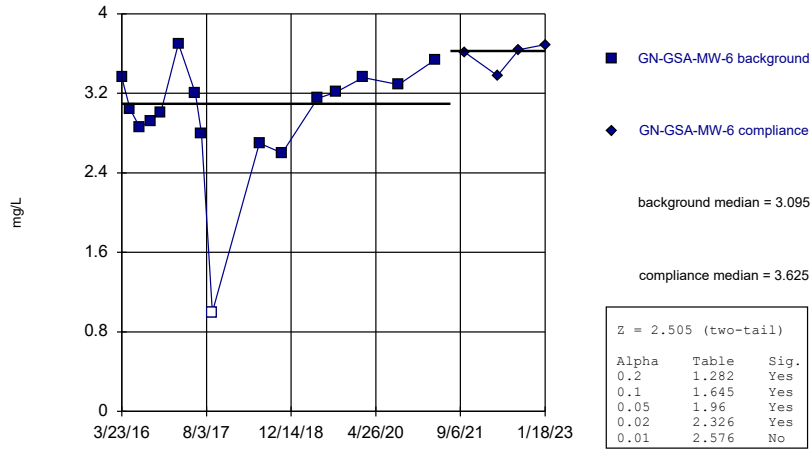
GN-GSA-MW-5



Constituent: Chloride Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

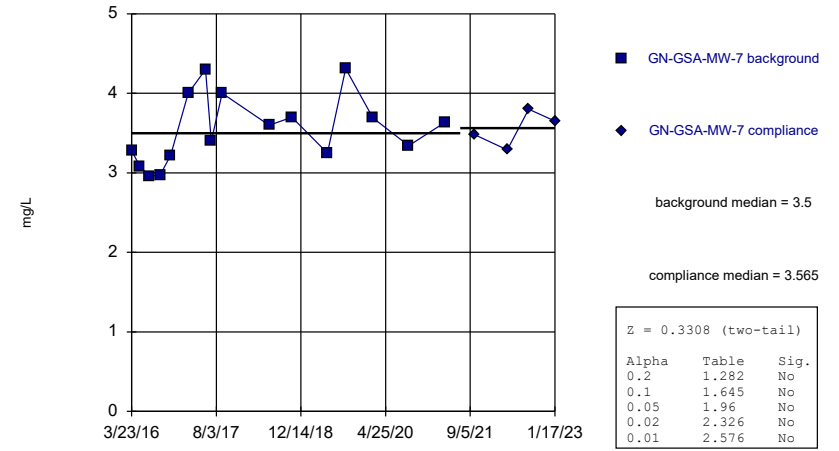
GN-GSA-MW-6



Constituent: Chloride Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

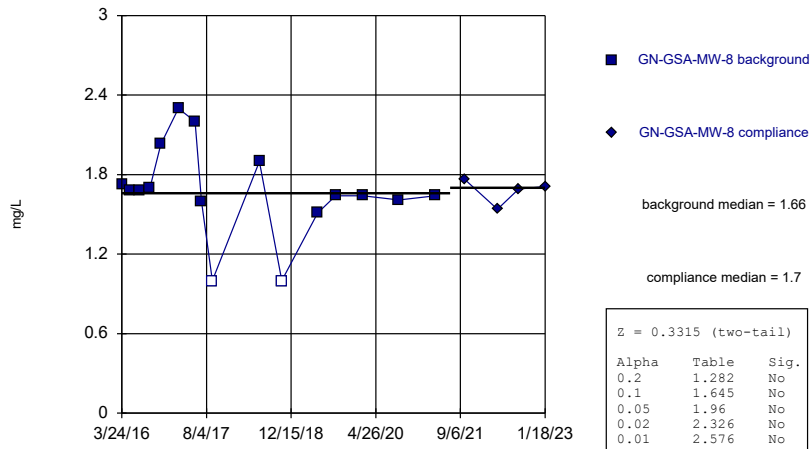
GN-GSA-MW-7



Constituent: Chloride Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

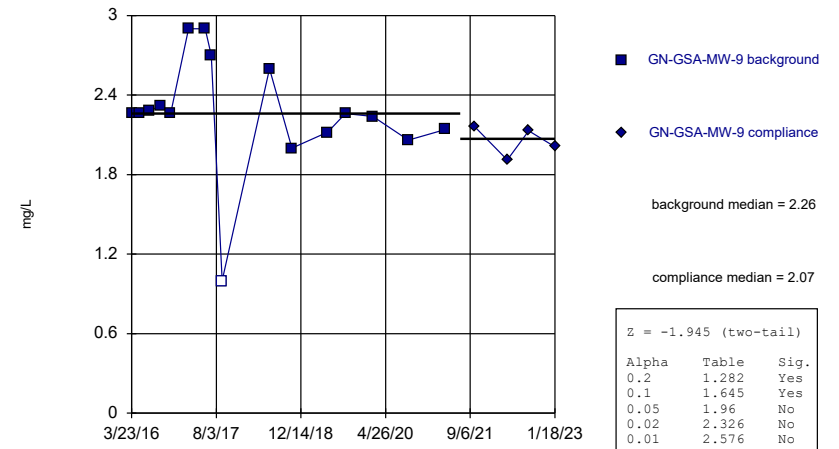
GN-GSA-MW-8



Constituent: Chloride Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

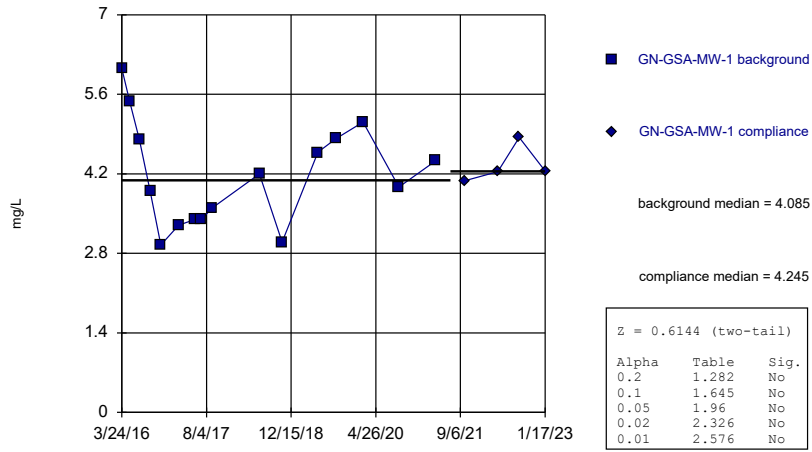
GN-GSA-MW-9



Constituent: Chloride Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

Mann-Whitney (Wilcoxon Rank Sum)

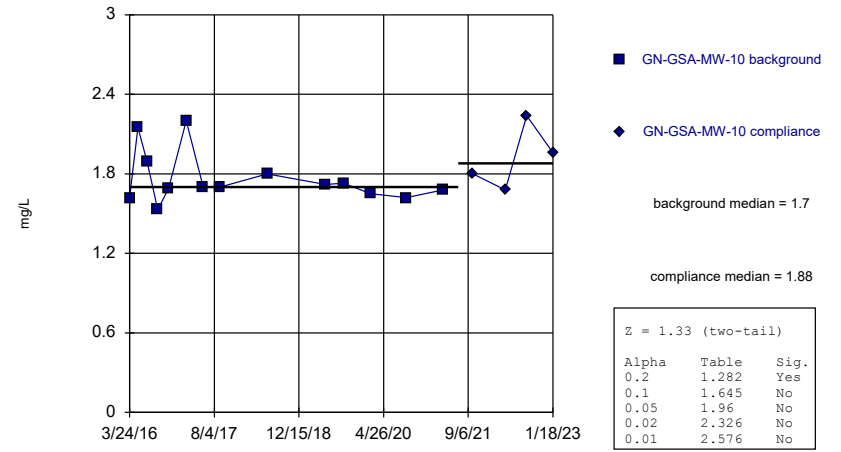
GN-GSA-MW-1



Constituent: Sulfate Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
 Plant Gaston Client: Southern Company Data: Gaston GSA

Mann-Whitney (Wilcoxon Rank Sum)

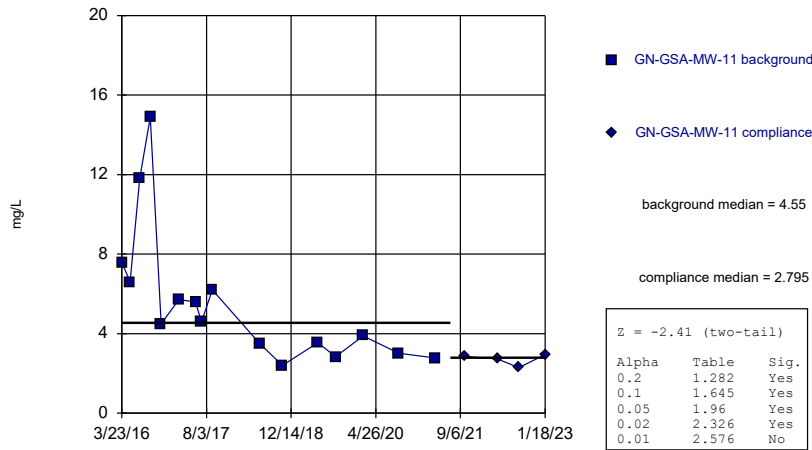
GN-GSA-MW-10



Constituent: Sulfate Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
 Plant Gaston Client: Southern Company Data: Gaston GSA

Mann-Whitney (Wilcoxon Rank Sum)

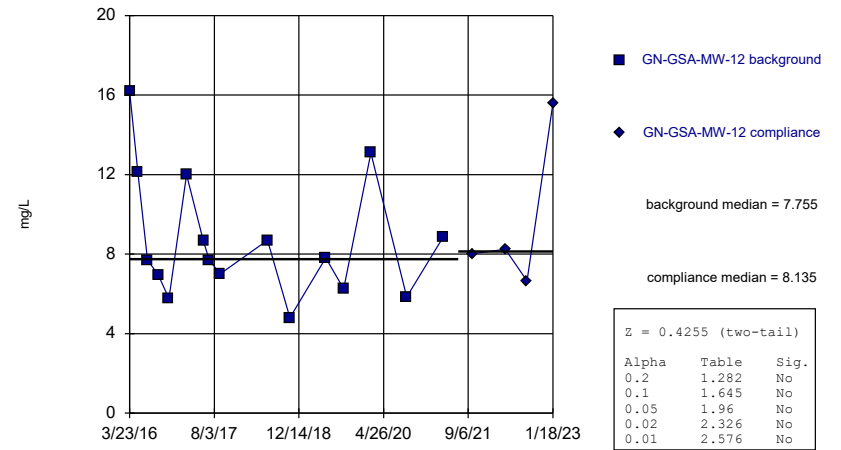
GN-GSA-MW-11



Constituent: Sulfate Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
 Plant Gaston Client: Southern Company Data: Gaston GSA

Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-12

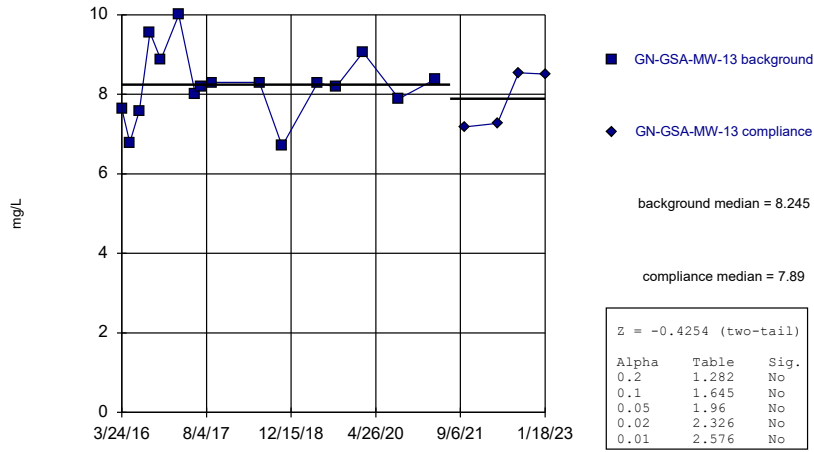


Constituent: Sulfate Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
 Plant Gaston Client: Southern Company Data: Gaston GSA



### Mann-Whitney (Wilcoxon Rank Sum)

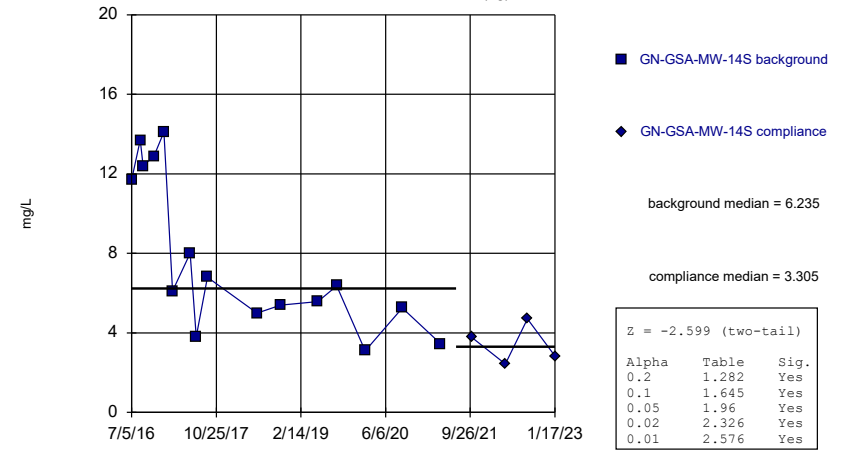
GN-GSA-MW-13



Constituent: Sulfate Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

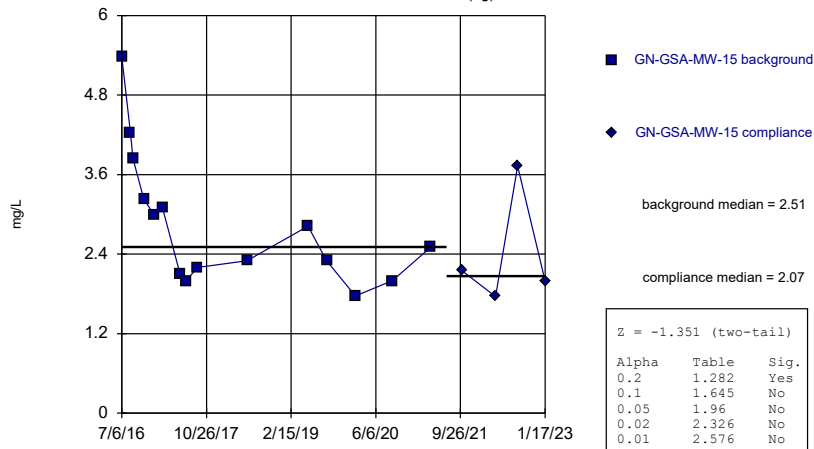
GN-GSA-MW-14S (bg)



Constituent: Sulfate Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

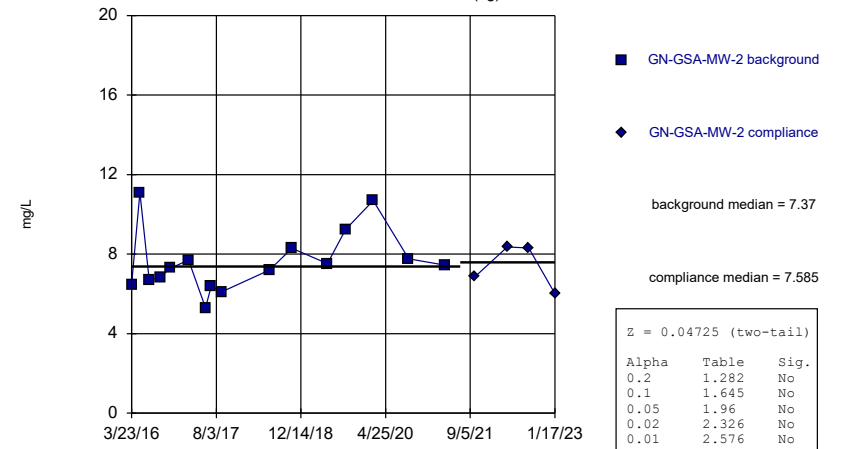
GN-GSA-MW-15 (bg)



Constituent: Sulfate Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

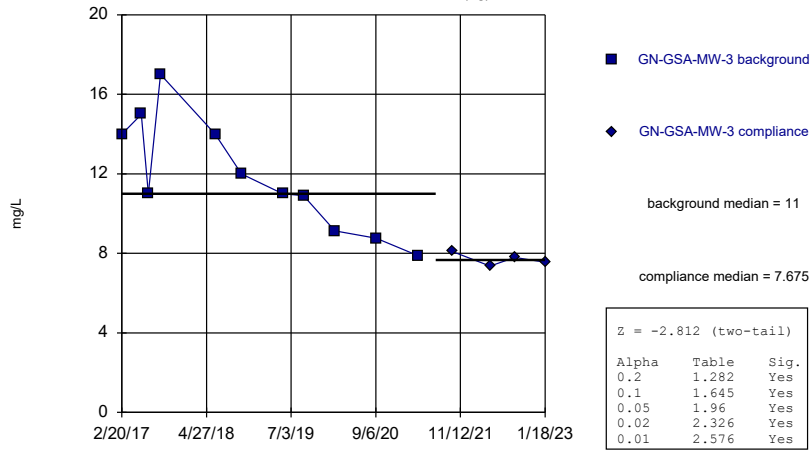
GN-GSA-MW-2 (bg)



Constituent: Sulfate Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

Mann-Whitney (Wilcoxon Rank Sum)

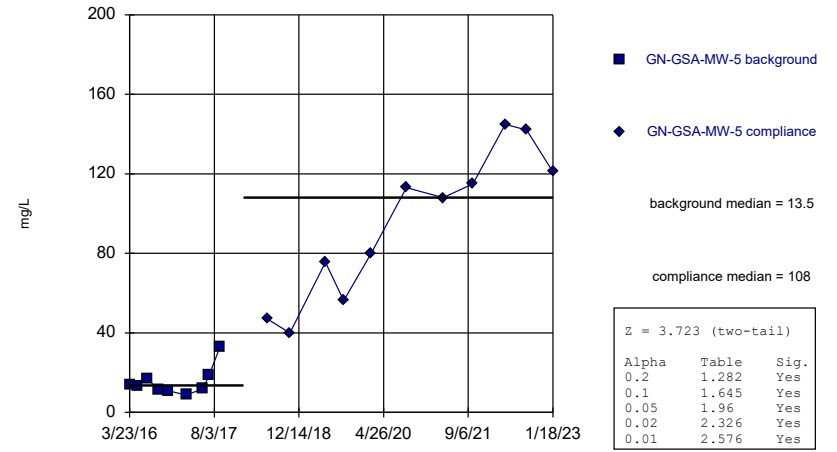
GN-GSA-MW-3 (bg)



Constituent: Sulfate Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

Mann-Whitney (Wilcoxon Rank Sum)

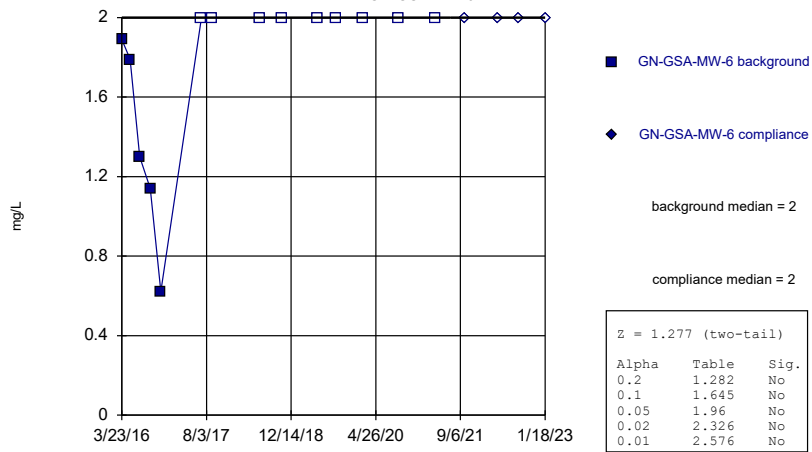
GN-GSA-MW-5



Constituent: Sulfate Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

Mann-Whitney (Wilcoxon Rank Sum)

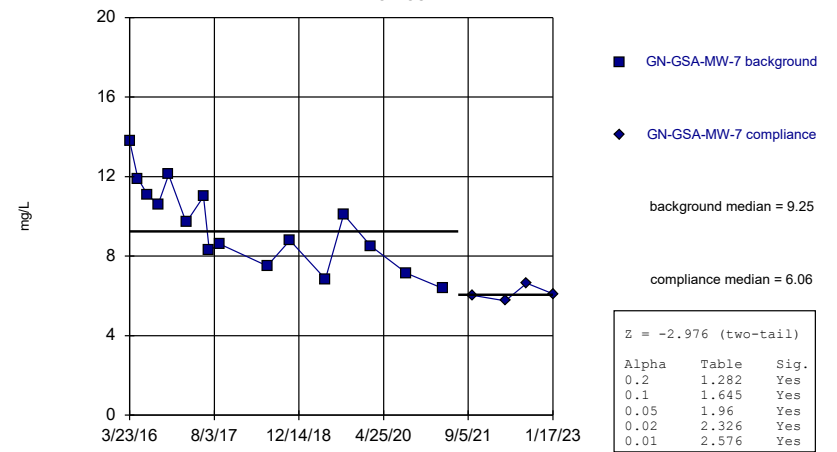
GN-GSA-MW-6



Constituent: Sulfate Analysis Run 10/2/2023 6:03 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

Mann-Whitney (Wilcoxon Rank Sum)

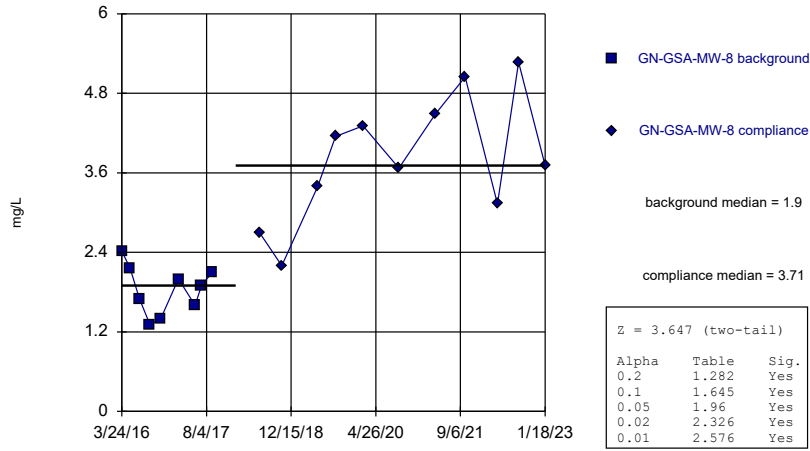
GN-GSA-MW-7



Constituent: Sulfate Analysis Run 10/2/2023 6:04 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

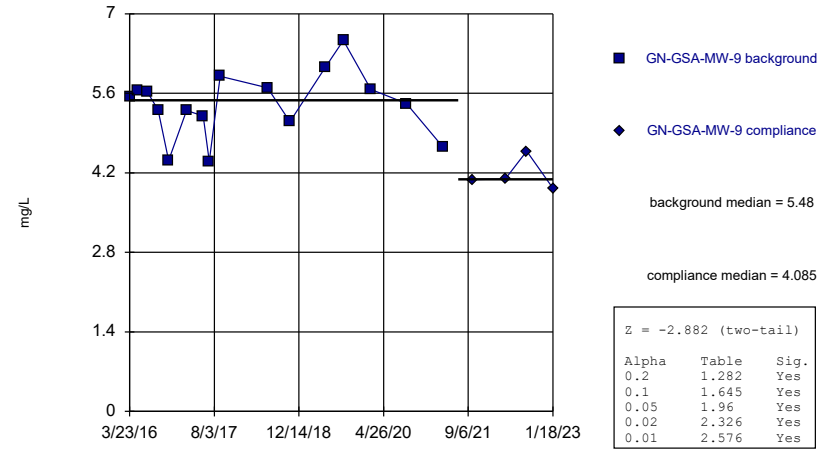
GN-GSA-MW-8



Constituent: Sulfate Analysis Run 10/2/2023 6:04 PM View: Appendix III - Mann-Whitney  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

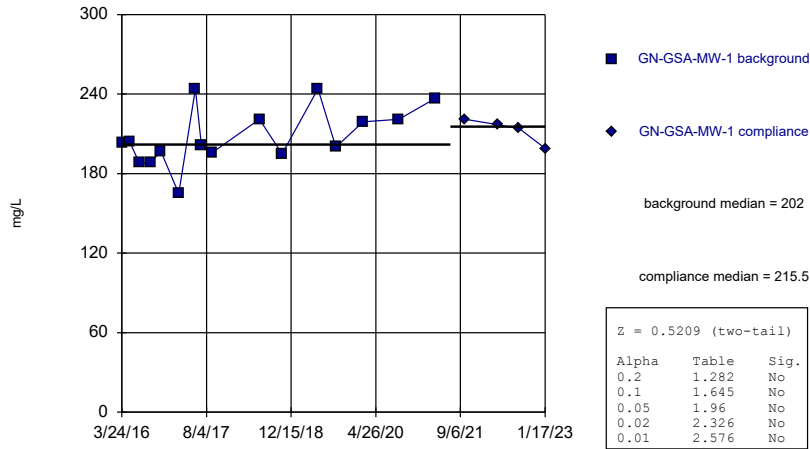
GN-GSA-MW-9



Constituent: Sulfate Analysis Run 10/2/2023 6:04 PM View: Appendix III - Mann-Whitney  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

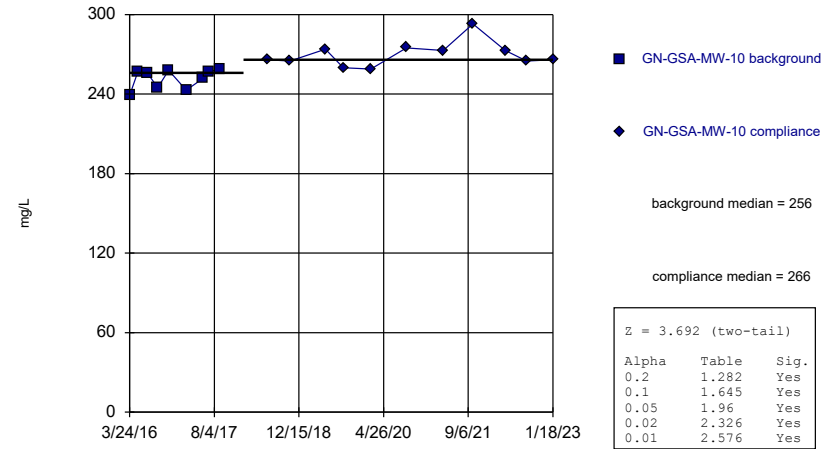
GN-GSA-MW-1



Constituent: TDS Analysis Run 10/2/2023 6:04 PM View: Appendix III - Mann-Whitney  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

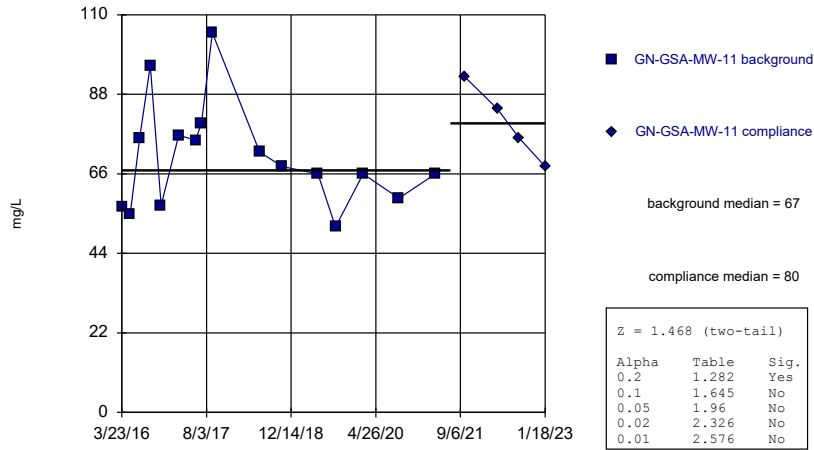
GN-GSA-MW-10



Constituent: TDS Analysis Run 10/2/2023 6:04 PM View: Appendix III - Mann-Whitney  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

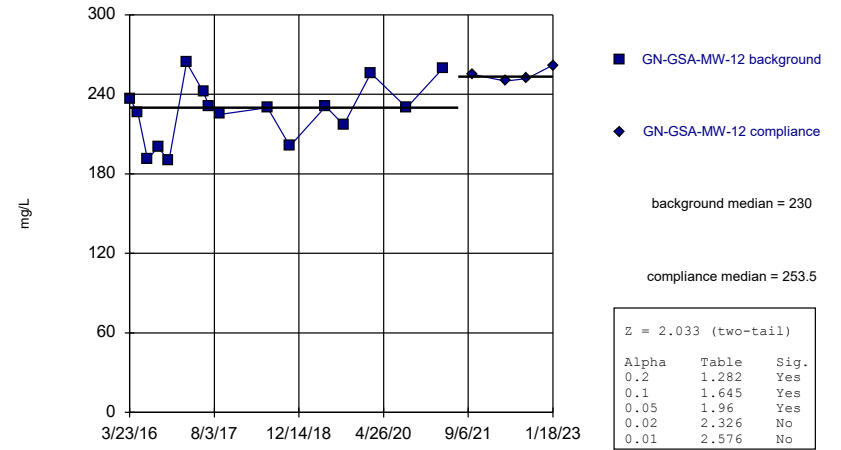
GN-GSA-MW-11



Constituent: TDS Analysis Run 10/2/2023 6:04 PM View: Appendix III - Mann-Whitney  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

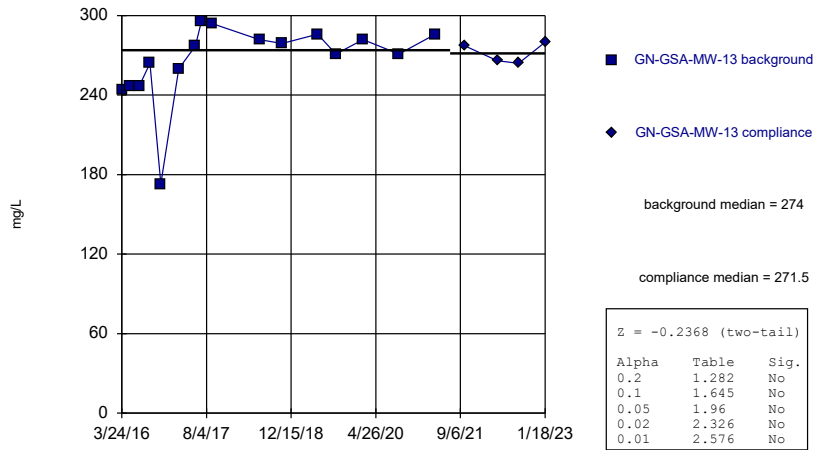
GN-GSA-MW-12



Constituent: TDS Analysis Run 10/2/2023 6:04 PM View: Appendix III - Mann-Whitney  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

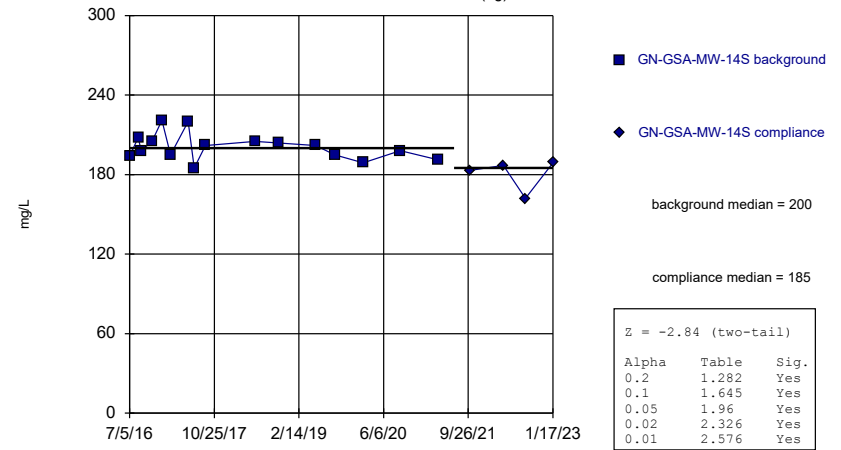
GN-GSA-MW-13



Constituent: TDS Analysis Run 10/2/2023 6:04 PM View: Appendix III - Mann-Whitney  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

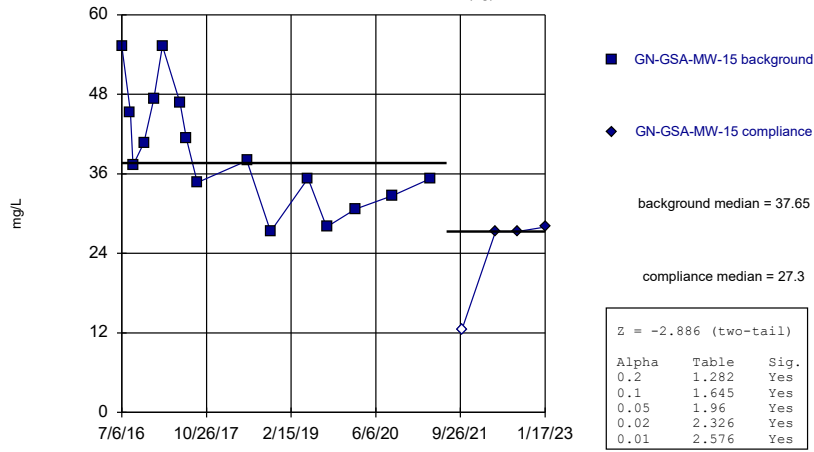
GN-GSA-MW-14S (bg)



Constituent: TDS Analysis Run 10/2/2023 6:04 PM View: Appendix III - Mann-Whitney  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

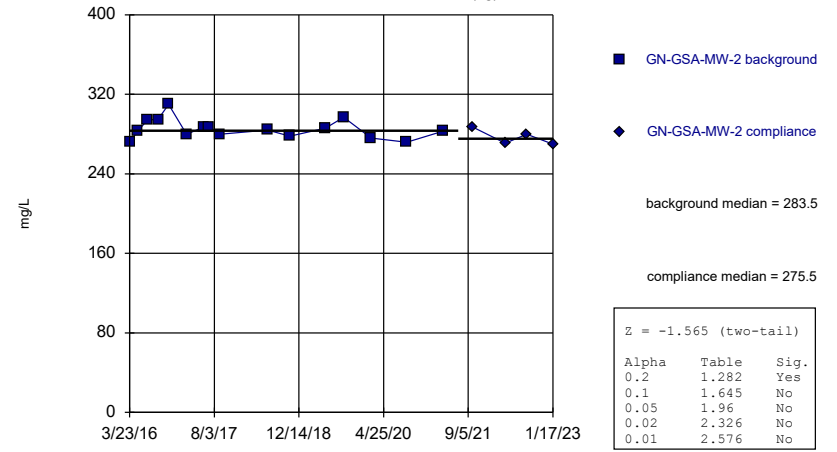
GN-GSA-MW-15 (bg)



Constituent: TDS Analysis Run 10/2/2023 6:04 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

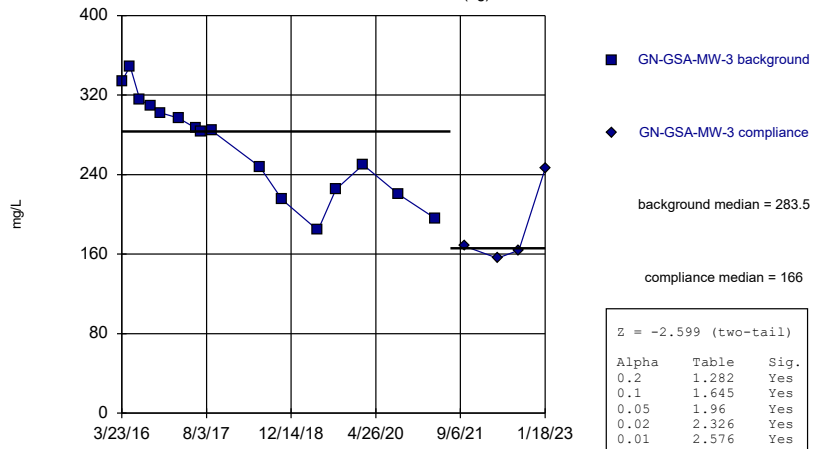
GN-GSA-MW-2 (bg)



Constituent: TDS Analysis Run 10/2/2023 6:04 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

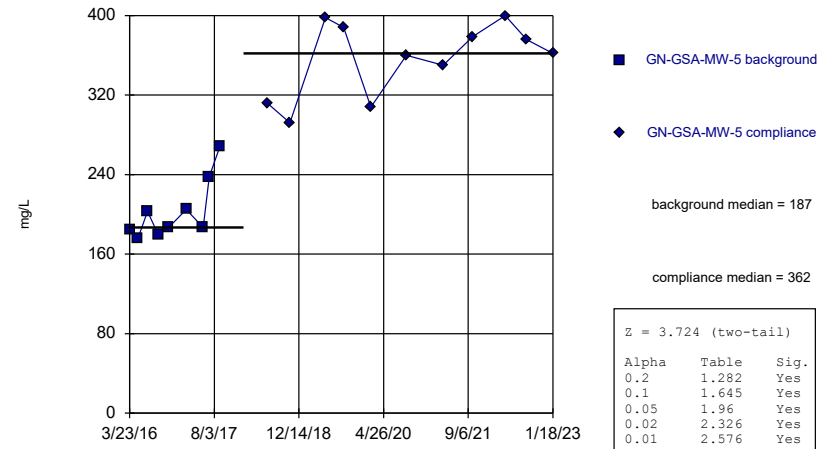
GN-GSA-MW-3 (bg)



Constituent: TDS Analysis Run 10/2/2023 6:04 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

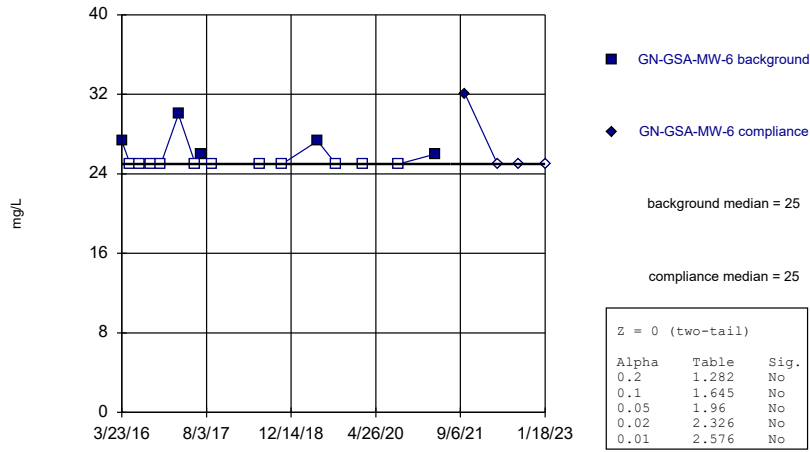
GN-GSA-MW-5



Constituent: TDS Analysis Run 10/2/2023 6:04 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

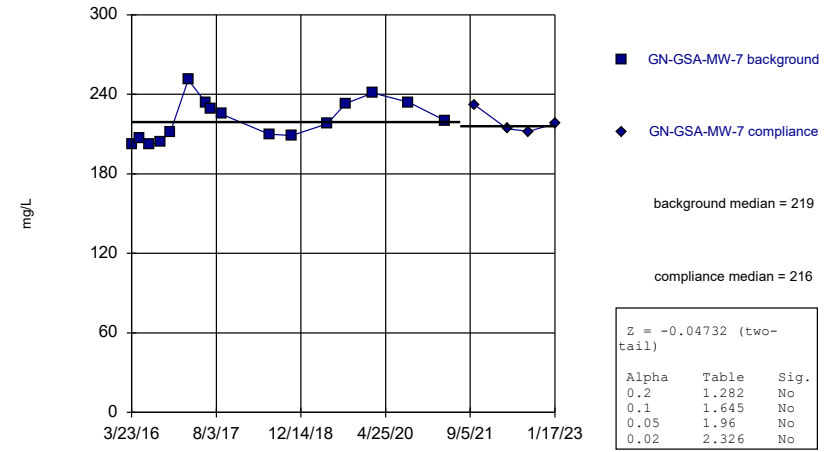
GN-GSA-MW-6



Constituent: TDS Analysis Run 10/2/2023 6:04 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

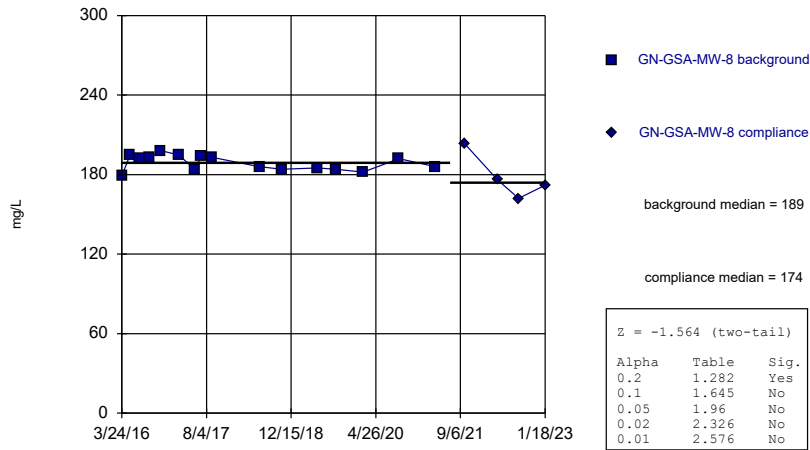
GN-GSA-MW-7



Constituent: TDS Analysis Run 10/2/2023 6:04 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

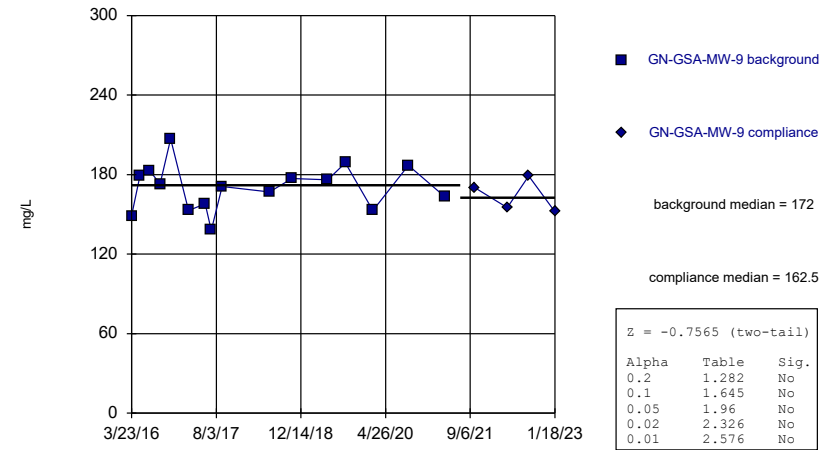
GN-GSA-MW-8



Constituent: TDS Analysis Run 10/2/2023 6:04 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Mann-Whitney (Wilcoxon Rank Sum)

GN-GSA-MW-9



Constituent: TDS Analysis Run 10/2/2023 6:04 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Calcium (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-1	GN-GSA-MW-1
3/24/2016	36.9	
5/10/2016	37.9	
7/5/2016	35.3	
9/6/2016	34.8	
11/8/2016	34.3	
2/22/2017	35.9	
5/31/2017	34.3	
7/5/2017	35.5	
9/7/2017	36.7	
6/12/2018	42.2	
10/23/2018	38.9	
5/21/2019	47.8	
9/4/2019	41.4	
2/12/2020	44.1	
9/9/2020	44.5	
4/13/2021	44	
10/4/2021		45.4
4/13/2022		47.5
8/18/2022		53.5
1/17/2023		43.5

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Calcium (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-10	GN-GSA-MW-10
3/24/2016	90.3	
5/11/2016	91.1	
7/6/2016	90.7	
9/6/2016	94.5	
11/9/2016	92.9	
2/21/2017	93.1	
5/31/2017	86.6	
7/5/2017	91.5	
9/7/2017	99	
6/12/2018	101	
10/24/2018	104	
5/21/2019	101	
9/3/2019	102	
2/12/2020	99.2	
9/8/2020	99.9	
4/13/2021	97.1	
10/5/2021		108
4/13/2022		107
8/17/2022		118
1/18/2023		103



# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Calcium (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-11	GN-GSA-MW-11
3/23/2016	14.8	
5/11/2016	11.5	
7/6/2016	10.4	
9/7/2016	9.73	
11/9/2016	8.07	
2/21/2017	13.2	
5/31/2017	8.56	
7/5/2017	11.9	
9/7/2017	9.2	
6/12/2018	11.5	
10/24/2018	7.73	
5/21/2019	11.7	
9/3/2019	8.9	
2/12/2020	13.1	
9/9/2020	9.3	
4/13/2021	12.3	
10/5/2021		13.8
4/13/2022		15
8/17/2022		12.6
1/18/2023		13.8

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Calcium (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-12	GN-GSA-MW-12
3/23/2016	70.2	
5/10/2016	65.6	
7/6/2016	58.2	
9/6/2016	62.3	
11/9/2016	62.7	
2/21/2017	69.9	
5/31/2017	66.5	
7/5/2017	66.9	
9/7/2017	72.9	
6/12/2018	69.9	
10/23/2018	64.3	
5/21/2019	77.9	
9/4/2019	74.2	
2/12/2020	77.8	
9/9/2020	77	
4/13/2021	81.6	
10/5/2021		87.9
4/13/2022		88
8/18/2022		110
1/18/2023		83.300003

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Calcium (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-13	GN-GSA-MW-13
3/24/2016	79.9	
5/10/2016	77.6	
7/6/2016	72	
9/6/2016	81.6	
11/8/2016	83.8	
2/22/2017	86.4	
5/31/2017	84.1	
7/5/2017	89.5	
9/7/2017	93.2	
6/12/2018	101	
10/23/2018	97.6	
5/21/2019	106	
9/4/2019	93.7	
2/12/2020	93.1	
9/9/2020	88.7	
4/13/2021	89.8	
10/4/2021		92.2
4/13/2022		91.8
8/16/2022		107
1/18/2023		93.699997

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Calcium (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-14S	GN-GSA-MW-14S
7/5/2016	50.8	
8/23/2016	51.7	
9/7/2016	48.4	
11/8/2016	50.7	
1/3/2017	55.4	
2/21/2017	48	
5/31/2017	45.4	
7/5/2017	45.7	
9/5/2017	48.5	
6/12/2018	45.2	
10/23/2018	44.4	
5/22/2019	47.1	
9/4/2019	47.4	
2/12/2020	57.3	
9/9/2020	46.7	
4/13/2021	48.4	
10/4/2021		48
4/13/2022		58.9
8/16/2022		52.099998
1/17/2023		54.099998

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Calcium (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-15	GN-GSA-MW-15
7/6/2016	10.7	
8/23/2016	7.34	
9/7/2016	7.86	
11/8/2016	8.94	
1/3/2017	9.21	
2/20/2017	8.53	
5/31/2017	7.02	
7/5/2017	8.08	
9/5/2017	7.44	
6/12/2018	7.37	
10/23/2018	5.94	
5/22/2019	6.34	
9/4/2019	6.07	
2/12/2020	5.62	
9/9/2020	4.73	
4/13/2021	5.17	
10/6/2021		4.62
4/12/2022		4.59
8/16/2022		4.13
1/17/2023		4.39

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Calcium (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-2	GN-GSA-MW-2
3/23/2016	75.3	
5/10/2016	75.7	
7/5/2016	78.8	
9/6/2016	84.3	
11/8/2016	87.2	
2/21/2017	80	
5/31/2017	75.2	
7/5/2017	77.2	
9/5/2017	77.5	
6/12/2018	78.9	
10/22/2018	96.9	
5/20/2019	87.3	
9/4/2019	89.8	
2/12/2020	81.4	
9/9/2020	80.9	
4/13/2021	77.5	
10/4/2021		85
4/12/2022		87.1
8/16/2022		96.300003
1/17/2023		83.400002

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Calcium (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-3	GN-GSA-MW-3
3/23/2016	106	
5/10/2016	109	
7/6/2016	98.7	
9/7/2016	98.6	
11/8/2016	99.7	
2/20/2017	93.4	
5/31/2017	84.1	
7/5/2017	92.6	
9/5/2017	86.1	
6/12/2018	76.5	
10/23/2018	68.8	
5/22/2019	53.1	
9/4/2019	76.4	
2/12/2020	89.6	
9/9/2020	63.1	
4/13/2021	57.8	
10/4/2021		43.7
4/12/2022		55.1
8/16/2022		50.5
1/18/2023		87.900002

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Calcium (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-5	GN-GSA-MW-5
3/23/2016	48.1	
5/11/2016	46	
7/6/2016	52.1	
9/6/2016	49.7	
11/8/2016	54.3	
2/20/2017	51.3	
5/30/2017	50	
7/5/2017	56.9	
9/7/2017	66.5	
6/11/2018	62.4	
10/22/2018	60.6	
5/20/2019	58.8	
9/4/2019		57.9
2/11/2020		76.6
9/8/2020		83.9
4/13/2021		79.2
10/4/2021		81.6
4/12/2022		94.1
8/16/2022		94.800003
1/18/2023		85.599998



# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Calcium (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-6	GN-GSA-MW-6
3/23/2016	1.32	
5/11/2016	1.13	
7/6/2016	1.18	
9/6/2016	1.09	
11/8/2016	1.32	
2/20/2017	0.829	
5/30/2017	0.743	
7/5/2017	0.68	
9/7/2017	0.825	
6/11/2018	0.722	
10/22/2018	0.79	
5/20/2019	0.652	
9/4/2019	0.872	
2/11/2020	0.562	
9/8/2020	0.652	
4/13/2021	0.505	
10/4/2021		0.53
4/12/2022		0.516
8/16/2022		0.516
1/18/2023		0.583

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Calcium (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-7	GN-GSA-MW-7
3/23/2016	59.1	
5/11/2016	58.9	
7/6/2016	60.8	
9/6/2016	62.2	
11/8/2016	63.9	
2/20/2017	69.6	
5/31/2017	63	
7/5/2017	64.6	
9/7/2017	70.5	
6/11/2018	63.5	
10/22/2018	70.3	
5/20/2019	72.5	
9/4/2019	72	
2/11/2020	71.2	
9/9/2020	66.7	
4/13/2021	64.1	
10/4/2021		70.4
4/12/2022		71.2
8/16/2022		82.199997
1/17/2023		66.800003

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Calcium (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-8	GN-GSA-MW-8
3/24/2016	57.4	
5/11/2016	57	
7/6/2016	56.7	
9/6/2016	57.3	
11/8/2016	59.4	
2/20/2017	57.7	
5/30/2017	52.5	
7/5/2017	52.7	
9/7/2017	58.4	
6/12/2018	53.7	
10/22/2018	55.4	
5/21/2019	55.7	
9/3/2019	57.4	
2/12/2020	55.7	
9/9/2020	55.3	
4/13/2021	52.2	
10/4/2021		55.1
4/12/2022		54.4
8/16/2022		58.400002
1/18/2023		53.799999

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Calcium (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-9	GN-GSA-MW-9
3/23/2016	45.9	
5/11/2016	49.4	
7/6/2016	56	
9/7/2016	53.8	
11/8/2016	64.3	
2/21/2017	45.6	
5/30/2017	45.8	
7/5/2017	36.4	
9/7/2017	53.5	
6/12/2018	47.6	
10/22/2018	52.4	
5/21/2019	51.6	
9/3/2019	60.3	
2/12/2020	45.3	
9/8/2020	57.5	
4/13/2021	43.5	
10/5/2021		54.6
4/12/2022		50.4
8/17/2022		67.699997
1/18/2023		48.799999

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Chloride (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-1	GN-GSA-MW-1
3/24/2016	3.35	
5/10/2016	3.06	
7/5/2016	2.9	
9/6/2016	2.54	
11/8/2016	2.34	
2/22/2017	2.9	
5/31/2017	2.7	
7/5/2017	2.2	
9/7/2017	<2 (U*)	
6/12/2018	2.4	
10/23/2018	2.1	
5/21/2019	2.6	
9/4/2019	2.39	
2/12/2020	2.36	
9/9/2020	2.49	
4/13/2021	2.54	
10/4/2021		2.58
4/13/2022		2.17
8/18/2022		2.3
1/17/2023		2.31

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Chloride (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-10	GN-GSA-MW-10
3/24/2016	2.78	
5/11/2016	2.62	
7/6/2016	2.53	
9/6/2016	2.51	
11/9/2016	2.67	
2/21/2017	3.4	
5/31/2017	3.6	
7/5/2017	2.7	
9/7/2017	<2 (U*)	
6/12/2018	2.8	
10/24/2018	2.9	
5/21/2019	2.98	
9/3/2019	2.84	
2/12/2020	2.86	
9/8/2020	2.8	
4/13/2021	3.07	
10/5/2021		3.04
4/13/2022		2.77
8/17/2022		3.11
1/18/2023		3.09

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Chloride (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-11	GN-GSA-MW-11
3/23/2016	2.64	
5/11/2016	3.02	
7/6/2016	4.01	
9/7/2016	4.51	
11/9/2016	3.74	
2/21/2017	4.1	
5/31/2017	5.3	
7/5/2017	4.6	
9/7/2017	6.5	
6/12/2018		8.8
10/24/2018		7.2
5/21/2019		10.4
9/3/2019		7.1
2/12/2020		7.16
9/9/2020		6.27
4/13/2021		9.8
10/5/2021		13.8
4/13/2022		19.6
8/17/2022		19.5
1/18/2023		14.6

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Chloride (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-12	GN-GSA-MW-12
3/23/2016	4.43	
5/10/2016	3.38	
7/6/2016	2.62	
9/6/2016	2.65	
11/9/2016	2.55	
2/21/2017	4.7	
5/31/2017	4.1	
7/5/2017	3.2	
9/7/2017	<2 (U*)	
6/12/2018	3.1	
10/23/2018	2.1	
5/21/2019	3.02	
9/4/2019	2.73	
2/12/2020	4.21	
9/9/2020	2.8	
4/13/2021	3.97	
10/5/2021		3.69
4/13/2022		3.76
8/18/2022		3.53
1/18/2023		5.68



# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Chloride (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney

Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-13	GN-GSA-MW-13
3/24/2016	3.16	
5/10/2016	3.02	
7/6/2016	3.1	
9/6/2016	3.31	
11/8/2016	3.32	
2/22/2017	4.8	
5/31/2017	4	
7/5/2017	3.6	
9/7/2017	4.5	
6/12/2018	3.5	
10/23/2018	3.5	
5/21/2019	3.3	
9/4/2019	3.33	
2/12/2020	4.1	
9/9/2020	3.4	
4/13/2021	3.56	
10/4/2021		3.37
4/13/2022		3.01
8/16/2022		3.47
1/18/2023		3.8

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Chloride (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-14S	GN-GSA-MW-14S
7/5/2016	3.86	
8/23/2016	4.69	
9/7/2016	4.6	
11/8/2016	4.68	
1/3/2017	5.25	
2/21/2017	4.3	
5/31/2017	4.2	
7/5/2017	3.4	
9/5/2017	4.5	
6/12/2018	3.6	
10/23/2018	3.4	
5/22/2019	2.89	
9/4/2019	2.88	
2/12/2020	2.4	
9/9/2020	2.49	
4/13/2021	2.56	
10/4/2021		2.5
4/13/2022		2.42
8/16/2022		2.54
1/17/2023		2.58

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Chloride (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-15	GN-GSA-MW-15
7/6/2016	3.78	
8/23/2016	3.47	
9/7/2016	3.4	
11/8/2016	3.29	
1/3/2017	3.11	
2/20/2017	2.7	
5/31/2017	2.3	
7/5/2017	2	
9/5/2017	<2 (U*)	
6/12/2018	2	
10/23/2018	1.5 (J)	
5/22/2019	1.75	
9/4/2019	1.95	
2/12/2020	1.8	
9/9/2020	1.95	
4/13/2021	1.86	
10/6/2021		2.07
4/12/2022		1.88
8/16/2022		2.27
1/17/2023		2.11

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Chloride (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-2	GN-GSA-MW-2
3/23/2016	3.6	
5/10/2016	4.18	
7/5/2016	3.12	
9/6/2016	3.21	
11/8/2016	3.33	
2/21/2017	4.6	
5/31/2017	3.8	
7/5/2017	3.4	
9/5/2017	4.4	
6/12/2018	3.4	
10/22/2018	3.6	
5/20/2019	3.53	
9/4/2019	3.56	
2/12/2020	3.66	
9/9/2020	3.44	
4/13/2021	3.55	
10/4/2021		3.59
4/12/2022		3.23
8/16/2022		3.66
1/17/2023		4.76

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Chloride (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-3	GN-GSA-MW-3
3/23/2016	3.67	
5/10/2016	3.34	
7/6/2016	3.08	
9/7/2016	2.95	
11/8/2016	2.92	
2/20/2017	3.3	
5/31/2017	2.9	
7/5/2017	2.6	
9/5/2017	3.5	
6/12/2018	3.1	
10/23/2018	2.6	
5/22/2019	2.83	
9/4/2019	2.92	
2/12/2020	2.49	
9/9/2020	2.74	
4/13/2021	2.76	
10/4/2021		2.88
4/12/2022		2.67
8/16/2022		3.08
1/18/2023		2.84

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Chloride (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-5	GN-GSA-MW-5
3/23/2016	4.84	
5/11/2016	4.19	
7/6/2016	4.67	
9/6/2016	4.23	
11/8/2016	4.51	
2/20/2017	5.8	
5/30/2017	13	
7/5/2017	17	
9/7/2017	17	
6/11/2018	14	
10/22/2018	14	
5/20/2019	12.9	
9/4/2019	11.9	
2/11/2020	11.2	
9/8/2020	11.7	
4/13/2021	9.78	
10/4/2021		9.45
4/12/2022		7.35
8/16/2022		9.72
1/18/2023		9.67

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Chloride (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-6	GN-GSA-MW-6
3/23/2016	3.36	
5/11/2016	3.04	
7/6/2016	2.86	
9/6/2016	2.92	
11/8/2016	3.01	
2/20/2017	3.7	
5/30/2017	3.2	
7/5/2017	2.8	
9/7/2017	<2 (U*)	
6/11/2018	2.7	
10/22/2018	2.6	
5/20/2019	3.15	
9/4/2019	3.21	
2/11/2020	3.36	
9/8/2020	3.29	
4/13/2021	3.54	
10/4/2021		3.61
4/12/2022		3.38
8/16/2022		3.64
1/18/2023		3.69

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Chloride (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-7	GN-GSA-MW-7
3/23/2016	3.28	
5/11/2016	3.08	
7/6/2016	2.96	
9/6/2016	2.97	
11/8/2016	3.22	
2/20/2017	4	
5/31/2017	4.3	
7/5/2017	3.4	
9/7/2017	4	
6/11/2018	3.6	
10/22/2018	3.7	
5/20/2019	3.25	
9/4/2019	4.31	
2/11/2020	3.69	
9/9/2020	3.34	
4/13/2021	3.64	
10/4/2021		3.48
4/12/2022		3.29
8/16/2022		3.8
1/17/2023		3.65



# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Chloride (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-8	GN-GSA-MW-8
3/24/2016	1.73	
5/11/2016	1.68	
7/6/2016	1.68	
9/6/2016	1.7	
11/8/2016	2.03	
2/20/2017	2.3	
5/30/2017	2.2	
7/5/2017	1.6 (J)	
9/7/2017	<2 (U*)	
6/12/2018	1.9 (J)	
10/22/2018	<2	
5/21/2019	1.51	
9/3/2019	1.64	
2/12/2020	1.64	
9/9/2020	1.61	
4/13/2021	1.64	
10/4/2021		1.76
4/12/2022		1.54
8/16/2022		1.69
1/18/2023		1.71

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Chloride (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-9	GN-GSA-MW-9
3/23/2016	2.26	
5/11/2016	2.26	
7/6/2016	2.28	
9/7/2016	2.32	
11/8/2016	2.26	
2/21/2017	2.9	
5/30/2017	2.9	
7/5/2017	2.7	
9/7/2017	<2 (U*)	
6/12/2018	2.6	
10/22/2018	2	
5/21/2019	2.12	
9/3/2019	2.26	
2/12/2020	2.24	
9/8/2020	2.06	
4/13/2021	2.14	
10/5/2021		2.16
4/12/2022		1.91
8/17/2022		2.13
1/18/2023		2.01

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Sulfate (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney

Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-1	GN-GSA-MW-1
3/24/2016	6.06	
5/10/2016	5.47	
7/5/2016	4.8	
9/6/2016	3.91	
11/8/2016	2.95	
2/22/2017	3.3 (J)	
5/31/2017	3.4 (J)	
7/5/2017	3.4 (J)	
9/7/2017	3.6 (J)	
6/12/2018	4.2 (J)	
10/23/2018	3 (J)	
5/21/2019	4.58	
9/4/2019	4.82	
2/12/2020	5.11	
9/9/2020	3.97	
4/13/2021	4.43	
10/4/2021		4.08
4/13/2022		4.24
8/18/2022		4.84
1/17/2023		4.25

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Sulfate (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney

Plant Gaston Client: Southern Company Data: Gaston GSA

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	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 (o)	
9/7/2017	1.7 (J)	
6/12/2018	1.8 (J)	
10/24/2018	<5 (o)	
5/21/2019	1.72	
9/3/2019	1.73	
2/12/2020	1.65	
9/8/2020	1.62	
4/13/2021	1.68	
10/5/2021		1.8
4/13/2022		1.68 (J)
8/17/2022		2.24
1/18/2023		1.96 (J)

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Sulfate (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney

Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-11	GN-GSA-MW-11
3/23/2016	7.59	
5/11/2016	6.6	
7/6/2016	11.8	
9/7/2016	14.9	
11/9/2016	4.5	
2/21/2017	5.7	
5/31/2017	5.6	
7/5/2017	4.6 (J)	
9/7/2017	6.2	
6/12/2018	3.5 (J)	
10/24/2018	2.4 (J)	
5/21/2019	3.55	
9/3/2019	2.83	
2/12/2020	3.89	
9/9/2020	3.01	
4/13/2021	2.77	
10/5/2021		2.86
4/13/2022		2.73
8/17/2022		2.29
1/18/2023		2.95

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Sulfate (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-12	GN-GSA-MW-12
3/23/2016	16.2	
5/10/2016	12.1	
7/6/2016	7.7	
9/6/2016	6.97	
11/9/2016	5.77	
2/21/2017	12	
5/31/2017	8.7	
7/5/2017	7.7	
9/7/2017	7	
6/12/2018	8.7	
10/23/2018	4.8 (J)	
5/21/2019	7.81	
9/4/2019	6.25	
2/12/2020	13.1	
9/9/2020	5.85	
4/13/2021	8.86	
10/5/2021		8.02
4/13/2022		8.25
8/18/2022		6.66
1/18/2023		15.6

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Sulfate (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney

Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-13	GN-GSA-MW-13
3/24/2016	7.64	
5/10/2016	6.79	
7/6/2016	7.59	
9/6/2016	9.56	
11/8/2016	8.87	
2/22/2017	10	
5/31/2017	8	
7/5/2017	8.2	
9/7/2017	8.3	
6/12/2018	8.3	
10/23/2018	6.7	
5/21/2019	8.29	
9/4/2019	8.18	
2/12/2020	9.06	
9/9/2020	7.89	
4/13/2021	8.38	
10/4/2021		7.18
4/13/2022		7.27
8/16/2022		8.54
1/18/2023		8.51

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Sulfate (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-14S	GN-GSA-MW-14S
7/5/2016	11.7	
8/23/2016	13.7	
9/7/2016	12.4	
11/8/2016	12.9	
1/3/2017	14.1	
2/21/2017	6.1	
5/31/2017	8	
7/5/2017	3.8 (J)	
9/5/2017	6.8	
6/12/2018	5	
10/23/2018	5.4	
5/22/2019	5.57	
9/4/2019	6.37	
2/12/2020	3.09	
9/9/2020	5.26	
4/13/2021	3.45	
10/4/2021		3.78
4/13/2022		2.44
8/16/2022		4.71
1/17/2023		2.83



# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Sulfate (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	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 (o)	
5/22/2019	2.82	
9/4/2019	2.3	
2/12/2020	1.77	
9/9/2020	2	
4/13/2021	2.51	
10/6/2021		2.15
4/12/2022		1.76 (J)
8/16/2022		3.73
1/17/2023		1.99 (J)

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Sulfate (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-2	GN-GSA-MW-2
3/23/2016	6.48	
5/10/2016	11.1	
7/5/2016	6.7	
9/6/2016	6.85	
11/8/2016	7.3	
2/21/2017	7.7	
5/31/2017	5.3	
7/5/2017	6.4	
9/5/2017	6.1	
6/12/2018	7.2	
10/22/2018	8.3	
5/20/2019	7.52	
9/4/2019	9.25	
2/12/2020	10.7	
9/9/2020	7.77	
4/13/2021	7.44	
10/4/2021		6.86
4/12/2022		8.36
8/16/2022		8.31
1/17/2023		6.01

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Sulfate (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney

Plant Gaston Client: Southern Company Data: Gaston GSA

---

	GN-GSA-MW-3	GN-GSA-MW-3
3/23/2016	32.6	
5/10/2016	27.6	
7/6/2016	23.6	
9/7/2016	22.2	
11/8/2016	20.4	
2/20/2017	14	
5/31/2017	15	
7/5/2017	11	
9/5/2017	17	
6/12/2018	14	
10/23/2018	12	
5/22/2019	11	
9/4/2019	10.9	
2/12/2020	9.13	
9/9/2020	8.76	
4/13/2021	7.88	
10/4/2021		8.09
4/12/2022		7.36
8/16/2022		7.79
1/18/2023		7.56

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Sulfate (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney

Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-5	GN-GSA-MW-5
3/23/2016	14.1	
5/11/2016	13.5	
7/6/2016	17.1	
9/6/2016	11.2	
11/8/2016	10.9	
2/20/2017	8.8	
5/30/2017	12	
7/5/2017	19	
9/7/2017	33	
6/11/2018		47
10/22/2018		40
5/20/2019		75.6
9/4/2019		56.3
2/11/2020		79.7
9/8/2020		113
4/13/2021		108
10/4/2021		115
4/12/2022		145
8/16/2022		142
1/18/2023		121

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Sulfate (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
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	<2	
9/7/2017	<2	
6/11/2018	<2	
10/22/2018	<2	
5/20/2019	<2	
9/4/2019	<2	
2/11/2020	<2	
9/8/2020	<2	
4/13/2021	<2	
10/4/2021		<2
4/12/2022		<2
8/16/2022		<2
1/18/2023		<2

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Sulfate (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-7	GN-GSA-MW-7
3/23/2016	13.8	
5/11/2016	11.9	
7/6/2016	11.1	
9/6/2016	10.6	
11/8/2016	12.1	
2/20/2017	9.7	
5/31/2017	11	
7/5/2017	8.3	
9/7/2017	8.6	
6/11/2018	7.5	
10/22/2018	8.8	
5/20/2019	6.85	
9/4/2019	10.1	
2/11/2020	8.5	
9/9/2020	7.13	
4/13/2021	6.37	
10/4/2021		6.02
4/12/2022		5.75
8/16/2022		6.63
1/17/2023		6.1

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Sulfate (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney

Plant Gaston Client: Southern Company Data: Gaston GSA

---

	GN-GSA-MW-8	GN-GSA-MW-8
3/24/2016	2.42	
5/11/2016	2.16	
7/6/2016	1.7	
9/6/2016	1.31	
11/8/2016	1.4	
2/20/2017	2 (J)	
5/30/2017	1.6 (J)	
7/5/2017	1.9 (J)	
9/7/2017	2.1 (J)	
6/12/2018		2.7 (J)
10/22/2018		2.2 (J)
5/21/2019		3.39
9/3/2019		4.15
2/12/2020		4.31
9/9/2020		3.67
4/13/2021		4.49
10/4/2021		5.05
4/12/2022		3.13
8/16/2022		5.27
1/18/2023		3.71

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Sulfate (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney

Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-9	GN-GSA-MW-9
3/23/2016	5.54	
5/11/2016	5.66	
7/6/2016	5.62	
9/7/2016	5.31	
11/8/2016	4.42	
2/21/2017	5.3	
5/30/2017	5.2	
7/5/2017	4.4 (J)	
9/7/2017	5.9	
6/12/2018	5.7	
10/22/2018	5.1	
5/21/2019	6.07	
9/3/2019	6.53	
2/12/2020	5.67	
9/8/2020	5.42	
4/13/2021	4.65	
10/5/2021		4.08
4/12/2022		4.09
8/17/2022		4.58
1/18/2023		3.93



# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: TDS (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

---

	GN-GSA-MW-1	GN-GSA-MW-1
3/24/2016	203	
5/10/2016	204	
7/5/2016	188	
9/6/2016	188	
11/8/2016	197	
2/22/2017	165	
5/31/2017	244	
7/5/2017	201	
9/7/2017	196	
6/12/2018	221	
10/23/2018	195 (D)	
5/21/2019	244	
9/4/2019	200	
2/12/2020	219	
9/9/2020	221	
4/13/2021	237	
10/4/2021		221
4/13/2022		217
8/18/2022		214
1/17/2023		199

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: TDS (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-10	GN-GSA-MW-10
3/24/2016	239	
5/11/2016	257	
7/6/2016	256	
9/6/2016	245	
11/9/2016	258	
2/21/2017	243	
5/31/2017	252	
7/5/2017	257	
9/7/2017	259	
6/12/2018		266
10/24/2018		265 (D)
5/21/2019		274
9/3/2019		260
2/12/2020		259
9/8/2020		275
4/13/2021		273
10/5/2021		293
4/13/2022		273
8/17/2022		265
1/18/2023		266

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: TDS (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-11	GN-GSA-MW-11
3/23/2016	56.7	
5/11/2016	54.7	
7/6/2016	76	
9/7/2016	96	
11/9/2016	57.3	
2/21/2017	76.7	
5/31/2017	75.3	
7/5/2017	80	
9/7/2017	105	
6/12/2018	72	
10/24/2018	68 (D)	
5/21/2019	66	
9/3/2019	51.3	
2/12/2020	66	
9/9/2020	59.3	
4/13/2021	66	
10/5/2021		92.7
4/13/2022		84
8/17/2022		76
1/18/2023		68

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: TDS (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-12	GN-GSA-MW-12
3/23/2016	237	
5/10/2016	226	
7/6/2016	191	
9/6/2016	200	
11/9/2016	190	
2/21/2017	264	
5/31/2017	242	
7/5/2017	231	
9/7/2017	225	
6/12/2018	230	
10/23/2018	201 (D)	
5/21/2019	231	
9/4/2019	217	
2/12/2020	256	
9/9/2020	230	
4/13/2021	260	
10/5/2021		255
4/13/2022		250
8/18/2022		252
1/18/2023		262

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: TDS (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-13	GN-GSA-MW-13
3/24/2016	244	
5/10/2016	247	
7/6/2016	247	
9/6/2016	264	
11/8/2016	173	
2/22/2017	260	
5/31/2017	277	
7/5/2017	296	
9/7/2017	294	
6/12/2018	282	
10/23/2018	279 (D)	
5/21/2019	286	
9/4/2019	271	
2/12/2020	282	
9/9/2020	271	
4/13/2021	286	
10/4/2021		277
4/13/2022		266
8/16/2022		264
1/18/2023		280

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: TDS (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-14S	GN-GSA-MW-14S
7/5/2016	194	
8/23/2016	208	
9/7/2016	198	
11/8/2016	205	
1/3/2017	221	
2/21/2017	195	
5/31/2017	220	
7/5/2017	185	
9/5/2017	202	
6/12/2018	205	
10/23/2018	204 (D)	
5/22/2019	202	
9/4/2019	195	
2/12/2020	189	
9/9/2020	198	
4/13/2021	191	
10/4/2021		183
4/13/2022		187
8/16/2022		162
1/17/2023		189

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: TDS (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

---

	GN-GSA-MW-15	GN-GSA-MW-15
7/6/2016	55.3	
8/23/2016	45.3	
9/7/2016	37.3	
11/8/2016	40.7	
1/3/2017	47.3	
2/20/2017	55.3	
5/31/2017	46.7	
7/5/2017	41.3	
9/5/2017	34.7	
6/12/2018	38	
10/23/2018	27.3 (D)	
5/22/2019	35.3	
9/4/2019	28	
2/12/2020	30.7	
9/9/2020	32.7	
4/13/2021	35.3	
10/6/2021		<25
4/12/2022		27.3
8/16/2022		27.299999
1/17/2023		28

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: TDS (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

---

	GN-GSA-MW-2	GN-GSA-MW-2
3/23/2016	272	
5/10/2016	283	
7/5/2016	294	
9/6/2016	295	
11/8/2016	310	
2/21/2017	280	
5/31/2017	287	
7/5/2017	287	
9/5/2017	280	
6/12/2018	284	
10/22/2018	278 (D)	
5/20/2019	286	
9/4/2019	297	
2/12/2020	276	
9/9/2020	272	
4/13/2021	283	
10/4/2021		287
4/12/2022		271
8/16/2022		280
1/17/2023		270



# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: TDS (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-3	GN-GSA-MW-3
3/23/2016	334	
5/10/2016	349	
7/6/2016	316	
9/7/2016	309	
11/8/2016	302	
2/20/2017	297	
5/31/2017	287	
7/5/2017	283	
9/5/2017	284	
6/12/2018	248	
10/23/2018	215 (D)	
5/22/2019	184	
9/4/2019	225	
2/12/2020	250	
9/9/2020	220	
4/13/2021	196	
10/4/2021		168
4/12/2022		156
8/16/2022		164
1/18/2023		246

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: TDS (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-5	GN-GSA-MW-5
3/23/2016	185	
5/11/2016	176	
7/6/2016	203	
9/6/2016	180	
11/8/2016	187	
2/20/2017	205	
5/30/2017	187	
7/5/2017	238	
9/7/2017	269	
6/11/2018		312
10/22/2018		292 (D)
5/20/2019		398
9/4/2019		388
2/11/2020		308
9/8/2020		360
4/13/2021		350
10/4/2021		379
4/12/2022		400
8/16/2022		376
1/18/2023		362

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: TDS (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-6	GN-GSA-MW-6
3/23/2016	27.3	
5/11/2016	<25	
7/6/2016	<25	
9/6/2016	<25	
11/8/2016	<25	
2/20/2017	30	
5/30/2017	<25	
7/5/2017	26	
9/7/2017	<25	
6/11/2018	<25	
10/22/2018	<25 (D)	
5/20/2019	27.3	
9/4/2019	<25	
2/11/2020	<25	
9/8/2020	<25	
4/13/2021	26	
10/4/2021		32
4/12/2022		<25
8/16/2022		<25
1/18/2023		<25

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: TDS (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-7	GN-GSA-MW-7
3/23/2016	202	
5/11/2016	207	
7/6/2016	202	
9/6/2016	204	
11/8/2016	212	
2/20/2017	251	
5/31/2017	234	
7/5/2017	229	
9/7/2017	225	
6/11/2018	210	
10/22/2018	209 (D)	
5/20/2019	218	
9/4/2019	233	
2/11/2020	241	
9/9/2020	234	
4/13/2021	220	
10/4/2021		232
4/12/2022		214
8/16/2022		212
1/17/2023		218

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: TDS (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-8	GN-GSA-MW-8
3/24/2016	179	
5/11/2016	195	
7/6/2016	192	
9/6/2016	193	
11/8/2016	198	
2/20/2017	195	
5/30/2017	184	
7/5/2017	194	
9/7/2017	193	
6/12/2018	186	
10/22/2018	184 (D)	
5/21/2019	185	
9/3/2019	184	
2/12/2020	182	
9/9/2020	192	
4/13/2021	186	
10/4/2021		203
4/12/2022		176
8/16/2022		162
1/18/2023		172

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: TDS (mg/L) Analysis Run 10/2/2023 6:05 PM View: Appendix III - Mann-Whitney  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-9	GN-GSA-MW-9
3/23/2016	149	
5/11/2016	179	
7/6/2016	183	
9/7/2016	173	
11/8/2016	207	
2/21/2017	153	
5/30/2017	158	
7/5/2017	138	
9/7/2017	171	
6/12/2018	167	
10/22/2018	177 (D)	
5/21/2019	176	
9/3/2019	189	
2/12/2020	153	
9/8/2020	187	
4/13/2021	163	
10/5/2021		170
4/12/2022		155
8/17/2022		179
1/18/2023		152

FIGURE E.

# Upgradient Wells Trend Test - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 10/2/2023, 5:30 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Alpha</u>	<u>Method</u>
pH (pH)	GN-GSA-MW-15 (bg)	-0.06518	-146	-92	Yes	22	0	n/a	0.01	NP
pH (pH)	GN-GSA-MW-3 (bg)	-0.08319	-95	-92	Yes	22	0	n/a	0.01	NP



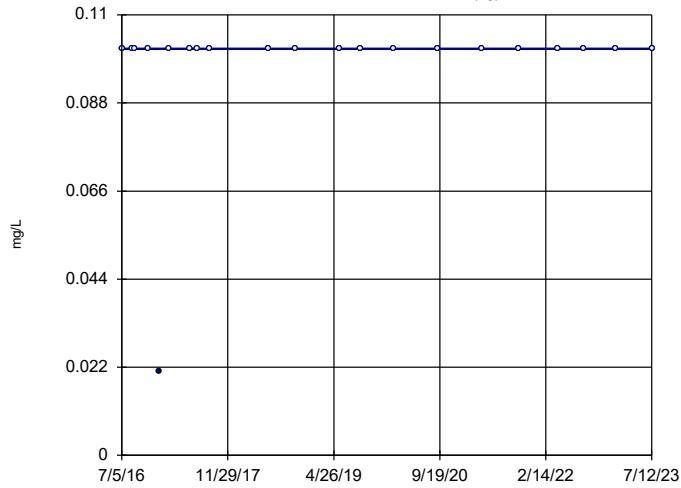
# Upgradient Wells Trend Test - All Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 10/2/2023, 5:30 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	GN-GSA-MW-14S (bg)	0	12	87	No	21	95.24	n/a	0.01	NP
Boron (mg/L)	GN-GSA-MW-15 (bg)	0	0	87	No	21	100	n/a	0.01	NP
Boron (mg/L)	GN-GSA-MW-2 (bg)	0	0	87	No	21	100	n/a	0.01	NP
Boron (mg/L)	GN-GSA-MW-3 (bg)	0	0	87	No	21	100	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-14S (bg)	0.005474	72	92	No	22	36.36	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-15 (bg)	0	80	92	No	22	77.27	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-2 (bg)	0.001872	70	92	No	22	54.55	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-3 (bg)	0	6	92	No	22	13.64	n/a	0.01	NP
pH (pH)	GN-GSA-MW-14S (bg)	-0.02094	-78	-92	No	22	0	n/a	0.01	NP
<b>pH (pH)</b>	<b>GN-GSA-MW-15 (bg)</b>	<b>-0.06518</b>	<b>-146</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH (pH)	GN-GSA-MW-2 (bg)	-0.01481	-86	-92	No	22	0	n/a	0.01	NP
<b>pH (pH)</b>	<b>GN-GSA-MW-3 (bg)</b>	<b>-0.08319</b>	<b>-95</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>

### Sen's Slope Estimator

GN-GSA-MW-14S (bg)

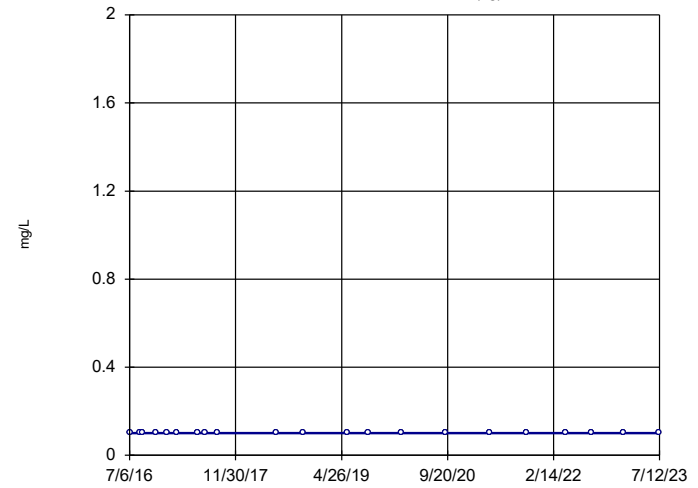


n = 21  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 12  
critical = 87  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Boron Analysis Run 10/2/2023 5:28 PM View: Upgradient Trend Tests  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

GN-GSA-MW-15 (bg)

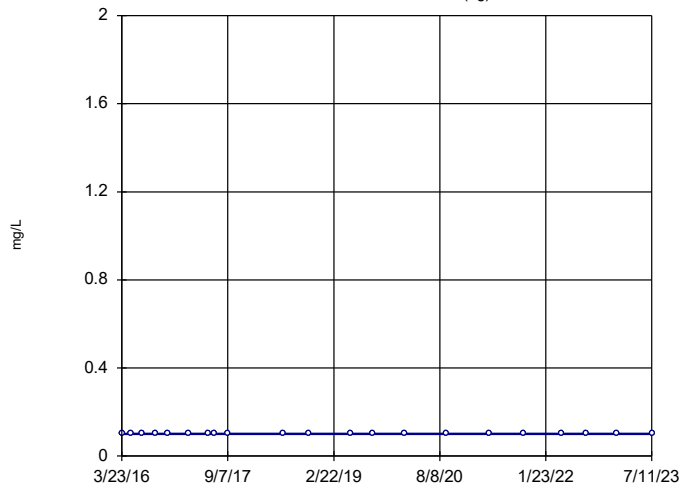


n = 21  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 87  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Boron Analysis Run 10/2/2023 5:28 PM View: Upgradient Trend Tests  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

GN-GSA-MW-2 (bg)

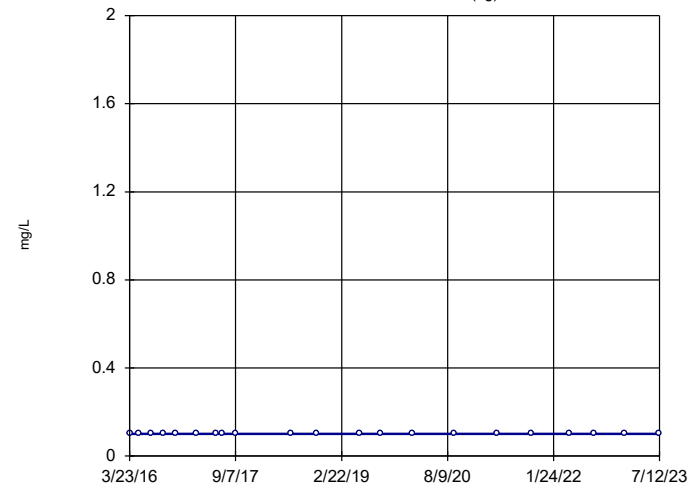


n = 21  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 87  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Boron Analysis Run 10/2/2023 5:28 PM View: Upgradient Trend Tests  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

GN-GSA-MW-3 (bg)

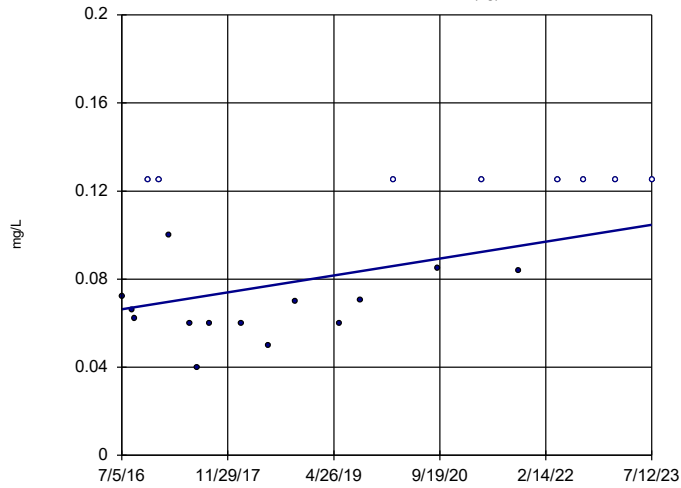


n = 21  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 87  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Boron Analysis Run 10/2/2023 5:28 PM View: Upgradient Trend Tests  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

GN-GSA-MW-14S (bg)

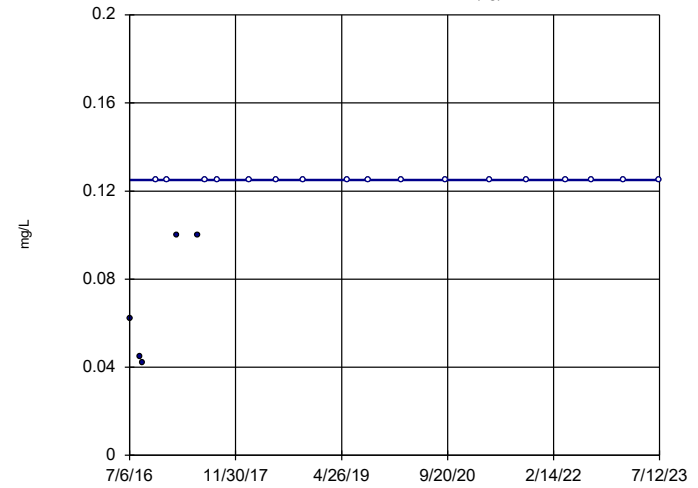


n = 22  
Slope = 0.005474  
units per year.  
Mann-Kendall  
statistic = 72  
critical = 92  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Fluoride Analysis Run 10/2/2023 5:28 PM View: Upgradient Trend Tests  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

GN-GSA-MW-15 (bg)

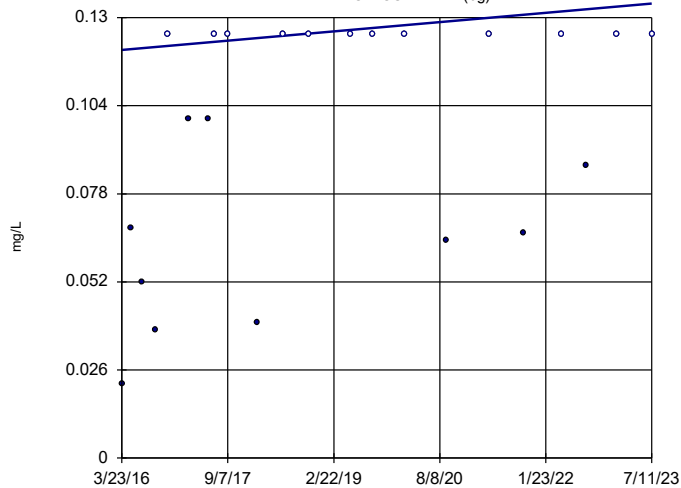


n = 22  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 80  
critical = 92  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Fluoride Analysis Run 10/2/2023 5:28 PM View: Upgradient Trend Tests  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

GN-GSA-MW-2 (bg)

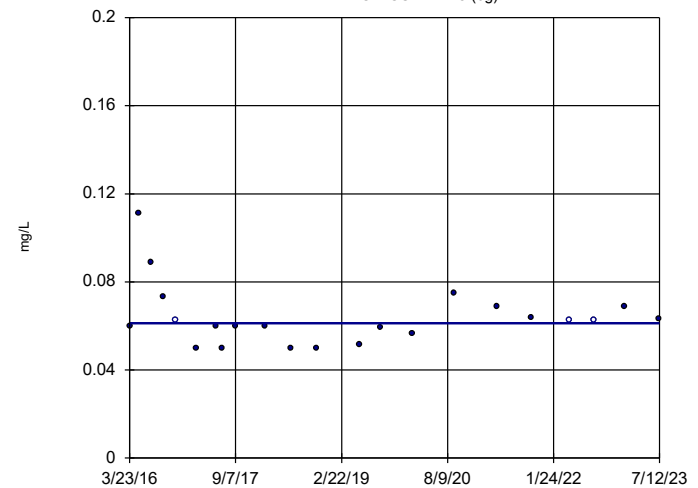


n = 22  
Slope = 0.001872  
units per year.  
Mann-Kendall  
statistic = 70  
critical = 92  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Fluoride Analysis Run 10/2/2023 5:28 PM View: Upgradient Trend Tests  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

GN-GSA-MW-3 (bg)

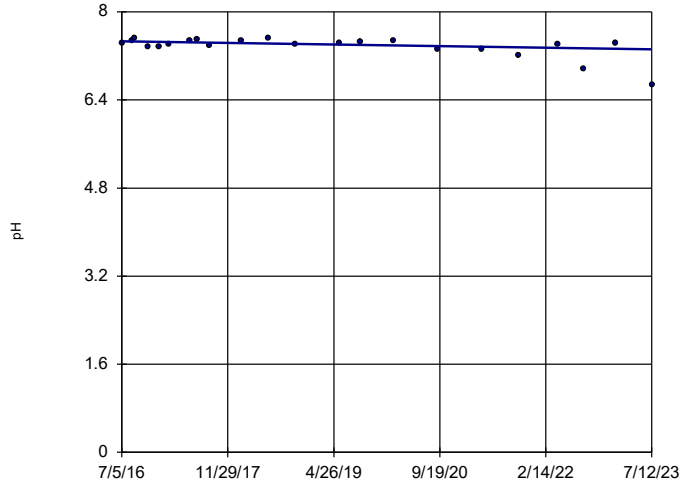


n = 22  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 6  
critical = 92  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Fluoride Analysis Run 10/2/2023 5:28 PM View: Upgradient Trend Tests  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

GN-GSA-MW-14S (bg)

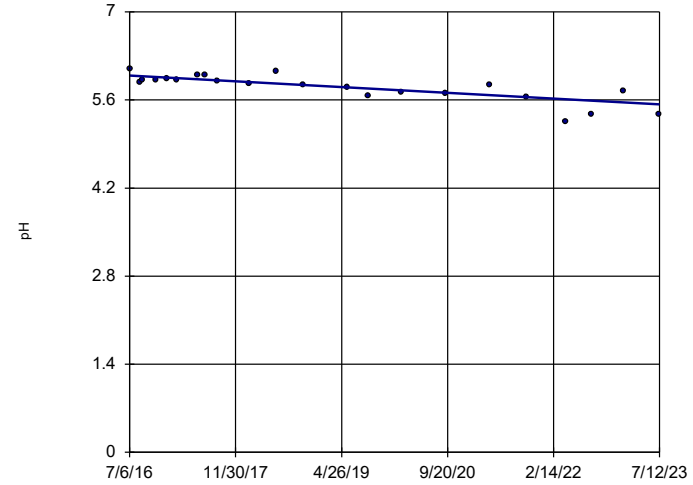


n = 22  
 Slope = -0.02094  
 units per year.  
 Mann-Kendall  
 statistic = -78  
 critical = -92  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH Analysis Run 10/2/2023 5:28 PM View: Upgradient Trend Tests  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

GN-GSA-MW-15 (bg)

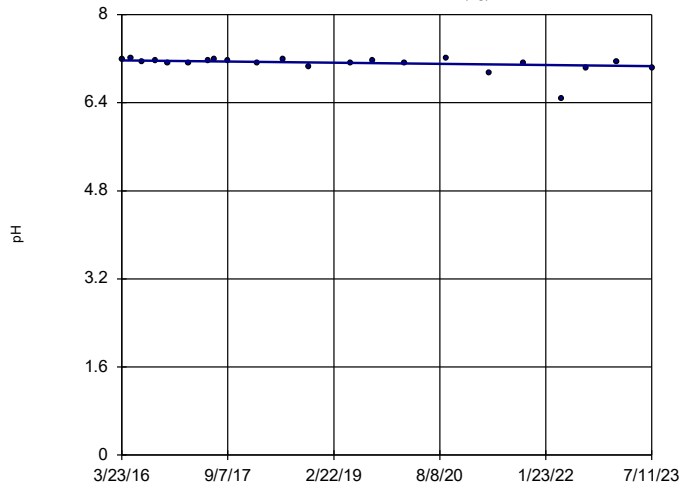


n = 22  
 Slope = -0.06518  
 units per year.  
 Mann-Kendall  
 statistic = -146  
 critical = -92  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH Analysis Run 10/2/2023 5:28 PM View: Upgradient Trend Tests  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

GN-GSA-MW-2 (bg)

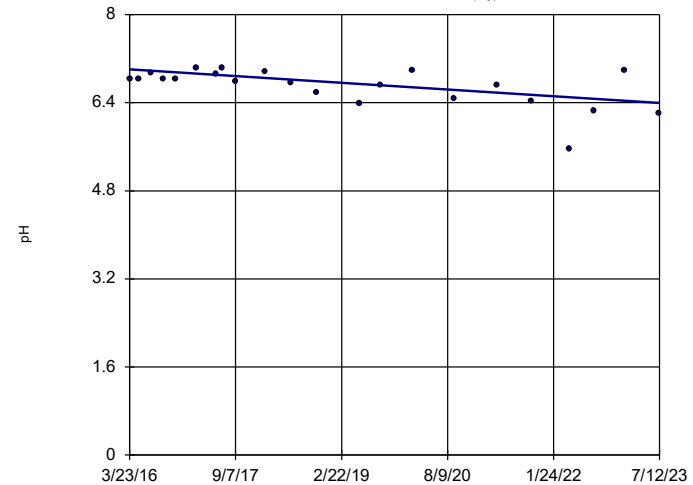


n = 22  
 Slope = -0.01481  
 units per year.  
 Mann-Kendall  
 statistic = -86  
 critical = -92  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH Analysis Run 10/2/2023 5:28 PM View: Upgradient Trend Tests  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

GN-GSA-MW-3 (bg)



n = 22  
 Slope = -0.08319  
 units per year.  
 Mann-Kendall  
 statistic = -95  
 critical = -92  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH Analysis Run 10/2/2023 5:29 PM View: Upgradient Trend Tests  
 Plant Gaston Client: Southern Company Data: Gaston GSA

FIGURE F.

# Appendix III Intrawell Prediction Limits - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 10/10/2023, 1:19 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform Alpha	Method
Calcium (mg/L)	GN-GSA-MW-5	71.16	n/a	7/10/2023	85	Yes	12	0	None	No 0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-11	7.709	n/a	7/11/2023	21.4	Yes	9	0	None	No 0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-15	5.223	n/a	7/12/2023	8.91	Yes	19	0	None	x^(1/3) 0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-5	41.19	n/a	7/10/2023	191	Yes	9	0	None	x^(1/3) 0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-8	2.935	n/a	7/11/2023	4.37	Yes	9	0	None	No 0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-5	269	n/a	7/10/2023	444	Yes	9	0	n/a	n/a 0.01809	NP Intra (normality) 1 of 2

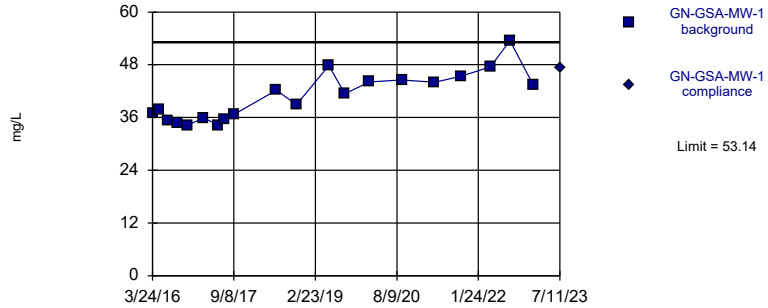
# Appendix III Intrawell Prediction Limits - All Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 10/10/2023, 1:19 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	GN-GSA-MW-1	53.14	n/a	7/11/2023	47.2	No	20	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-10	108.2	n/a	7/11/2023	103	No	16	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-11	16.48	n/a	7/11/2023	14.7	No	20	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-12	85.67	n/a	7/11/2023	81.1	No	16	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-13	110.4	n/a	7/11/2023	105	No	20	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-14S	59.05	n/a	7/12/2023	54	No	20	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-15	7.339	n/a	7/12/2023	3.81	No	10	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-2	97.46	n/a	7/11/2023	79.7	No	20	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-3	125	n/a	7/12/2023	78.4	No	20	0	None	No	0.0007523	Param Intra 1 of 2
<b>Calcium (mg/L)</b>	<b>GN-GSA-MW-5</b>	<b>71.16</b>	<b>n/a</b>	<b>7/10/2023</b>	<b>85</b>	<b>Yes</b>	<b>12</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0007523</b>	<b>Param Intra 1 of 2</b>
Calcium (mg/L)	GN-GSA-MW-6	0.9608	n/a	7/10/2023	0.589	No	14	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-7	79.99	n/a	7/10/2023	65.6	No	20	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-8	60.6	n/a	7/11/2023	55	No	20	0	None	No	0.0007523	Param Intra 1 of 2
Calcium (mg/L)	GN-GSA-MW-9	68.31	n/a	7/11/2023	48.1	No	20	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-1	3.522	n/a	7/11/2023	2.18	No	20	5	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-10	3.663	n/a	7/11/2023	2.82	No	20	5	None	x^2	0.0007523	Param Intra 1 of 2
<b>Chloride (mg/L)</b>	<b>GN-GSA-MW-11</b>	<b>7.709</b>	<b>n/a</b>	<b>7/11/2023</b>	<b>21.4</b>	<b>Yes</b>	<b>9</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0007523</b>	<b>Param Intra 1 of 2</b>
Chloride (mg/L)	GN-GSA-MW-12	5.696	n/a	7/11/2023	3.84	No	20	5	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-13	4.657	n/a	7/11/2023	3.69	No	20	0	None	sqrt(x)	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-14S	5.648	n/a	7/12/2023	2.36	No	20	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-15	3.986	n/a	7/12/2023	2.04	No	20	5	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-2	4.75	n/a	7/11/2023	3.58	No	20	0	None	x^(1/3)	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-3	3.658	n/a	7/12/2023	2.79	No	20	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-5	19.35	n/a	7/10/2023	8.17	No	20	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-6	4.093	n/a	7/10/2023	3.44	No	20	5	None	x^2	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-7	4.449	n/a	7/10/2023	3.33	No	20	0	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-8	2.383	n/a	7/11/2023	1.56	No	20	10	None	No	0.0007523	Param Intra 1 of 2
Chloride (mg/L)	GN-GSA-MW-9	2.982	n/a	7/11/2023	1.87	No	20	5	None	x^2	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-1	6.09	n/a	7/11/2023	4.01	No	20	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-10	2.24	n/a	7/11/2023	1.85J	No	18	0	n/a	n/a	0.005373	NP Intra (normality) 1 of 2
Sulfate (mg/L)	GN-GSA-MW-11	14.19	n/a	7/11/2023	1.97J	No	20	0	None	ln(x)	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-12	16.21	n/a	7/11/2023	9.46	No	20	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-13	10.08	n/a	7/11/2023	9.4	No	20	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-14S	8.742	n/a	7/12/2023	2.79	No	15	0	None	No	0.0007523	Param Intra 1 of 2
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-15</b>	<b>5.223</b>	<b>n/a</b>	<b>7/12/2023</b>	<b>8.91</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>None</b>	<b>x^(1/3)</b>	<b>0.0007523</b>	<b>Param Intra 1 of 2</b>
Sulfate (mg/L)	GN-GSA-MW-2	10.93	n/a	7/11/2023	6.77	No	20	0	None	No	0.0007523	Param Intra 1 of 2
Sulfate (mg/L)	GN-GSA-MW-3	18.26	n/a	7/12/2023	8.92	No	15	0	None	No	0.0007523	Param Intra 1 of 2
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-5</b>	<b>41.19</b>	<b>n/a</b>	<b>7/10/2023</b>	<b>191</b>	<b>Yes</b>	<b>9</b>	<b>0</b>	<b>None</b>	<b>x^(1/3)</b>	<b>0.0007523</b>	<b>Param Intra 1 of 2</b>
Sulfate (mg/L)	GN-GSA-MW-6	2	n/a	7/10/2023	0.94J	No	18	72.22	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	GN-GSA-MW-7	10.81	n/a	7/10/2023	5.64	No	13	0	None	No	0.0007523	Param Intra 1 of 2
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-8</b>	<b>2.935</b>	<b>n/a</b>	<b>7/11/2023</b>	<b>4.37</b>	<b>Yes</b>	<b>9</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0007523</b>	<b>Param Intra 1 of 2</b>
Sulfate (mg/L)	GN-GSA-MW-9	6.813	n/a	7/11/2023	4.18	No	20	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-1	253.8	n/a	7/11/2023	215	No	20	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-10	290.2	n/a	7/11/2023	268	No	20	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-11	104.7	n/a	7/11/2023	90.7	No	20	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-12	285.7	n/a	7/11/2023	258	No	20	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-13	311.6	n/a	7/11/2023	283	No	20	0	None	x^3	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-14S	226.6	n/a	7/12/2023	187	No	20	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-15	60.08	n/a	7/12/2023	32	No	20	5	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-2	306.3	n/a	7/11/2023	291	No	20	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-3	328	n/a	7/12/2023	227	No	13	0	None	No	0.0007523	Param Intra 1 of 2
<b>TDS (mg/L)</b>	<b>GN-GSA-MW-5</b>	<b>269</b>	<b>n/a</b>	<b>7/10/2023</b>	<b>444</b>	<b>Yes</b>	<b>9</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01809</b>	<b>NP Intra (normality) 1 of 2</b>
TDS (mg/L)	GN-GSA-MW-6	32	n/a	7/10/2023	25ND	No	20	70	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
TDS (mg/L)	GN-GSA-MW-7	252	n/a	7/10/2023	216	No	20	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-8	208.7	n/a	7/11/2023	182	No	20	0	None	No	0.0007523	Param Intra 1 of 2
TDS (mg/L)	GN-GSA-MW-9	206.6	n/a	7/11/2023	162	No	20	0	None	No	0.0007523	Param Intra 1 of 2

Within Limit

Prediction Limit  
Intrawell Parametric

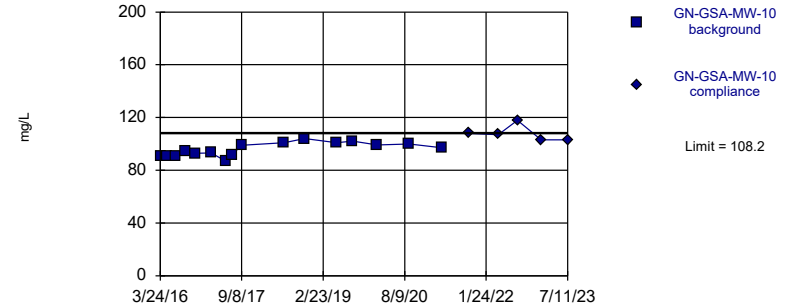


Background Data Summary: Mean=40.72, Std. Dev.=5.465, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9179, critical = 0.868. Kappa = 2.273 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Calcium Analysis Run 10/10/2023 1:17 PM View: Appendix III - Intrawell  
 Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit  
Intrawell Parametric

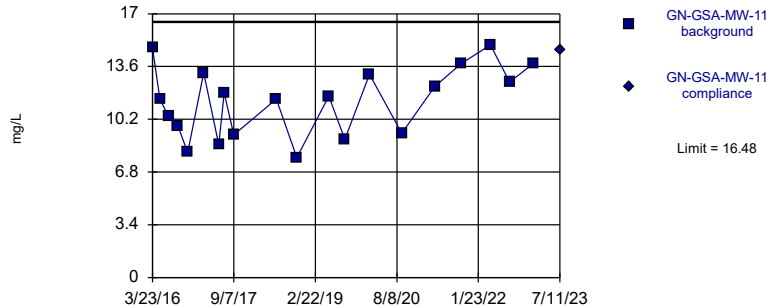


Background Data Summary: Mean=95.87, Std. Dev.=5.157, n=16. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9448, critical = 0.887. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Calcium Analysis Run 10/10/2023 1:17 PM View: Appendix III - Intrawell  
 Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit  
Intrawell Parametric

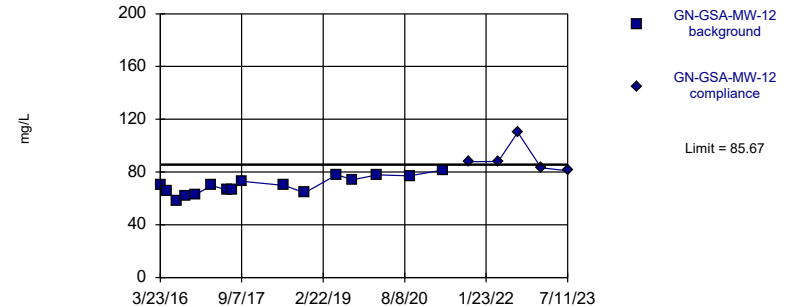


Background Data Summary: Mean=11.35, Std. Dev.=2.255, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9526, critical = 0.868. Kappa = 2.273 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Calcium Analysis Run 10/10/2023 1:17 PM View: Appendix III - Intrawell  
 Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit  
Intrawell Parametric



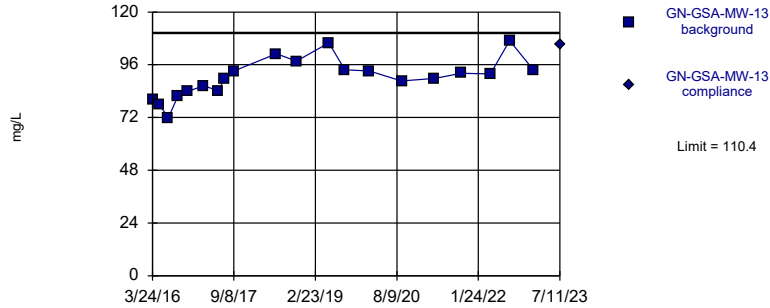
Background Data Summary: Mean=69.87, Std. Dev.=6.624, n=16. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9738, critical = 0.887. Kappa = 2.386 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Calcium Analysis Run 10/10/2023 1:17 PM View: Appendix III - Intrawell  
 Plant Gaston Client: Southern Company Data: Gaston GSA

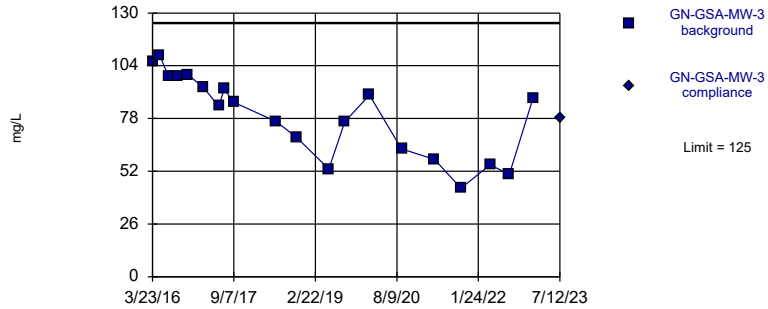


Within Limit

### Prediction Limit Intrawell Parametric



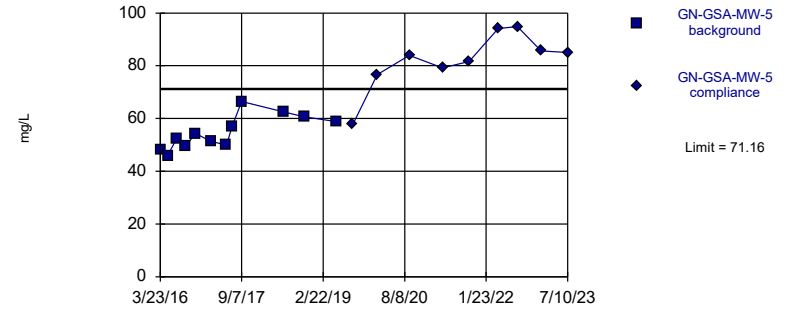
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=79.54, Std. Dev.=20.01, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9403, critical = 0.868. Kappa = 2.273 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Calcium Analysis Run 10/10/2023 1:17 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

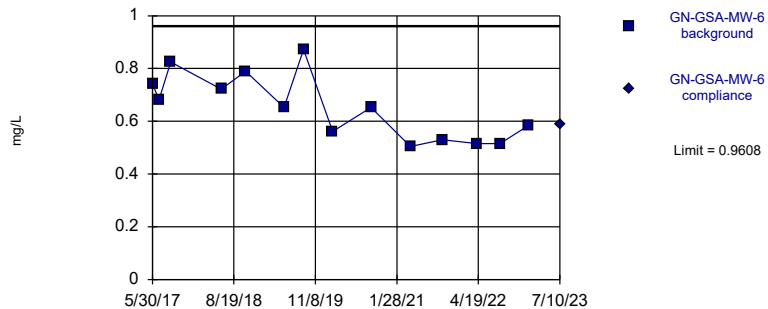
Exceeds Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=54.73, Std. Dev.=6.323, n=12. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.957, critical = 0.859. Kappa = 2.599 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Calcium Analysis Run 10/10/2023 1:17 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

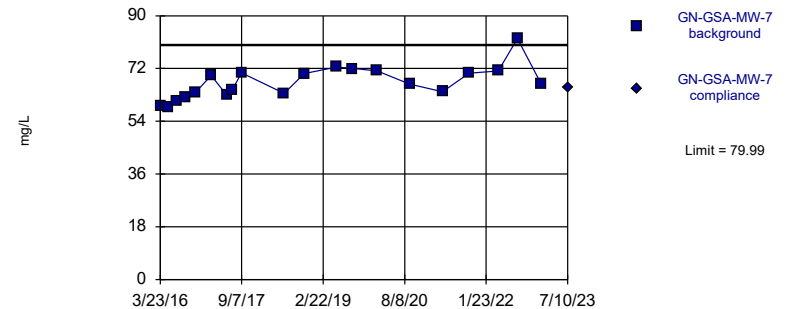
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.6534, Std. Dev.=0.1233, n=14. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9264, critical = 0.874. Kappa = 2.493 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

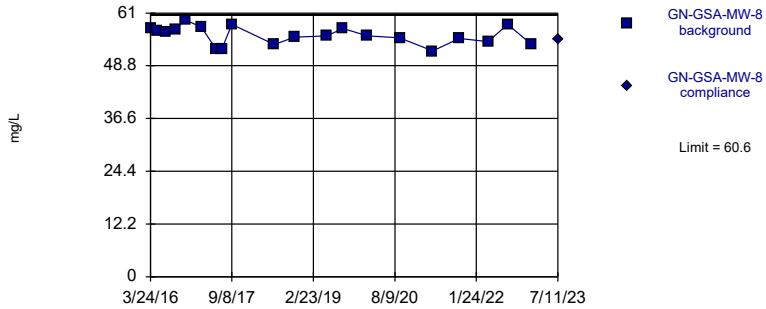
Constituent: Calcium Analysis Run 10/10/2023 1:17 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit Prediction Limit  
Intrawell Parametric



Within Limit

Prediction Limit  
Intrawell Parametric

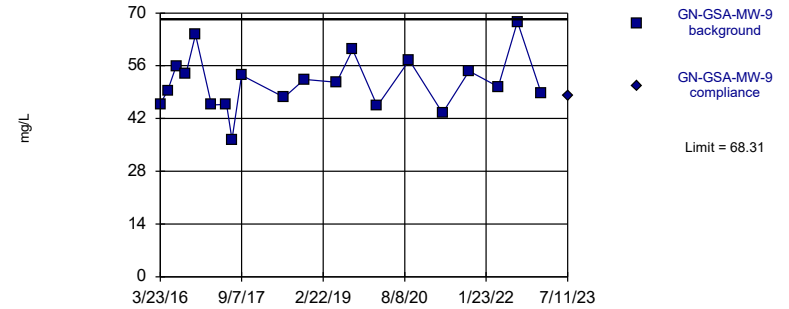


Background Data Summary: Mean=55.81, Std. Dev.=2.108, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9601, critical = 0.868. Kappa = 2.273 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Calcium Analysis Run 10/10/2023 1:17 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit  
Intrawell Parametric

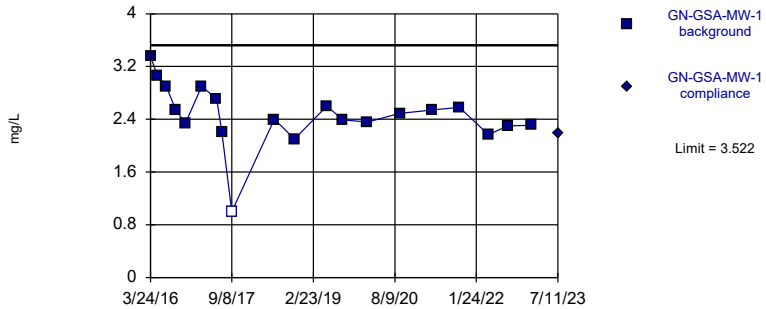


Background Data Summary: Mean=51.52, Std. Dev.=7.387, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9759, critical = 0.868. Kappa = 2.273 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Calcium Analysis Run 10/10/2023 1:17 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

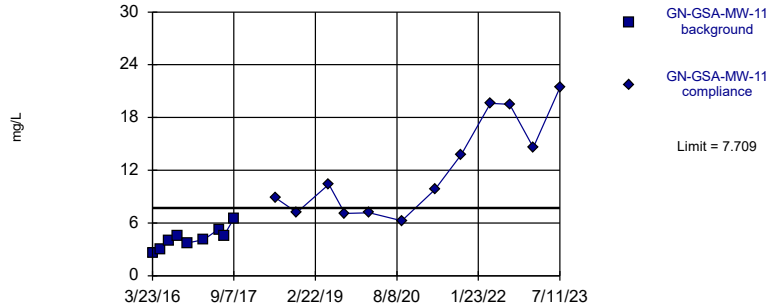
Within Limit

Prediction Limit  
Intrawell Parametric



Exceeds Limit

Prediction Limit  
Intrawell Parametric

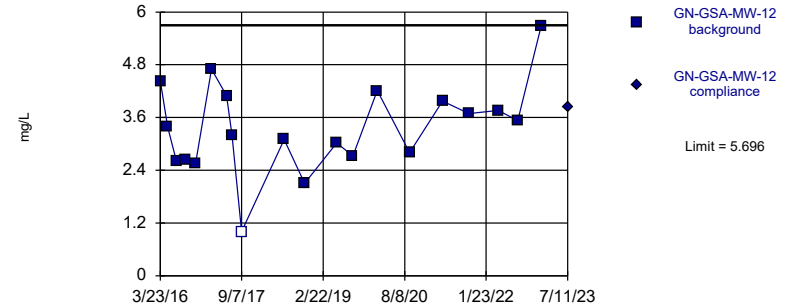


Background Data Summary: Mean=4.269, Std. Dev.=1.162, n=9. Normality test: Shapiro Wilk @alpha = 0.1, calculated = 0.9661, critical = 0.859. Kappa = 2.961 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Chloride Analysis Run 10/10/2023 1:17 PM View: Appendix III - Intrawell  
 Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit  
Intrawell Parametric

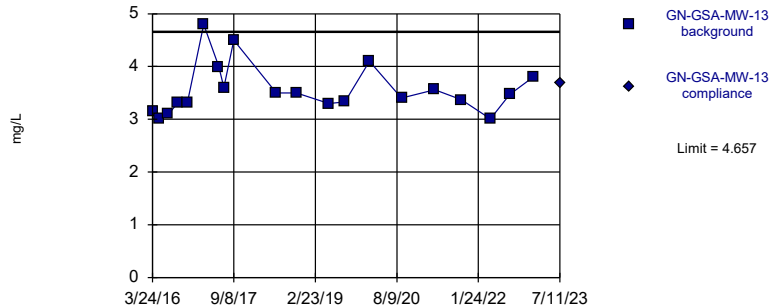


Background Data Summary: Mean=3.361, Std. Dev.=1.027, n=20, 5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9831, critical = 0.868. Kappa = 2.273 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Chloride Analysis Run 10/10/2023 1:17 PM View: Appendix III - Intrawell  
 Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit  
Intrawell Parametric

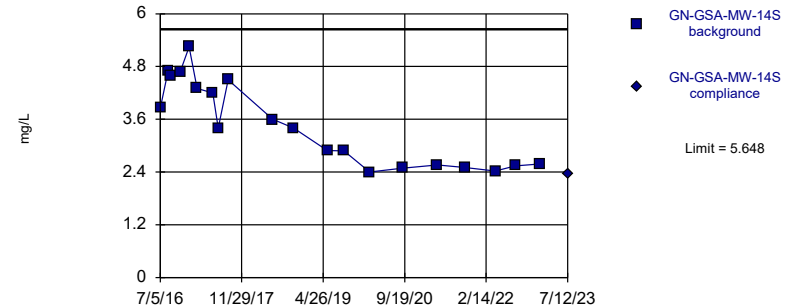


Background Data Summary (based on square root transformation): Mean=1.882, Std. Dev.=0.1212, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8867, critical = 0.868. Kappa = 2.273 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Chloride Analysis Run 10/10/2023 1:17 PM View: Appendix III - Intrawell  
 Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit  
Intrawell Parametric



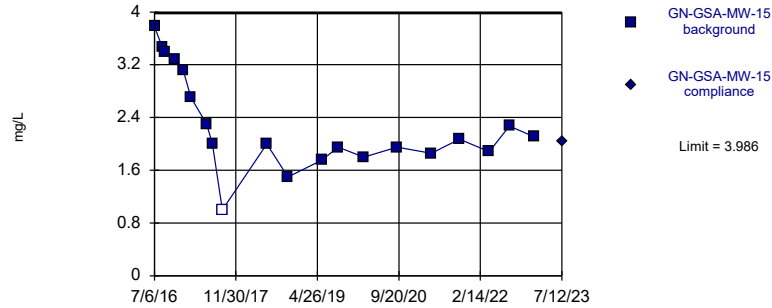
Background Data Summary: Mean=3.487, Std. Dev.=0.9507, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8876, critical = 0.868. Kappa = 2.273 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Chloride Analysis Run 10/10/2023 1:17 PM View: Appendix III - Intrawell  
 Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

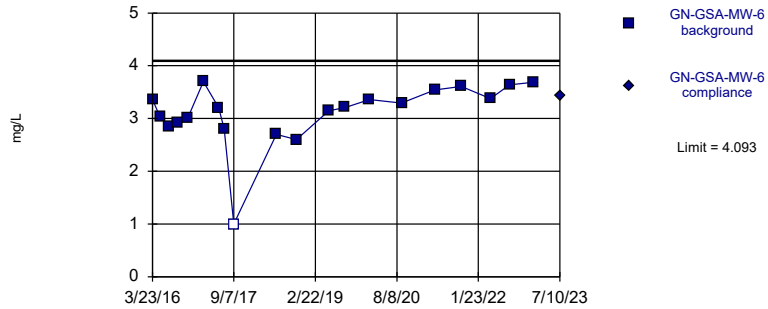
Intrawell Parametric



Within Limit

Prediction Limit

Intrawell Parametric



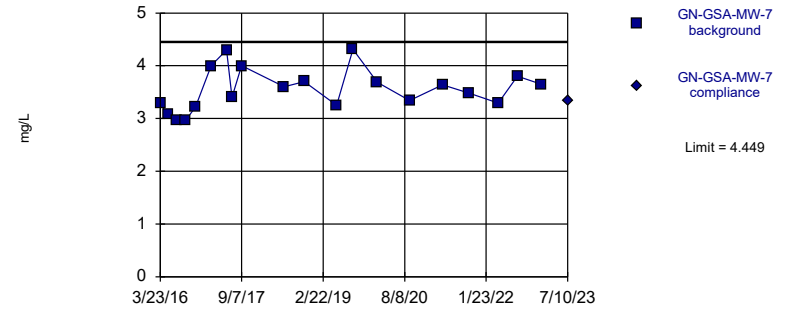
Background Data Summary (based on square transformation): Mean=9.966, Std. Dev.=2.987, n=20, 5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9001, critical = 0.868. Kappa = 2.273 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Chloride Analysis Run 10/10/2023 1:17 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



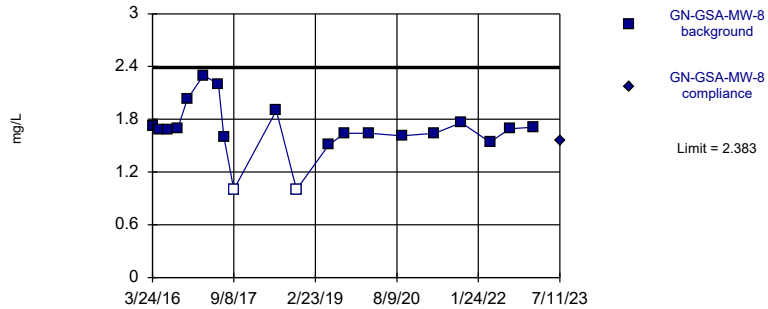
Background Data Summary: Mean=3.548, Std. Dev.=0.3965, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9539, critical = 0.868. Kappa = 2.273 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Chloride Analysis Run 10/10/2023 1:17 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric



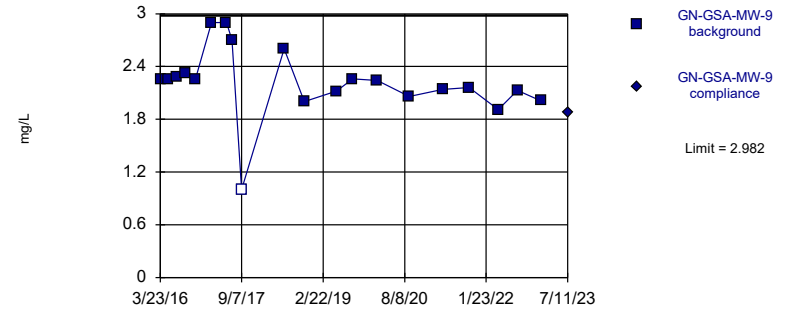
Background Data Summary: Mean=1.678, Std. Dev.=0.31, n=20, 10% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8776, critical = 0.868. Kappa = 2.273 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Chloride Analysis Run 10/10/2023 1:17 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit

Intrawell Parametric

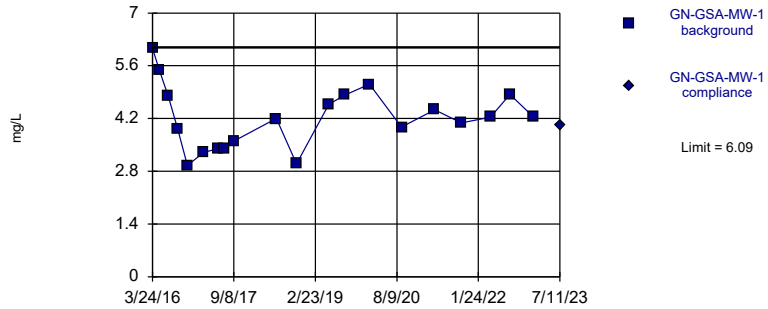


Background Data Summary (based on square transformation): Mean=5.105, Std. Dev.=1.665, n=20, 5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8903, critical = 0.868. Kappa = 2.273 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Chloride Analysis Run 10/10/2023 1:17 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit  
Intrawell Parametric

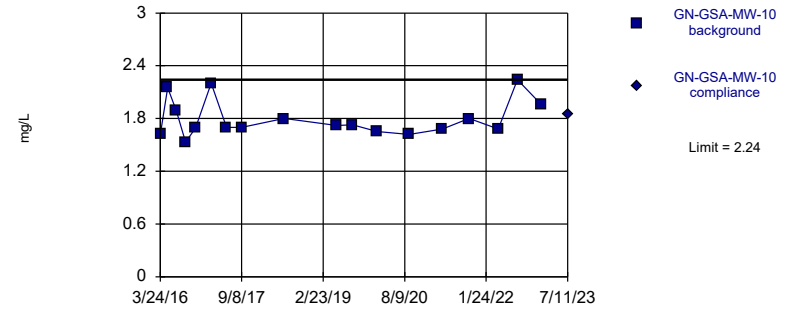


Background Data Summary: Mean=4.221, Std. Dev.=0.8224, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9738, critical = 0.868. Kappa = 2.273 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Sulfate Analysis Run 10/10/2023 1:17 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit  
Intrawell Non-parametric

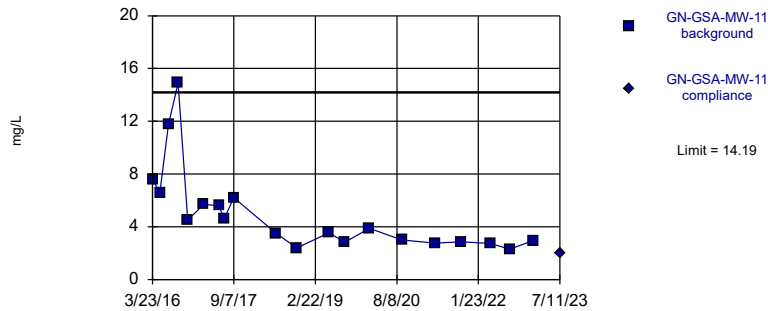


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 18 background values. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Sulfate Analysis Run 10/10/2023 1:17 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit  
Intrawell Parametric

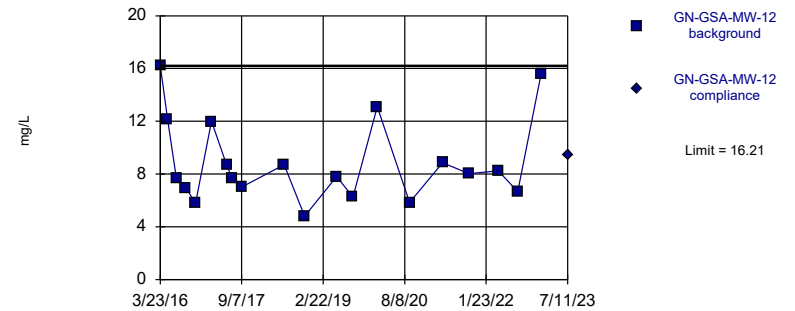


Background Data Summary (based on natural log transformation): Mean=1.464, Std. Dev.=0.5229, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9084, critical = 0.868. Kappa = 2.273 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Sulfate Analysis Run 10/10/2023 1:17 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit  
Intrawell Parametric

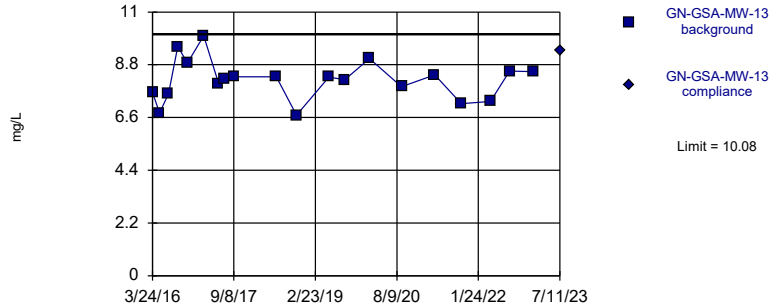


Background Data Summary: Mean=8.902, Std. Dev.=3.214, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8681, critical = 0.868. Kappa = 2.273 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Sulfate Analysis Run 10/10/2023 1:17 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

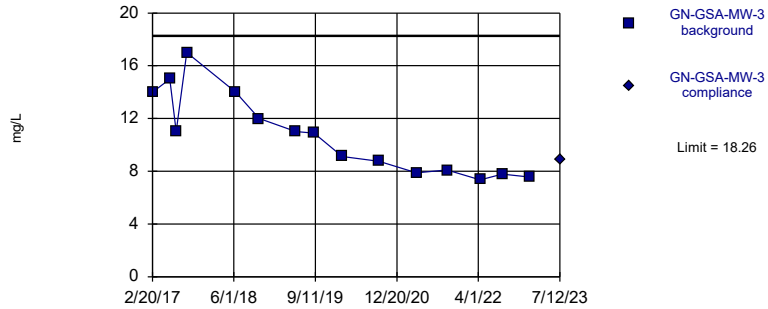
Prediction Limit  
Intrawell Parametric





Within Limit

Prediction Limit  
Intrawell Parametric

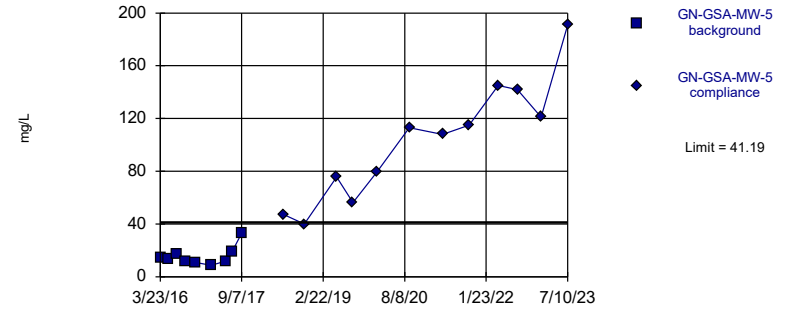


Background Data Summary: Mean=10.76, Std. Dev.=3.074, n=15. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9031, critical = 0.881. Kappa = 2.439 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Sulfate Analysis Run 10/10/2023 1:17 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

Exceeds Limit

Prediction Limit  
Intrawell Parametric

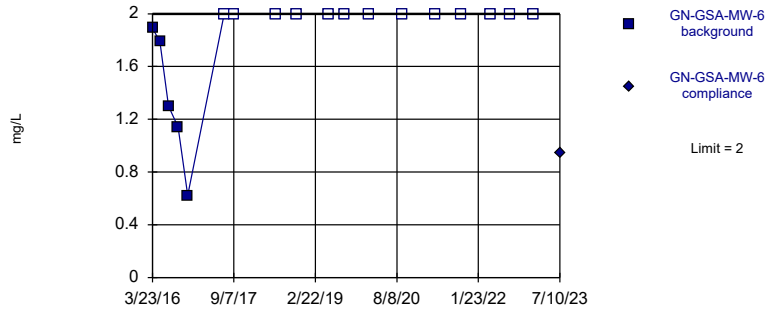


Background Data Summary (based on cube root transformation): Mean=2.451, Std. Dev.=0.3386, n=9. Normality test: Shapiro Wilk @alpha = 0.1, calculated = 0.8798, critical = 0.859. Kappa = 2.961 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Sulfate Analysis Run 10/10/2023 1:17 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit  
Intrawell Non-parametric

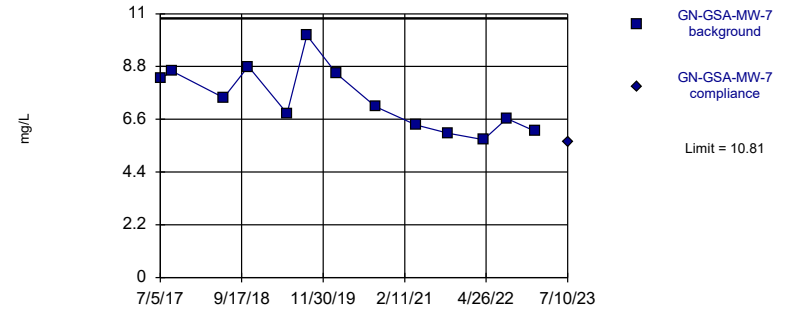


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 72.22% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Sulfate Analysis Run 10/10/2023 1:17 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit  
Intrawell Parametric

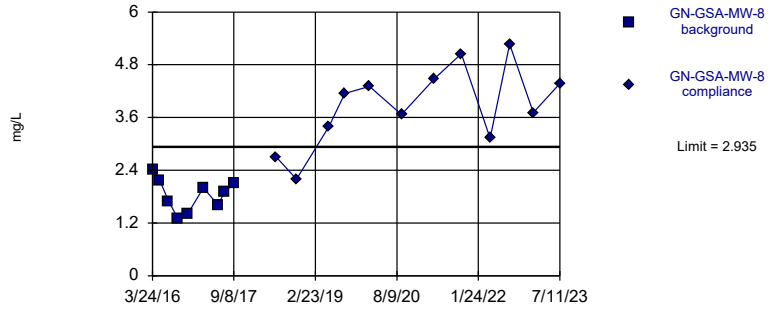


Background Data Summary: Mean=7.435, Std. Dev.=1.324, n=13. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9368, critical = 0.866. Kappa = 2.546 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Sulfate Analysis Run 10/10/2023 1:17 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

Exceeds Limit

Prediction Limit  
Intrawell Parametric

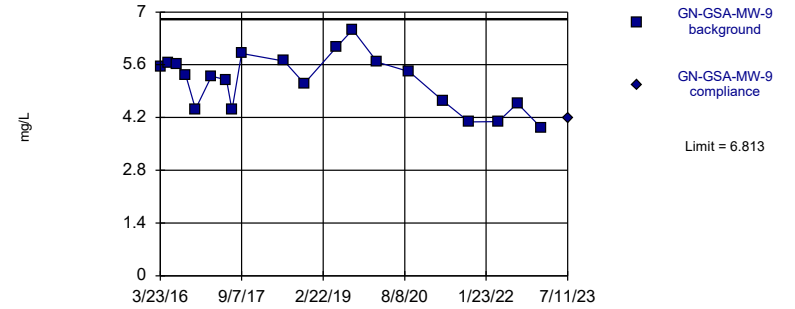


Background Data Summary: Mean=1.843, Std. Dev.=0.3686, n=9. Normality test: Shapiro Wilk @alpha = 0.1, calculated = 0.9707, critical = 0.859. Kappa = 2.961 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Sulfate Analysis Run 10/10/2023 1:17 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit  
Intrawell Parametric

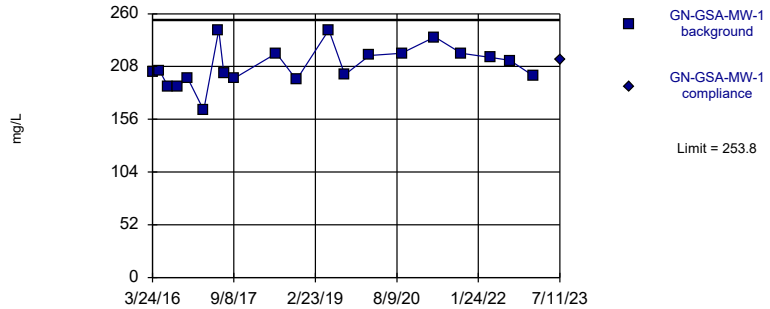


Background Data Summary: Mean=5.159, Std. Dev.=0.728, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9536, critical = 0.868. Kappa = 2.273 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: Sulfate Analysis Run 10/10/2023 1:17 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit  
Intrawell Parametric

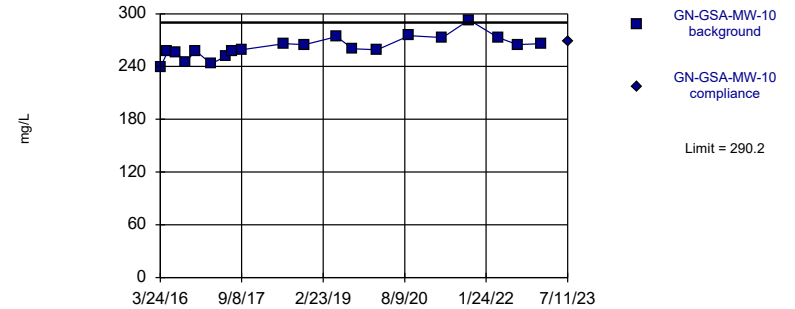


Background Data Summary: Mean=208.7, Std. Dev.=19.85, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9557, critical = 0.868. Kappa = 2.273 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: TDS Analysis Run 10/10/2023 1:17 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

Prediction Limit  
Intrawell Parametric

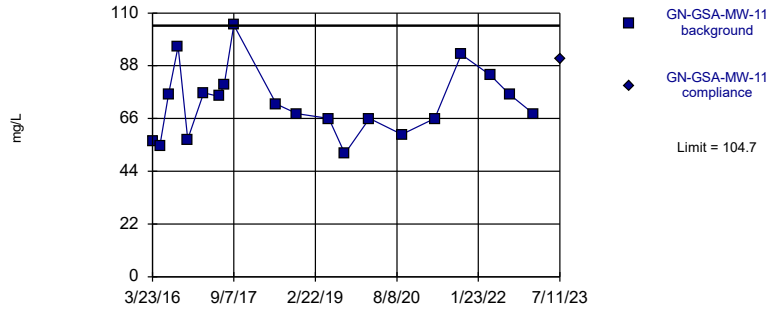


Background Data Summary: Mean=261.8, Std. Dev.=12.5, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9608, critical = 0.868. Kappa = 2.273 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: TDS Analysis Run 10/10/2023 1:17 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

### Prediction Limit Intrawell Parametric

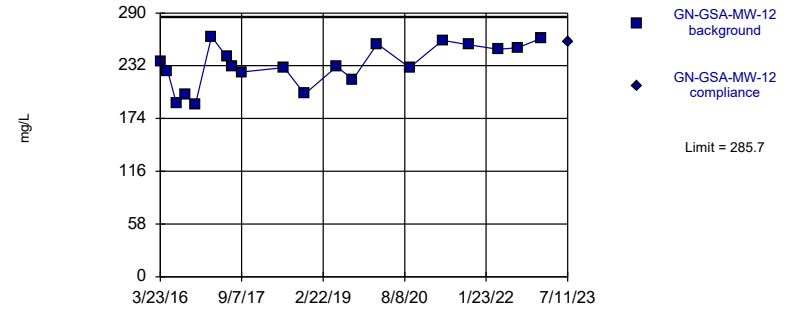


Background Data Summary: Mean=72.35, Std. Dev.=14.22, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.952, critical = 0.868. Kappa = 2.273 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: TDS Analysis Run 10/10/2023 1:17 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

### Prediction Limit Intrawell Parametric

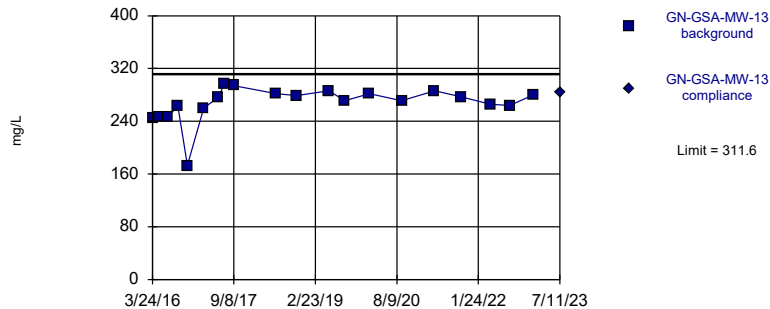


Background Data Summary: Mean=232.5, Std. Dev.=23.4, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.928, critical = 0.868. Kappa = 2.273 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: TDS Analysis Run 10/10/2023 1:17 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

### Prediction Limit Intrawell Parametric

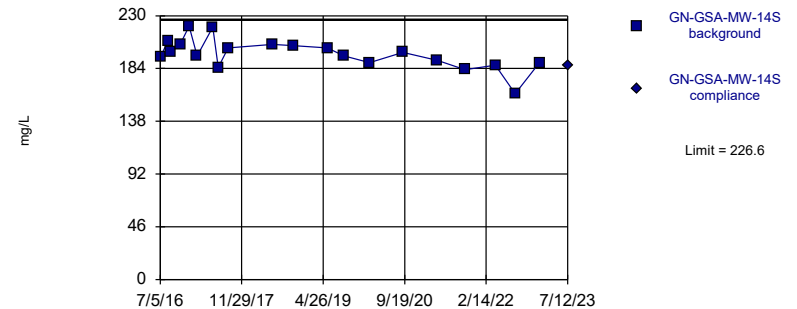


Background Data Summary (based on cube transformation): Mean=2.0e7, Std. Dev.=4683169, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8836, critical = 0.868. Kappa = 2.273 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: TDS Analysis Run 10/10/2023 1:17 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

### Prediction Limit Intrawell Parametric



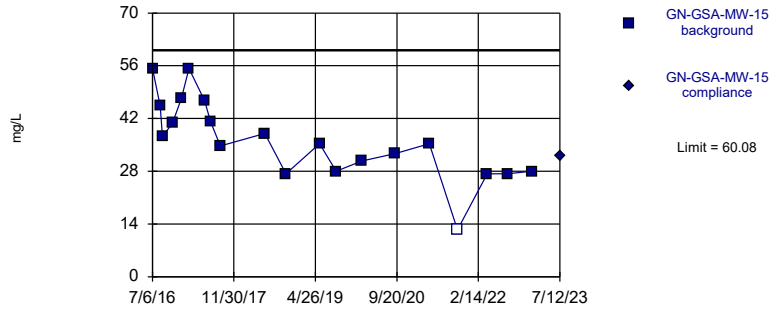
Background Data Summary: Mean=196.7, Std. Dev.=13.18, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9512, critical = 0.868. Kappa = 2.273 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: TDS Analysis Run 10/10/2023 1:17 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

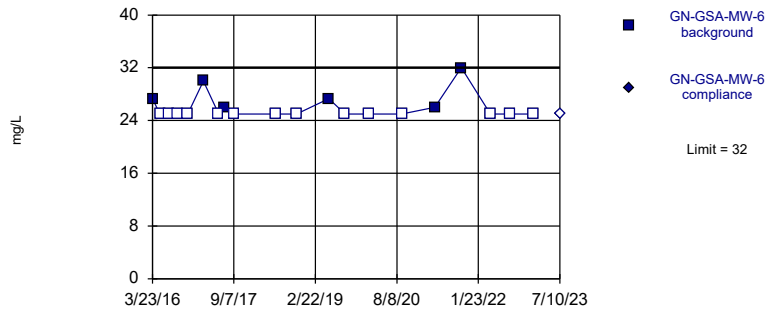
### Prediction Limit

Intrawell Parametric



Within Limit

### Prediction Limit Intrawell Non-parametric

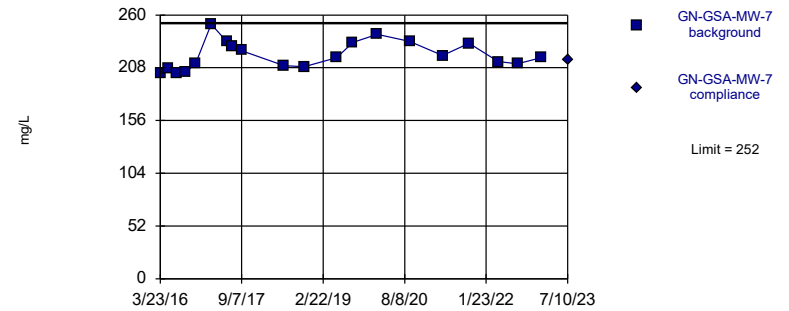


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 70% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: TDS Analysis Run 10/10/2023 1:17 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

### Prediction Limit Intrawell Parametric

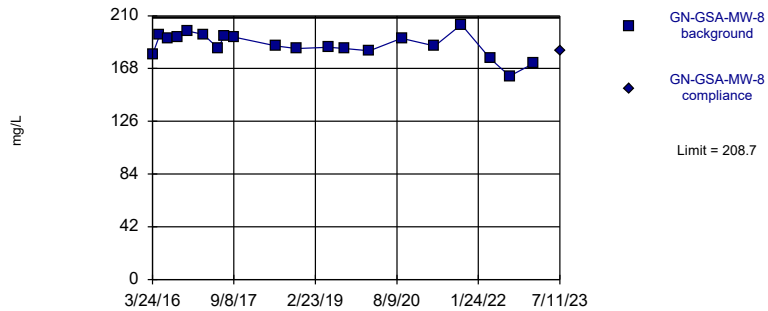


Background Data Summary: Mean=220.4, Std. Dev.=13.91, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9444, critical = 0.868. Kappa = 2.273 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: TDS Analysis Run 10/10/2023 1:17 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

### Prediction Limit Intrawell Parametric

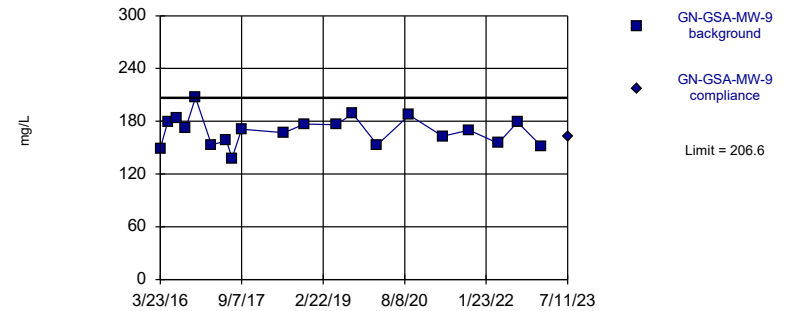


Background Data Summary: Mean=186.8, Std. Dev.=9.646, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9494, critical = 0.868. Kappa = 2.273 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: TDS Analysis Run 10/10/2023 1:18 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

Within Limit

### Prediction Limit Intrawell Parametric



Background Data Summary: Mean=169, Std. Dev.=16.57, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9784, critical = 0.868. Kappa = 2.273 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007523.

Constituent: TDS Analysis Run 10/10/2023 1:18 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Intravel  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-1	GN-GSA-MW-1
3/24/2016	36.9	
5/10/2016	37.9	
7/5/2016	35.3	
9/6/2016	34.8	
11/8/2016	34.3	
2/22/2017	35.9	
5/31/2017	34.3	
7/5/2017	35.5	
9/7/2017	36.7	
6/12/2018	42.2	
10/23/2018	38.9	
5/21/2019	47.8	
9/4/2019	41.4	
2/12/2020	44.1	
9/9/2020	44.5	
4/13/2021	44	
10/4/2021	45.4	
4/13/2022	47.5	
8/18/2022	53.5	
1/17/2023	43.5	
7/11/2023		47.200001

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Intravel  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-10	GN-GSA-MW-10
3/24/2016	90.3	
5/11/2016	91.1	
7/6/2016	90.7	
9/6/2016	94.5	
11/9/2016	92.9	
2/21/2017	93.1	
5/31/2017	86.6	
7/5/2017	91.5	
9/7/2017	99	
6/12/2018	101	
10/24/2018	104	
5/21/2019	101	
9/3/2019	102	
2/12/2020	99.2	
9/8/2020	99.9	
4/13/2021	97.1	
10/5/2021		108
4/13/2022		107
8/17/2022		118
1/18/2023		103
7/11/2023		103

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Intravel  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-11	GN-GSA-MW-11
3/23/2016	14.8	
5/11/2016	11.5	
7/6/2016	10.4	
9/7/2016	9.73	
11/9/2016	8.07	
2/21/2017	13.2	
5/31/2017	8.56	
7/5/2017	11.9	
9/7/2017	9.2	
6/12/2018	11.5	
10/24/2018	7.73	
5/21/2019	11.7	
9/3/2019	8.9	
2/12/2020	13.1	
9/9/2020	9.3	
4/13/2021	12.3	
10/5/2021	13.8	
4/13/2022	15	
8/17/2022	12.6	
1/18/2023	13.8	
7/11/2023		14.7



# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Intravel  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-12	GN-GSA-MW-12
3/23/2016	70.2	
5/10/2016	65.6	
7/6/2016	58.2	
9/6/2016	62.3	
11/9/2016	62.7	
2/21/2017	69.9	
5/31/2017	66.5	
7/5/2017	66.9	
9/7/2017	72.9	
6/12/2018	69.9	
10/23/2018	64.3	
5/21/2019	77.9	
9/4/2019	74.2	
2/12/2020	77.8	
9/9/2020	77	
4/13/2021	81.6	
10/5/2021		87.9
4/13/2022		88
8/18/2022		110
1/18/2023		83.300003
7/11/2023		81.099998

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Intravel  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-13	GN-GSA-MW-13
3/24/2016	79.9	
5/10/2016	77.6	
7/6/2016	72	
9/6/2016	81.6	
11/8/2016	83.8	
2/22/2017	86.4	
5/31/2017	84.1	
7/5/2017	89.5	
9/7/2017	93.2	
6/12/2018	101	
10/23/2018	97.6	
5/21/2019	106	
9/4/2019	93.7	
2/12/2020	93.1	
9/9/2020	88.7	
4/13/2021	89.8	
10/4/2021	92.2	
4/13/2022	91.8	
8/16/2022	107	
1/18/2023	93.699997	
7/11/2023		105

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Intravel  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-14S	GN-GSA-MW-14S
7/5/2016	50.8	
8/23/2016	51.7	
9/7/2016	48.4	
11/8/2016	50.7	
1/3/2017	55.4	
2/21/2017	48	
5/31/2017	45.4	
7/5/2017	45.7	
9/5/2017	48.5	
6/12/2018	45.2	
10/23/2018	44.4	
5/22/2019	47.1	
9/4/2019	47.4	
2/12/2020	57.3	
9/9/2020	46.7	
4/13/2021	48.4	
10/4/2021	48	
4/13/2022	58.9	
8/16/2022	52.099998	
1/17/2023	54.099998	
7/12/2023		54

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Intravel  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-15	GN-GSA-MW-15
7/6/2016	10.7	
8/23/2016	7.34	
9/7/2016	7.86	
11/8/2016	8.94	
1/3/2017	9.21	
2/20/2017	8.53	
5/31/2017	7.02	
7/5/2017	8.08	
9/5/2017	7.44	
6/12/2018	7.37	
10/23/2018	5.94	
5/22/2019	6.34	
9/4/2019	6.07	
2/12/2020	5.62	
9/9/2020	4.73	
4/13/2021	5.17	
10/6/2021	4.62	
4/12/2022	4.59	
8/16/2022	4.13	
1/17/2023	4.39	
7/12/2023		3.81

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Intravel  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-2	GN-GSA-MW-2
3/23/2016	75.3	
5/10/2016	75.7	
7/5/2016	78.8	
9/6/2016	84.3	
11/8/2016	87.2	
2/21/2017	80	
5/31/2017	75.2	
7/5/2017	77.2	
9/5/2017	77.5	
6/12/2018	78.9	
10/22/2018	96.9	
5/20/2019	87.3	
9/4/2019	89.8	
2/12/2020	81.4	
9/9/2020	80.9	
4/13/2021	77.5	
10/4/2021	85	
4/12/2022	87.1	
8/16/2022	96.300003	
1/17/2023	83.400002	
7/11/2023		79.699997

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Intravel  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-3	GN-GSA-MW-3
3/23/2016	106	
5/10/2016	109	
7/6/2016	98.7	
9/7/2016	98.6	
11/8/2016	99.7	
2/20/2017	93.4	
5/31/2017	84.1	
7/5/2017	92.6	
9/5/2017	86.1	
6/12/2018	76.5	
10/23/2018	68.8	
5/22/2019	53.1	
9/4/2019	76.4	
2/12/2020	89.6	
9/9/2020	63.1	
4/13/2021	57.8	
10/4/2021	43.7	
4/12/2022	55.1	
8/16/2022	50.5	
1/18/2023	87.900002	
7/12/2023		78.400002

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Intravel  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-5	GN-GSA-MW-5
3/23/2016	48.1	
5/11/2016	46	
7/6/2016	52.1	
9/6/2016	49.7	
11/8/2016	54.3	
2/20/2017	51.3	
5/30/2017	50	
7/5/2017	56.9	
9/7/2017	66.5	
6/11/2018	62.4	
10/22/2018	60.6	
5/20/2019	58.8	
9/4/2019		57.9
2/11/2020		76.6
9/8/2020		83.9
4/13/2021		79.2
10/4/2021		81.6
4/12/2022		94.1
8/16/2022		94.800003
1/18/2023		85.599998
7/10/2023		85

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Indrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-6	GN-GSA-MW-6
3/23/2016	1.32	
5/11/2016	1.13	
7/6/2016	1.18	
9/6/2016	1.09	
11/8/2016	1.32	
2/20/2017	0.829	
5/30/2017	0.743	
7/5/2017	0.68	
9/7/2017	0.825	
6/11/2018	0.722	
10/22/2018	0.79	
5/20/2019	0.652	
9/4/2019	0.872	
2/11/2020	0.562	
9/8/2020	0.652	
4/13/2021	0.505	
10/4/2021	0.53	
4/12/2022	0.516	
8/16/2022	0.516	
1/18/2023	0.583	
7/10/2023		0.589



# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Intravel  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-7	GN-GSA-MW-7
3/23/2016	59.1	
5/11/2016	58.9	
7/6/2016	60.8	
9/6/2016	62.2	
11/8/2016	63.9	
2/20/2017	69.6	
5/31/2017	63	
7/5/2017	64.6	
9/7/2017	70.5	
6/11/2018	63.5	
10/22/2018	70.3	
5/20/2019	72.5	
9/4/2019	72	
2/11/2020	71.2	
9/9/2020	66.7	
4/13/2021	64.1	
10/4/2021	70.4	
4/12/2022	71.2	
8/16/2022	82.199997	
1/17/2023	66.800003	
7/10/2023		65.599998

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Intravel  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-8	GN-GSA-MW-8
3/24/2016	57.4	
5/11/2016	57	
7/6/2016	56.7	
9/6/2016	57.3	
11/8/2016	59.4	
2/20/2017	57.7	
5/30/2017	52.5	
7/5/2017	52.7	
9/7/2017	58.4	
6/12/2018	53.7	
10/22/2018	55.4	
5/21/2019	55.7	
9/3/2019	57.4	
2/12/2020	55.7	
9/9/2020	55.3	
4/13/2021	52.2	
10/4/2021	55.1	
4/12/2022	54.4	
8/16/2022	58.400002	
1/18/2023	53.799999	
7/11/2023		55

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Intravel  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-9	GN-GSA-MW-9
3/23/2016	45.9	
5/11/2016	49.4	
7/6/2016	56	
9/7/2016	53.8	
11/8/2016	64.3	
2/21/2017	45.6	
5/30/2017	45.8	
7/5/2017	36.4	
9/7/2017	53.5	
6/12/2018	47.6	
10/22/2018	52.4	
5/21/2019	51.6	
9/3/2019	60.3	
2/12/2020	45.3	
9/8/2020	57.5	
4/13/2021	43.5	
10/5/2021	54.6	
4/12/2022	50.4	
8/17/2022	67.699997	
1/18/2023	48.799999	
7/11/2023		48.099998

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Inrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-1	GN-GSA-MW-1
3/24/2016	3.35	
5/10/2016	3.06	
7/5/2016	2.9	
9/6/2016	2.54	
11/8/2016	2.34	
2/22/2017	2.9	
5/31/2017	2.7	
7/5/2017	2.2	
9/7/2017	<2 (U*)	
6/12/2018	2.4	
10/23/2018	2.1	
5/21/2019	2.6	
9/4/2019	2.39	
2/12/2020	2.36	
9/9/2020	2.49	
4/13/2021	2.54	
10/4/2021	2.58	
4/13/2022	2.17	
8/18/2022	2.3	
1/17/2023	2.31	
7/11/2023		2.18

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Intravel  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-10	GN-GSA-MW-10
3/24/2016	2.78	
5/11/2016	2.62	
7/6/2016	2.53	
9/6/2016	2.51	
11/9/2016	2.67	
2/21/2017	3.4	
5/31/2017	3.6	
7/5/2017	2.7	
9/7/2017	<2 (U*)	
6/12/2018	2.8	
10/24/2018	2.9	
5/21/2019	2.98	
9/3/2019	2.84	
2/12/2020	2.86	
9/8/2020	2.8	
4/13/2021	3.07	
10/5/2021	3.04	
4/13/2022	2.77	
8/17/2022	3.11	
1/18/2023	3.09	
7/11/2023		2.82

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Intravel  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-11	GN-GSA-MW-11
3/23/2016	2.64	
5/11/2016	3.02	
7/6/2016	4.01	
9/7/2016	4.51	
11/9/2016	3.74	
2/21/2017	4.1	
5/31/2017	5.3	
7/5/2017	4.6	
9/7/2017	6.5	
6/12/2018		8.8
10/24/2018		7.2
5/21/2019		10.4
9/3/2019		7.1
2/12/2020		7.16
9/9/2020		6.27
4/13/2021		9.8
10/5/2021		13.8
4/13/2022		19.6
8/17/2022		19.5
1/18/2023		14.6
7/11/2023		21.4

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Inrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-12	GN-GSA-MW-12
3/23/2016	4.43	
5/10/2016	3.38	
7/6/2016	2.62	
9/6/2016	2.65	
11/9/2016	2.55	
2/21/2017	4.7	
5/31/2017	4.1	
7/5/2017	3.2	
9/7/2017	<2 (U*)	
6/12/2018	3.1	
10/23/2018	2.1	
5/21/2019	3.02	
9/4/2019	2.73	
2/12/2020	4.21	
9/9/2020	2.8	
4/13/2021	3.97	
10/5/2021	3.69	
4/13/2022	3.76	
8/18/2022	3.53	
1/18/2023	5.68	
7/11/2023		3.84

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Inrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-13	GN-GSA-MW-13
3/24/2016	3.16	
5/10/2016	3.02	
7/6/2016	3.1	
9/6/2016	3.31	
11/8/2016	3.32	
2/22/2017	4.8	
5/31/2017	4	
7/5/2017	3.6	
9/7/2017	4.5	
6/12/2018	3.5	
10/23/2018	3.5	
5/21/2019	3.3	
9/4/2019	3.33	
2/12/2020	4.1	
9/9/2020	3.4	
4/13/2021	3.56	
10/4/2021	3.37	
4/13/2022	3.01	
8/16/2022	3.47	
1/18/2023	3.8	
7/11/2023		3.69



# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Inrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-14S	GN-GSA-MW-14S
7/5/2016	3.86	
8/23/2016	4.69	
9/7/2016	4.6	
11/8/2016	4.68	
1/3/2017	5.25	
2/21/2017	4.3	
5/31/2017	4.2	
7/5/2017	3.4	
9/5/2017	4.5	
6/12/2018	3.6	
10/23/2018	3.4	
5/22/2019	2.89	
9/4/2019	2.88	
2/12/2020	2.4	
9/9/2020	2.49	
4/13/2021	2.56	
10/4/2021	2.5	
4/13/2022	2.42	
8/16/2022	2.54	
1/17/2023	2.58	
7/12/2023		2.36

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Inrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-15	GN-GSA-MW-15
7/6/2016	3.78	
8/23/2016	3.47	
9/7/2016	3.4	
11/8/2016	3.29	
1/3/2017	3.11	
2/20/2017	2.7	
5/31/2017	2.3	
7/5/2017	2	
9/5/2017	<2 (U*)	
6/12/2018	2	
10/23/2018	1.5 (J)	
5/22/2019	1.75	
9/4/2019	1.95	
2/12/2020	1.8	
9/9/2020	1.95	
4/13/2021	1.86	
10/6/2021	2.07	
4/12/2022	1.88	
8/16/2022	2.27	
1/17/2023	2.11	
7/12/2023		2.04

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Inrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-2	GN-GSA-MW-2
3/23/2016	3.6	
5/10/2016	4.18	
7/5/2016	3.12	
9/6/2016	3.21	
11/8/2016	3.33	
2/21/2017	4.6	
5/31/2017	3.8	
7/5/2017	3.4	
9/5/2017	4.4	
6/12/2018	3.4	
10/22/2018	3.6	
5/20/2019	3.53	
9/4/2019	3.56	
2/12/2020	3.66	
9/9/2020	3.44	
4/13/2021	3.55	
10/4/2021	3.59	
4/12/2022	3.23	
8/16/2022	3.66	
1/17/2023	4.76	
7/11/2023		3.58

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Inrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-3	GN-GSA-MW-3
3/23/2016	3.67	
5/10/2016	3.34	
7/6/2016	3.08	
9/7/2016	2.95	
11/8/2016	2.92	
2/20/2017	3.3	
5/31/2017	2.9	
7/5/2017	2.6	
9/5/2017	3.5	
6/12/2018	3.1	
10/23/2018	2.6	
5/22/2019	2.83	
9/4/2019	2.92	
2/12/2020	2.49	
9/9/2020	2.74	
4/13/2021	2.76	
10/4/2021	2.88	
4/12/2022	2.67	
8/16/2022	3.08	
1/18/2023	2.84	
7/12/2023		2.79

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Inrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-5	GN-GSA-MW-5
3/23/2016	4.84	
5/11/2016	4.19	
7/6/2016	4.67	
9/6/2016	4.23	
11/8/2016	4.51	
2/20/2017	5.8	
5/30/2017	13	
7/5/2017	17	
9/7/2017	17	
6/11/2018	14	
10/22/2018	14	
5/20/2019	12.9	
9/4/2019	11.9	
2/11/2020	11.2	
9/8/2020	11.7	
4/13/2021	9.78	
10/4/2021	9.45	
4/12/2022	7.35	
8/16/2022	9.72	
1/18/2023	9.67	
7/10/2023		8.17

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Intravel  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-6	GN-GSA-MW-6
3/23/2016	3.36	
5/11/2016	3.04	
7/6/2016	2.86	
9/6/2016	2.92	
11/8/2016	3.01	
2/20/2017	3.7	
5/30/2017	3.2	
7/5/2017	2.8	
9/7/2017	<2 (U*)	
6/11/2018	2.7	
10/22/2018	2.6	
5/20/2019	3.15	
9/4/2019	3.21	
2/11/2020	3.36	
9/8/2020	3.29	
4/13/2021	3.54	
10/4/2021	3.61	
4/12/2022	3.38	
8/16/2022	3.64	
1/18/2023	3.69	
7/10/2023		3.44

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Inrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-7	GN-GSA-MW-7
3/23/2016	3.28	
5/11/2016	3.08	
7/6/2016	2.96	
9/6/2016	2.97	
11/8/2016	3.22	
2/20/2017	4	
5/31/2017	4.3	
7/5/2017	3.4	
9/7/2017	4	
6/11/2018	3.6	
10/22/2018	3.7	
5/20/2019	3.25	
9/4/2019	4.31	
2/11/2020	3.69	
9/9/2020	3.34	
4/13/2021	3.64	
10/4/2021	3.48	
4/12/2022	3.29	
8/16/2022	3.8	
1/17/2023	3.65	
7/10/2023		3.33

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Inrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-8	GN-GSA-MW-8
3/24/2016	1.73	
5/11/2016	1.68	
7/6/2016	1.68	
9/6/2016	1.7	
11/8/2016	2.03	
2/20/2017	2.3	
5/30/2017	2.2	
7/5/2017	1.6 (J)	
9/7/2017	<2 (U*)	
6/12/2018	1.9 (J)	
10/22/2018	<2	
5/21/2019	1.51	
9/3/2019	1.64	
2/12/2020	1.64	
9/9/2020	1.61	
4/13/2021	1.64	
10/4/2021	1.76	
4/12/2022	1.54	
8/16/2022	1.69	
1/18/2023	1.71	
7/11/2023		1.56



# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Indrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-9	GN-GSA-MW-9
3/23/2016	2.26	
5/11/2016	2.26	
7/6/2016	2.28	
9/7/2016	2.32	
11/8/2016	2.26	
2/21/2017	2.9	
5/30/2017	2.9	
7/5/2017	2.7	
9/7/2017	<2 (U*)	
6/12/2018	2.6	
10/22/2018	2	
5/21/2019	2.12	
9/3/2019	2.26	
2/12/2020	2.24	
9/8/2020	2.06	
4/13/2021	2.14	
10/5/2021	2.16	
4/12/2022	1.91	
8/17/2022	2.13	
1/18/2023	2.01	
7/11/2023		1.87

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - IntraWell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-1	GN-GSA-MW-1
3/24/2016	6.06	
5/10/2016	5.47	
7/5/2016	4.8	
9/6/2016	3.91	
11/8/2016	2.95	
2/22/2017	3.3 (J)	
5/31/2017	3.4 (J)	
7/5/2017	3.4 (J)	
9/7/2017	3.6 (J)	
6/12/2018	4.2 (J)	
10/23/2018	3 (J)	
5/21/2019	4.58	
9/4/2019	4.82	
2/12/2020	5.11	
9/9/2020	3.97	
4/13/2021	4.43	
10/4/2021	4.08	
4/13/2022	4.24	
8/18/2022	4.84	
1/17/2023	4.25	
7/11/2023		4.01

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - IntraWell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	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 (o)	
9/7/2017	1.7 (J)	
6/12/2018	1.8 (J)	
10/24/2018	<5 (o)	
5/21/2019	1.72	
9/3/2019	1.73	
2/12/2020	1.65	
9/8/2020	1.62	
4/13/2021	1.68	
10/5/2021	1.8	
4/13/2022	1.68 (J)	
8/17/2022	2.24	
1/18/2023	1.96 (J)	
7/11/2023		1.85 (J)

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - IntraWell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-11	GN-GSA-MW-11
3/23/2016	7.59	
5/11/2016	6.6	
7/6/2016	11.8	
9/7/2016	14.9	
11/9/2016	4.5	
2/21/2017	5.7	
5/31/2017	5.6	
7/5/2017	4.6 (J)	
9/7/2017	6.2	
6/12/2018	3.5 (J)	
10/24/2018	2.4 (J)	
5/21/2019	3.55	
9/3/2019	2.83	
2/12/2020	3.89	
9/9/2020	3.01	
4/13/2021	2.77	
10/5/2021	2.86	
4/13/2022	2.73	
8/17/2022	2.29	
1/18/2023	2.95	
7/11/2023		1.97 (J)

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - IntraWell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-12	GN-GSA-MW-12
3/23/2016	16.2	
5/10/2016	12.1	
7/6/2016	7.7	
9/6/2016	6.97	
11/9/2016	5.77	
2/21/2017	12	
5/31/2017	8.7	
7/5/2017	7.7	
9/7/2017	7	
6/12/2018	8.7	
10/23/2018	4.8 (J)	
5/21/2019	7.81	
9/4/2019	6.25	
2/12/2020	13.1	
9/9/2020	5.85	
4/13/2021	8.86	
10/5/2021	8.02	
4/13/2022	8.25	
8/18/2022	6.66	
1/18/2023	15.6	
7/11/2023		9.46

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - IntraWell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-13	GN-GSA-MW-13
3/24/2016	7.64	
5/10/2016	6.79	
7/6/2016	7.59	
9/6/2016	9.56	
11/8/2016	8.87	
2/22/2017	10	
5/31/2017	8	
7/5/2017	8.2	
9/7/2017	8.3	
6/12/2018	8.3	
10/23/2018	6.7	
5/21/2019	8.29	
9/4/2019	8.18	
2/12/2020	9.06	
9/9/2020	7.89	
4/13/2021	8.38	
10/4/2021	7.18	
4/13/2022	7.27	
8/16/2022	8.54	
1/18/2023	8.51	
7/11/2023		9.4

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - IntraWell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-14S	GN-GSA-MW-14S
7/5/2016	11.7	
8/23/2016	13.7	
9/7/2016	12.4	
11/8/2016	12.9	
1/3/2017	14.1	
2/21/2017	6.1	
5/31/2017	8	
7/5/2017	3.8 (J)	
9/5/2017	6.8	
6/12/2018	5	
10/23/2018	5.4	
5/22/2019	5.57	
9/4/2019	6.37	
2/12/2020	3.09	
9/9/2020	5.26	
4/13/2021	3.45	
10/4/2021	3.78	
4/13/2022	2.44	
8/16/2022	4.71	
1/17/2023	2.83	
7/12/2023		2.79

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - IntraWell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	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 (o)	
5/22/2019	2.82	
9/4/2019	2.3	
2/12/2020	1.77	
9/9/2020	2	
4/13/2021	2.51	
10/6/2021	2.15	
4/12/2022	1.76 (J)	
8/16/2022	3.73	
1/17/2023	1.99 (J)	
7/12/2023		8.91



# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - IntraWell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-2	GN-GSA-MW-2
3/23/2016	6.48	
5/10/2016	11.1	
7/5/2016	6.7	
9/6/2016	6.85	
11/8/2016	7.3	
2/21/2017	7.7	
5/31/2017	5.3	
7/5/2017	6.4	
9/5/2017	6.1	
6/12/2018	7.2	
10/22/2018	8.3	
5/20/2019	7.52	
9/4/2019	9.25	
2/12/2020	10.7	
9/9/2020	7.77	
4/13/2021	7.44	
10/4/2021	6.86	
4/12/2022	8.36	
8/16/2022	8.31	
1/17/2023	6.01	
7/11/2023		6.77

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - IntraWell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-3	GN-GSA-MW-3
3/23/2016	32.6	
5/10/2016	27.6	
7/6/2016	23.6	
9/7/2016	22.2	
11/8/2016	20.4	
2/20/2017	14	
5/31/2017	15	
7/5/2017	11	
9/5/2017	17	
6/12/2018	14	
10/23/2018	12	
5/22/2019	11	
9/4/2019	10.9	
2/12/2020	9.13	
9/9/2020	8.76	
4/13/2021	7.88	
10/4/2021	8.09	
4/12/2022	7.36	
8/16/2022	7.79	
1/18/2023	7.56	
7/12/2023		8.92

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - IntraWell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-5	GN-GSA-MW-5
3/23/2016	14.1	
5/11/2016	13.5	
7/6/2016	17.1	
9/6/2016	11.2	
11/8/2016	10.9	
2/20/2017	8.8	
5/30/2017	12	
7/5/2017	19	
9/7/2017	33	
6/11/2018		47
10/22/2018		40
5/20/2019		75.6
9/4/2019		56.3
2/11/2020		79.7
9/8/2020		113
4/13/2021		108
10/4/2021		115
4/12/2022		145
8/16/2022		142
1/18/2023		121
7/10/2023		191

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - IntraWell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	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	<2	
9/7/2017	<2	
6/11/2018	<2	
10/22/2018	<2	
5/20/2019	<2	
9/4/2019	<2	
2/11/2020	<2	
9/8/2020	<2	
4/13/2021	<2	
10/4/2021	<2	
4/12/2022	<2	
8/16/2022	<2	
1/18/2023	<2	
7/10/2023		0.94 (J)

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - IntraWell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-7	GN-GSA-MW-7
3/23/2016	13.8	
5/11/2016	11.9	
7/6/2016	11.1	
9/6/2016	10.6	
11/8/2016	12.1	
2/20/2017	9.7	
5/31/2017	11	
7/5/2017	8.3	
9/7/2017	8.6	
6/11/2018	7.5	
10/22/2018	8.8	
5/20/2019	6.85	
9/4/2019	10.1	
2/11/2020	8.5	
9/9/2020	7.13	
4/13/2021	6.37	
10/4/2021	6.02	
4/12/2022	5.75	
8/16/2022	6.63	
1/17/2023	6.1	
7/10/2023		5.64

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - IntraWell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-8	GN-GSA-MW-8
3/24/2016	2.42	
5/11/2016	2.16	
7/6/2016	1.7	
9/6/2016	1.31	
11/8/2016	1.4	
2/20/2017	2 (J)	
5/30/2017	1.6 (J)	
7/5/2017	1.9 (J)	
9/7/2017	2.1 (J)	
6/12/2018		2.7 (J)
10/22/2018		2.2 (J)
5/21/2019		3.39
9/3/2019		4.15
2/12/2020		4.31
9/9/2020		3.67
4/13/2021		4.49
10/4/2021		5.05
4/12/2022		3.13
8/16/2022		5.27
1/18/2023		3.71
7/11/2023		4.37

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - IntraWell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-9	GN-GSA-MW-9
3/23/2016	5.54	
5/11/2016	5.66	
7/6/2016	5.62	
9/7/2016	5.31	
11/8/2016	4.42	
2/21/2017	5.3	
5/30/2017	5.2	
7/5/2017	4.4 (J)	
9/7/2017	5.9	
6/12/2018	5.7	
10/22/2018	5.1	
5/21/2019	6.07	
9/3/2019	6.53	
2/12/2020	5.67	
9/8/2020	5.42	
4/13/2021	4.65	
10/5/2021	4.08	
4/12/2022	4.09	
8/17/2022	4.58	
1/18/2023	3.93	
7/11/2023		4.18

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - IntraWell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-1	GN-GSA-MW-1
3/24/2016	203	
5/10/2016	204	
7/5/2016	188	
9/6/2016	188	
11/8/2016	197	
2/22/2017	165	
5/31/2017	244	
7/5/2017	201	
9/7/2017	196	
6/12/2018	221	
10/23/2018	195 (D)	
5/21/2019	244	
9/4/2019	200	
2/12/2020	219	
9/9/2020	221	
4/13/2021	237	
10/4/2021	221	
4/13/2022	217	
8/18/2022	214	
1/17/2023	199	
7/11/2023		215



# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-10	GN-GSA-MW-10
3/24/2016	239	
5/11/2016	257	
7/6/2016	256	
9/6/2016	245	
11/9/2016	258	
2/21/2017	243	
5/31/2017	252	
7/5/2017	257	
9/7/2017	259	
6/12/2018	266	
10/24/2018	265 (D)	
5/21/2019	274	
9/3/2019	260	
2/12/2020	259	
9/8/2020	275	
4/13/2021	273	
10/5/2021	293	
4/13/2022	273	
8/17/2022	265	
1/18/2023	266	
7/11/2023		268

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-11	GN-GSA-MW-11
3/23/2016	56.7	
5/11/2016	54.7	
7/6/2016	76	
9/7/2016	96	
11/9/2016	57.3	
2/21/2017	76.7	
5/31/2017	75.3	
7/5/2017	80	
9/7/2017	105	
6/12/2018	72	
10/24/2018	68 (D)	
5/21/2019	66	
9/3/2019	51.3	
2/12/2020	66	
9/9/2020	59.3	
4/13/2021	66	
10/5/2021	92.7	
4/13/2022	84	
8/17/2022	76	
1/18/2023	68	
7/11/2023		90.699997

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-12	GN-GSA-MW-12
3/23/2016	237	
5/10/2016	226	
7/6/2016	191	
9/6/2016	200	
11/9/2016	190	
2/21/2017	264	
5/31/2017	242	
7/5/2017	231	
9/7/2017	225	
6/12/2018	230	
10/23/2018	201 (D)	
5/21/2019	231	
9/4/2019	217	
2/12/2020	256	
9/9/2020	230	
4/13/2021	260	
10/5/2021	255	
4/13/2022	250	
8/18/2022	252	
1/18/2023	262	
7/11/2023		258

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-13	GN-GSA-MW-13
3/24/2016	244	
5/10/2016	247	
7/6/2016	247	
9/6/2016	264	
11/8/2016	173	
2/22/2017	260	
5/31/2017	277	
7/5/2017	296	
9/7/2017	294	
6/12/2018	282	
10/23/2018	279 (D)	
5/21/2019	286	
9/4/2019	271	
2/12/2020	282	
9/9/2020	271	
4/13/2021	286	
10/4/2021	277	
4/13/2022	266	
8/16/2022	264	
1/18/2023	280	
7/11/2023		283

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-14S	GN-GSA-MW-14S
7/5/2016	194	
8/23/2016	208	
9/7/2016	198	
11/8/2016	205	
1/3/2017	221	
2/21/2017	195	
5/31/2017	220	
7/5/2017	185	
9/5/2017	202	
6/12/2018	205	
10/23/2018	204 (D)	
5/22/2019	202	
9/4/2019	195	
2/12/2020	189	
9/9/2020	198	
4/13/2021	191	
10/4/2021	183	
4/13/2022	187	
8/16/2022	162	
1/17/2023	189	
7/12/2023		187

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/10/2023 1:19 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	
4/12/2022	27.3	
8/16/2022	27.299999	
1/17/2023	28	
7/12/2023		32

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - IntraWell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-2	GN-GSA-MW-2
3/23/2016	272	
5/10/2016	283	
7/5/2016	294	
9/6/2016	295	
11/8/2016	310	
2/21/2017	280	
5/31/2017	287	
7/5/2017	287	
9/5/2017	280	
6/12/2018	284	
10/22/2018	278 (D)	
5/20/2019	286	
9/4/2019	297	
2/12/2020	276	
9/9/2020	272	
4/13/2021	283	
10/4/2021	287	
4/12/2022	271	
8/16/2022	280	
1/17/2023	270	
7/11/2023		291

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-3	GN-GSA-MW-3
3/23/2016	334	
5/10/2016	349	
7/6/2016	316	
9/7/2016	309	
11/8/2016	302	
2/20/2017	297	
5/31/2017	287	
7/5/2017	283	
9/5/2017	284	
6/12/2018	248	
10/23/2018	215 (D)	
5/22/2019	184	
9/4/2019	225	
2/12/2020	250	
9/9/2020	220	
4/13/2021	196	
10/4/2021	168	
4/12/2022	156	
8/16/2022	164	
1/18/2023	246	
7/12/2023		227



# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-5	GN-GSA-MW-5
3/23/2016	185	
5/11/2016	176	
7/6/2016	203	
9/6/2016	180	
11/8/2016	187	
2/20/2017	205	
5/30/2017	187	
7/5/2017	238	
9/7/2017	269	
6/11/2018		312
10/22/2018		292 (D)
5/20/2019		398
9/4/2019		388
2/11/2020		308
9/8/2020		360
4/13/2021		350
10/4/2021		379
4/12/2022		400
8/16/2022		376
1/18/2023		362
7/10/2023		444

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-6	GN-GSA-MW-6
3/23/2016	27.3	
5/11/2016	<25	
7/6/2016	<25	
9/6/2016	<25	
11/8/2016	<25	
2/20/2017	30	
5/30/2017	<25	
7/5/2017	26	
9/7/2017	<25	
6/11/2018	<25	
10/22/2018	<25 (D)	
5/20/2019	27.3	
9/4/2019	<25	
2/11/2020	<25	
9/8/2020	<25	
4/13/2021	26	
10/4/2021	32	
4/12/2022	<25	
8/16/2022	<25	
1/18/2023	<25	
7/10/2023		<25

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - IntraWell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-7	GN-GSA-MW-7
3/23/2016	202	
5/11/2016	207	
7/6/2016	202	
9/6/2016	204	
11/8/2016	212	
2/20/2017	251	
5/31/2017	234	
7/5/2017	229	
9/7/2017	225	
6/11/2018	210	
10/22/2018	209 (D)	
5/20/2019	218	
9/4/2019	233	
2/11/2020	241	
9/9/2020	234	
4/13/2021	220	
10/4/2021	232	
4/12/2022	214	
8/16/2022	212	
1/17/2023	218	
7/10/2023		216

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-8	GN-GSA-MW-8
3/24/2016	179	
5/11/2016	195	
7/6/2016	192	
9/6/2016	193	
11/8/2016	198	
2/20/2017	195	
5/30/2017	184	
7/5/2017	194	
9/7/2017	193	
6/12/2018	186	
10/22/2018	184 (D)	
5/21/2019	185	
9/3/2019	184	
2/12/2020	182	
9/9/2020	192	
4/13/2021	186	
10/4/2021	203	
4/12/2022	176	
8/16/2022	162	
1/18/2023	172	
7/11/2023		182

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/10/2023 1:19 PM View: Appendix III - Intrawell  
Plant Gaston Client: Southern Company Data: Gaston GSA

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	GN-GSA-MW-9	GN-GSA-MW-9
3/23/2016	149	
5/11/2016	179	
7/6/2016	183	
9/7/2016	173	
11/8/2016	207	
2/21/2017	153	
5/30/2017	158	
7/5/2017	138	
9/7/2017	171	
6/12/2018	167	
10/22/2018	177 (D)	
5/21/2019	176	
9/3/2019	189	
2/12/2020	153	
9/8/2020	187	
4/13/2021	163	
10/5/2021	170	
4/12/2022	155	
8/17/2022	179	
1/18/2023	152	
7/11/2023		162

FIGURE G.

# Appendix III Interwell Prediction Limits - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 10/2/2023, 5:33 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bq N	%NDs	ND Adj.	Transform Alpha	Method
Fluoride (mg/L)	GN-GSA-MW-1	0.125	n/a	7/11/2023	0.3	Yes	88	45.45	n/a	n/a	0.0002485 NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-1	7.53	5.25	7/11/2023	7.58	Yes	88	0	n/a	n/a	0.0004971 NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-6	7.53	5.25	7/10/2023	4.4	Yes	88	0	n/a	n/a	0.0004971 NP Inter (normality) 1 of 2

# Appendix III Interwell Prediction Limits - All Results

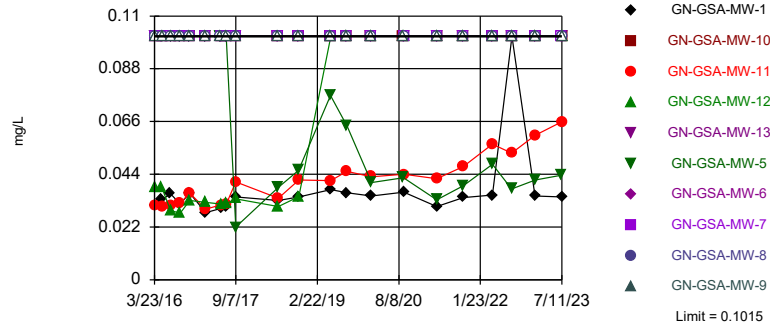
Plant Gaston Client: Southern Company Data: Gaston GSA Printed 10/2/2023, 5:33 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bq N	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GN-GSA-MW-1	0.1015	n/a	7/11/2023	0.0346J	No	84	98.81	n/a	n/a	0.0002728	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-10	0.1015	n/a	7/11/2023	0.1015ND	No	84	98.81	n/a	n/a	0.0002728	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-11	0.1015	n/a	7/11/2023	0.0659J	No	84	98.81	n/a	n/a	0.0002728	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-12	0.1015	n/a	7/11/2023	0.1015ND	No	84	98.81	n/a	n/a	0.0002728	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-13	0.1015	n/a	7/11/2023	0.1015ND	No	84	98.81	n/a	n/a	0.0002728	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-5	0.1015	n/a	7/10/2023	0.0436J	No	84	98.81	n/a	n/a	0.0002728	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-6	0.1015	n/a	7/10/2023	0.1015ND	No	84	98.81	n/a	n/a	0.0002728	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-7	0.1015	n/a	7/10/2023	0.1015ND	No	84	98.81	n/a	n/a	0.0002728	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-8	0.1015	n/a	7/11/2023	0.1015ND	No	84	98.81	n/a	n/a	0.0002728	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-GSA-MW-9	0.1015	n/a	7/11/2023	0.1015ND	No	84	98.81	n/a	n/a	0.0002728	NP Inter (NDs) 1 of 2
<b>Fluoride (mg/L)</b>	<b>GN-GSA-MW-1</b>	<b>0.125</b>	<b>n/a</b>	<b>7/11/2023</b>	<b>0.3</b>	<b>Yes</b>	<b>88</b>	<b>45.45</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0002485</b>	<b>NP Inter (normality) 1 of 2</b>
Fluoride (mg/L)	GN-GSA-MW-10	0.125	n/a	7/11/2023	0.125ND	No	88	45.45	n/a	n/a	0.0002485	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-11	0.125	n/a	7/11/2023	0.125ND	No	88	45.45	n/a	n/a	0.0002485	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-12	0.125	n/a	7/11/2023	0.125ND	No	88	45.45	n/a	n/a	0.0002485	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-13	0.125	n/a	7/11/2023	0.103J	No	88	45.45	n/a	n/a	0.0002485	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-5	0.125	n/a	7/10/2023	0.099J	No	88	45.45	n/a	n/a	0.0002485	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-6	0.125	n/a	7/10/2023	0.125ND	No	88	45.45	n/a	n/a	0.0002485	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-7	0.125	n/a	7/10/2023	0.1J	No	88	45.45	n/a	n/a	0.0002485	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-8	0.125	n/a	7/11/2023	0.0857J	No	88	45.45	n/a	n/a	0.0002485	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GN-GSA-MW-9	0.125	n/a	7/11/2023	0.125ND	No	88	45.45	n/a	n/a	0.0002485	NP Inter (normality) 1 of 2
<b>pH (pH)</b>	<b>GN-GSA-MW-1</b>	<b>7.53</b>	<b>5.25</b>	<b>7/11/2023</b>	<b>7.58</b>	<b>Yes</b>	<b>88</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0004971</b>	<b>NP Inter (normality) 1 of 2</b>
pH (pH)	GN-GSA-MW-10	7.53	5.25	7/11/2023	6.89	No	88	0	n/a	n/a	0.0004971	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-11	7.53	5.25	7/11/2023	5.33	No	88	0	n/a	n/a	0.0004971	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-12	7.53	5.25	7/11/2023	6.79	No	88	0	n/a	n/a	0.0004971	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-13	7.53	5.25	7/11/2023	6.62	No	88	0	n/a	n/a	0.0004971	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-5	7.53	5.25	7/10/2023	6.3	No	88	0	n/a	n/a	0.0004971	NP Inter (normality) 1 of 2
<b>pH (pH)</b>	<b>GN-GSA-MW-6</b>	<b>7.53</b>	<b>5.25</b>	<b>7/10/2023</b>	<b>4.4</b>	<b>Yes</b>	<b>88</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0004971</b>	<b>NP Inter (normality) 1 of 2</b>
pH (pH)	GN-GSA-MW-7	7.53	5.25	7/10/2023	6.66	No	88	0	n/a	n/a	0.0004971	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-8	7.53	5.25	7/11/2023	7.32	No	88	0	n/a	n/a	0.0004971	NP Inter (normality) 1 of 2
pH (pH)	GN-GSA-MW-9	7.53	5.25	7/11/2023	6.23	No	88	0	n/a	n/a	0.0004971	NP Inter (normality) 1 of 2



Within Limit

Prediction Limit  
Interwell Non-parametric

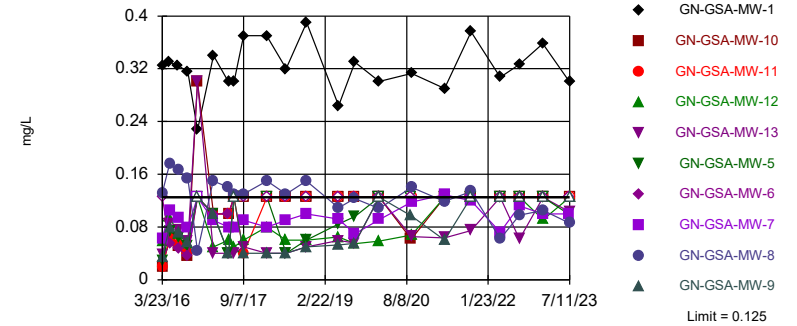


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 84 background values. 98.81% NDs. Annual per-constituent alpha = 0.005442. Individual comparison alpha = 0.0002728 (1 of 2). Comparing 10 points to limit.

Constituent: Boron Analysis Run 10/2/2023 5:32 PM View: Appendix III - Interwell  
Plant Gaston Client: Southern Company Data: Gaston GSA

Exceeds Limit: GN-GSA-MW-1

Prediction Limit  
Interwell Non-parametric

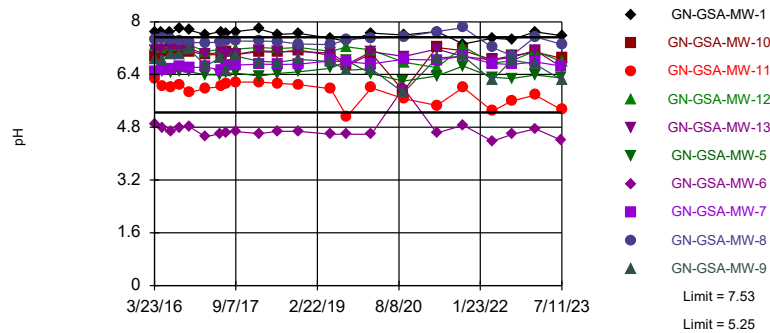


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 88 background values. 45.45% NDs. Annual per-constituent alpha = 0.004959. Individual comparison alpha = 0.0002485 (1 of 2). Comparing 10 points to limit.

Constituent: Fluoride Analysis Run 10/2/2023 5:32 PM View: Appendix III - Interwell  
Plant Gaston Client: Southern Company Data: Gaston GSA

Exceeds Limits: GN-GSA-MW-1, GN-GSA-MW-6

Prediction Limit  
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 88 background values. Annual per-constituent alpha = 0.009918. Individual comparison alpha = 0.0004971 (1 of 2). Comparing 10 points to limit.

Constituent: pH Analysis Run 10/2/2023 5:32 PM View: Appendix III - Interwell  
Plant Gaston Client: Southern Company Data: Gaston GSA

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/2/2023 5:33 PM View: Appendix III - Interwell  
 Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-5	GN-GSA-MW-11	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-12	GN-GSA-MW-1
3/23/2016	<0.1015	0.0309 (J)	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	0.0387 (J)	
3/24/2016									0.0311 (J)
5/10/2016					<0.1015		<0.1015	0.0384 (J)	0.0334 (J)
5/11/2016	<0.1015	0.0306 (J)	<0.1015	<0.1015		<0.1015			
7/5/2016					<0.1015				0.0359 (J)
7/6/2016	<0.1015	0.0307 (J)	<0.1015	<0.1015		<0.1015	<0.1015	0.029 (J)	
8/23/2016									
9/6/2016	<0.1015			<0.1015	<0.1015	<0.1015		0.0278 (J)	0.0316 (J)
9/7/2016		0.0319 (J)	<0.1015				<0.1015		
11/8/2016	<0.1015		<0.1015	<0.1015	<0.1015	<0.1015	<0.1015		0.0361 (J)
11/9/2016		0.0362 (J)						0.0331 (J)	
1/3/2017									
2/20/2017	<0.1015			<0.1015		<0.1015	<0.1015		
2/21/2017		0.0295 (J)	<0.1015		<0.1015			0.0323 (J)	
2/22/2017									0.028 (J)
5/30/2017	<0.1015		<0.1015			<0.1015			
5/31/2017		0.0312 (J)		<0.1015	<0.1015		<0.1015	0.0316 (J)	0.0297 (J)
7/5/2017	<0.1015	0.0315 (J)	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	0.0318 (J)	0.0302 (J)
9/5/2017					<0.1015		<0.1015		
9/7/2017	0.022 (J)	0.0408 (J)	<0.1015	<0.1015		<0.1015		0.0338 (J)	0.0345 (J)
6/11/2018	0.0386 (J)			<0.1015		<0.1015			
6/12/2018		0.034 (J)	<0.1015		<0.1015		<0.1015	0.0305 (J)	0.0331 (J)
10/22/2018	0.0456 (J)		<0.1015	<0.1015	<0.1015	<0.1015			
10/23/2018							<0.1015	0.0347 (J)	0.0345 (J)
10/24/2018		0.0416 (J)							
5/20/2019	0.0769 (J)			<0.1015	<0.1015	<0.1015			
5/21/2019		0.0413 (J)	<0.1015					<0.1015	0.0376 (J)
5/22/2019							<0.1015		
9/3/2019		0.0452 (J)	<0.1015						
9/4/2019	0.0641 (J)			<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	0.0363 (J)
2/11/2020	0.0406 (J)			<0.1015		<0.1015			
2/12/2020		0.043 (J)	<0.1015		<0.1015		<0.1015	<0.1015	0.0349 (J)
9/8/2020	0.0425 (J)		<0.1015			<0.1015			
9/9/2020		0.044 (J)		<0.1015	<0.1015		<0.1015	<0.1015	0.0366 (J)
4/13/2021	0.0333 (J)	0.0422 (J)	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	0.0306 (J)
10/4/2021	0.0392 (J)			<0.1015	<0.1015	<0.1015	<0.1015		0.0343 (J)
10/5/2021		0.0472 (J)	<0.1015					<0.1015	
10/6/2021									
4/12/2022	0.0481 (J)		<0.1015	<0.1015	<0.1015	<0.1015	<0.1015		
4/13/2022		0.0565 (J)						<0.1015	0.0353 (J)
8/16/2022	0.0379 (J)			<0.1015	<0.1015	<0.1015	<0.1015		
8/17/2022		0.0528 (J)	<0.1015						
8/18/2022								<0.1015	<0.1015
1/17/2023				<0.1015	<0.1015				0.035 (J)
1/18/2023	0.0416 (J)	0.0603 (J)	<0.1015			<0.1015	<0.1015	<0.1015	
7/10/2023	0.0436 (J)			<0.1015		<0.1015			
7/11/2023		0.0659 (J)	<0.1015		<0.1015			<0.1015	0.0346 (J)
7/12/2023							<0.1015		

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/2/2023 5:33 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	<0.1015	<0.1015	<0.1015		
5/10/2016	<0.1015				
5/11/2016		<0.1015	<0.1015		
7/5/2016				<0.1015	
7/6/2016	<0.1015	<0.1015	<0.1015		<0.1015
8/23/2016				<0.1015	<0.1015
9/6/2016	<0.1015	<0.1015	<0.1015		
9/7/2016				<0.1015	<0.1015
11/8/2016	<0.1015		<0.1015	<0.1015	<0.1015
11/9/2016		<0.1015			
1/3/2017				0.0211 (J)	<0.1015
2/20/2017			<0.1015		<0.1015
2/21/2017		<0.1015		<0.1015	
2/22/2017	<0.1015				
5/30/2017			<0.1015		
5/31/2017	<0.1015	<0.1015		<0.1015	<0.1015
7/5/2017	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
9/5/2017				<0.1015	<0.1015
9/7/2017	<0.1015	<0.1015	<0.1015		
6/11/2018					
6/12/2018	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
10/22/2018			<0.1015		
10/23/2018	<0.1015			<0.1015	<0.1015
10/24/2018		<0.1015			
5/20/2019					
5/21/2019	<0.1015	<0.1015	<0.1015		
5/22/2019				<0.1015	<0.1015
9/3/2019		<0.1015	<0.1015		
9/4/2019	<0.1015			<0.1015	<0.1015
2/11/2020					
2/12/2020	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
9/8/2020		<0.1015			
9/9/2020	<0.1015		<0.1015	<0.1015	<0.1015
4/13/2021	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
10/4/2021	<0.1015		<0.1015	<0.1015	
10/5/2021		<0.1015			
10/6/2021					<0.1015
4/12/2022			<0.1015		<0.1015
4/13/2022	<0.1015	<0.1015		<0.1015	
8/16/2022	<0.1015		<0.1015	<0.1015	<0.1015
8/17/2022		<0.1015			
8/18/2022					
1/17/2023				<0.1015	<0.1015
1/18/2023	<0.1015	<0.1015	<0.1015		
7/10/2023					
7/11/2023	<0.1015	<0.1015	<0.1015		
7/12/2023				<0.1015	<0.1015

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/2/2023 5:33 PM View: Appendix III - Interwell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-11	GN-GSA-MW-7	GN-GSA-MW-12	GN-GSA-MW-6	GN-GSA-MW-9	GN-GSA-MW-3 (bg)	GN-GSA-MW-2 (bg)	GN-GSA-MW-5	GN-GSA-MW-1
3/23/2016	0.02 (J)	0.063 (J)	0.058 (J)	<0.125	0.035 (J)	0.06 (J)	0.022 (J)	0.028 (J)	
3/24/2016									0.325
5/10/2016			0.095 (J)			0.111 (J)	0.068 (J)		0.33
5/11/2016	0.063 (J)	0.105 (J)		0.055 (J)	0.08 (J)			0.074 (J)	
7/5/2016							0.052 (J)		0.325
7/6/2016	0.053 (J)	0.094 (J)	0.069 (J)	0.047 (J)	0.072 (J)	0.089 (J)		0.065 (J)	
8/23/2016									
9/6/2016		0.08 (J)	0.055 (J)	0.036 (J)			0.038 (J)	0.052 (J)	0.315
9/7/2016	0.041 (J)				0.057 (J)	0.073 (J)			
11/8/2016		<0.125		<0.125	<0.125	<0.125	<0.125	<0.125	0.227 (J)
11/9/2016	<0.125		<0.125						
1/3/2017									
2/20/2017		0.09 (J)		0.1		0.05 (J)		0.1	
2/21/2017	0.1		0.05 (J)		0.1		0.1		
2/22/2017									0.34
5/30/2017				0.1	0.04 (J)			0.04 (J)	
5/31/2017	0.1	0.08 (J)	0.06 (J)			0.06 (J)	0.1		0.3
7/5/2017	<0.125	0.08 (J)	0.05 (J)	<0.125	<0.125	0.05 (J)	<0.125	<0.125	0.3
9/5/2017						0.06 (J)	<0.125		
9/7/2017	0.04 (J)	0.09 (J)	0.06 (J)	<0.125	0.04 (J)			<0.125	0.37
2/5/2018			0.08 (J)				0.04 (J)		0.37
2/6/2018	<0.125	0.08 (J)		<0.125	0.04 (J)	0.06 (J)		<0.125	
2/7/2018									
6/11/2018		0.09 (J)		<0.125				0.04 (J)	
6/12/2018	<0.125		0.06 (J)		0.04 (J)	0.05 (J)	<0.125		0.32
10/22/2018		0.1		<0.125	0.05 (J)		<0.125	0.06 (J)	
10/23/2018			0.06 (J)			0.05 (J)			0.39
10/24/2018	<0.125								
5/20/2019		0.0919 (J)		<0.125			<0.125	0.0842 (J)	
5/21/2019	<0.125		0.0649 (J)		0.0526 (J)				0.264
5/22/2019						0.0515 (J)			
9/3/2019	<0.125				0.0554 (J)				
9/4/2019		0.07 (J)	0.0547 (J)	<0.125		0.0594 (J)	<0.125	0.0962 (J)	0.33
2/11/2020		0.0912 (J)		<0.125				<0.125	
2/12/2020	<0.125		0.0586 (J)		<0.125	0.0566 (J)	<0.125		0.301
9/8/2020				<0.125	0.097 (J)			<0.125	
9/9/2020	<0.125	0.118	0.068 (J)			0.0748 (J)	0.0644 (J)		0.313
4/13/2021	<0.125	0.129	<0.125	<0.125	0.0602 (J)	0.069 (J)	<0.125	<0.125	0.29
10/4/2021		0.12		<0.125		0.0637 (J)	0.0664 (J)	<0.125	0.376
10/5/2021	<0.125		<0.125		<0.125				
10/6/2021									
4/12/2022		0.0724 (J)		<0.125	<0.125	<0.125	<0.125	<0.125	
4/13/2022	<0.125		<0.125						0.307
8/16/2022		0.112 (J)		<0.125		<0.125	0.0865 (J)	<0.125	
8/17/2022	<0.125				<0.125				
8/18/2022			<0.125						0.327
1/17/2023		0.1 (J)					<0.125		0.358
1/18/2023	<0.125		0.0913 (J)	<0.125	<0.125	0.0687 (J)		<0.125	
7/10/2023		0.1 (J)		<0.125				0.099 (J)	
7/11/2023	<0.125		<0.125		<0.125		<0.125		0.3
7/12/2023						0.0634 (J)			

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/2/2023 5:33 PM View: Appendix III - Interwell  
 Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-8	GN-GSA-MW-10	GN-GSA-MW-13	GN-GSA-MW-14S..GN-GSA-MW-15 ...	
3/23/2016					
3/24/2016	0.132 (J)	0.02 (J)	0.039 (J)		
5/10/2016			0.085 (J)		
5/11/2016	0.176 (J)	0.062 (J)			
7/5/2016				0.072 (J)	
7/6/2016	0.167 (J)	0.051 (J)	0.075 (J)		0.062 (J)
8/23/2016				0.066 (J)	0.045 (J)
9/6/2016	0.153 (J)	0.037 (J)	0.058 (J)		
9/7/2016				0.062 (J)	0.042 (J)
11/8/2016	0.043 (J)		0.3 (U)	<0.125	<0.125
11/9/2016		0.3 (U)			
1/3/2017				<0.125	<0.125
2/20/2017	0.15				0.1
2/21/2017		0.1		0.1	
2/22/2017			0.04 (J)		
5/30/2017	0.14				
5/31/2017		0.1	0.04 (J)	0.06 (J)	0.1
7/5/2017	0.13	<0.125	0.04 (J)	0.04 (J)	<0.125
9/5/2017				0.06 (J)	<0.125
9/7/2017	0.13	<0.125	0.05 (J)		
2/5/2018			0.04 (J)		
2/6/2018	0.15	<0.125		0.06 (J)	
2/7/2018					<0.125
6/11/2018					
6/12/2018	0.13	<0.125	0.04 (J)	0.05 (J)	<0.125
10/22/2018	0.15				
10/23/2018			0.05 (J)	0.07 (J)	<0.125
10/24/2018		<0.125			
5/20/2019					
5/21/2019	0.109	<0.125	0.0595 (J)		
5/22/2019				0.0601 (J)	<0.125
9/3/2019	0.123	<0.125			
9/4/2019			0.0555 (J)	0.0703 (J)	<0.125
2/11/2020					
2/12/2020	0.108	<0.125	<0.125	<0.125	<0.125
9/8/2020		0.0617 (J)			
9/9/2020	0.14		0.0655 (J)	0.0847 (J)	<0.125
4/13/2021	0.119	<0.125	0.0633 (J)	<0.125	<0.125
10/4/2021	0.134		0.0748 (J)	0.0838 (J)	
10/5/2021		<0.125			
10/6/2021					<0.125
4/12/2022	0.0621 (J)				<0.125
4/13/2022		<0.125	<0.125	<0.125	
8/16/2022	0.0979 (J)		0.0614 (J)	<0.125	<0.125
8/17/2022		<0.125			
8/18/2022					
1/17/2023				<0.125	<0.125
1/18/2023	0.105 (J)	<0.125	<0.125		
7/10/2023					
7/11/2023	0.0857 (J)	<0.125	0.103 (J)		
7/12/2023				<0.125	<0.125

# Prediction Limit

Constituent: pH (pH) Analysis Run 10/2/2023 5:33 PM View: Appendix III - Interwell

Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-11	GN-GSA-MW-7	GN-GSA-MW-12	GN-GSA-MW-6	GN-GSA-MW-9	GN-GSA-MW-3 (bg)	GN-GSA-MW-2 (bg)	GN-GSA-MW-5	GN-GSA-MW-1
3/23/2016	6.26	6.5	7.28	4.91	6.88	6.83	7.18	6.41	
3/24/2016									7.7
5/10/2016			7.19			6.84	7.2		7.67
5/11/2016	6.04	6.54		4.79	6.84			6.5	
7/5/2016							7.15		7.68
7/6/2016	6	6.58	7.29	4.66	7.01	6.94		6.47	
8/23/2016									
9/6/2016		6.64	7.29	4.8			7.17	6.51	7.8
9/7/2016	6.1				7.03	6.84			
11/8/2016		6.61		4.81	7.15	6.84	7.12	6.48	7.74
11/9/2016	5.85		7.29						
1/3/2017									
2/20/2017		6.63		4.51		7.04		6.39	
2/21/2017	5.99		7.1		6.67		7.12		
2/22/2017									7.61
5/30/2017				4.61	6.91			6.38	
5/31/2017	6.03	6.54	7.16			6.91	7.17		7.7
7/5/2017	6.13	6.67	7.08	4.64	6.51	7.02	7.18	6.44	7.66
9/5/2017						6.78	7.17		
9/7/2017	6.17	6.69	7.17	4.67	6.96			6.44	7.7
2/5/2018			7.22				7.12		7.78
2/6/2018	6.17	6.71		4.61	6.8	6.96		6.36	
2/7/2018									
6/11/2018		6.7		4.68				6.43	
6/12/2018	6.13		7.19		6.77	6.76	7.19		7.62
10/22/2018		6.71		4.68	6.86		7.06	6.48	
10/23/2018			7.22			6.59			7.65
10/24/2018	6.09								
5/20/2019		6.81		4.59			7.13	6.59	
5/21/2019	5.97		7.1		6.79				7.5
5/22/2019						6.38			
9/3/2019	5.12				6.53				
9/4/2019		6.78	7.24	4.59		6.71	7.16	6.81	7.4
2/11/2020		6.72		4.59				6.42	
2/12/2020	6		7.14		6.57	6.98	7.11		7.66
9/8/2020				6	5.85			6.2	
9/9/2020	5.67	6.86	6.77			6.48	7.22		7.6
4/13/2021	5.46	6.84	6.61	4.63	6.9	6.71	6.94	6.36	7.7
10/4/2021		6.96		4.86		6.43	7.13	6.66	7.33
10/5/2021	6.01		7.25		6.96				
10/6/2021									
4/12/2022		6.73		4.38	6.22	5.57	6.48	6.32	
4/13/2022	5.29		6.74						7.5
8/16/2022		6.7		4.58		6.25	7.04	6.28	
8/17/2022	5.6				6.84				
8/18/2022			6.82						7.46
1/17/2023		6.78					7.14		7.69
1/18/2023	5.77		7.11	4.75	6.71	6.99		6.38	
7/10/2023		6.66		4.4				6.3	
7/11/2023	5.33		6.79		6.23		7.04		7.58
7/12/2023						6.21			

# Prediction Limit

Constituent: pH (pH) Analysis Run 10/2/2023 5:33 PM View: Appendix III - Interwell  
 Plant Gaston Client: Southern Company Data: Gaston GSA

	GN-GSA-MW-8	GN-GSA-MW-10	GN-GSA-MW-13	GN-GSA-MW-14S..GN-GSA-MW-15 ...	
3/23/2016					
3/24/2016	7.45	6.95	7.14		
5/10/2016			7.17		
5/11/2016	7.48	7.07			
7/5/2016				7.44	
7/6/2016	7.46	7.13	7.19		6.1
8/23/2016				7.47	5.87
9/6/2016	7.44	7.1	7.18		
9/7/2016				7.51	5.92
11/8/2016	7.37		7.18	7.37	5.91
11/9/2016		7.1			
1/3/2017				7.37	5.93
2/20/2017	7.36				5.91
2/21/2017		7		7.41	
2/22/2017			7.02		
5/30/2017	7.38				
5/31/2017		7.01	7.07	7.47	6
7/5/2017	7.44	7.07	7	7.5	6
9/5/2017				7.39	5.9
9/7/2017	7.41	7.01	7.02		
2/5/2018			7.12		
2/6/2018	7.41	7.09		7.47	
2/7/2018					5.86
6/11/2018					
6/12/2018	7.4	7.07	7.09	7.53	6.05
10/22/2018	7.33				
10/23/2018			7.09	7.4	5.84
10/24/2018		7.14			
5/20/2019					
5/21/2019	7.31	6.98	7.05		
5/22/2019				7.43	5.81
9/3/2019	7.46	6.67			
9/4/2019			6.71	7.45	5.67
2/11/2020					
2/12/2020	7.51	7.03	7.09	7.47	5.72
9/8/2020		5.9			
9/9/2020	7.54		6.95	7.32	5.71
4/13/2021	7.7	7.22	7.17	7.33	5.84
10/4/2021	7.82		6.95	7.21	
10/5/2021		7.12			
10/6/2021					5.64
4/12/2022	7.22				5.25
4/13/2022		6.85	6.84	7.4	
8/16/2022	6.98		6.92	6.96	5.37
8/17/2022		6.97			
8/18/2022					
1/17/2023				7.43	5.74
1/18/2023	7.54	7.08	7.13		
7/10/2023					
7/11/2023	7.32	6.89	6.62		
7/12/2023				6.68	5.38

FIGURE H.



# Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Gaston    Client: Southern Company    Data: Gaston GSA    Printed 10/2/2023, 6:11 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Alpha</u>	<u>Method</u>
Calcium (mg/L)	GN-GSA-MW-15 (bg)	-0.7048	-172	-87	Yes	21	0	n/a	0.01	NP
Calcium (mg/L)	GN-GSA-MW-3 (bg)	-8.196	-134	-87	Yes	21	0	n/a	0.01	NP
Calcium (mg/L)	GN-GSA-MW-5	5.982	162	87	Yes	21	0	n/a	0.01	NP
Chloride (mg/L)	GN-GSA-MW-11	1.994	168	87	Yes	21	0	n/a	0.01	NP
Chloride (mg/L)	GN-GSA-MW-14S (bg)	-0.3525	-147	-87	Yes	21	0	n/a	0.01	NP
pH (pH)	GN-GSA-MW-1	-0.02452	-93	-92	Yes	22	0	n/a	0.01	NP
pH (pH)	GN-GSA-MW-15 (bg)	-0.06518	-146	-92	Yes	22	0	n/a	0.01	NP
pH (pH)	GN-GSA-MW-3 (bg)	-0.08319	-95	-92	Yes	22	0	n/a	0.01	NP
Sulfate (mg/L)	GN-GSA-MW-14S (bg)	-1.143	-140	-87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	GN-GSA-MW-3 (bg)	-2.163	-178	-87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	GN-GSA-MW-5	20.68	166	87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	GN-GSA-MW-8	0.4486	134	87	Yes	21	0	n/a	0.01	NP
TDS (mg/L)	GN-GSA-MW-14S (bg)	-3.172	-102	-87	Yes	21	0	n/a	0.01	NP
TDS (mg/L)	GN-GSA-MW-15 (bg)	-2.977	-122	-87	Yes	21	4.762	n/a	0.01	NP
TDS (mg/L)	GN-GSA-MW-3 (bg)	-26.35	-154	-87	Yes	21	0	n/a	0.01	NP
TDS (mg/L)	GN-GSA-MW-5	35.35	155	87	Yes	21	0	n/a	0.01	NP

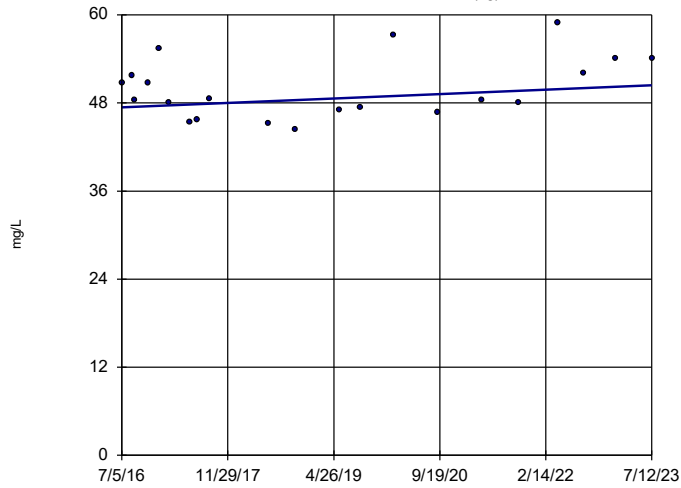
# Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 10/2/2023, 6:11 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Calcium (mg/L)	GN-GSA-MW-14S (bg)	0.4261	24	87	No	21	0	n/a	0.01	NP
<b>Calcium (mg/L)</b>	<b>GN-GSA-MW-15 (bg)</b>	<b>-0.7048</b>	<b>-172</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium (mg/L)	GN-GSA-MW-2 (bg)	1.156	67	87	No	21	0	n/a	0.01	NP
<b>Calcium (mg/L)</b>	<b>GN-GSA-MW-3 (bg)</b>	<b>-8.196</b>	<b>-134</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GN-GSA-MW-5</b>	<b>5.982</b>	<b>162</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride (mg/L)</b>	<b>GN-GSA-MW-11</b>	<b>1.994</b>	<b>168</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride (mg/L)</b>	<b>GN-GSA-MW-14S (bg)</b>	<b>-0.3525</b>	<b>-147</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	GN-GSA-MW-15 (bg)	-0.1996	-80	-87	No	21	4.762	n/a	0.01	NP
Chloride (mg/L)	GN-GSA-MW-2 (bg)	0.01843	25	87	No	21	0	n/a	0.01	NP
Chloride (mg/L)	GN-GSA-MW-3 (bg)	-0.05385	-83	-87	No	21	0	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-1	0	-1	-92	No	22	0	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-14S (bg)	0.005474	72	92	No	22	36.36	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-15 (bg)	0	80	92	No	22	77.27	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-2 (bg)	0.001872	70	92	No	22	54.55	n/a	0.01	NP
Fluoride (mg/L)	GN-GSA-MW-3 (bg)	0	6	92	No	22	13.64	n/a	0.01	NP
<b>pH (pH)</b>	<b>GN-GSA-MW-1</b>	<b>-0.02452</b>	<b>-93</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH (pH)	GN-GSA-MW-14S (bg)	-0.02094	-78	-92	No	22	0	n/a	0.01	NP
<b>pH (pH)</b>	<b>GN-GSA-MW-15 (bg)</b>	<b>-0.06518</b>	<b>-146</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH (pH)	GN-GSA-MW-2 (bg)	-0.01481	-86	-92	No	22	0	n/a	0.01	NP
<b>pH (pH)</b>	<b>GN-GSA-MW-3 (bg)</b>	<b>-0.08319</b>	<b>-95</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH (pH)	GN-GSA-MW-6	-0.02343	-64	-92	No	22	0	n/a	0.01	NP
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-14S (bg)</b>	<b>-1.143</b>	<b>-140</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate (mg/L)	GN-GSA-MW-15 (bg)	-0.1832	-68	-81	No	20	0	n/a	0.01	NP
Sulfate (mg/L)	GN-GSA-MW-2 (bg)	0.1097	26	87	No	21	0	n/a	0.01	NP
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-3 (bg)</b>	<b>-2.163</b>	<b>-178</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-5</b>	<b>20.68</b>	<b>166</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate (mg/L)</b>	<b>GN-GSA-MW-8</b>	<b>0.4486</b>	<b>134</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>TDS (mg/L)</b>	<b>GN-GSA-MW-14S (bg)</b>	<b>-3.172</b>	<b>-102</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>TDS (mg/L)</b>	<b>GN-GSA-MW-15 (bg)</b>	<b>-2.977</b>	<b>-122</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>4.762</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
TDS (mg/L)	GN-GSA-MW-2 (bg)	-1.447	-46	-87	No	21	0	n/a	0.01	NP
<b>TDS (mg/L)</b>	<b>GN-GSA-MW-3 (bg)</b>	<b>-26.35</b>	<b>-154</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>TDS (mg/L)</b>	<b>GN-GSA-MW-5</b>	<b>35.35</b>	<b>155</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>

### Sen's Slope Estimator

GN-GSA-MW-14S (bg)

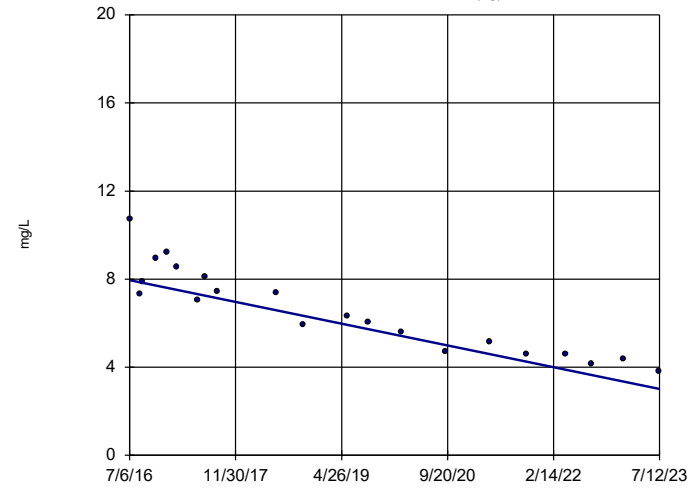


n = 21  
Slope = 0.4261  
units per year.  
Mann-Kendall  
statistic = 24  
critical = 87  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Calcium Analysis Run 10/2/2023 6:09 PM View: Appendix III - Trend Tests  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

GN-GSA-MW-15 (bg)

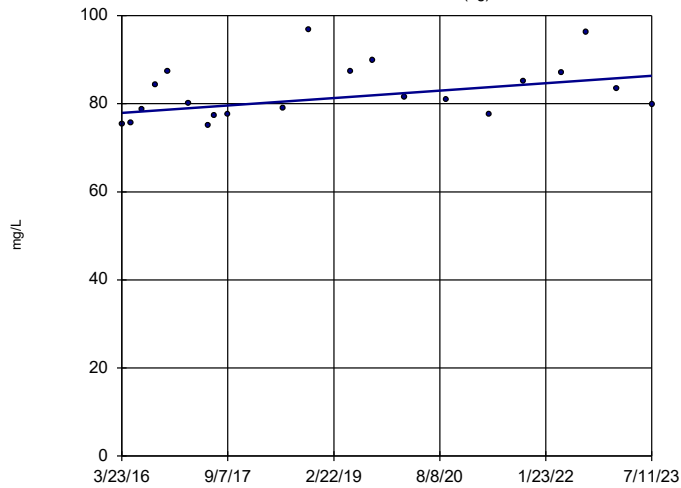


n = 21  
Slope = -0.7048  
units per year.  
Mann-Kendall  
statistic = -172  
critical = -87  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Calcium Analysis Run 10/2/2023 6:09 PM View: Appendix III - Trend Tests  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

GN-GSA-MW-2 (bg)

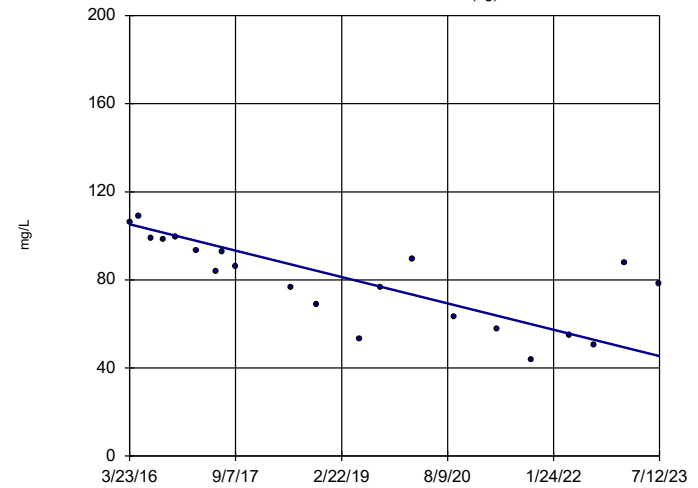


n = 21  
Slope = 1.156  
units per year.  
Mann-Kendall  
statistic = 67  
critical = 87  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Calcium Analysis Run 10/2/2023 6:09 PM View: Appendix III - Trend Tests  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

GN-GSA-MW-3 (bg)

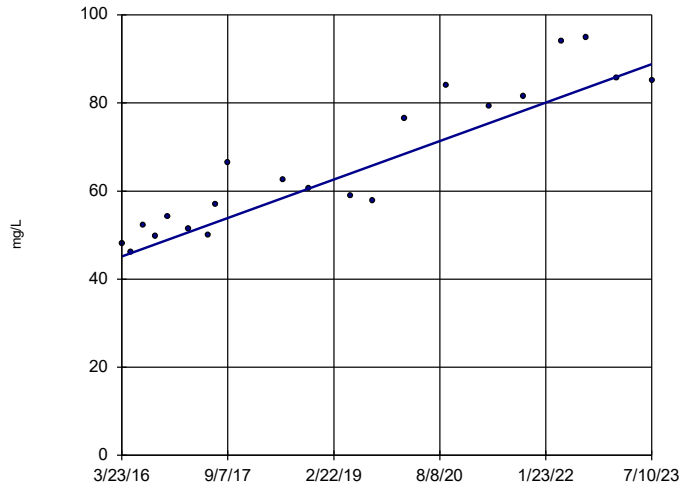


n = 21  
Slope = -8.196  
units per year.  
Mann-Kendall  
statistic = -134  
critical = -87  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Calcium Analysis Run 10/2/2023 6:09 PM View: Appendix III - Trend Tests  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

GN-GSA-MW-5

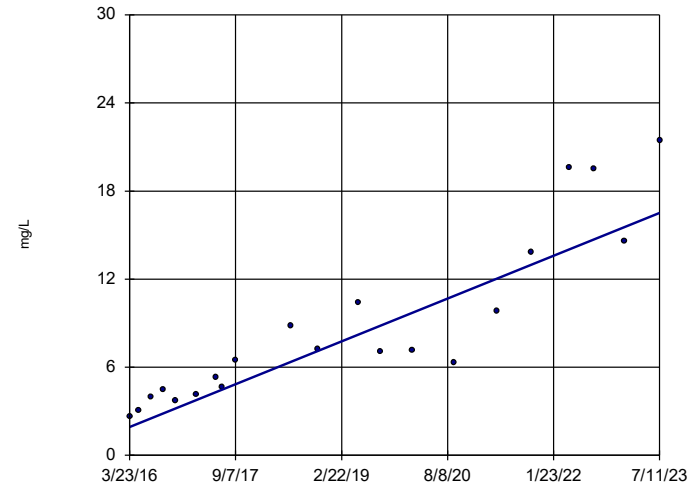


n = 21  
 Slope = 5.982  
 units per year.  
 Mann-Kendall  
 statistic = 162  
 critical = 87  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium Analysis Run 10/2/2023 6:09 PM View: Appendix III - Trend Tests  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

GN-GSA-MW-11

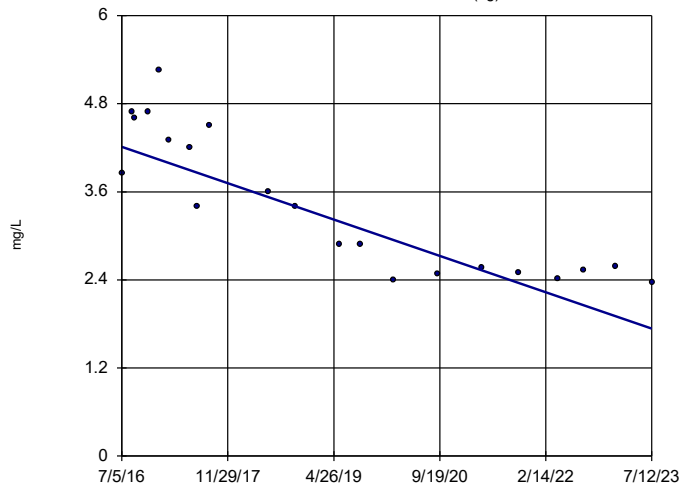


n = 21  
 Slope = 1.994  
 units per year.  
 Mann-Kendall  
 statistic = 168  
 critical = 87  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 10/2/2023 6:10 PM View: Appendix III - Trend Tests  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

GN-GSA-MW-14S (bg)



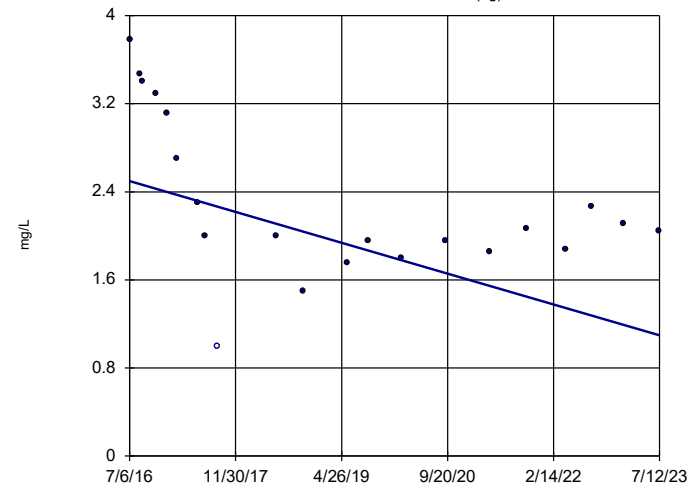
n = 21  
 Slope = -0.3525  
 units per year.  
 Mann-Kendall  
 statistic = -147  
 critical = -87  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 10/2/2023 6:10 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)

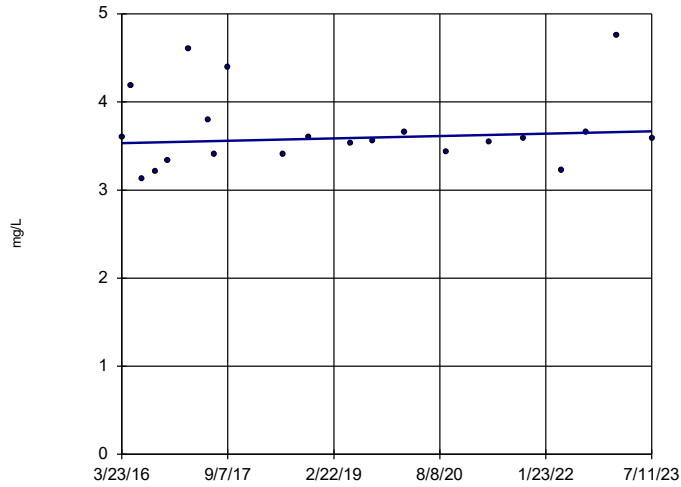


n = 21  
 Slope = -0.1996  
 units per year.  
 Mann-Kendall  
 statistic = -80  
 critical = -87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 10/2/2023 6:10 PM View: Appendix III - Trend Tests  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

GN-GSA-MW-2 (bg)

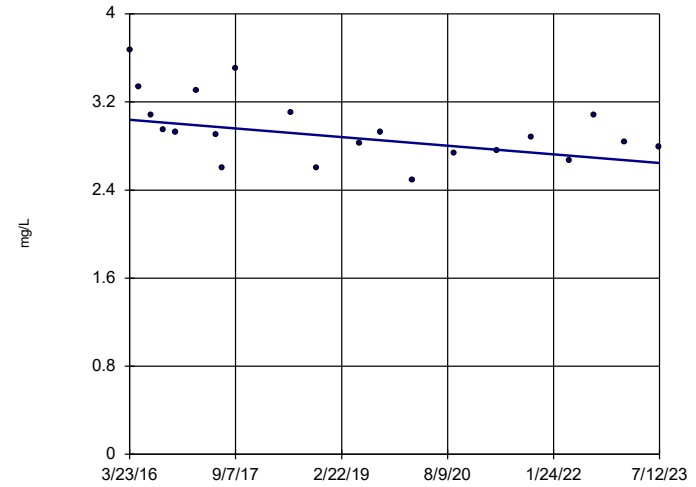


n = 21  
 Slope = 0.01843  
 units per year.  
 Mann-Kendall  
 statistic = 25  
 critical = 87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 10/2/2023 6:10 PM View: Appendix III - Trend Tests  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

GN-GSA-MW-3 (bg)

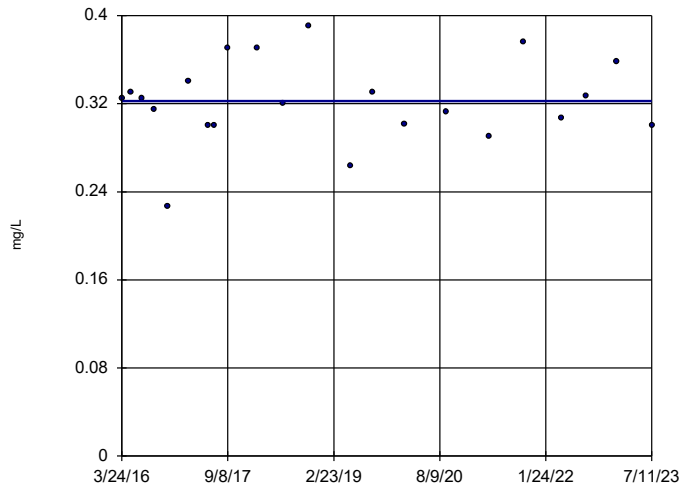


n = 21  
 Slope = -0.05385  
 units per year.  
 Mann-Kendall  
 statistic = -83  
 critical = -87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 10/2/2023 6:10 PM View: Appendix III - Trend Tests  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

GN-GSA-MW-1



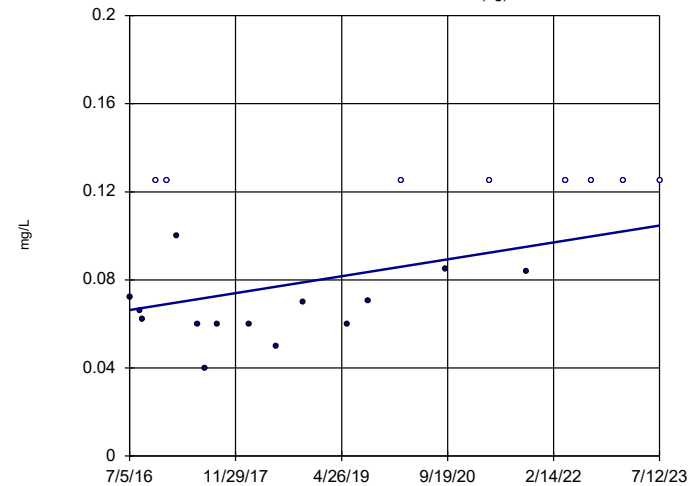
n = 22  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = -1  
 critical = -92  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Fluoride Analysis Run 10/2/2023 6:10 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-14S (bg)



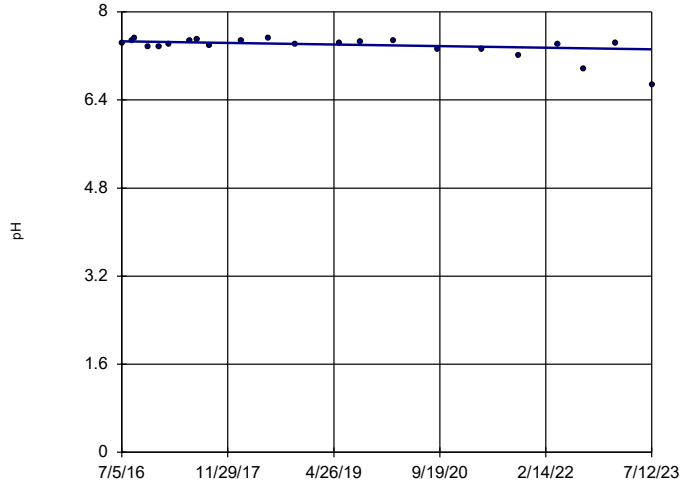
n = 22  
 Slope = 0.005474  
 units per year.  
 Mann-Kendall  
 statistic = 72  
 critical = 92  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Fluoride Analysis Run 10/2/2023 6:10 PM View: Appendix III - Trend Tests  
 Plant Gaston Client: Southern Company Data: Gaston GSA



### Sen's Slope Estimator

GN-GSA-MW-14S (bg)

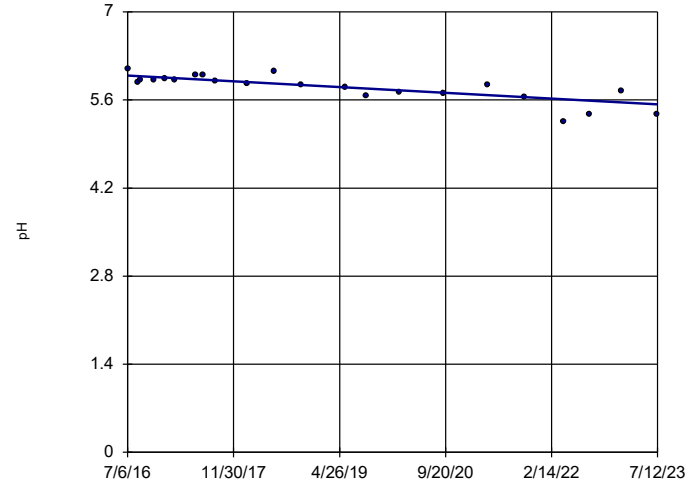


n = 22  
 Slope = -0.02094  
 units per year.  
 Mann-Kendall  
 statistic = -78  
 critical = -92  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH Analysis Run 10/2/2023 6:10 PM View: Appendix III - Trend Tests  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

GN-GSA-MW-15 (bg)

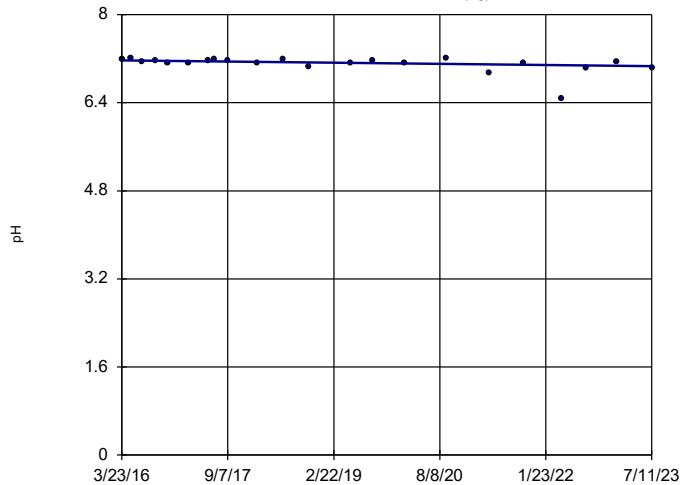


n = 22  
 Slope = -0.06518  
 units per year.  
 Mann-Kendall  
 statistic = -146  
 critical = -92  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH Analysis Run 10/2/2023 6:10 PM View: Appendix III - Trend Tests  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

GN-GSA-MW-2 (bg)

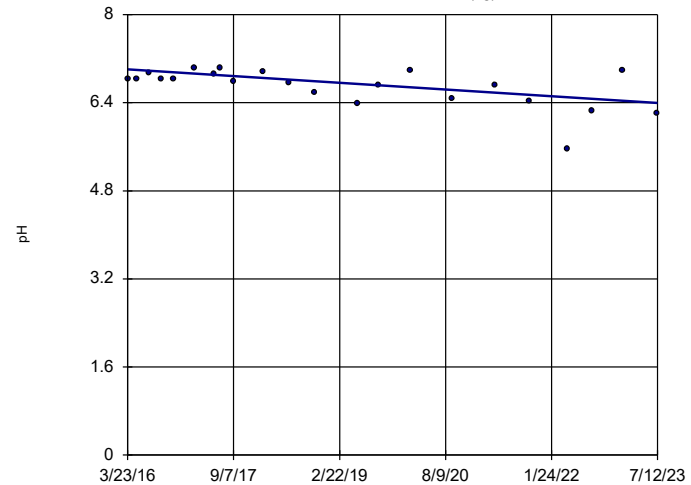


n = 22  
 Slope = -0.01481  
 units per year.  
 Mann-Kendall  
 statistic = -86  
 critical = -92  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH Analysis Run 10/2/2023 6:10 PM View: Appendix III - Trend Tests  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

GN-GSA-MW-3 (bg)

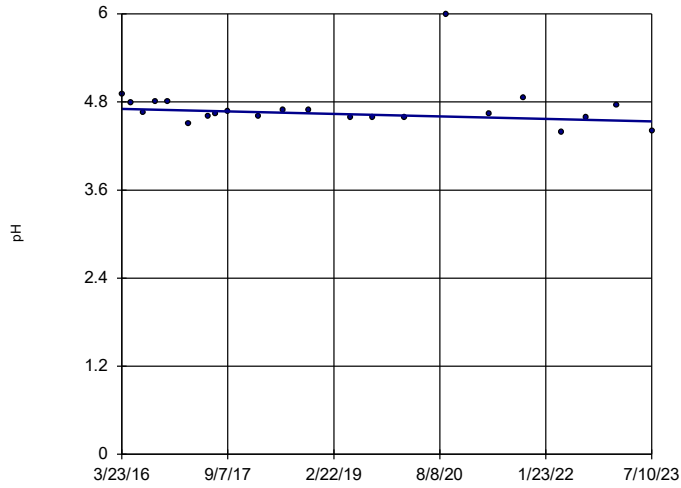


n = 22  
 Slope = -0.08319  
 units per year.  
 Mann-Kendall  
 statistic = -95  
 critical = -92  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH Analysis Run 10/2/2023 6:10 PM View: Appendix III - Trend Tests  
 Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

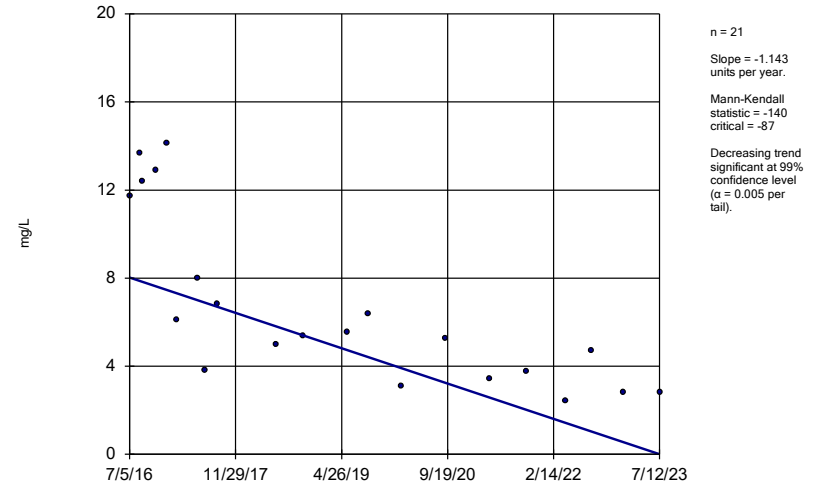
GN-GSA-MW-6



Constituent: pH Analysis Run 10/2/2023 6:10 PM View: Appendix III - Trend Tests  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

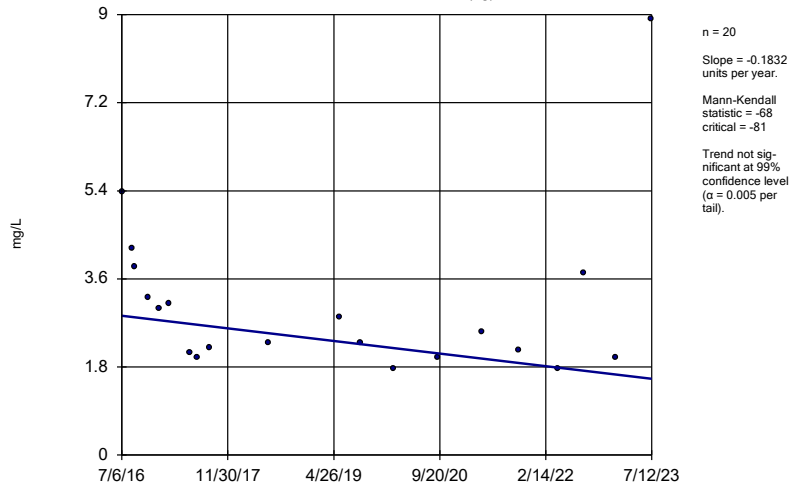
GN-GSA-MW-14S (bg)



Constituent: Sulfate Analysis Run 10/2/2023 6:10 PM View: Appendix III - Trend Tests  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

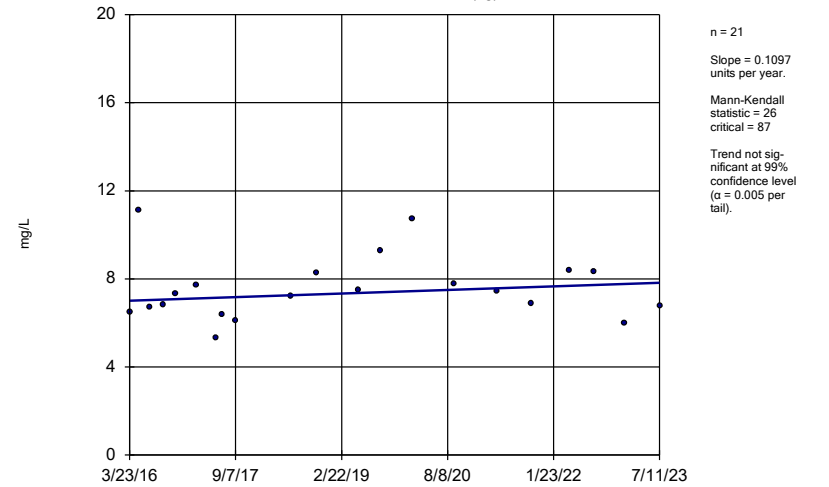
GN-GSA-MW-15 (bg)



Constituent: Sulfate Analysis Run 10/2/2023 6:10 PM View: Appendix III - Trend Tests  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

GN-GSA-MW-2 (bg)

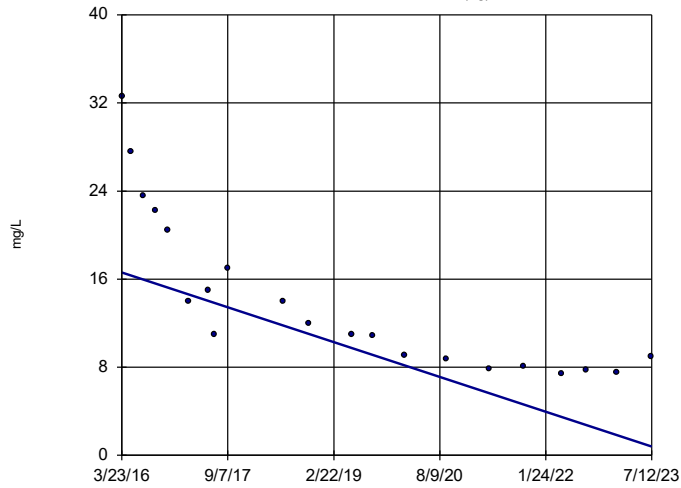


Constituent: Sulfate Analysis Run 10/2/2023 6:10 PM View: Appendix III - Trend Tests  
Plant Gaston Client: Southern Company Data: Gaston GSA



### Sen's Slope Estimator

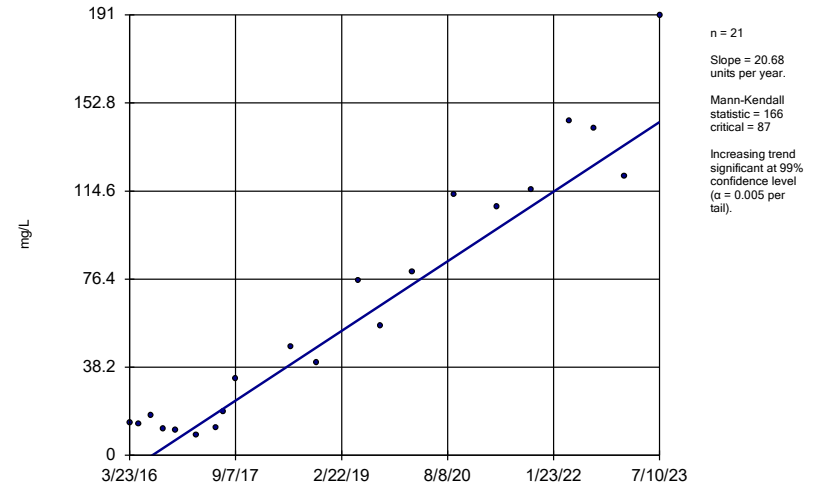
GN-GSA-MW-3 (bg)



Constituent: Sulfate Analysis Run 10/2/2023 6:10 PM View: Appendix III - Trend Tests  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

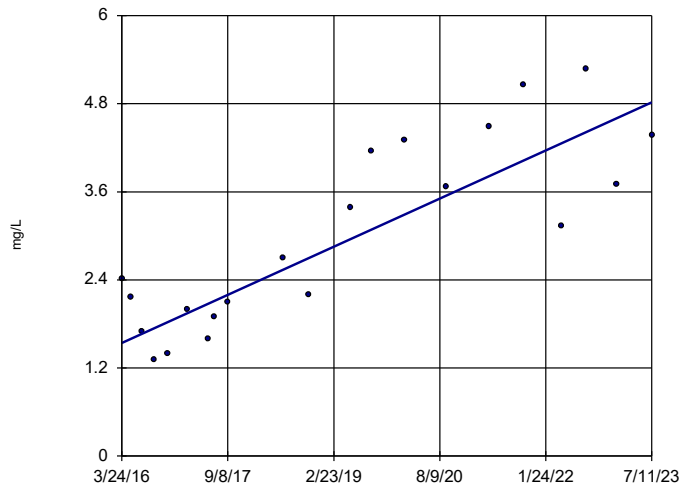
GN-GSA-MW-5



Constituent: Sulfate Analysis Run 10/2/2023 6:10 PM View: Appendix III - Trend Tests  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

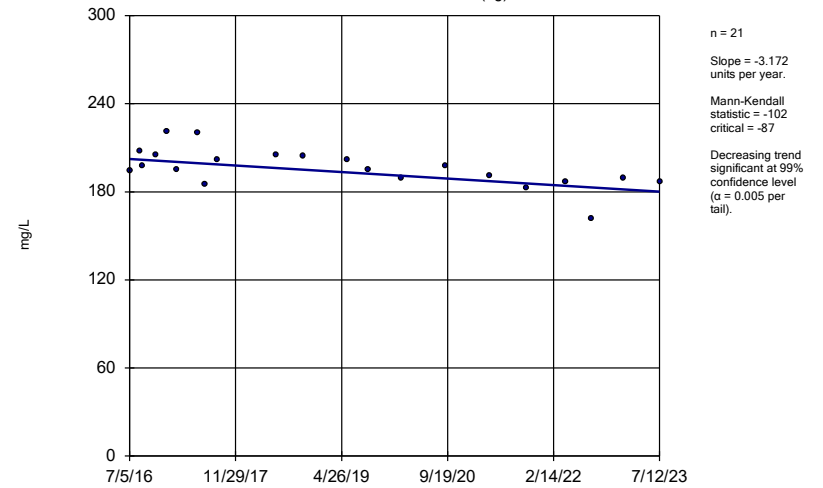
GN-GSA-MW-8



Constituent: Sulfate Analysis Run 10/2/2023 6:10 PM View: Appendix III - Trend Tests  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

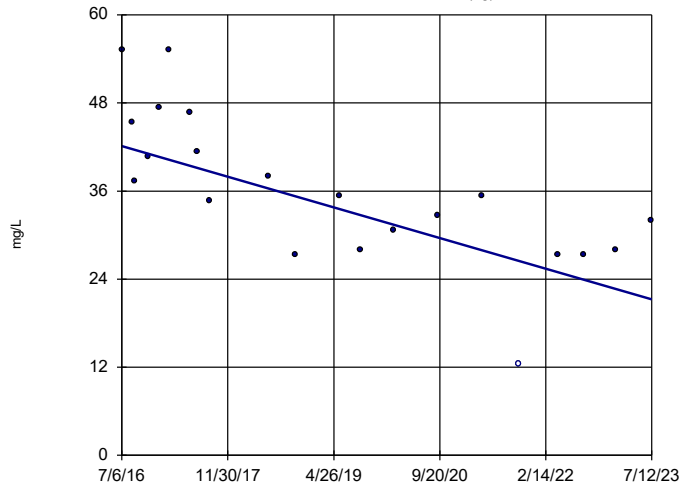
GN-GSA-MW-14S (bg)



Constituent: TDS Analysis Run 10/2/2023 6:10 PM View: Appendix III - Trend Tests  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

GN-GSA-MW-15 (bg)

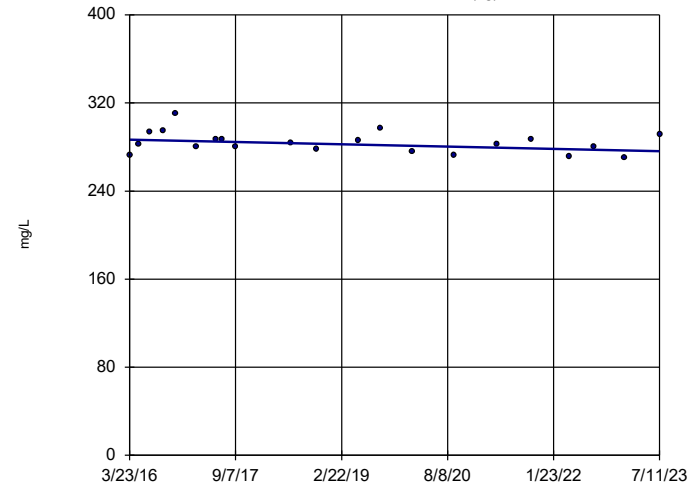


n = 21  
Slope = -2.977  
units per year.  
Mann-Kendall  
statistic = -122  
critical = -87  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: TDS Analysis Run 10/2/2023 6:10 PM View: Appendix III - Trend Tests  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

GN-GSA-MW-2 (bg)

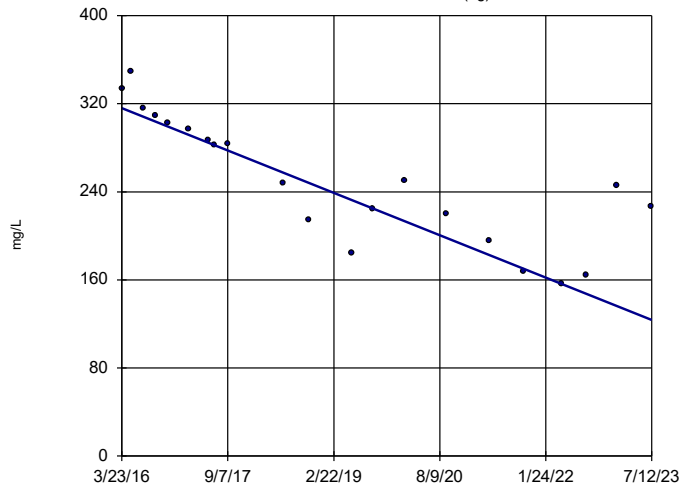


n = 21  
Slope = -1.447  
units per year.  
Mann-Kendall  
statistic = -46  
critical = -87  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: TDS Analysis Run 10/2/2023 6:10 PM View: Appendix III - Trend Tests  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

GN-GSA-MW-3 (bg)

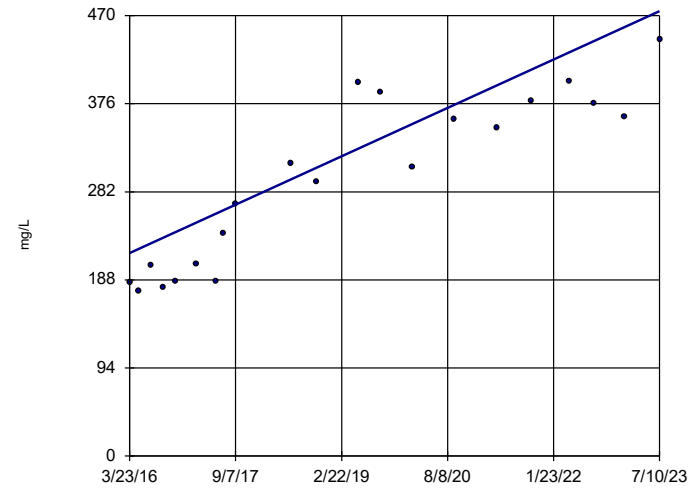


n = 21  
Slope = -26.35  
units per year.  
Mann-Kendall  
statistic = -154  
critical = -87  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: TDS Analysis Run 10/2/2023 6:10 PM View: Appendix III - Trend Tests  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

GN-GSA-MW-5



n = 21  
Slope = 35.35  
units per year.  
Mann-Kendall  
statistic = 155  
critical = 87  
Increasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: TDS Analysis Run 10/2/2023 6:10 PM View: Appendix III - Trend Tests  
Plant Gaston Client: Southern Company Data: Gaston GSA

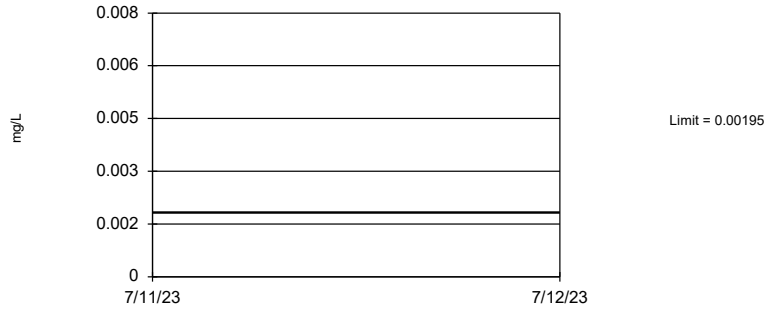
FIGURE I.

# Upper Tolerance Limits - Summary Table

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 10/2/2023, 5:41 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg.N</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	n/a	0.00195	n/a	n/a	n/a	84	94.05	n/a	n/a	0.01345	NP Inter
Arsenic (mg/L)	n/a	0.00032	n/a	n/a	n/a	84	76.19	n/a	n/a	0.01345	NP Inter
Barium (mg/L)	n/a	0.0622	n/a	n/a	n/a	84	0	n/a	n/a	0.01345	NP Inter
Beryllium (mg/L)	n/a	0.001015	n/a	n/a	n/a	84	100	n/a	n/a	0.01345	NP Inter
Cadmium (mg/L)	n/a	0.000203	n/a	n/a	n/a	84	100	n/a	n/a	0.01345	NP Inter
Chromium (mg/L)	n/a	0.00102	n/a	n/a	n/a	84	72.62	n/a	n/a	0.01345	NP Inter
Cobalt (mg/L)	n/a	0.00313	n/a	n/a	n/a	84	85.71	n/a	n/a	0.01345	NP Inter
Combined Radium 226 + 228 (pCi/L)	n/a	2.36	n/a	n/a	n/a	84	2.381	n/a	n/a	0.01345	NP Inter
Fluoride (mg/L)	n/a	0.125	n/a	n/a	n/a	88	45.45	n/a	n/a	0.01096	NP Inter
Lead (mg/L)	n/a	0.00023	n/a	n/a	n/a	84	92.86	n/a	n/a	0.01345	NP Inter
Lithium (mg/L)	n/a	0.02	n/a	n/a	n/a	84	100	n/a	n/a	0.01345	NP Inter
Mercury (mg/L)	n/a	0.0005	n/a	n/a	n/a	84	100	n/a	n/a	0.01345	NP Inter
Molybdenum (mg/L)	n/a	0.01015	n/a	n/a	n/a	84	85.71	n/a	n/a	0.01345	NP Inter
Selenium (mg/L)	n/a	0.001015	n/a	n/a	n/a	84	96.43	n/a	n/a	0.01345	NP Inter
Thallium (mg/L)	n/a	0.000228	n/a	n/a	n/a	84	98.81	n/a	n/a	0.01345	NP Inter

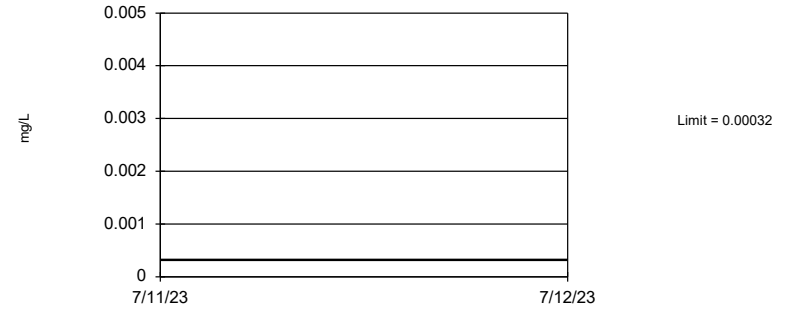
### Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 84 background values. 94.05% NDs. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01345.

Constituent: Antimony Analysis Run 10/2/2023 5:39 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 84 background values. 76.19% NDs. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01345.

Constituent: Arsenic Analysis Run 10/2/2023 5:39 PM View: Appendix IV - UTLs  
Plant Gaston Client: Southern Company Data: Gaston GSA

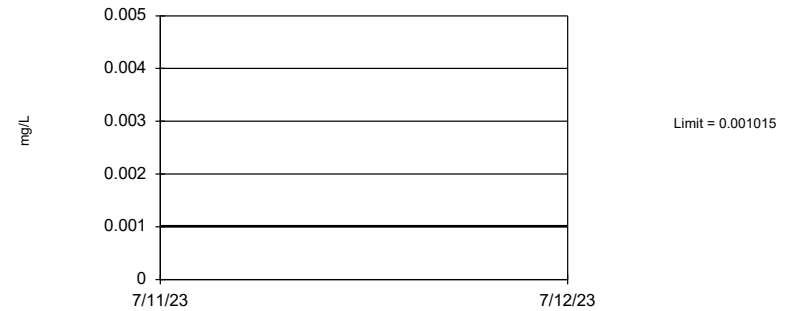
### Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 84 background values. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01345.

Constituent: Barium Analysis Run 10/2/2023 5:39 PM View: Appendix IV - UTLs  
Plant Gaston Client: Southern Company Data: Gaston GSA

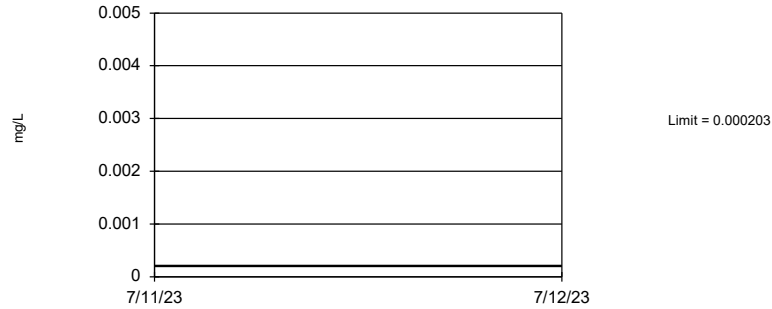
### Tolerance Limit Interwell Non-parametric



NP test selected by user. All background values were censored; limit is most recent reporting limit. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01345.

Constituent: Beryllium Analysis Run 10/2/2023 5:39 PM View: Appendix IV - UTLs  
Plant Gaston Client: Southern Company Data: Gaston GSA

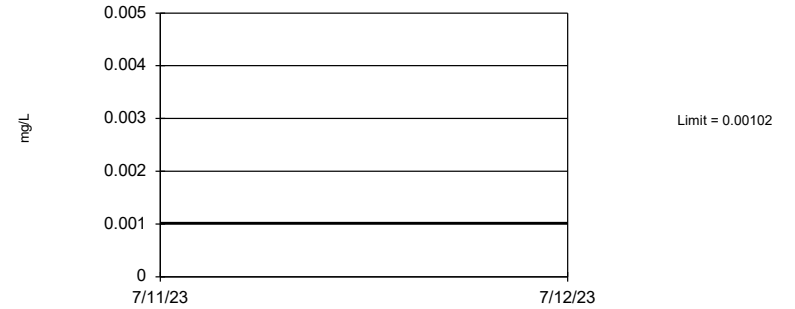
### Tolerance Limit Interwell Non-parametric



NP test selected by user. All background values were censored; limit is most recent reporting limit. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01345.

Constituent: Cadmium Analysis Run 10/2/2023 5:39 PM View: Appendix IV - UTLs  
Plant Gaston Client: Southern Company Data: Gaston GSA

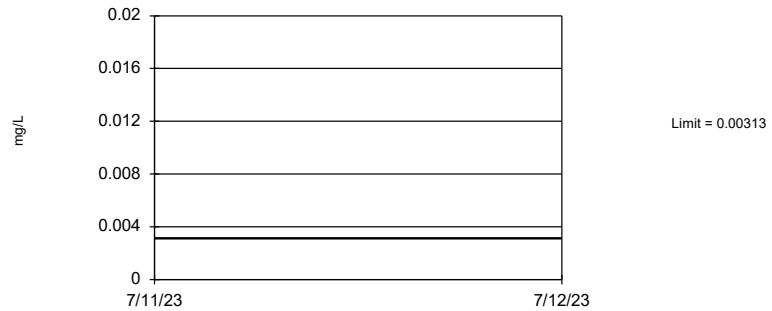
### Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 84 background values. 72.62% NDs. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01345.

Constituent: Chromium Analysis Run 10/2/2023 5:39 PM View: Appendix IV - UTLs  
Plant Gaston Client: Southern Company Data: Gaston GSA

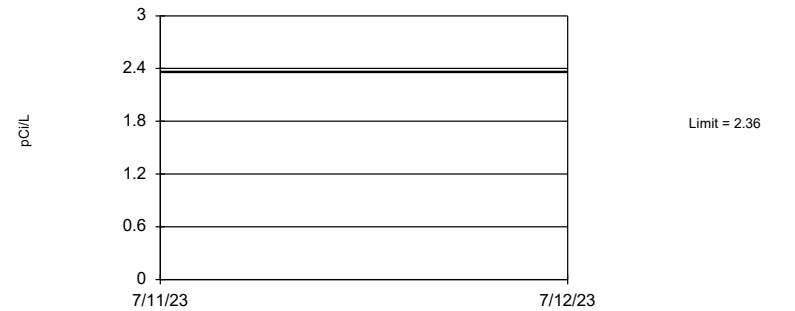
### Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 84 background values. 85.71% NDs. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01345.

Constituent: Cobalt Analysis Run 10/2/2023 5:39 PM View: Appendix IV - UTLs  
Plant Gaston Client: Southern Company Data: Gaston GSA

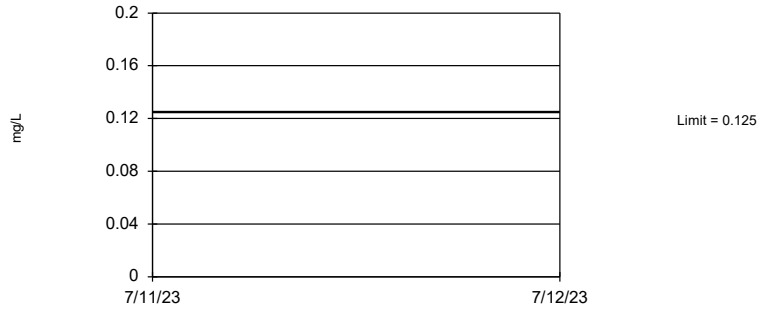
### Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 84 background values. 2.381% NDs. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01345.

Constituent: Combined Radium 226 + 228 Analysis Run 10/2/2023 5:39 PM View: Appendix IV - UTLs  
Plant Gaston Client: Southern Company Data: Gaston GSA

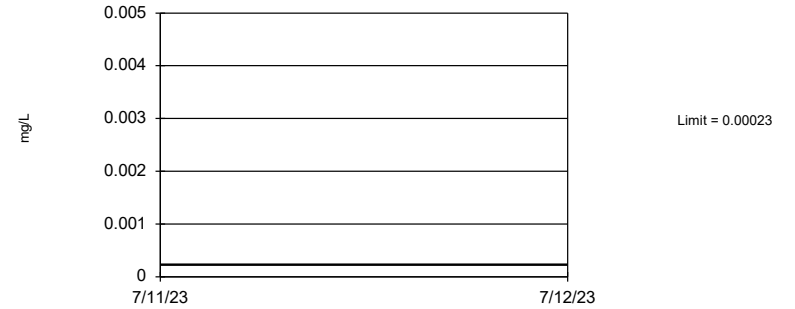
### Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 88 background values. 45.45% NDs. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01096.

Constituent: Fluoride Analysis Run 10/2/2023 5:39 PM View: Appendix IV - UTLs  
Plant Gaston Client: Southern Company Data: Gaston GSA

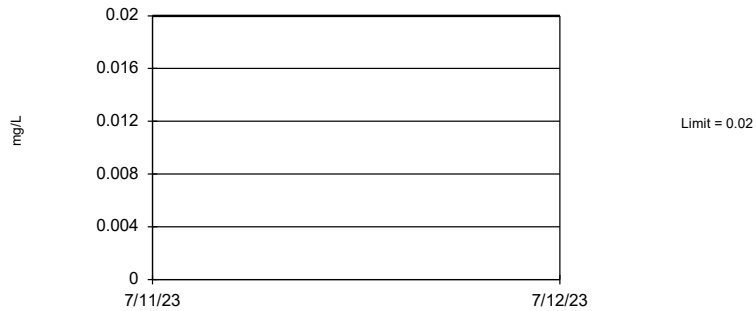
### Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 84 background values. 92.86% NDs. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01345.

Constituent: Lead Analysis Run 10/2/2023 5:39 PM View: Appendix IV - UTLs  
Plant Gaston Client: Southern Company Data: Gaston GSA

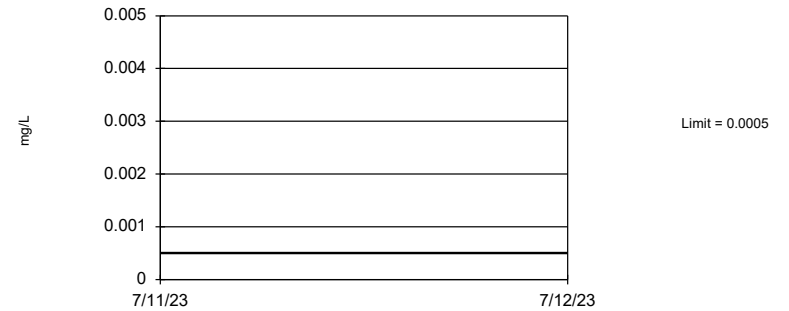
### Tolerance Limit Interwell Non-parametric



NP test selected by user. All background values were censored; limit is most recent reporting limit. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01345.

Constituent: Lithium Analysis Run 10/2/2023 5:39 PM View: Appendix IV - UTLs  
Plant Gaston Client: Southern Company Data: Gaston GSA

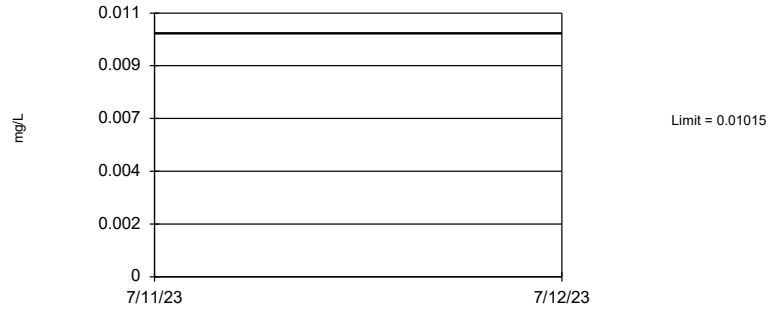
### Tolerance Limit Interwell Non-parametric



NP test selected by user. All background values were censored; limit is most recent reporting limit. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01345.

Constituent: Mercury Analysis Run 10/2/2023 5:39 PM View: Appendix IV - UTLs  
Plant Gaston Client: Southern Company Data: Gaston GSA

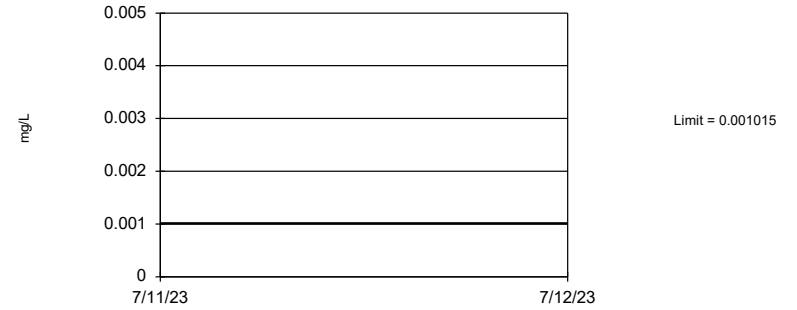
### Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 84 background values. 85.71% NDs. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01345.

Constituent: Molybdenum Analysis Run 10/2/2023 5:39 PM View: Appendix IV - UTLs  
Plant Gaston Client: Southern Company Data: Gaston GSA

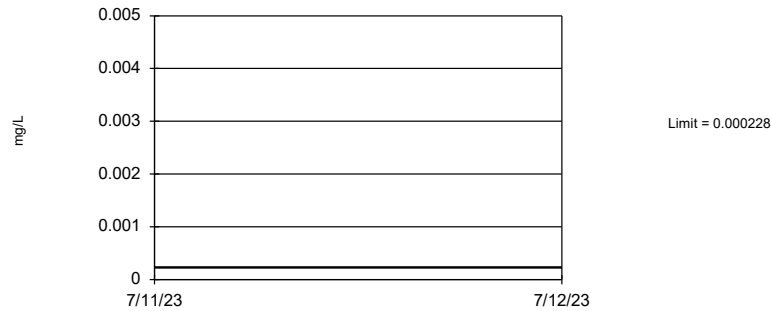
### Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 84 background values. 96.43% NDs. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01345.

Constituent: Selenium Analysis Run 10/2/2023 5:39 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 84 background values. 98.81% NDs. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01345.

Constituent: Thallium Analysis Run 10/2/2023 5:39 PM View: Appendix IV - UTLs  
Plant Gaston Client: Southern Company Data: Gaston GSA



FIGURE J.

<b>GASTON GYPSUM POND GWPS</b>			
<b>Analyte</b>	<b>Units</b>	<b>Background</b>	<b>GWPS</b>
Antimony	mg/L	0.00195	0.006
Arsenic	mg/L	0.00032	0.01
Barium	mg/L	0.0622	2
Beryllium	mg/L	0.001015	0.004
Cadmium	mg/L	0.000203	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	0.125	4
Lead	mg/L	0.00023	0.015
Lithium	mg/L	0.02	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.01015	0.1
Selenium	mg/L	0.001015	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 2023.

FIGURE K.

# Appendix IV Confidence Intervals - Significant Results

Plant Gaston Data: Gaston GSA Printed 10/2/2023, 7:40 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Barium (mg/L)	GN-GSA-MW-1	2.567	2.068	2	Yes	8	0	None	No	0.01	Param.

# Appendix IV Confidence Intervals - All Results

Plant Gaston    Data: Gaston GSA    Printed 10/2/2023, 7:40 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GN-GSA-MW-10	0.001015	0.000552	0.006	No	8	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-GSA-MW-6	0.001015	0.000644	0.006	No	8	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-1	0.005007	0.001716	0.01	No	8	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-GSA-MW-10	0.000215	0.00007	0.01	No	8	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-GSA-MW-11	0.000203	0.00009	0.01	No	8	37.5	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-GSA-MW-12	0.005	0.000124	0.01	No	8	25	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-GSA-MW-13	0.005	0.00012	0.01	No	8	25	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-GSA-MW-5	0.005	0.00057	0.01	No	8	25	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-GSA-MW-6	0.000203	0.00008	0.01	No	8	50	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-GSA-MW-7	0.001246	0.0002784	0.01	No	8	12.5	None	ln(x)	0.01	Param.
Arsenic (mg/L)	GN-GSA-MW-8	0.001342	0.001153	0.01	No	8	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-GSA-MW-9	0.0001948	0.00009498	0.01	No	8	37.5	Kaplan-Meier	No	0.01	Param.
<b>Barium (mg/L)</b>	<b>GN-GSA-MW-1</b>	<b>2.567</b>	<b>2.068</b>	<b>2</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Barium (mg/L)	GN-GSA-MW-10	0.0387	0.03395	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-11	0.01478	0.005234	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-12	0.02525	0.0196	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-13	0.04222	0.03668	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-5	0.07513	0.04567	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-6	0.01981	0.01601	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-7	0.019	0.0162	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GN-GSA-MW-8	0.02805	0.02548	2	No	8	0	None	ln(x)	0.01	Param.
Barium (mg/L)	GN-GSA-MW-9	0.02452	0.02186	2	No	8	0	None	No	0.01	Param.
Cadmium (mg/L)	GN-GSA-MW-10	0.000203	0.000079	0.005	No	8	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-1	0.001015	0.00021	0.1	No	8	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-10	0.001015	0.00023	0.1	No	8	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-11	0.001015	0.000239	0.1	No	8	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-12	0.001015	0.00021	0.1	No	8	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-GSA-MW-13	0.01	0.000417	0.1	No	8	25	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-GSA-MW-5	0.001015	0.000239	0.1	No	8	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-GSA-MW-6	0.001015	0.000217	0.1	No	8	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-GSA-MW-7	0.001015	0.000299	0.1	No	8	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-GSA-MW-8	0.01	0.000291	0.1	No	8	25	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-GSA-MW-9	0.001015	0.000207	0.1	No	8	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-GSA-MW-10	0.000912	0.000174	0.006	No	8	75	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-GSA-MW-11	0.002977	0.002178	0.006	No	8	12.5	None	No	0.01	Param.
Cobalt (mg/L)	GN-GSA-MW-12	0.005	0.000075	0.006	No	8	25	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-GSA-MW-13	0.0002	0.000074	0.006	No	8	37.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-GSA-MW-5	0.003595	0.001382	0.006	No	8	25	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	GN-GSA-MW-6	0.005	0.00065	0.006	No	8	25	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-GSA-MW-7	0.005	0.00033	0.006	No	8	25	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-GSA-MW-8	0.005	0.00007	0.006	No	8	25	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-GSA-MW-9	0.0002227	0.00005031	0.006	No	8	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-1	1.478	0.9676	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-10	1.101	0.2012	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-11	0.7175	0.1768	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-12	1.416	0.2345	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-13	0.8428	0.2562	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-5	1.088	0.2246	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-6	1.286	0.08663	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-7	0.773	0.08273	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-8	1.251	0.09639	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-GSA-MW-9	1.015	0.1876	5	No	8	0	None	No	0.01	Param.

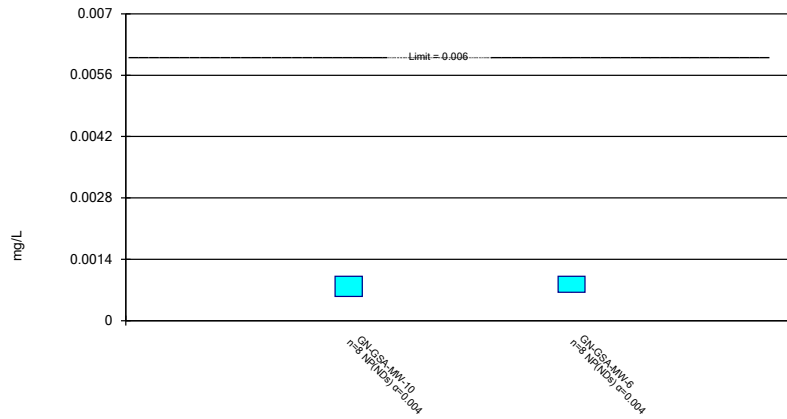
# Appendix IV Confidence Intervals - All Results

Plant Gaston Data: Gaston GSA Printed 10/2/2023, 7:40 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GN-GSA-MW-1	0.3538	0.2892	4	No	8	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-GSA-MW-10	0.125	0.0617	4	No	8	87.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-GSA-MW-12	0.125	0.0586	4	No	8	62.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-GSA-MW-13	0.125	0.0614	4	No	8	37.5	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-GSA-MW-5	0.125	0.099	4	No	8	87.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-GSA-MW-7	0.1246	0.08602	4	No	8	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-GSA-MW-8	0.1334	0.07954	4	No	8	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-GSA-MW-9	0.125	0.0602	4	No	8	75	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-GSA-MW-1	0.000345	0.000203	0.015	No	8	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-GSA-MW-10	0.000203	0.00008	0.015	No	8	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-GSA-MW-11	0.000203	0.000078	0.015	No	8	62.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-GSA-MW-5	0.000203	0.000092	0.015	No	8	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-GSA-MW-6	0.005	0.000305	0.015	No	8	25	None	No	0.004	NP (normality)
Lead (mg/L)	GN-GSA-MW-9	0.000203	0.00011	0.015	No	8	87.5	None	No	0.004	NP (NDs)
Lithium (mg/L)	GN-GSA-MW-1	0.009983	0.009567	0.04	No	8	12.5	None	No	0.01	Param.
Molybdenum (mg/L)	GN-GSA-MW-1	0.004545	0.003054	0.1	No	8	12.5	None	No	0.01	Param.
Molybdenum (mg/L)	GN-GSA-MW-12	0.01015	0.000207	0.1	No	8	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-GSA-MW-13	0.01015	0.00016	0.1	No	8	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-GSA-MW-5	0.01015	0.00009	0.1	No	8	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-GSA-MW-7	0.01015	0.000232	0.1	No	8	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-GSA-MW-8	0.005075	0.00318	0.1	No	8	12.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-GSA-MW-9	0.01015	0.000207	0.1	No	8	37.5	None	No	0.004	NP (normality)

### Non-Parametric Confidence Interval

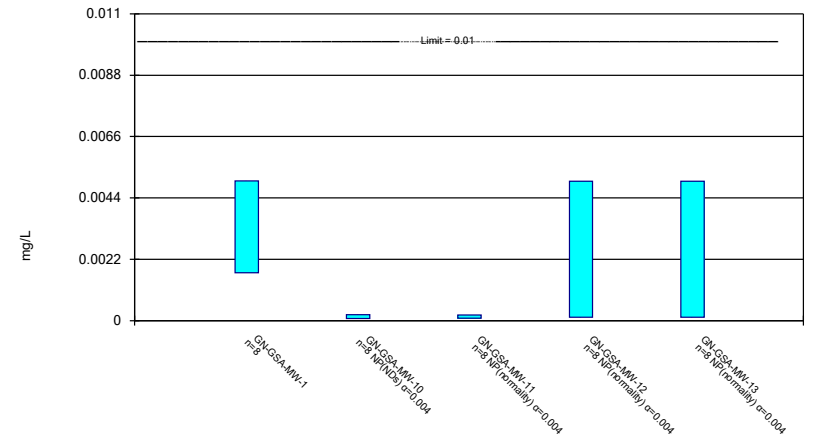
Compliance Limit is not exceeded.



Constituent: Antimony Analysis Run 10/2/2023 7:37 PM View: Appendix IV  
Plant Gaston Data: Gaston GSA

### Parametric and Non-Parametric (NP) Confidence Interval

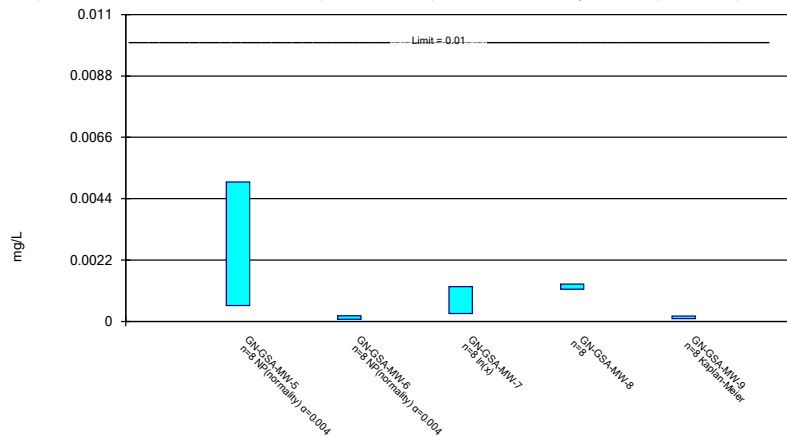
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 10/2/2023 7:37 PM View: Appendix IV  
Plant Gaston Data: Gaston GSA

### Parametric and Non-Parametric (NP) Confidence Interval

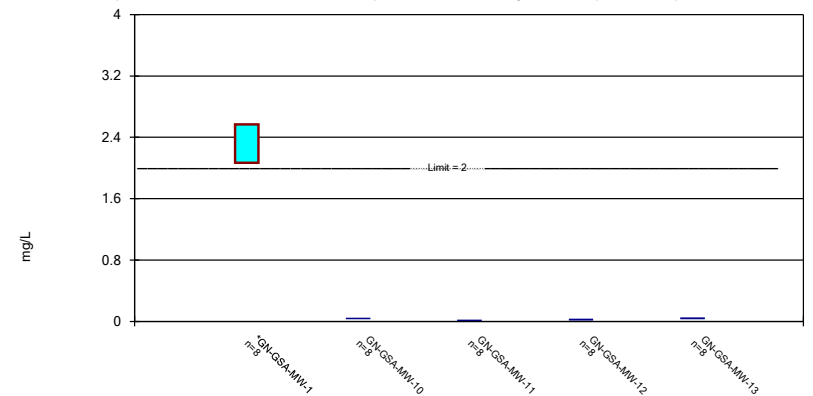
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 10/2/2023 7:37 PM View: Appendix IV  
Plant Gaston Data: Gaston GSA

### Parametric Confidence Interval

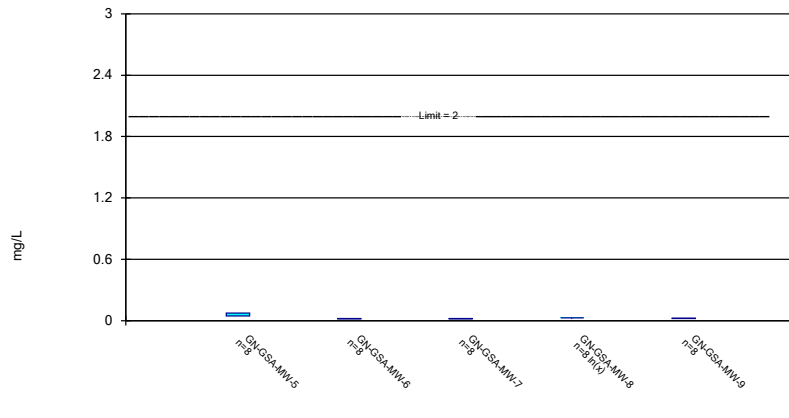
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 10/2/2023 7:37 PM View: Appendix IV  
Plant Gaston 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: Barium Analysis Run 10/2/2023 7:37 PM View: Appendix IV  
Plant Gaston Data: Gaston GSA

### Non-Parametric Confidence Interval

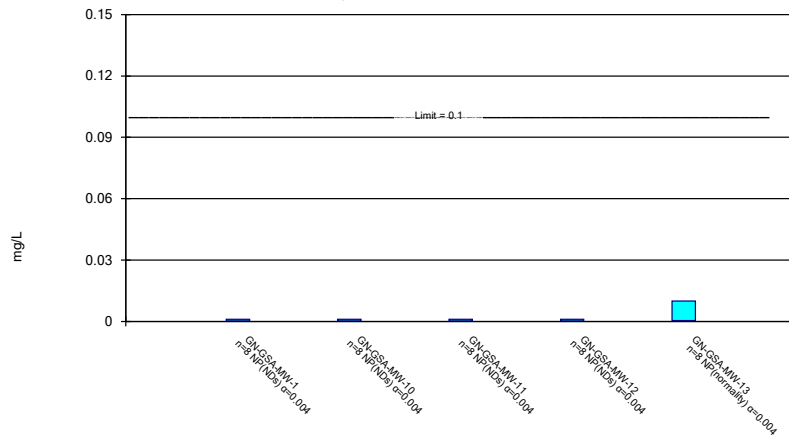
Compliance Limit is not exceeded.



Constituent: Cadmium Analysis Run 10/2/2023 7:37 PM View: Appendix IV  
Plant Gaston Data: Gaston GSA

### Non-Parametric Confidence Interval

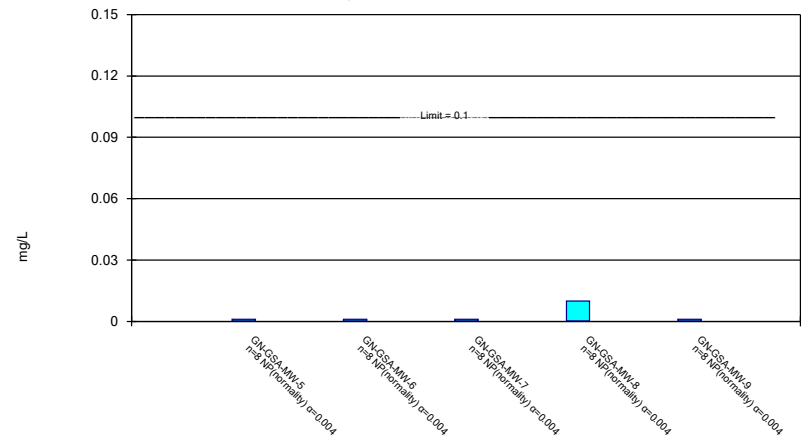
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 10/2/2023 7:37 PM View: Appendix IV  
Plant Gaston Data: Gaston GSA

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

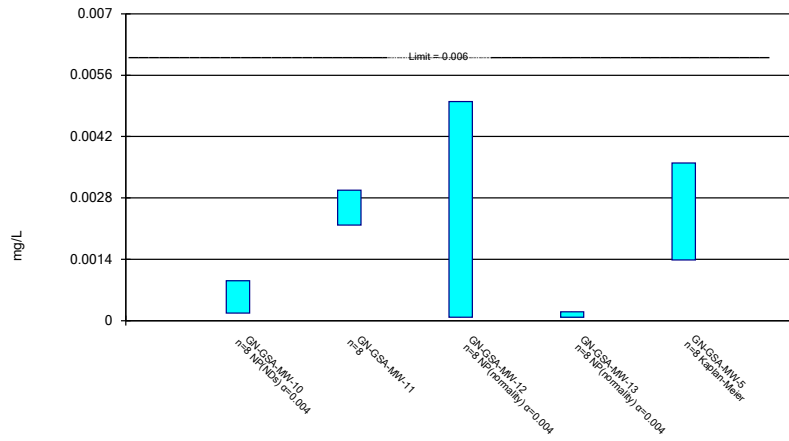


Constituent: Chromium Analysis Run 10/2/2023 7:37 PM View: Appendix IV  
Plant Gaston Data: Gaston GSA



Parametric and Non-Parametric (NP) Confidence Interval

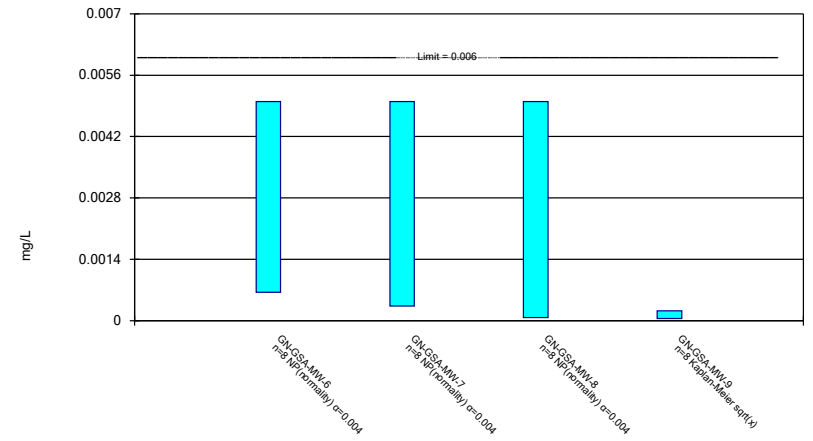
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 10/2/2023 7:37 PM View: Appendix IV  
Plant Gaston Data: Gaston GSA

Parametric and Non-Parametric (NP) Confidence Interval

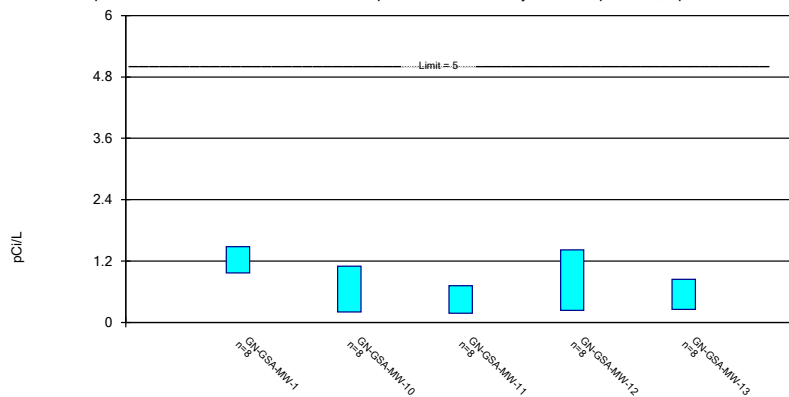
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 10/2/2023 7:37 PM View: Appendix IV  
Plant Gaston Data: Gaston GSA

Parametric Confidence Interval

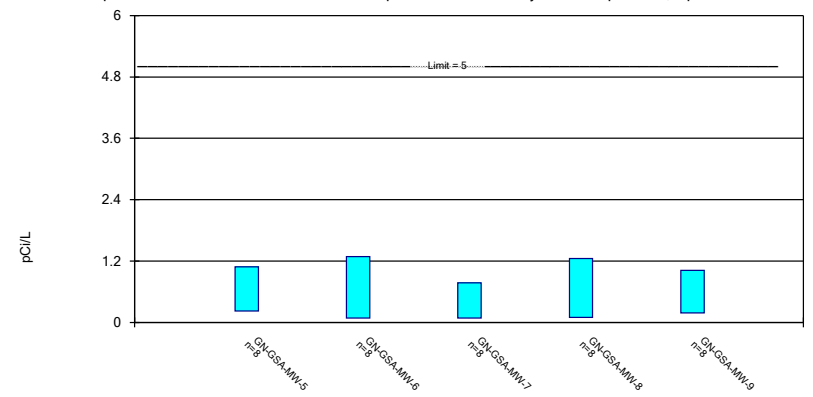
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 10/2/2023 7:37 PM View: Appendix IV  
Plant Gaston Data: Gaston GSA

Parametric Confidence Interval

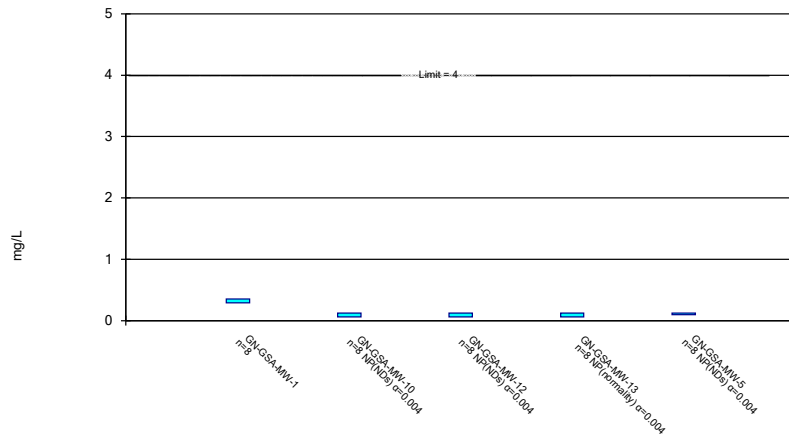
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 10/2/2023 7:37 PM View: Appendix IV  
Plant Gaston Data: Gaston GSA

### Parametric and Non-Parametric (NP) Confidence Interval

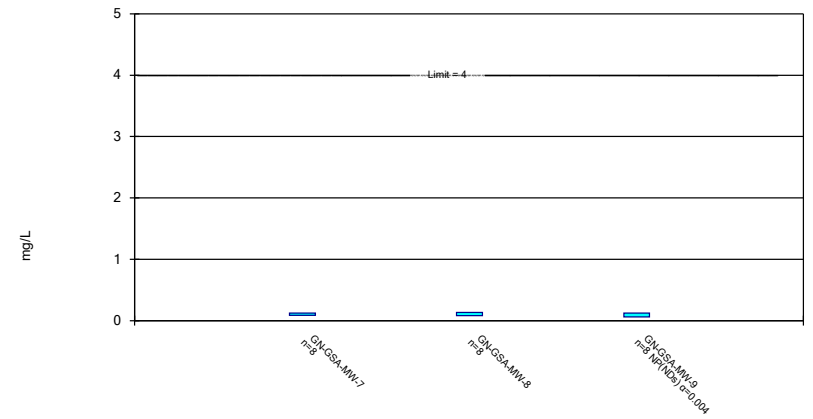
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 10/2/2023 7:37 PM View: Appendix IV  
Plant Gaston Data: Gaston GSA

### Parametric and Non-Parametric (NP) Confidence Interval

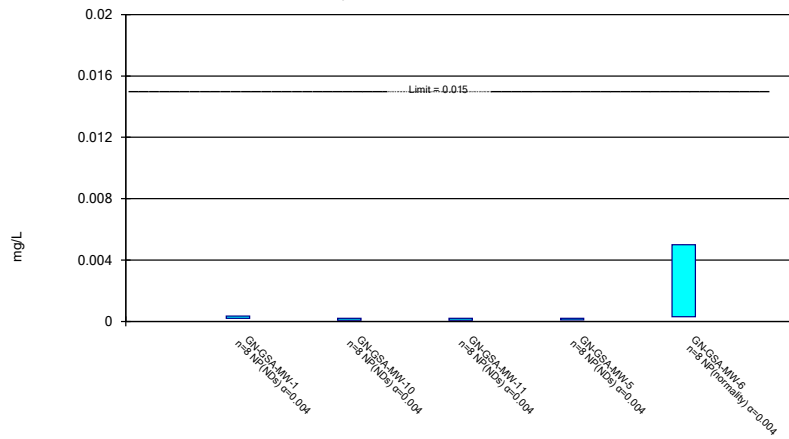
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 10/2/2023 7:37 PM View: Appendix IV  
Plant Gaston Data: Gaston GSA

### Non-Parametric Confidence Interval

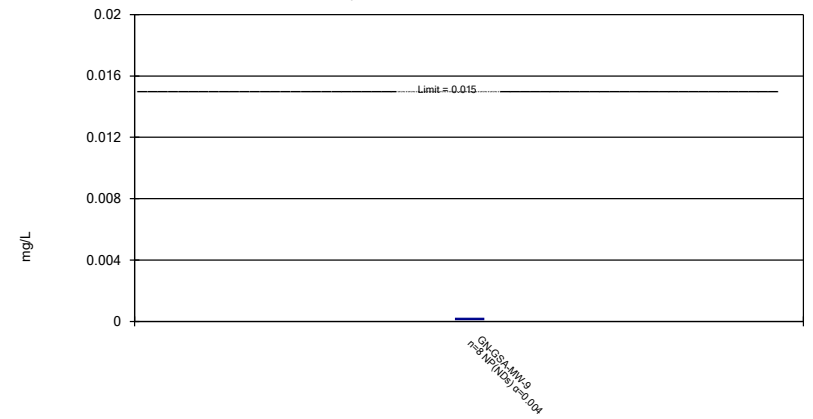
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 10/2/2023 7:37 PM View: Appendix IV  
Plant Gaston Data: Gaston GSA

### Non-Parametric Confidence Interval

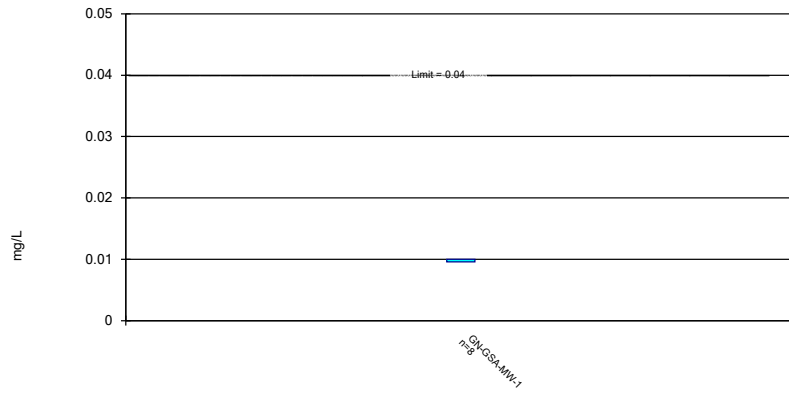
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 10/2/2023 7:37 PM View: Appendix IV  
Plant Gaston Data: Gaston GSA

### Parametric Confidence Interval

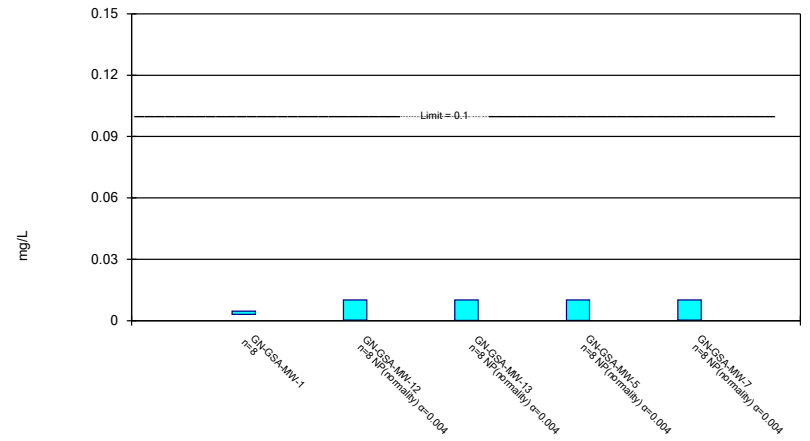
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 10/2/2023 7:37 PM View: Appendix IV  
Plant Gaston Data: Gaston GSA

### Parametric and Non-Parametric (NP) Confidence Interval

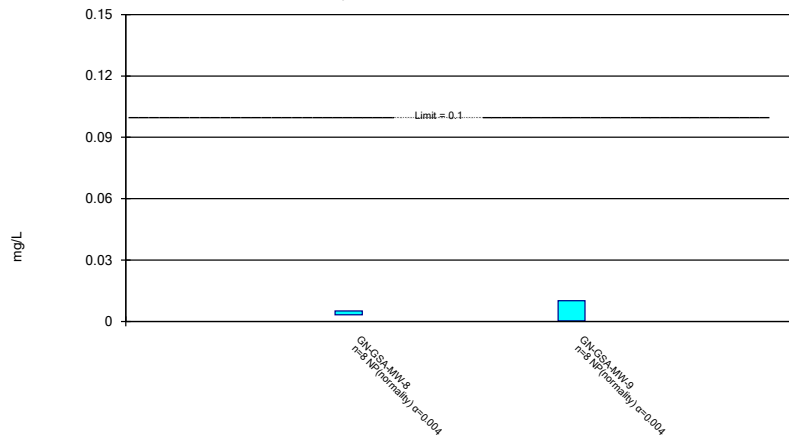
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 10/2/2023 7:37 PM View: Appendix IV  
Plant Gaston Data: Gaston GSA

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Molybdenum Analysis Run 10/2/2023 7:37 PM View: Appendix IV  
Plant Gaston Data: Gaston GSA

# Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 10/2/2023 7:40 PM View: Appendix IV  
Plant Gaston Data: Gaston GSA

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	GN-GSA-MW-10	GN-GSA-MW-6
2/11/2020		<0.001015
2/12/2020	<0.001015	
9/8/2020	<0.001015	<0.001015
4/13/2021	<0.001015	<0.001015
10/4/2021		<0.001015
10/5/2021	<0.001015	
4/12/2022		<0.001015
4/13/2022	<0.001015	
8/16/2022		<0.001015
8/17/2022	<0.001015	
1/18/2023	0.000552 (J)	0.000644 (J)
7/10/2023		<0.001015
7/11/2023	<0.001015	
Mean	0.0009571	0.0009686
Std. Dev.	0.0001637	0.0001312
Upper Lim.	0.001015	0.001015
Lower Lim.	0.000552	0.000644

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/2/2023 7:40 PM View: Appendix IV

Plant Gaston Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13
2/12/2020	0.0062	<0.000203	<0.000203	<0.005	<0.005
9/8/2020		<0.000203			
9/9/2020	0.0046 (J)		<0.000203	<0.005	<0.005
4/13/2021	0.00427	8.71E-05 (J)	9.35E-05 (J)	0.00033	0.000189 (J)
10/4/2021	0.00335				0.00012 (J)
10/5/2021		7E-05 (J)	0.00011 (J)	0.00023	
4/13/2022	0.00248	<0.000203	9E-05 (J)	0.00021	0.00014 (J)
8/16/2022					0.000131 (J)
8/17/2022		<0.000203	0.000109 (J)		
8/18/2022	0.00199			0.000189 (J)	
1/17/2023	0.00221				
1/18/2023		0.000215	0.000103 (J)	0.000254	0.000122 (J)
7/11/2023	0.00179	<0.000203	<0.000203	0.000124 (J)	0.000131 (J)
Mean	0.003361	0.0001734	0.0001393	0.001417	0.001354
Std. Dev.	0.001552	5.886E-05	5.318E-05	0.002212	0.00225
Upper Lim.	0.005007	0.000215	0.000203	0.005	0.005
Lower Lim.	0.001716	7E-05	9E-05	0.000124	0.00012

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/2/2023 7:40 PM View: Appendix IV

Plant Gaston Data: Gaston GSA

	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
2/11/2020	<0.005	<0.000203	0.001 (J)		
2/12/2020				0.00133 (J)	<0.000203
9/8/2020	<0.005	<0.000203			<0.000203
9/9/2020			<0.005	0.00126 (J)	
4/13/2021	0.000587	9.88E-05 (J)	0.000469	0.00134	0.000237
10/4/2021	0.00057	8E-05 (J)	0.00029	0.00135	
10/5/2021					0.00014 (J)
4/12/2022	0.0009	0.00011 (J)	0.00043	0.00124	0.00018 (J)
8/16/2022	0.00134	<0.000203	0.000335	0.00116	
8/17/2022					8.6E-05 (J)
1/17/2023			0.000711		
1/18/2023	0.000836	0.000157 (J)		0.00111	0.000121 (J)
7/10/2023	0.0013	<0.000203	0.000416		
7/11/2023				0.00119	<0.000203
Mean	0.001942	0.0001572	0.0007689	0.001248	0.0001716
Std. Dev.	0.001909	5.344E-05	0.0007368	8.94E-05	5.098E-05
Upper Lim.	0.005	0.000203	0.001246	0.001342	0.0001948
Lower Lim.	0.00057	8E-05	0.0002784	0.001153	9.498E-05

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/2/2023 7:40 PM View: Appendix IV

Plant Gaston Data: Gaston GSA

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	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13
2/12/2020	2.15	0.0344	0.00444 (J)	0.024	0.0419
9/8/2020		0.0331			
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
10/4/2021	1.92				0.0369
10/5/2021		0.0359	0.00871	0.0212	
4/13/2022	2.68	0.0403	0.0162	0.0272	0.0415
8/16/2022					0.0383
8/17/2022		0.0361	0.0131		
8/18/2022	2.23			0.0204	
1/17/2023	2.22				
1/18/2023		0.0354	0.0106	0.0223	0.0351
7/11/2023	2.43	0.0381	0.0152	0.0227	0.0426
Mean	2.318	0.03633	0.01001	0.02243	0.03945
Std. Dev.	0.2358	0.002239	0.004504	0.002667	0.002613
Upper Lim.	2.567	0.0387	0.01478	0.02525	0.04222
Lower Lim.	2.068	0.03395	0.005234	0.0196	0.03668

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/2/2023 7:40 PM View: Appendix IV

Plant Gaston Data: Gaston GSA

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	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
2/11/2020	0.0513	0.0175	0.0194		
2/12/2020				0.0257	0.0214
9/8/2020	0.0464	0.0159			0.0234
9/9/2020			0.0161	0.026	
4/13/2021	0.0478	0.0175	0.016	0.0262	0.0226
10/4/2021	0.0494	0.0161	0.0181	0.0265	
10/5/2021					0.0234
4/12/2022	0.0666	0.0214	0.0192	0.0294	0.0252
8/16/2022	0.0743	0.0178	0.0175	0.0275	
8/17/2022					0.0237
1/17/2023			0.018		
1/18/2023	0.0635	0.0176		0.0257	0.0217
7/10/2023	0.0839	0.0195	0.0165		
7/11/2023				0.0271	0.0241
Mean	0.0604	0.01791	0.0176	0.02676	0.02319
Std. Dev.	0.0139	0.001792	0.001322	0.001244	0.001253
Upper Lim.	0.07513	0.01981	0.019	0.02805	0.02452
Lower Lim.	0.04567	0.01601	0.0162	0.02548	0.02186



# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 10/2/2023 7:40 PM View: Appendix IV  
Plant Gaston Data: Gaston GSA

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GN-GSA-MW-10

2/12/2020	<0.000203
9/8/2020	<0.000203
4/13/2021	<0.000203
10/5/2021	8E-05 (J)
4/13/2022	<0.000203
8/17/2022	0.000143 (J)
1/18/2023	<0.000203
7/11/2023	7.9E-05 (J)
Mean	0.0001646
Std. Dev.	5.647E-05
Upper Lim.	0.000203
Lower Lim.	7.9E-05

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/2/2023 7:40 PM View: Appendix IV

Plant Gaston Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13
2/12/2020	<0.001015	<0.001015	<0.001015	<0.001015	<0.01
9/8/2020		<0.001015			
9/9/2020	<0.001015		<0.001015	<0.001015	<0.01
4/13/2021	<0.001015	<0.001015	<0.001015	<0.001015	0.000518 (J)
10/4/2021	0.00021 (J)				0.00055 (J)
10/5/2021		0.00023 (J)	0.0003 (J)	0.00029 (J)	
4/13/2022	<0.001015	<0.001015	<0.001015	0.00021 (J)	0.00052 (J)
8/16/2022					0.000444 (J)
8/17/2022		0.000266 (J)	<0.001015		
8/18/2022	<0.001015			<0.001015	
1/17/2023	<0.001015				
1/18/2023		0.000283 (J)	<0.001015	<0.001015	0.000417 (J)
7/11/2023	<0.001015	<0.001015	0.000239 (J)	0.000361 (J)	0.000446 (J)
Mean	0.0009144	0.0007318	0.0008286	0.000742	0.002862
Std. Dev.	0.0002846	0.0003912	0.0003455	0.0003789	0.004406
Upper Lim.	0.001015	0.001015	0.001015	0.001015	0.01
Lower Lim.	0.00021	0.00023	0.000239	0.00021	0.000417

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/2/2023 7:40 PM View: Appendix IV  
Plant Gaston Data: Gaston GSA

	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
2/11/2020	<0.001015	<0.001015	<0.001015		
2/12/2020				<0.01	<0.001015
9/8/2020	<0.001015	<0.001015			<0.001015
9/9/2020			<0.001015	<0.01	
4/13/2021	<0.001015	0.000257 (J)	0.000361 (J)	0.000291 (J)	0.000276 (J)
10/4/2021	0.00028 (J)	0.00025 (J)	0.00056 (J)	0.00037 (J)	
10/5/2021					0.00021 (J)
4/12/2022	0.00029 (J)	0.00022 (J)	<0.001015	0.00035 (J)	<0.001015
8/16/2022	0.000271 (J)	<0.001015	0.0004 (J)	0.000437 (J)	
8/17/2022					<0.001015
1/17/2023			<0.001015		
1/18/2023	0.000262 (J)	0.000264 (J)		0.000358 (J)	0.000219 (J)
7/10/2023	0.000239 (J)	0.000217 (J)	0.000299 (J)		
7/11/2023				0.000371 (J)	0.000207 (J)
Mean	0.0005484	0.0005316	0.00071	0.002772	0.0006215
Std. Dev.	0.0003867	0.0004006	0.0003341	0.004461	0.0004212
Upper Lim.	0.001015	0.001015	0.001015	0.01	0.001015
Lower Lim.	0.000239	0.000217	0.000299	0.000291	0.000207

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/2/2023 7:40 PM View: Appendix IV

Plant Gaston Data: Gaston GSA

	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-5
2/11/2020					<0.005
2/12/2020	<0.000203	<0.005	<0.005	<0.0002	
9/8/2020	<0.000203				<0.005
9/9/2020		0.00256 (J)	<0.005	<0.0002	
4/13/2021	<0.000203	0.00212	0.000218	0.000158 (J)	0.00104
10/4/2021				0.0001 (J)	0.00142
10/5/2021	<0.000203	0.00217	0.00042		
4/12/2022					0.00215
4/13/2022	<0.000203	0.00324	0.00016 (J)	<0.0002	
8/16/2022				8.8E-05 (J)	0.00389
8/17/2022	<0.000203	0.00278			
8/18/2022			0.000296		
1/18/2023	0.000912	0.00237	0.000168 (J)	8.6E-05 (J)	0.00293
7/10/2023					0.0035
7/11/2023	0.000174 (J)	0.00288	7.5E-05 (J)	7.4E-05 (J)	
Mean	0.000288	0.002577	0.001417	0.0001382	0.003116
Std. Dev.	0.0002523	0.0003772	0.002214	5.692E-05	0.001512
Upper Lim.	0.000912	0.002977	0.005	0.0002	0.003595
Lower Lim.	0.000174	0.002178	7.5E-05	7.4E-05	0.001382

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/2/2023 7:40 PM View: Appendix IV  
Plant Gaston Data: Gaston GSA

	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
2/11/2020	<0.005	<0.005		
2/12/2020			<0.005	<0.000203
9/8/2020	<0.005			<0.000203
9/9/2020		<0.005	<0.005	
4/13/2021	0.000682	0.00077	0.000123 (J)	8.16E-05 (J)
10/4/2021	0.00065	0.00033	0.00014 (J)	
10/5/2021				0.00041
4/12/2022	0.00066	0.0006	7E-05 (J)	<0.000203
8/16/2022	0.000713	0.000415	0.000133 (J)	
8/17/2022				0.000132 (J)
1/17/2023		0.00128		
1/18/2023	0.000709		0.00017 (J)	<0.000203
7/10/2023	0.000713	0.000572		
7/11/2023			0.000144 (J)	7.3E-05 (J)
Mean	0.001766	0.001746	0.001347	0.0001886
Std. Dev.	0.001996	0.002029	0.002255	0.0001055
Upper Lim.	0.005	0.005	0.005	0.0002227
Lower Lim.	0.00065	0.00033	7E-05	5.031E-05

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/2/2023 7:40 PM View: Appendix IV

Plant Gaston Data: Gaston GSA

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	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-12	GN-GSA-MW-13
2/12/2020	1.17	0.13 (U)	0.0433 (U)	0.836	0.799
9/8/2020		0.65 (U)			
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)
10/4/2021	1.43				0.231 (U)
10/5/2021		0.269 (U)	0.524 (U)	1.42	
4/13/2022	1.31	0.551 (U)	0.453 (U)	0.257 (U)	0.357 (U)
8/16/2022					0.98
8/17/2022		0.934 (U)	0.33 (U)		
8/18/2022	0.975			0.607 (U)	
1/17/2023	1.4				
1/18/2023		0.632 (U)	0.167 (U)	0.305 (U)	0.376 (U)
7/11/2023	1.57	1.51	0.673 (U)	0.707 (U)	0.716 (U)
Mean	1.223	0.6509	0.4472	0.8255	0.5495
Std. Dev.	0.2409	0.4243	0.2551	0.5575	0.2767
Upper Lim.	1.478	1.101	0.7175	1.416	0.8428
Lower Lim.	0.9676	0.2012	0.1768	0.2345	0.2562

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/2/2023 7:40 PM View: Appendix IV

Plant Gaston Data: Gaston GSA

	GN-GSA-MW-5	GN-GSA-MW-6	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
2/11/2020	0.585	0.743	0.513 (U)		
2/12/2020				-0.0587 (U)	0.377 (U)
9/8/2020	0.921	-0.109 (U)			1.07
9/9/2020			0.382 (U)	0.287 (U)	
4/13/2021	0.434 (U)	0.611 (U)	0.492 (U)	0.391 (U)	0.592 (U)
10/4/2021	0.11 (U)	1.7	0.144 (U)	0.794 (U)	
10/5/2021					0.2 (U)
4/12/2022	0.739 (U)	0.157 (U)	0.0248 (U)	0.367 (U)	0.191 (U)
8/16/2022	0.734 (U)	1.06 (U)	0.537 (U)	0.78 (U)	
8/17/2022					1.25
1/17/2023			0.24 (U)		
1/18/2023	0.299 (U)	0.389 (U)		1.63	0.418 (U)
7/10/2023	1.43	0.941 (U)	1.09		
7/11/2023				1.2	0.712 (U)
Mean	0.6565	0.6865	0.4279	0.6738	0.6013
Std. Dev.	0.4075	0.5659	0.3256	0.5447	0.3903
Upper Lim.	1.088	1.286	0.773	1.251	1.015
Lower Lim.	0.2246	0.08663	0.08273	0.09639	0.1876

# Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/2/2023 7:40 PM View: Appendix IV  
Plant Gaston Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-5
2/11/2020					<0.125
2/12/2020	0.301	<0.125	0.0586 (J)	<0.125	
9/8/2020		0.0617 (J)			<0.125
9/9/2020	0.313		0.068 (J)	0.0655 (J)	
4/13/2021	0.29	<0.125	<0.125	0.0633 (J)	<0.125
10/4/2021	0.376			0.0748 (J)	<0.125
10/5/2021		<0.125	<0.125		
4/12/2022					<0.125
4/13/2022	0.307	<0.125	<0.125	<0.125	
8/16/2022				0.0614 (J)	<0.125
8/17/2022		<0.125			
8/18/2022	0.327		<0.125		
1/17/2023	0.358				
1/18/2023		<0.125	0.0913 (J)	<0.125	<0.125
7/10/2023					0.099 (J)
7/11/2023	0.3	<0.125	<0.125	0.103 (J)	
Mean	0.3215	0.1171	0.1054	0.09288	0.1218
Std. Dev.	0.03045	0.02238	0.02856	0.02962	0.009192
Upper Lim.	0.3538	0.125	0.125	0.125	0.125
Lower Lim.	0.2892	0.0617	0.0586	0.0614	0.099



# Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/2/2023 7:40 PM View: Appendix IV

Plant Gaston Data: Gaston GSA

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	GN-GSA-MW-7	GN-GSA-MW-8	GN-GSA-MW-9
2/11/2020	0.0912 (J)		
2/12/2020		0.108	<0.125
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			<0.125
4/12/2022	0.0724 (J)	0.0621 (J)	<0.125
8/16/2022	0.112 (J)	0.0979 (J)	
8/17/2022			<0.125
1/17/2023	0.1 (J)		
1/18/2023		0.105 (J)	<0.125
7/10/2023	0.1 (J)		
7/11/2023		0.0857 (J)	<0.125
Mean	0.1053	0.1065	0.1134
Std. Dev.	0.01821	0.0254	0.02362
Upper Lim.	0.1246	0.1334	0.125
Lower Lim.	0.08602	0.07954	0.0602

# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/2/2023 7:40 PM View: Appendix IV

Plant Gaston Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-10	GN-GSA-MW-11	GN-GSA-MW-5	GN-GSA-MW-6
2/11/2020				<0.000203	<0.005
2/12/2020	<0.000203	<0.000203	<0.000203		
9/8/2020		<0.000203		<0.000203	<0.005
9/9/2020	<0.000203		<0.000203		
4/13/2021	<0.000203	<0.000203	<0.000203	<0.000203	0.000305
10/4/2021	<0.000203			<0.000203	0.00031
10/5/2021		<0.000203	<0.000203		
4/12/2022				<0.000203	0.0004
4/13/2022	<0.000203	<0.000203	0.00011 (J)		
8/16/2022				<0.000203	0.000318
8/17/2022		<0.000203	7.8E-05 (J)		
8/18/2022	<0.000203				
1/17/2023	0.000345				
1/18/2023		8E-05 (J)	<0.000203	<0.000203	0.000353
7/10/2023				9.2E-05 (J)	0.000324
7/11/2023	<0.000203	<0.000203	0.000108 (J)		
Mean	0.0002208	0.0001876	0.0001639	0.0001891	0.001501
Std. Dev.	5.02E-05	4.349E-05	5.484E-05	3.924E-05	0.00216
Upper Lim.	0.000345	0.000203	0.000203	0.000203	0.005
Lower Lim.	0.000203	8E-05	7.8E-05	9.2E-05	0.000305

# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/2/2023 7:40 PM View: Appendix IV  
Plant Gaston Data: Gaston GSA

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	GN-GSA-MW-9
2/12/2020	<0.000203
9/8/2020	<0.000203
4/13/2021	<0.000203
10/5/2021	<0.000203
4/12/2022	0.00011 (J)
8/17/2022	<0.000203
1/18/2023	<0.000203
7/11/2023	<0.000203
Mean	0.0001914
Std. Dev.	3.288E-05
Upper Lim.	0.000203
Lower Lim.	0.00011

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/2/2023 7:40 PM View: Appendix IV  
Plant Gaston Data: Gaston GSA

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	GN-GSA-MW-1
2/12/2020	<0.02
9/9/2020	0.0101 (J)
4/13/2021	0.00953 (J)
10/4/2021	0.00963 (J)
4/13/2022	0.00966 (J)
8/18/2022	0.00965 (J)
1/17/2023	0.00981 (J)
7/11/2023	0.00982 (J)
Mean	0.009775
Std. Dev.	0.0001962
Upper Lim.	0.009983
Lower Lim.	0.009567

# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 10/2/2023 7:40 PM View: Appendix IV

Plant Gaston Data: Gaston GSA

	GN-GSA-MW-1	GN-GSA-MW-12	GN-GSA-MW-13	GN-GSA-MW-5	GN-GSA-MW-7
2/11/2020				<0.01015	<0.01015
2/12/2020	0.00448 (J)	<0.01015	<0.01015		
9/8/2020				<0.01015	
9/9/2020	0.00405 (J)	<0.01015	<0.01015		<0.01015
4/13/2021	0.00353	0.000298	0.000175 (J)	9.4E-05 (J)	0.000276
10/4/2021	0.00372		0.00016 (J)	9E-05 (J)	0.00025
10/5/2021		0.00033			
4/12/2022				0.00012 (J)	0.00027
4/13/2022	0.0033	0.00031	0.00021		
8/16/2022			0.000189 (J)	0.000131 (J)	0.000232
8/18/2022	0.00295	0.000207			
1/17/2023	0.00329				0.000328
1/18/2023		0.000234	0.000285	0.000113 (J)	
7/10/2023				<0.01015	<0.01015
7/11/2023	<0.01015	<0.01015	<0.01015		
Mean	0.003799	0.003979	0.003934	0.003875	0.003976
Std. Dev.	0.0007033	0.005111	0.005148	0.005196	0.005113
Upper Lim.	0.004545	0.01015	0.01015	0.01015	0.01015
Lower Lim.	0.003054	0.000207	0.00016	9E-05	0.000232

# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 10/2/2023 7:40 PM View: Appendix IV

Plant Gaston Data: Gaston GSA

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	GN-GSA-MW-8	GN-GSA-MW-9
2/12/2020	0.00322 (J)	<0.01015
9/8/2020		<0.01015
9/9/2020	0.00418 (J)	
4/13/2021	0.00318	0.000207
10/4/2021	0.00345	
10/5/2021		0.00032
4/12/2022	0.00347	0.00021
8/16/2022	0.00356	
8/17/2022		0.000338
1/18/2023	0.00321	0.000232
7/11/2023	<0.01015	<0.01015
Mean	0.003668	0.00397
Std. Dev.	0.0006534	0.005118
Upper Lim.	0.005075	0.01015
Lower Lim.	0.00318	0.000207

FIGURE L.

# Appendix IV Trend Tests - Confidence Interval Exceedances - Significant Results

Plant Gaston Client: Southern Company Data: Gaston GSA Printed 10/5/2023, 10:57 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Barium (mg/L)	GN-GSA-MW-1	0.1198	116	87	Yes	21	0	n/a	0.01	NP
Barium (mg/L)	GN-GSA-MW-14S (bg)	-0.002203	-130	-87	Yes	21	0	n/a	0.01	NP
Barium (mg/L)	GN-GSA-MW-15 (bg)	-0.0004201	-109	-87	Yes	21	0	n/a	0.01	NP
Barium (mg/L)	GN-GSA-MW-3 (bg)	-0.003358	-138	-87	Yes	21	0	n/a	0.01	NP



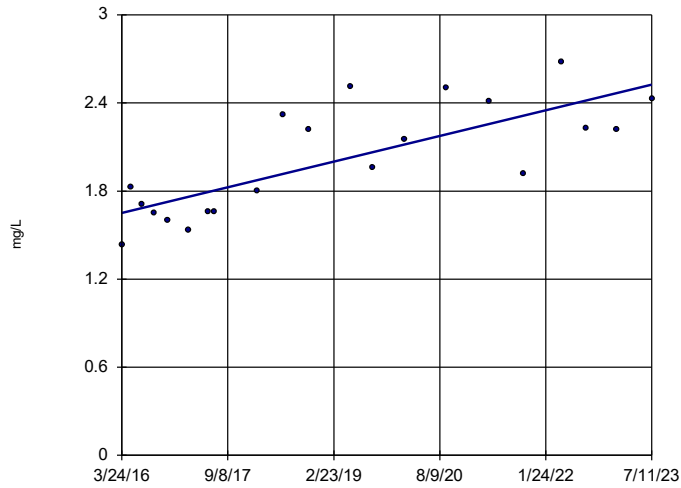
# Appendix IV Trend Tests - Confidence Interval Exceedances - All Results

Plant Gaston    Client: Southern Company    Data: Gaston GSA    Printed 10/5/2023, 10:57 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Alpha</u>	<u>Method</u>
<b>Barium (mg/L)</b>	<b>GN-GSA-MW-1</b>	<b>0.1198</b>	<b>116</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Barium (mg/L)</b>	<b>GN-GSA-MW-14S (bg)</b>	<b>-0.002203</b>	<b>-130</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Barium (mg/L)</b>	<b>GN-GSA-MW-15 (bg)</b>	<b>-0.0004201</b>	<b>-109</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Barium (mg/L)	GN-GSA-MW-2 (bg)	0.000046063		87	No	21	0	n/a	0.01	NP
<b>Barium (mg/L)</b>	<b>GN-GSA-MW-3 (bg)</b>	<b>-0.003358</b>	<b>-138</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>

### Sen's Slope Estimator

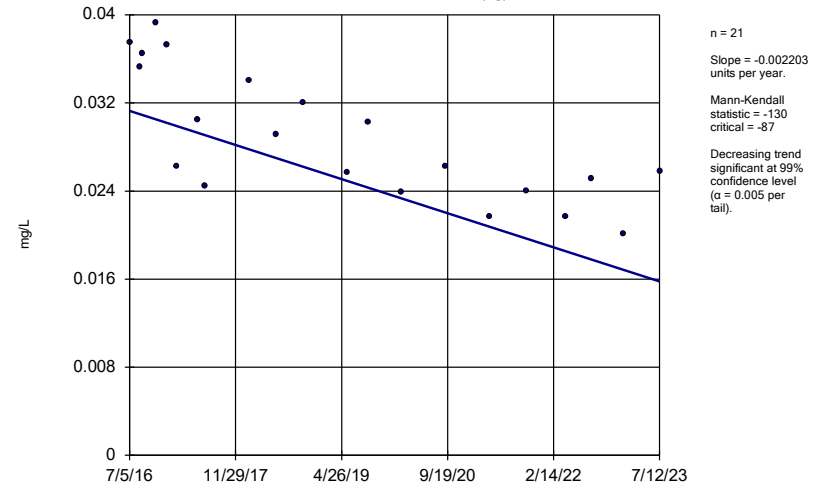
GN-GSA-MW-1



Constituent: Barium Analysis Run 10/5/2023 10:55 AM View: Appendix IV - Trend Tests  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

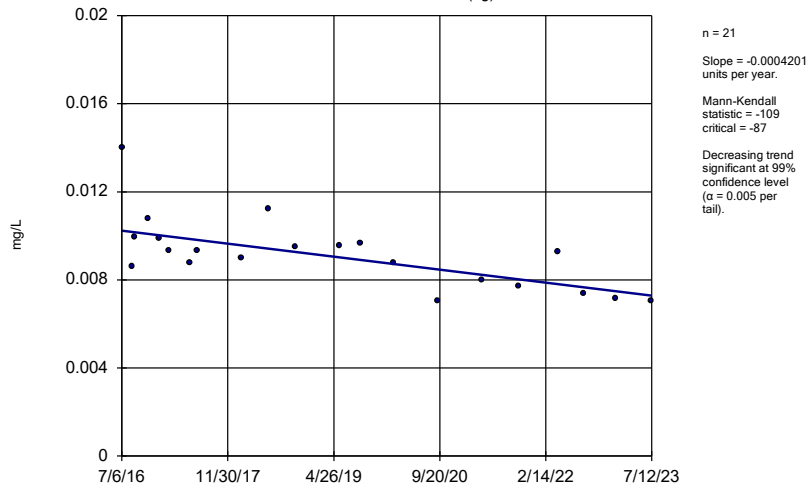
GN-GSA-MW-14S (bg)



Constituent: Barium Analysis Run 10/5/2023 10:55 AM View: Appendix IV - Trend Tests  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

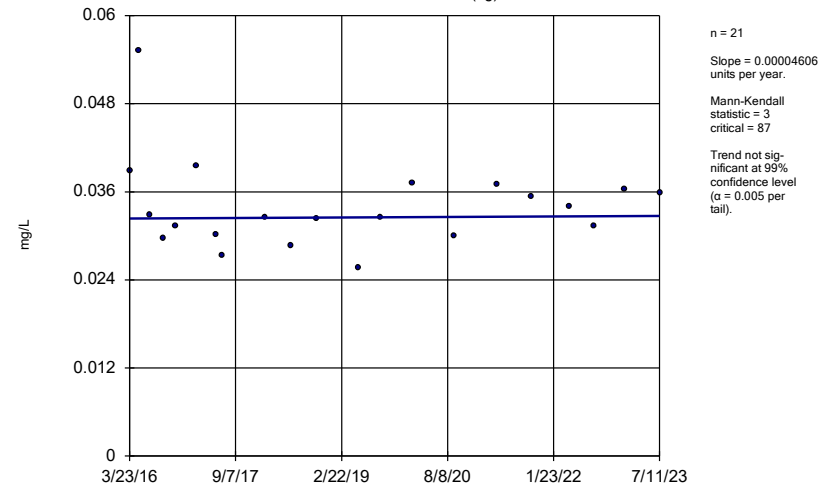
GN-GSA-MW-15 (bg)



Constituent: Barium Analysis Run 10/5/2023 10:55 AM View: Appendix IV - Trend Tests  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

GN-GSA-MW-2 (bg)



Constituent: Barium Analysis Run 10/5/2023 10:55 AM View: Appendix IV - Trend Tests  
Plant Gaston Client: Southern Company Data: Gaston GSA

### Sen's Slope Estimator

GN-GSA-MW-3 (bg)

