

2023 SEMI-ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

**ALABAMA POWER COMPANY
PLANT GORGAS
CCR LANDFILL**

July 31, 2023

Prepared for

Alabama Power Company
Birmingham, Alabama

By

Southern Company Services
Earth Science and Environmental Engineering



CERTIFICATION STATEMENT

This 2023 *Semi-Annual Groundwater Monitoring and Corrective Action Report*, Alabama Power Company - Plant Gorgas CCR Landfill has been prepared in accordance with the United States Environmental Protection Agency's coal combustion residual rule (40 CFR Part 257, Subpart D), ADEM Admin. Code Ch. 335-13-15, and Part E of ADEM Administrative Order No. 18-096-GW, under the supervision of a licensed professional engineer in the State of Alabama. As such, I certify that the information contained herein is true and accurate to the best of my knowledge.



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EXECUTIVE SUMMARY

In accordance with the United States Environmental Protection Agency (EPA) coal combustion residual (CCR) rule (40 CFR Part 257, Subpart D), the State of Alabama Department of Environmental Management (ADEM) Admin. Code Ch. 335-13-15, and ADEM Administrative Order (AO) No. 18-096-GW, this 2023 Semi-Annual Groundwater Monitoring and Corrective Action Report has been prepared to document the first 2023 semi-annual assessment groundwater monitoring activities at the Alabama Power Company (APC) William Crawford Gorgas Electric Generating Plant (Plant Gorgas) CCR Landfill and to satisfy the requirements of § 257.90(e), ADEM Admin. Code r. 335-13-15-.06(1)(f), and Part E of AO No. 18-096-GW. Semi-annual assessment monitoring and associated reporting for the Plant Gorgas CCR Landfill is performed in accordance with the monitoring requirements § 257.90 through § 257.95 and ADEM Admin. Code r. 335-13-15-.06(1) through r. 335-13-15-.06(6).

The CCR unit began the monitoring period in assessment monitoring pursuant to § 257.98, ADEM Admin. Code r. 335-13-15-.06(9), and AO No. 18-096-GW. 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 constituent lithium were identified in one well above groundwater protection standards (GWPS) while in assessment monitoring. Following completion of statistical analysis of Appendix IV data from subsequent assessment events, SSLs have not been observed. Consequently, an Alternate Source Demonstration (ASD) was submitted to ADEM for lithium SSLs above the GWPS in January of 2019.

APC completed an Assessment of Corrective Measures (ACM) report submitted to ADEM in June 2019 to address the occurrence of constituents in groundwater at SSLs at the Plant Gorgas Ash Pond and Gypsum Pond. In February 2020, APC revised the ACM to include the CCR Landfill. However, it should be noted that SSLs at the CCR Landfill have not been observed since 2018.

A Groundwater Remedy Selection Report was prepared to meet the requirements of § 257.97, ADEM Admin. Code r. 335-13-15-.06(8), and Part C of AO No.18-096-GW and submitted to ADEM on December 17, 2021. Subsequently, within 90 days of remedy selection, a Corrective Action Groundwater Monitoring Program was developed and submitted to ADEM on March 15, 2022 for review.

The Corrective Action Groundwater Monitoring Program was prepared to meet § 257.98 and ADEM Admin. Code r. 335-13-15-.06(9) to detect potential downgradient changes in groundwater quality and

assess the efficacy of the selected groundwater corrective action remedies. The Monitoring Program has been developed to meet the requirements of CFR § 257.98(a)(1) and ADEM Admin. Code r. 335-13-15-.06(9)(a)(1) and will supplement the ongoing CCR compliance groundwater monitoring currently being performed at the Site.

Statistical evaluations of the first 2023 semi-annual assessment monitoring data did not identify SSLs of Appendix IV constituents above the GWPS. In accordance with § 257.95(d) and ADEM Admin. Code r. 335-13-15-.06(6)(d), APC will continue assessment monitoring. The following summarizes results and activities conducted during the 2023 first semi-annual monitoring period:

- Submitted the 2022 Annual Groundwater Monitoring and Corrective Action Report on January 31, 2023.
- Resurveyed the ground surface and top of casing elevations for all on-site wells on April 13, 2023 by a licensed Professional Land Surveyor.
- Completed the first semi-annual assessment groundwater sampling event from February 20 - 22, 2023.

The CCR Landfill concluded the monitoring period in assessment monitoring. The following future actions will be taken or are recommended for the Site:

- Evaluation of collected MNA parameter data and ongoing compliance monitoring.
- Conduct the second semi-annual assessment monitoring event in 2023 and submit the Annual Groundwater Monitoring and Corrective Action Report summarizing the findings to ADEM by January 31, 2024.

Executive Summary Table.
Monitoring Period Summary
Plant Gorgas - CCR Landfill

Assessment Monitoring Initiated: January 15, 2018

Monitoring Period: January 1 - July 31, 2023

Beginning Status: Assessment

Ending Status: Assessment

Statistical Analysis Results *

Appendix III SSIs

| Parameter | Wells |
|-----------|--|
| Boron | None. |
| Calcium | None. |
| Chloride | MW-5, MW-7, MW-8. |
| Fluoride | MW-1 (upgradient), MW-2 (upgradient), MW-6, and MW-7 |
| pH | MW-5, MW-7, MW-8. |
| Sulfate | None. |
| TDS | None. |

Appendix IV SSLs

No Significant Results.

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

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

| | |
|-------|--|
| ACM | Assessment of Corrective Measures |
| ADEM | Alabama Department of Environmental Management |
| AL | Alabama |
| APC | Alabama Power Company |
| APCEL | APC Environmental Laboratory |
| ASD | Alternate Source Demonstration |
| ASTM | Alabama Power Company Environmental Laboratory |
| BGS | below ground surface |
| CCR | Coal Combustion Residual |
| CEC | cation exchange capacity |

| | |
|-------|---|
| CFR | Code of Federal Regulations |
| COC | chain of custody |
| COI | constituents of interest |
| CSM | conceptual site model |
| DO | dissolved oxygen |
| EPA | United States Environmental Protection Agency |
| ft | feet |
| GW | groundwater |
| GWPS | Groundwater Protection Standard(s) |
| LCL | Lower Confidence Limit(s) |
| m | meter |
| mg/L | milligram per liter |
| MNA | monitored natural attenuation |
| MSL | mean sea level |
| MW- | denotes “Monitoring Well” |
| NCDS | National Coal Data System |
| NELAP | National Environmental Laboratory Accreditation |
| NTU | nephelometric turbidity unit |
| ORP | oxidation reduction potential |
| pCi/L | picocuries per liter |
| PE | Professional Engineer |
| PG | Professional Geologist |
| PL | prediction limits |
| PQL | practical quantitation limit |
| PVC | polymerizing vinyl chloride |
| QA/QC | quality assurance/quality control |
| RL | reporting limit |
| RPD | relative percent difference |
| SEM | scanning electron microscopy |
| SM | Standard Method(s) |
| SSE | selective sequential extraction |
| SSI | statistically significant increase |
| SSL | statistically significant level |
| TAL | Test America, Inc. |
| TOC | top of casing |
| TDS | total dissolved solids |
| USGS | Unites States Geological Survey |
| UTLs | Upper Tolerance Limits |
| XRD | X-ray diffraction |
| XRF | X-ray fluorescence |

1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (EPA) coal combustion residual (CCR) rule (40 CFR Part 257, Subpart D), the State of Alabama Department of Environmental Management (ADEM) Admin. Code Ch. 335-13-15, and ADEM Administrative Order (AO) No. 18-096-GW, this *2023 Semi-Annual Groundwater Monitoring and Corrective Action Report* has been prepared to document the first semi-annual assessment groundwater monitoring activities at the Plant Gorgas CCR Landfill and to satisfy the requirements of § 257.90(e), ADEM Admin. Code r. 335-13-15-.06(1)(f), and Part E of AO No. 18-096-GW. Semi-annual assessment monitoring and associated reporting for Plant Gorgas CCR Landfill is performed in accordance with the monitoring requirements § 257.90 through § 257.95 and ADEM Admin. Code r. 335-13-15-.06(1) through r. 335-13-15-.06(6).

Semi-Annual Groundwater Monitoring and Corrective Action Reports include an update on groundwater delineation activities completed since the submittal of the Facility Plan for Groundwater Investigation (November 13, 2018) and corrective action activities completed since the submittal of the Corrective Action Groundwater Monitoring Program (March 15, 2022).

2.0 MONITORING PROGRAM STATUS

In accordance with § 257.94(e) and ADEM Admin. Code r. 335-13-15-.06(5)(e), APC implemented assessment monitoring in January 2018. SSIs of Appendix III were identified at the Plant Gorgas CCR Landfill during the first 2023 semi-annual sampling event, but SSLs of Appendix IV constituents were not reported over the GWPS.

Following completion of statistical analysis of Appendix IV data from the first assessment monitoring event conducted in May 2018, an SSL above the GWPS was reported for lithium in the sample from well MW-6. Lithium concentrations in well MW-6 have been below the GWPS since the first assessment event in May 2018. An ASD for the lithium SSL was submitted in January 2019 to ADEM as part of the 2018 Annual Groundwater Monitoring and Corrective Action Report and is pending ADEM review. The Plant Gorgas ACM prepared under § 257.96, ADEM Admin. Code r. 335-13-15-.06(7), and AO No. 18-096-GW was amended to include the CCR Landfill in February 2020. In accordance with § 257.95 and ADEM Admin. Code r. 335-13-15-.06(6), APC will continue semi-annual assessment monitoring, including all monitoring wells in the certified groundwater monitoring system.

3.0 SITE LOCATION AND DESCRIPTION

The Alabama Power Company (APC) William Crawford Gorgas Electric Generating Plant (Plant Gorgas) is located in southeastern Walker County, Alabama, approximately 15 miles south of Jasper, at 460 Gorgas Road, Parrish, AL 35580. Based on visual inspection of USGS topographic quadrangle maps and GIS plant boundary files provided by SCS, the plant occupies portions of Sections 7, 8, 9, 16, 17, 18, 19, 20, 21, 28 and 29, Township 16 South, Range 6 West and Section 12, 13 and 24, Township 16 South, Range 7 West (USGS, 1975; USGS, 1983).

Plant Gorgas CCR Landfill (CCR LF) is located east and northeast of the main power generation facility and is bordered to the north by Highway 269 and to the south by the Mulberry Fork of the Black Warrior River. **Figure 1, Site Location Map**, depicts the location of the Plant and landfill with respect to the surrounding area.

3.1 PHYSICAL SETTING

Plant Gorgas is in the Black Warrior River basin, an area typified by moderate relief, with river and stream valleys having dendritic drainage patterns. Elevations at the Site range from approximately 260 feet above mean sea level (MSL) near the Mulberry Fork and Baker Creek to over 500 feet above MSL along a northwest trending ridge approximately 1,000 feet northwest of the plant and in upland areas on the western part of the property. Near the landfill, the land surface generally slopes from north to south and towards the Mulberry Fork of the Black Warrior River. **Figure 2, Site Topographic Map**, provides the topography of the Site.

Two natural surface water bodies drain Plant Gorgas property. Baker Creek flows from northwest to southeast through the central portion of the plant before draining into the Mulberry Fork of the Black Warrior River. The Mulberry Fork flows from east to west as it bends around the southern border of the plant property.

3.2 SITE GEOLOGY AND HYDROGEOLOGY

Plant Gorgas lies in the Warrior Basin physiographic region (Sapp and Emplaincourt, 1975), a late Paleozoic basin formed as a result of flexure and sediment loading associated with Appalachian and Ouachita orogenies. The bedrock geology is dominated by clastic sedimentary rocks of the Lower Pottsville

Formation. Deeper stratigraphy is marked by carbonates, shales, chert, and sandstones of Mississippian to Cambrian in age (Raymond et al., 1988). Plant Gorgas is directly underlain by rocks belonging to the Pratt Coal Group (Ward II et al., 1989). In general, the Pratt Group consists of mudstone, shale, fine-grained sandstone, and interbedded coal. **Figure 3, Site Geologic Map**, illustrates the surface geology at the Site and neighboring areas.

Plant Gorgas is directly underlain by rocks belonging to the Pratt Coal Group (Ward II et al., 1989) of the Upper Pottsville Formation. In general, the Pratt Coal Group consists of mudstone, shale, fine-grained sandstone, and interbedded coal in fining-upward sequences. The Pratt Coal Group generally contains three named coal seams, each separated by 25 to 50 feet of intra-burden. In descending order, they are the Pratt, Nickel Plate, and American coal seams. Locally, Pratt Coal Group strata gently dip (0.5-1.0 degrees) to the south and south-southwest.

Strip mining was conducted over a large portion of the area down to the American Seam. As a result, the overburden around the CCR Landfill is dominated by backfilled mine overburden (mine spoils) and is characterized by weathered shale and sandstone boulders with lenses of fine sediments and small amounts of coal fragments and coarse sediments. Geologic logs generated during various on-site investigations indicate that the depth to rock varies significantly, ranging from as little as 5 feet (un-mined areas) to as much as 155 feet below ground surface (BGS). Beneath the CCR Landfill, subsurface geology is likely characterized by thin remnants of mine backfill and un-mined portions of the Pratt Coal Group consisting predominantly of mudstone and sandstone. **Figure 4A, Geologic Cross-Section A-A'** and **Figure 4B, Geologic Cross-Section B-B'**, illustrates the geologic layering beneath the Site.

Two water-bearing zones are present beneath the Site: (1) the mine overburden/top-of-rock interface, and (2) the underlying Pottsville aquifer. The mine overburden/top of rock interface is usually a thin zone of saturation overlying rock and is not laterally continuous across all portions of the Site. Depth to this zone generally ranges from 100 to 115 feet beneath the Site.

The Pottsville aquifer system is the primary aquifer in Walker County. Although on a regional scale there are other aquifer systems in the vicinity of Plant Gorgas, the Pottsville aquifer system is the most significant. The nearest exposure of the Valley and Ridge aquifer system occurs in central Jefferson County, approximately 25 miles east of Plant Gorgas. The nearest exposure of the Tuscaloosa aquifer system occurs in northwesternmost Walker County, approximately 30 miles northwest of Plant Gorgas. The Tuscaloosa aquifer system is not considered a primary source of groundwater in Walker County (Stricklin, 1989).

The Pottsville aquifer system is composed primarily of Pennsylvanian-aged sandstones, shales, conglomerates, and coal. Groundwater flow primarily occurs through coal seams or rock fabric discontinuities such as bedding planes and fractures. Groundwater in the Pottsville aquifer system is commonly regarded as confined due to large permeability contrasts within the aquifer (Stricklin, 1989). Recharge to the Pottsville aquifer system is largely through infiltration of precipitation and to a lesser extent, downward seepage of river water at hydraulically favored locations. Recharge is accommodated largely by fracture enhanced permeability. Major recharge zones to the Pottsville aquifer system are related to major geologic structures such as large fault zones or along systematic fold axes (Pashin, 2007). Although the Pottsville aquifer system is the primary aquifer in Walker County, groundwater use is relatively limited. According to O'Rear et al., 1972, groundwater use accounted for approximately 15% of total water use in Walker County in 1966. By 2005, groundwater use had declined to less than 1% of total water use in Walker County, or 1.14 million gallons per day (mgd) of groundwater out of a total water use of 969.5 mgd (USGS, 2005).

3.2.1 Pottsville Formation – Rock Chemistry

Published data indicate that elevated arsenic concentrations occur in the Southern Appalachian coal strata where Site monitoring wells are screened. Numerous publications document elevated trace metals in Pottsville and Pottsville coal strata (Kolker et al., 1999, Diehl et al., 2004, Goldhaber et al., 2002). For instance, according to the USGS National Coal Data System (NRCDS), the average concentration of arsenic (72 ppm) in the Pottsville coal strata is three times that of the average of other coal basins (Bragg et al., 1997). Of the U.S. coal analyses for arsenic that are at least three standard deviations above the mean, approximately 90% are from the coal fields of Alabama (Diehl et al., 2004). The United States Geological Survey (USGS) maintains an inventory of coal quality that includes trace metal concentration data. It shows arsenic concentrations range from 1.08 milligrams per kilograms (mg/kg) to 611.0 mg/kg with a mean of 47 mg/kg for Walker County (USGS Coal Quality Database).

Similarly, 75 Pratt Coal Group samples from the Pratt, Nickel Plate, and American coal seams analyzed by the USGS and inventoried in the USGS National Coal Resources Data System (NCRDS) showed the following ranges of other trace metals:

- Boron – 6.3 to 83.6 ppm (average of 35 ppm).
- Cobalt – 1.6 to 19.8 ppm (average of 8 ppm).

- Molybdenum – 0.8 to 22.2 ppm (average of 5 ppm).
- Lithium – 1.4 to 128 ppm (average of 28 ppm).

Bulk geochemical analyses of Pottsville stratigraphy from the Site and of the Pratt and American coal seams from Plant Gorgas were conducted on recovered core. The data reflect arsenic concentrations between 4.9 mg/kg and 32.6 mg/kg in siltstone/mudstones and concentrations of 28.9 and 384.4 mg/kg in two coal seams analyzed. The average arsenic concentration was roughly 34 mg/kg in these samples tested, which is in good agreement with data observed in the USGS NCRDS.

Similarly, 17 Pratt Coal Group samples collected from the Site provided the following ranges of other trace metals:

- Arsenic – 0 to 384.1 ppm (average of 43.8 ppm).
- Boron – 20.8 to 114 ppm (average of 49 ppm).
- Cobalt – 2.79 to 31.2 ppm (average of 18.6 ppm).
- Molybdenum – 0 to 4.38 ppm (average of 1.06 ppm).

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

Furthermore, the process of strip mining and backfilling these materials can increase the availability of trace metals to groundwater. These mining processes and practices lead to the physical weakening and enhanced weathering of rock which, along with changed hydrodynamics, can lead to elevated and highly variable concentrations across a historic mine site.

3.2.2 Uppermost Aquifer

The principal aquifer system from a local and regional perspective is the Pottsville aquifer. The Pottsville aquifer is also the uppermost aquifer beneath the Site. In the Pottsville, two types of secondary porosity were observed to yield groundwater: (1) fractured intervals and (2) bedding plane weaknesses associated with fissile, siderite-banded, iron-claystone sequences. Fractured intervals are sporadic across the Site and tend to occur with greater density in the upper 100 feet of rock. The upper portions of the Pottsville aquifer

system beneath the proposed disposal facilities indicate unconfined to confined, fractured, and extremely anisotropic conditions. The Pottsville aquifer system functions as a series of confined to semi-confined water producing zones (aquifers) because of the large permeability contrasts within the strata (Stricklin, 1989). Depth to groundwater varies significantly across the Site and is wholly dependent on encountering a fractured interval or zone of fissile, iron-claystone.

Monitoring wells installed at the mine overburden/top of rock interface monitor the quality of water passing to the Pottsville Formation. This water quality itself can be highly variable and enriched in trace metals owing to the heterogeneity of mine backfill deposits and mineralogy (e.g., clay minerals and sulfides). Based on published data, groundwater quality produced from the Pottsville Formation can be characterized by high concentrations of sulfate, iron, and other trace metals (Jennings and Cook, 2010). Trace metals in Pottsville Formation groundwater are associated with sulfide minerals contained in organic-rich strata (e.g., mudstones and coal seams) and siliceous/carbonate healed fractures and joints. Trace element enrichment is likely the result of migrating hydrothermal fluids generated during the late Paleozoic Allegheny orogeny (Diehl et al., 2004). Arsenic, antimony, molybdenum, selenium, copper, thallium, and mercury are elevated in Warrior Basin coal strata (Goldhaber et al., 2002).

3.2.3 Flow Interpretation

Groundwater flow at the Site is a subdued replica of the natural topography where gravity is the dominant force driving flow. Groundwater flows from higher topographic elevations north of the Site to lower topographic elevations to the south and generally, towards the Mulberry Fork of the Black Warrior River. Mine spoil layering and complex Pottsville Formation lithofacies contribute to the vertical and horizontal heterogeneity present within the aquifer system and overlying saturated mine spoils. This heterogeneity focuses groundwater flow along more permeable pathways, such as parallel to coal seams and bedding plains, or along vertical or sub-vertical discontinuities in the rock fabric. Semi-annual sampling event groundwater elevations are discussed in Section 4.0.

3.3 GROUNDWATER MONITORING SYSTEM

Pursuant to § 257.91 and ADEM Admin. Code r. 335-13-15-.06(2), Plant Gorgas has installed a groundwater monitoring well network to evaluate groundwater quality within the uppermost aquifer. The certified groundwater monitoring system for the Plant Gorgas CCR Landfill is designed to monitor groundwater flow 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

Well locations at the Site are designated as upgradient, downgradient, and piezometer (water-level only). The following subsections provide a summary of well designations and, if applicable, changes or modifications to the well network or designations. As described in the Site Groundwater Monitoring Plan, modifications to the well network or designation must first be approved by ADEM.

On April 13, 2023, the ground surface and top of casing elevations for all onsite wells were resurveyed by a licensed Professional Land Surveyor. The location and designation of site wells are presented in **Figure 5, Monitoring Well Location Map**. **Table 1, Compliance Monitoring Well Network Details**, summarizes the monitoring well construction details, surveyed elevations, and design purpose for the Plant Gorgas CCR Landfill.

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 for apparently elevated concentrations.

Monitoring well locations MW-1 through MW-4 serve as upgradient locations for the CCR Landfill. Upgradient wells are screened within the same hydrostratigraphic interval as downgradient locations and are representative of background groundwater quality at the Site. Groundwater generally flows from higher topographic elevations north of the Site to lower topographic elevations to the south. Upgradient wells are located north of the CCR Landfill as determined by water level monitoring and potentiometric surface maps constructed for the Site.

3.3.1.2 Downgradient Wells

Monitoring well locations MW-5 through MW-8 serve as downgradient locations for the Gorgas CCR Landfill. Downgradient locations are located lateral to and south of the CCR Landfill as determined by water level monitoring and potentiometric surface maps.

3.3.1.3 Piezometers

One piezometer, identified as MW-9R, is located immediately east of the CCR Landfill and is currently designated as a water level only piezometer. Additional assessment of this well is required before it can be considered for inclusion into the facility's groundwater monitoring network. The location of piezometer MW-9R relative to the CCR Landfill is depicted on **Figure 6, Potentiometric Surface Contour Map (February 20, 2023)** for reference.

3.3.1.4 Monitoring Well Replacement and Abandonment

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

3.4 GROUNDWATER MONITORING HISTORY

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

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

3.4.1 Available Monitoring Data

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

3.4.2 Historical Groundwater Flow

Historical groundwater elevations and potentiometric surface maps show that groundwater flow patterns are consistent across monitoring events and as described in **Section 3.2.3**. 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 for groundwater on a semi-annual basis. The spacing between sampling events is sufficient to ensure sampling events yield independent groundwater samples and generally represent different climatic or meteorological seasons that create a degree of natural variability in groundwater quality.

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

The following subsections summarize the sequential steps and process for the sampling, handling 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 § 257.93(a) and ADEM Admin. Code r. 335-13-15-.06(4)(a). All monitoring wells at Plant Gorgas 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. Groundwater samples are subsequently 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 10 NTU
- Temperature and ORP – record only, no stabilization criteria

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

3.5.2 Sample Preservation and Handling

Groundwater samples were collected 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 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 or 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 COC records for the monitoring event is presented in **Appendix C**.

3.5.5 Monitoring Period Sampling Events

As required by § 257.90(e) and ADEM Admin. Code r. 335-13-15-.06(1)(f), the following describes monitoring-related activities performed during the monitoring period. The first 2023 Semi-Annual Assessment Monitoring sampling events took place between February 20 and 23, 2023.

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

4.0 GROUNDWATER ELEVATIONS AND FLOW

During the first semi-annual sampling event, groundwater elevations ranged from 320.13 to 419.16 feet NAVD88 (feet above reference 1988 North American Vertical Datum) in CCR Landfill monitoring wells.

Figure 6, Potentiometric Surface Contour Map (February 20, 2023) depicts groundwater elevations and inferred groundwater flow direction.

As shown on **Figure 6**, the general direction of lateral groundwater flow is to the southeast, consistent with historic observations. As indicated by groundwater elevations from paired wells MW-12 and MW-12V at the nearby Bottom Ash Landfill, an upward vertical gradient appears to exist between shallow and deeper flow zones. This indicates (1) both vertically confining conditions exist and (2) deeper, older groundwater is upward flowing. Recent available groundwater elevation data collected from the first 2023 semi-annual sampling event has been tabulated and included in **Table 3, Groundwater Elevations Summary**. All available groundwater elevation data recorded since 2015 have been tabulated and included in **Appendix B**.

4.1 GROUNDWATER FLOW VELOCITY CALCULATIONS

Because the geology at the CCR Landfill is not homogeneous or isotropic with respect to groundwater flow, groundwater velocity calculations using derivations of Darcy's Law, or other methods, will not fully represent the spatial variability across the site. Groundwater flow velocity calculations are provided as a general estimate of groundwater flow velocity at the site based on available information and assumptions described below.

The hydrogeologic characteristics of mine spoils and fractured rock can produce preferential groundwater flow paths, so groundwater velocity is much more variable than in uniform porous media such as sand. These flow paths correspond to more permeable lenses in mine spoil and fractures, zones of fracture concentration, bedding planes, and other discontinuities in the rock. Therefore, groundwater flow velocity at the Site will be highly variable.

Slug testing provided horizontal hydraulic conductivities for the uppermost aquifer between 5.11×10^{-3} centimeters per second (cm/sec) and 2.47×10^{-4} cm/sec. The average hydraulic conductivity value used in the calculations is 2.83×10^{-3} cm/sec or 8.01 feet/day. An estimated effective porosity of 0.15 is used in the flow rate calculations. The hydraulic gradient was calculated between well pairs shown in **Appendix D, Horizontal Groundwater Flow Velocity Calculations**.

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 ($\frac{\text{feet}}{\text{day}}$)

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

i = Horizontal hydraulic gradient

n_e = Effective porosity

Using this equation, horizontal groundwater flow velocity is calculated for the site. **Appendix D** presents the horizontal flow velocities calculated using groundwater elevation data collected from the first 2023 semi-annual assessment monitoring event.

5.0 EVALUATION OF GROUNDWATER QUALITY DATA

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

5.1 DATA VALIDATION – QUALITY ASSURANCE/QUALITY CONTROL

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

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

Where:

RPD = Relative Percent Difference (%)

Conc1 = Higher concentration of the sample or field duplicate

Conc2 = Lower concentration of the sample or field duplicate

Where the RPD is below 20%, the difference is considered acceptable, and no further action is needed. Where an RPD is greater than 20%, further evaluation is required to attempt to determine the cause of the difference and potentially result in qualified data. **Table 4, Relative Percent Difference Calculations**, provides the RPDs for sample and sample duplicates during the first semi-annual monitoring event of 2023. All RPDs in this reporting period were reported as being below 20%.

5.2 STATISTICAL METHODOLOGY AND TESTS

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

5.2.1 Appendix III Evaluation

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

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

The following adjustments were made:

- No statistical analyses are required on wells and analytes containing 100% non-detects (EPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% 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 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 first semi-annual monitoring events in 2023 were statistically analyzed in accordance with the Professional Engineer (PE)-certified Statistical Analysis Plan (October 2017) and revised in September 2019 data screening evaluation performed by Groundwater Stats Consulting. Appendix III statistical analysis was performed to determine if constituents had 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.

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**. It should be noted that recent background concentrations for select constituents (**Table 5**) show values that exceed their respective GWPS concentration. These occurrences are a result of recent background concentrations that have not yet been integrated into the Fall 2023 GWPS update. The next semi-annual report should reflect the appropriate changes to the GWPS.

Statistical analysis of Appendix IV data presented in **Appendix E** did not identify any Appendix IV SSLs during the first semi-annual monitoring event for 2023. **Table 6, First Semi-Annual Monitoring Event Analytical Summary** provides a summary of all constituent concentrations for the 2023 first semi-annual monitoring event.

6.0 ALTERNATE SOURCE DEMONSTRATION

Section 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 has caused an SSL and that the SSL was the result of an alternate source, or that the SSL resulted from errors in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. An ASD was prepared for lithium and submitted to ADEM in January 2019.

As discussed in the ASD report, the apparent SSL is the result of the presence of mine spoils and natural groundwater chemistry variability not accounted for by Site statistics. Analytical data from the first semi-annual monitoring event in January 2018 were statistically analyzed in accordance with the Professional Engineer (PE)-certified Statistical Analysis Plan (October 2017) and updated in September 2019 data screening evaluation performed by Groundwater Stats Consulting. A lithium statistical limit of 0.419 mg/L was calculated using the pool of all available upgradient well data in the updated September 2019 data screening evaluation. Consequently, there are no historical exceedances of lithium associated with the CCR Landfill.

The ASD satisfies Federal rules and precludes the need to complete an ACM under § 257.96. However, ADEM has yet to approve the ASD for lithium, and consequently an ACM is required according to the State rules (ADEM Admin. Code r. 335-13-15-.06(6)(g)5.). APC amended the current Plant Gorgas ACM that was prepared under § 257.96, ADEM Admin. Code r. 335-13-15-.06(7), and AO No. 18-096-GW to include the CCR Landfill in February 2020.

7.0 GROUNDWATER DELINEATION

As required by Part E of the Order (AO No. 18-096-GW) and correspondence from ADEM (March 2021), this report provides an update on groundwater delineation activities completed since the submittal of the Facility Plan for Groundwater Investigation (November 13, 2018). The primary purpose of this plan was to identify the horizontal and vertical extent of groundwater impacts defined by EPA Appendix IV groundwater protection standards.

As described in the Facility Plan for Groundwater Investigation for the Plant Gorgas CCR Landfill, source characterization and groundwater delineation efforts are not required pursuant to applicable rules because GWPS are not exceeded at the CCR Landfill. SSLs of the Appendix IV constituent lithium were identified in one well while in assessment monitoring. Consequently, an ASD was submitted to ADEM for lithium SSLs above the GWPS in January 2019. However, since that submittal, SSLs have not been observed at the Site. Pending ADEM review and approval of the ASD, APC will continue assessment monitoring at the CCR landfill.

APC completed an ACM report submitted to ADEM in June 2019 to address the occurrence of constituents in groundwater at SSLs at the Plant Gorgas Ash Pond and Gypsum Pond. In February 2020, Alabama Power revised the ACM to include the CCR Landfill. As described above, there have not been any SSLs at the Site since 2018, and therefore, does not warrant the implementation of groundwater corrective action remedies.

8.0 SUMMARY AND CONCLUSIONS

Based on the results of statistical analysis presented in this report, the CCR Landfill remains in assessment monitoring. The certified compliance monitoring well network is sampled on a semi-annual basis and groundwater samples analyzed for all Appendix III and IV parameters. Statistical evaluations of the first 2023 semi-annual assessment monitoring data did not identify SSLs of Appendix IV constituents.

An ASD was prepared to address the lithium GWPS exceedances at compliance well MW-6 and submitted to ADEM in January 2019. In addition, since the submittal of this ASD, SSLs have not been observed at the Site. However, ADEM has not yet approved the ASD, so APC has amended the current Plant Gorgas ACM to include the CCR Landfill. The pending ASD review decision by ADEM has direct implications on future actions for the site. If approved, the site will remain in assessment monitoring and corrective actions will not necessitate further evaluation.

In accordance with § 257.95(d) and Alabama Admin. Code r. 335-13-15-.06(6)(d), APC will continue semi-annual assessment monitoring. The following future actions will be taken or are recommended for the site:

- Conduct the second 2023 semi-annual assessment monitoring event in the fall of 2023 and submit the Annual Groundwater Monitoring and Corrective Action Report summarizing the findings to ADEM by January 31, 2024.

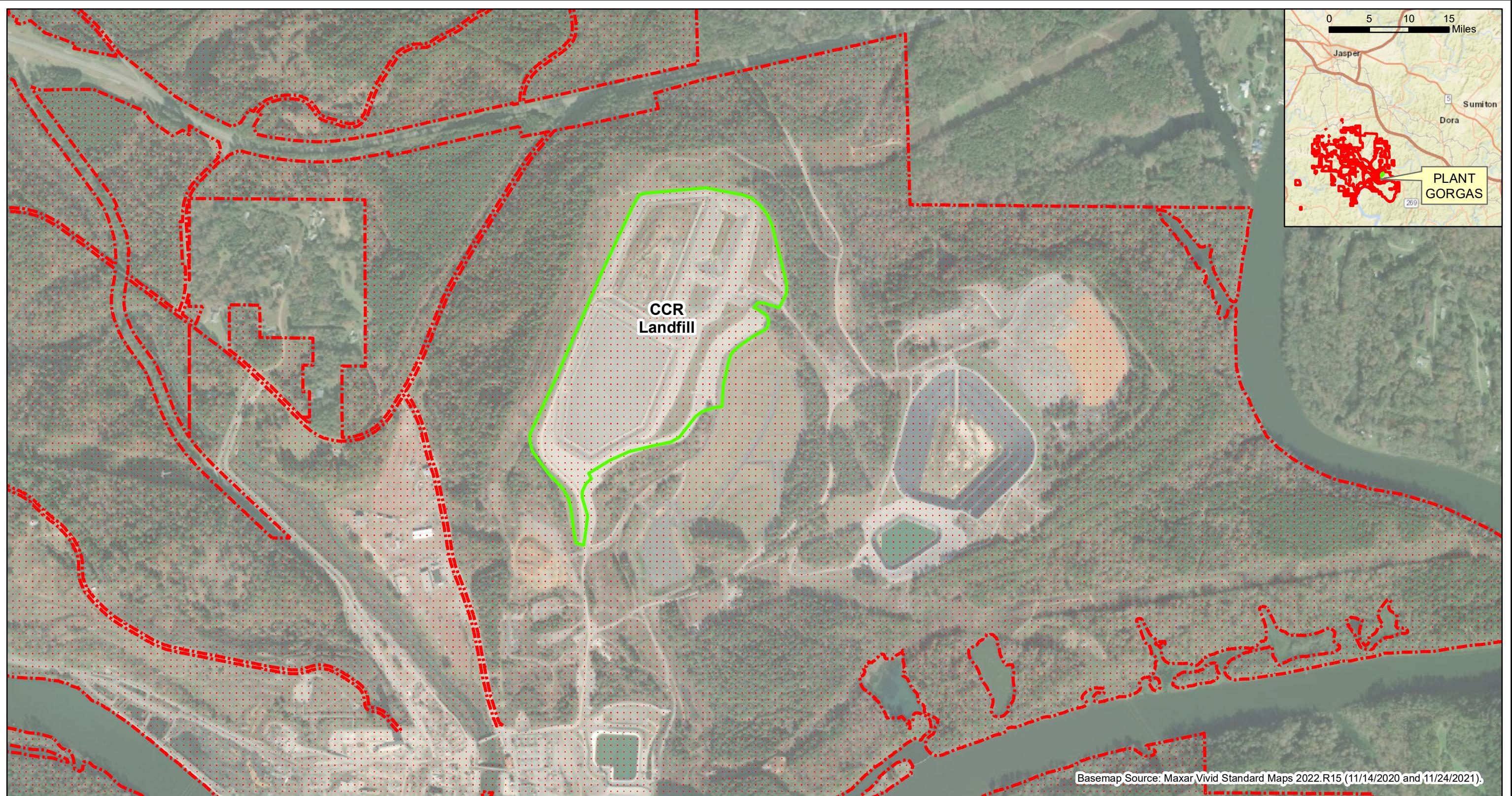
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Plant Gorgas CCR Landfill
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Figures



Legend

- CCR Landfill Boundary (Approximate)
- Property Boundary (Approximate)



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

SCALE
1:9000

DATE
6/13/2023

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KWR

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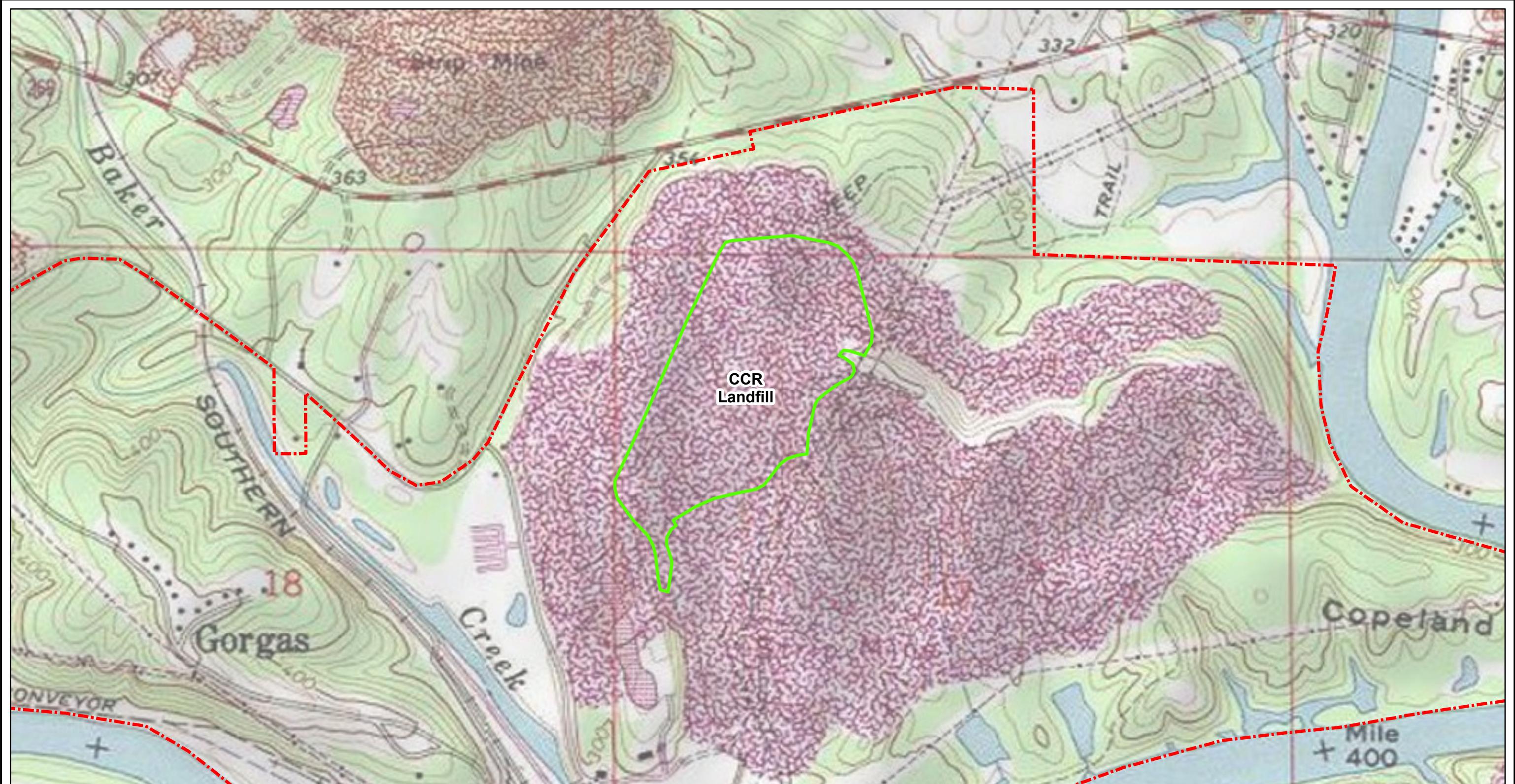
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SITE LOCATION MAP PLANT GORGAS CCR LANDFILL

FIGURE NO

FIGURE 1





Legend

- Property Boundary (Approximate)
- CCR Landfill Boundary (Approximate)

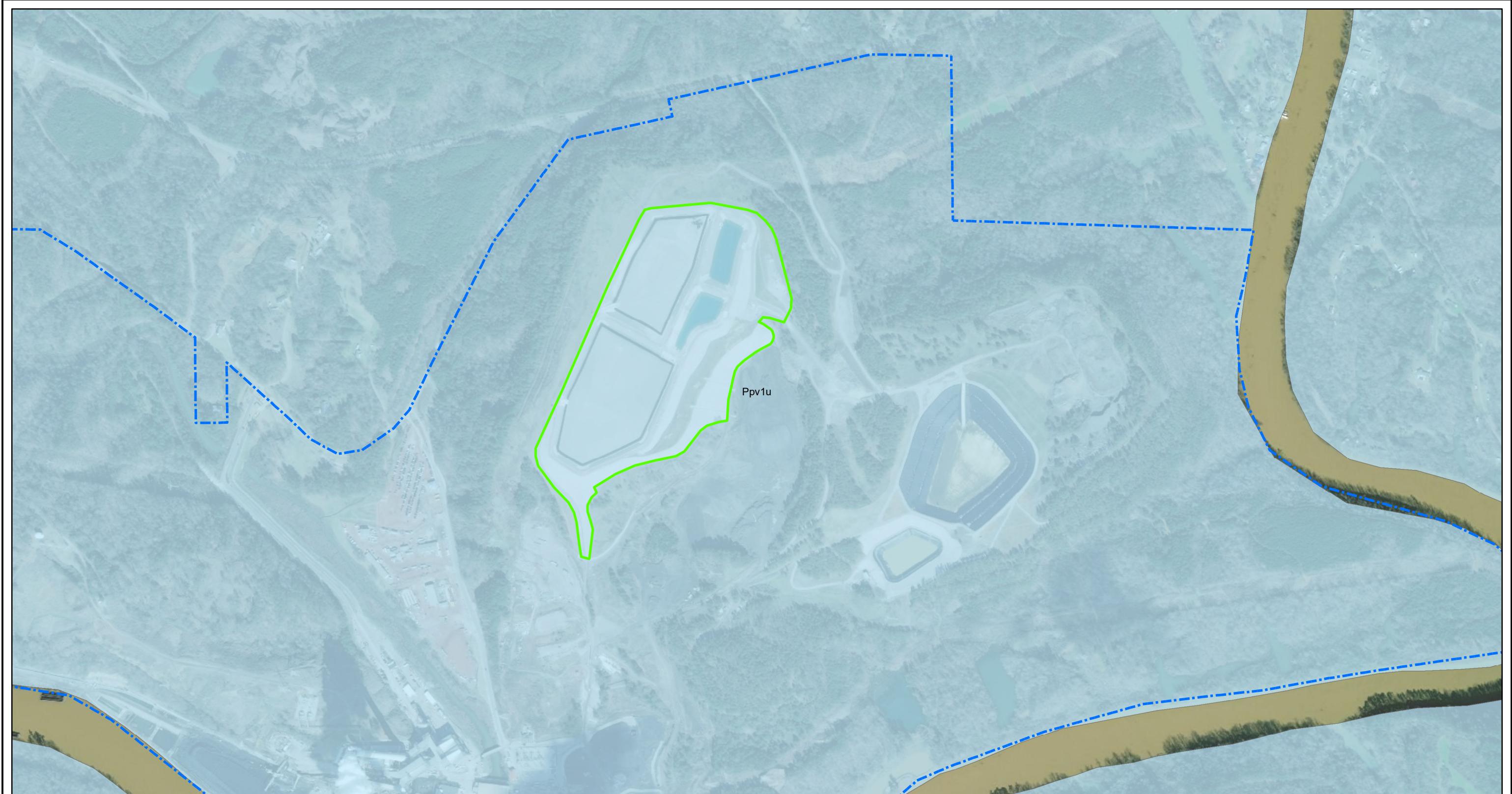


0 500 1,000 2,000 3,000 Feet

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SITE TOPOGRAPHIC MAP
PLANT GORGAS CCR LANDFILL
FIGURE NO FIGURE 2



**Legend**

- Property Boundary (Approximate)
- CCR Landfill Boundary (Approximate)

Geologic Units

- Pottsville Formation (upper part),
Appalachian Plateaus (Ppv1u)



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Feet

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**SITE GEOLOGIC MAP
PLANT GORGAS CCR LANDFILL**

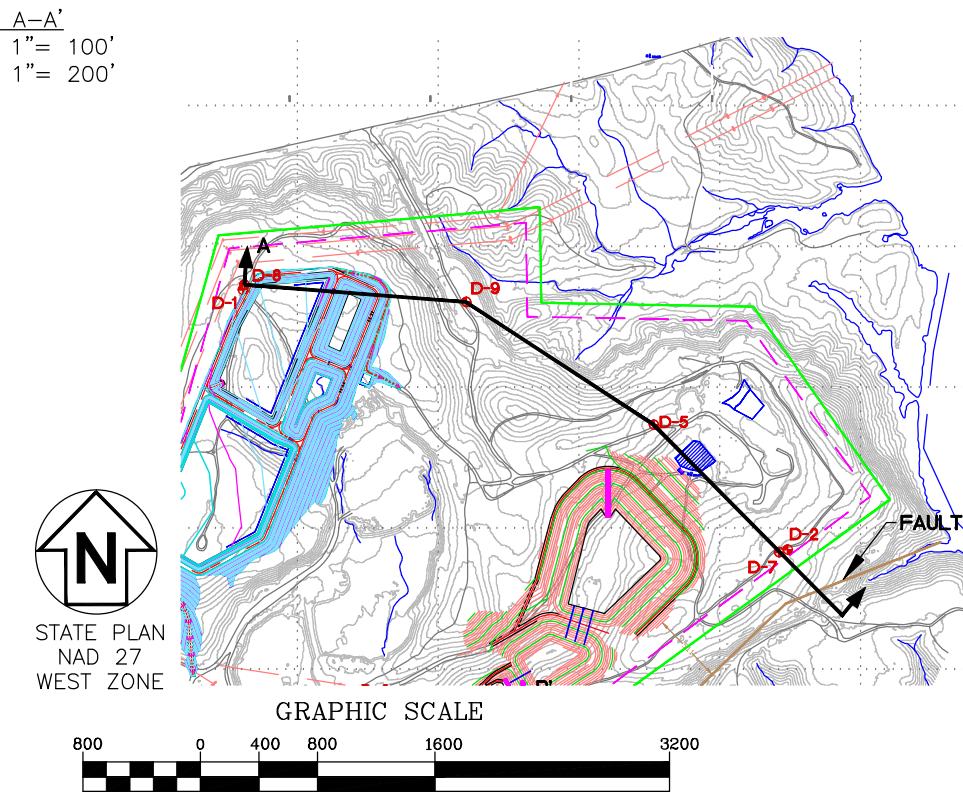
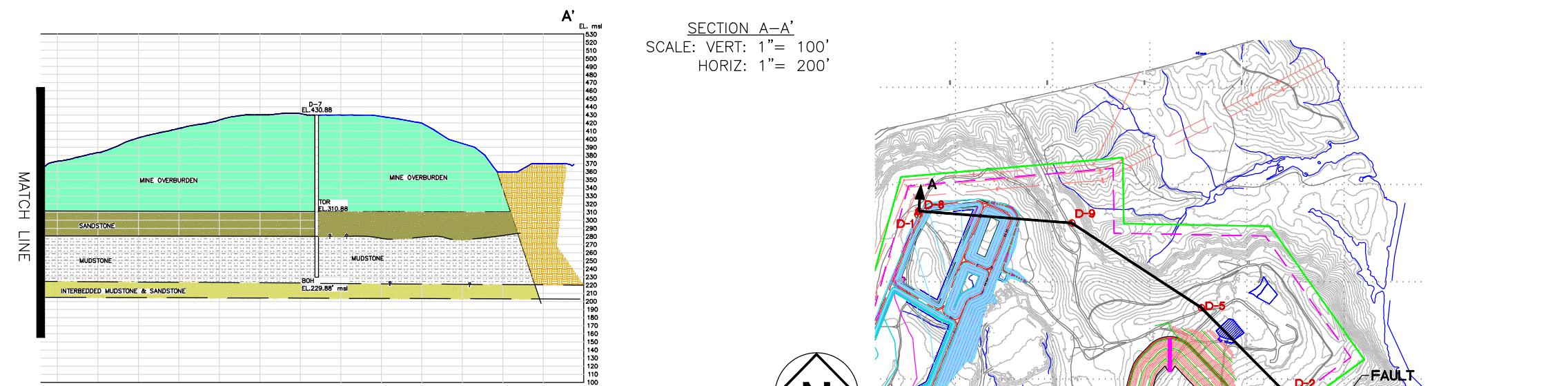
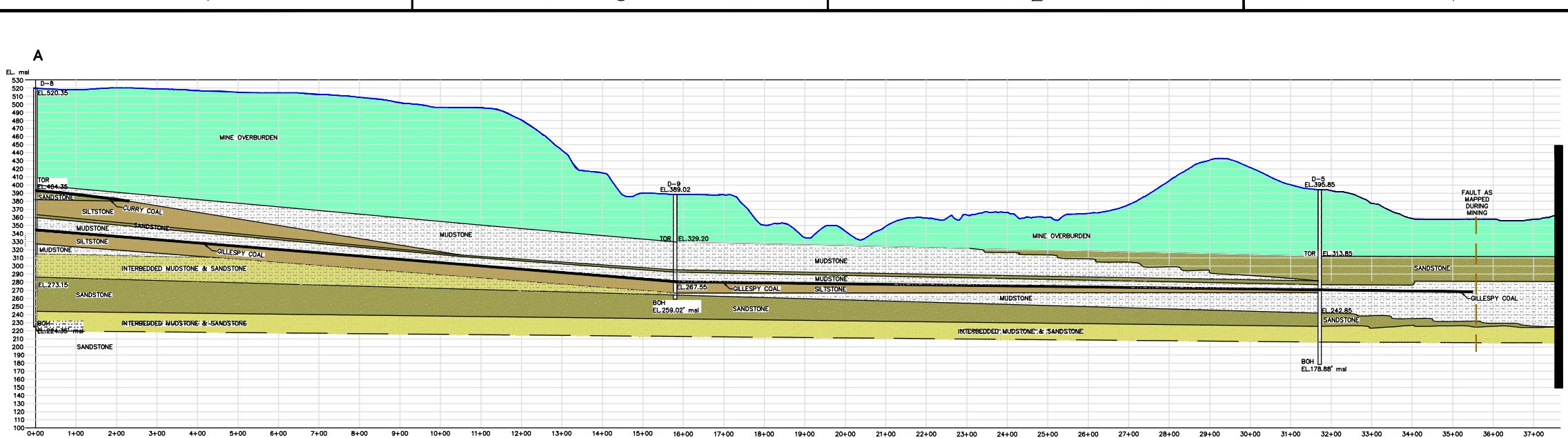
FIGURE NO

FIGURE 3

 Southern Company



4 | 3 | 2 | 1



| REVISION | DATE | REVISION | DATE |
|----------|------|----------|------|
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| REVISION | DATE | REVISION | DATE |
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| O | 07/07/2017 | | |

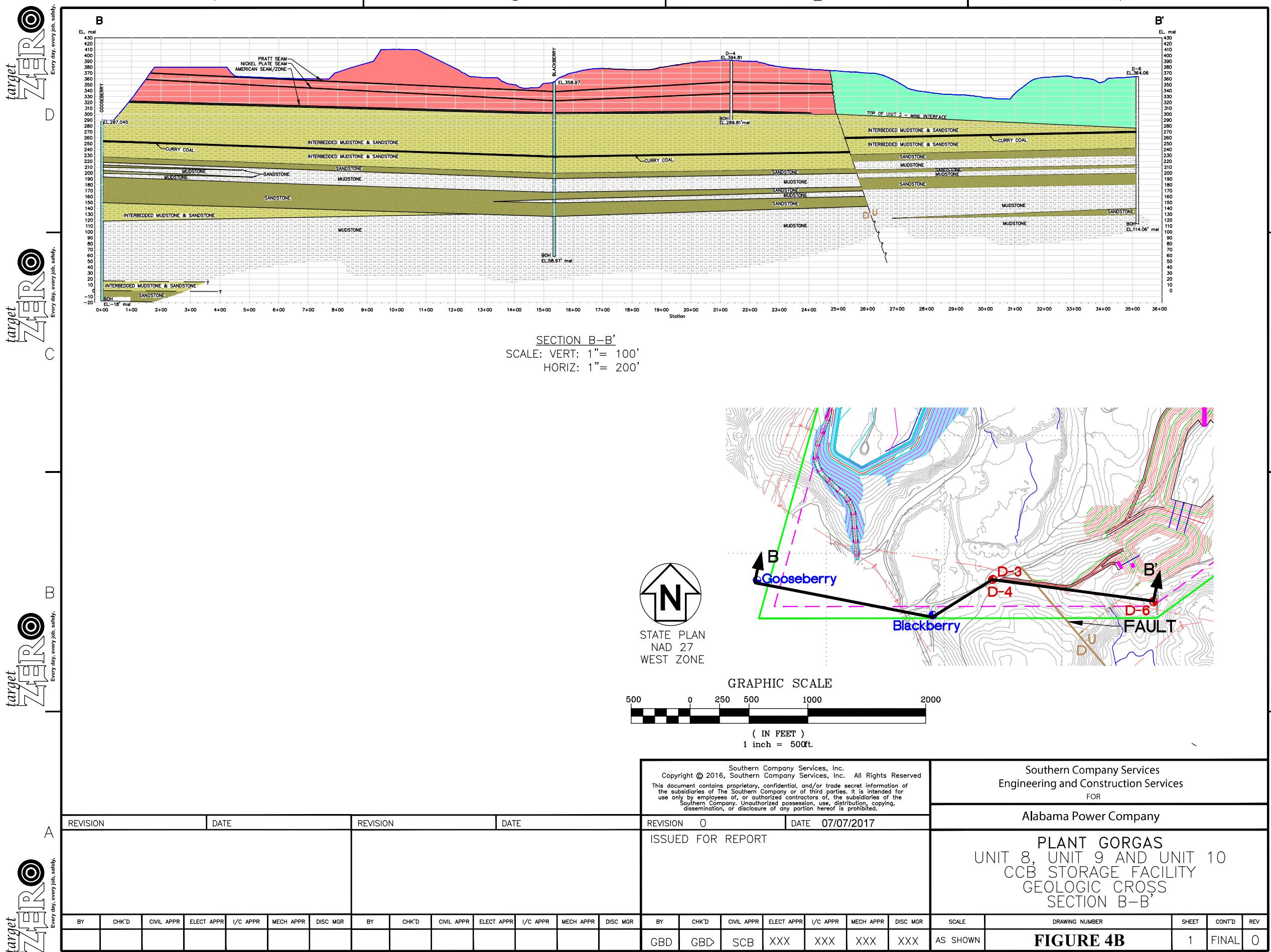
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ISSUED FOR REPORT

Southern Company Services
Engineering and Construction Services
FOR
Alabama Power Company

PLANT GORGAS
UNIT 8, UNIT 9 AND UNIT 10
CCB STORAGE FACILITY
GEOLOGIC CROSS
SECTION A-A'

| BY | CHK'D | CIVIL APPR | ELECT APPR | I/C APPR | MECH APPR | DISC MGR | BY | CHK'D | CIVIL APPR | ELECT APPR | I/C APPR | MECH APPR | DISC MGR | BY | CHK'D | CIVIL APPR | ELECT APPR | I/C APPR | MECH APPR | DISC MGR | SCALE | DRAWING NUMBER | sheet | CONT'D | REV |
|----|-------|------------|------------|----------|-----------|----------|----|-------|------------|------------|----------|-----------|----------|-----|-------|------------|------------|----------|-----------|----------|----------|----------------|-------|--------|-----|
| | | | | | | | | | | | | | | GBD | GBD | SCB | XXX | XXX | XXX | XXX | AS SHOWN | FIGURE 4A | 1 | FINAL | 0 |





Legend

- Downgradient Monitoring Well (Red dot)
- Upgradient Monitoring Well (Blue square)

Gorgas CCR Landfill Boundary (Approximate) (Green line)



0 500 1,000 2,000 Feet

NOTE: Basemap Source: Maxar, 11/14/2020 (east) and 11/24/2021 (west).

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DATE 5/26/2023

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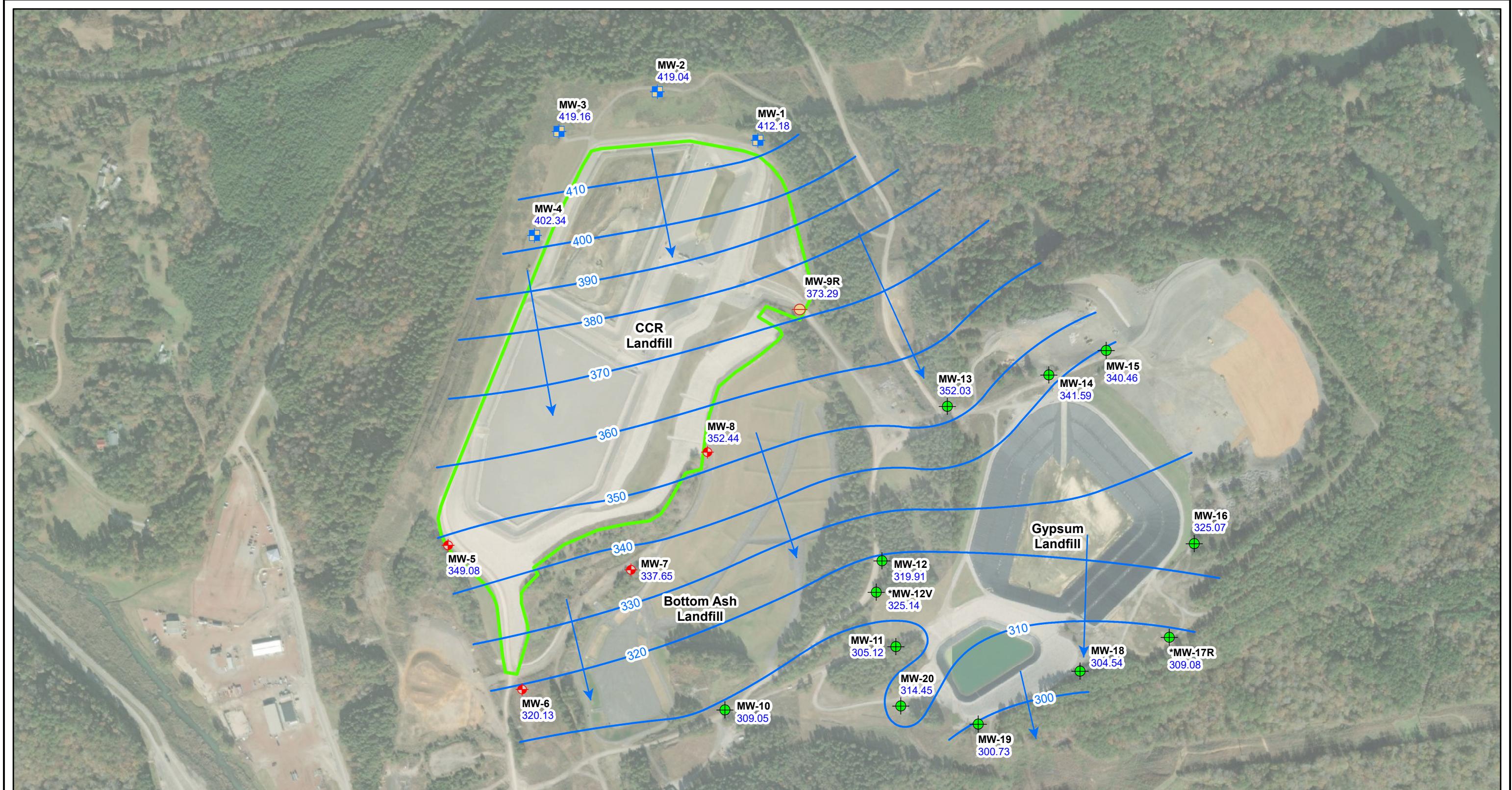
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MONITORING WELL LOCATION MAP
PLANT GORGAS CCR LANDFILL

FIGURE NO

FIGURE 5

 Southern Company



Legend

- Downgradient Monitoring Well
- Upgradient Monitoring Well
- Monitoring Well
- Piezometer
- Potentiometric Surface Contour (ft NAVD88)
- Approximate Groundwater Flow Direction
- CCR Landfill Boundary (Approximate)
- MW-1 412.18 Well ID Groundwater Elevation



0 500 1,000 2,000
Feet

NOTES: 1. NAVD88 indicates North American Vertical Datum of 1988.
2. MW-10, screened across American Coal Seam, was factored into contouring.
3. *MW-12V and MW-17R are screened entirely in rock and were not factored into contouring.
4. Basemap Source: Maxar, 11/14/2020 (east) and 11/24/2021 (west).

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POTENTIOMETRIC SURFACE CONTOUR MAP
FEBRUARY 20, 2023
PLANT GORGAS CCR LANDFILL

FIGURE 6

Southern Company

Tables



Table 1. - Compliance Monitoring Well Network Details
Plant Gorgas CCR Landfill

| Well ID | Hydraulic Location | Geologic Unit | Latitude | Longitude | Ground Surface Elevation (ft NAVD) | Top Of Casing Elevation (ft NAVD) | Well Depth (ft BTOC) | Top Of Screen Elevation (ft NAVD) | Bottom Of Screen Elevation (ft NAVD) | Screen Length (ft) | Date Of Installation |
|---------------------|--------------------|--------------------------------------|-------------|-------------|------------------------------------|-----------------------------------|----------------------|-----------------------------------|--------------------------------------|--------------------|----------------------|
| WELL NETWORK | | | | | | | | | | | |
| MW-1 | Upgradient | Mine Spoil - Pottsville Fm Interface | 33.65821266 | -87.1908573 | 499.29 | 502.71 | 108.25 | 405.19 | 395.19 | 10 | 1/15/2014 |
| MW-2 | Upgradient | Mine Spoil - Pottsville Fm Interface | 33.65892938 | -87.1926079 | 499.32 | 502.47 | 94.47 | 418.72 | 408.72 | 10 | 10/23/2014 |
| MW-3 | Upgradient | Mine Spoil - Pottsville Fm Interface | 33.65835409 | -87.1943305 | 522.80 | 526.15 | 119.11 | 417.70 | 407.70 | 10 | 10/23/2014 |
| MW-4 | Upgradient | Mine Spoil - Pottsville Fm Interface | 33.6568369 | -87.1947598 | 516.82 | 518.30 | 128.84 | 400.52 | 390.52 | 10 | 2/19/2012 |
| MW-5 | Downgradient | Mine Spoil - Pottsville Fm Interface | 33.6523226 | -87.1962867 | 471.68 | 474.90 | 137.30 | 348.08 | 338.08 | 10 | 10/28/2014 |
| MW-6 | Downgradient | Mine Spoil - Pottsville Fm Interface | 33.65020848 | -87.1950016 | 412.07 | 415.31 | 128.97 | 296.47 | 286.47 | 10 | 10/29/2014 |
| MW-7 | Downgradient | Mine Spoil - Pottsville Fm Interface | 33.65195545 | -87.1930942 | 391.98 | 394.69 | 73.82 | 331.38 | 321.38 | 10 | 10/29/2014 |
| MW-8 | Downgradient | Mine Spoil - Pottsville Fm Interface | 33.6536690 | -87.1917540 | 413.87 | 415.83 | 72.39 | 354.97 | 344.97 | 10 | 1/16/2014 |
| MW-9R | Piezometer | Mine Spoil - Pottsville Fm Interface | 33.65574533 | -87.1901370 | 500.23 | 503.27 | 135.24 | 378.73 | 368.73 | 10 | 7/27/2017 |

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

(1) A well construction log for piezometer MW-9R could not be located.

Table 2. Parameters And Reporting Limits

Plant Gorgas CCR Landfill

02/20/2023 - 02/22/2023

| Appendix III Parameters | | | |
|-------------------------|--------------------|------------------|------------------|
| Parameters | Analytical Methods | Reporting Limits | Units of Measure |
| Boron | EPA 200.7 | 0.1015 | mg/L |
| Calcium | EPA 200.7 | 4.06-40.599998 | mg/L |
| Chloride | SM4500Cl E | 1 | mg/L |
| Fluoride | SM4500F G 2017 | 0.125 | mg/L |
| pH_Field | Field Sampling | NA | SU |
| Sulfate | SM4500SO4 E 2011 | 80-160 | 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 | mg/L |
| Beryllium | EPA 200.8 | 0.001015 | mg/L |
| Cadmium | EPA 200.8 | 0.000203 | mg/L |
| Chromium | EPA 200.8 | 0.001015 | mg/L |
| Cobalt | EPA 200.8 | 0.000203 | mg/L |
| Fluoride | SM4500F G 2017 | 0.125 | mg/L |
| Lead | EPA 200.8 | 0.000203 | mg/L |
| Lithium | EPA 200.7 | 0.02 | mg/L |
| Mercury | EPA 245.1 | 0.0005 | mg/L |
| Molybdenum | EPA 200.8 | 0.000203 | mg/L |
| Selenium | EPA 200.8 | 0.001015 | mg/L |
| Thallium | EPA 200.8 | 0.000203 | mg/L |
| Combined Radium 226 + 228 | Total Radium Calculation | 0.918-1.11 | 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

Table 3. Groundwater Elevations Summary

Plant Gorgas CCR Landfill

02/20/2023 - 02/20/2023

| Well | Measurement Date | TOC Elevation (ft. NAVD) | Depth To Water (ft. BTOC) | Groundwater Elevation (ft. NAVD) |
|-------------|-------------------------|-------------------------------------|--------------------------------------|---|
| MW-1 | 02/20/2023 | 502.71 | 90.53 | 412.18 |
| MW-2 | 02/20/2023 | 502.47 | 83.43 | 419.04 |
| MW-3 | 02/20/2023 | 526.15 | 106.99 | 419.16 |
| MW-4 | 02/20/2023 | 518.30 | 115.96 | 402.34 |
| MW-5 | 02/20/2023 | 474.90 | 125.82 | 349.08 |
| MW-6 | 02/20/2023 | 415.31 | 95.18 | 320.13 |
| MW-7 | 02/20/2023 | 394.69 | 57.04 | 337.65 |
| MW-8 | 02/20/2023 | 415.83 | 63.39 | 352.44 |

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 4. Relative Percent Difference (RPD) Calculations**Plant Gorgas CCR Landfill
02/20/2023 - 02/20/2023

| MW-1 | | | | |
|-------------------------|-------|-----------------|------------------|---------|
| Sample Date = 2/20/2023 | | | | |
| Analyte | Units | Original Result | Duplicate Result | RPD (%) |
| Calcium | mg/L | 151 | 159 | 5.16% |
| Chloride | mg/L | 2.05 | 2 | 2.47% |
| Fluoride | mg/L | 0.221 | 0.186 | 17.20% |
| Sulfate | mg/L | 1520 | 1430 | 6.10% |
| Arsenic | mg/L | 0.00027 | 0.00027 | 1.84% |
| Barium | mg/L | 0.0102 | 0.0105 | 2.90% |
| Cadmium | mg/L | 0.00185 | 0.00181 | 2.19% |
| Cobalt | mg/L | 0.0665 | 0.0678 | 1.94% |
| Lithium | mg/L | 0.0241 | 0.0243 | 0.83% |
| Selenium | mg/L | 0.00258 | 0.00262 | 1.54% |

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 5. Summary of Background Levels and Groundwater Protection Standards
Plant Gorgas CCR Landfill

| Appendix IV Analytes | | | |
|---------------------------|-------|------------|--------|
| Analyte | Units | Background | GWPS |
| Antimony | mg/L | 0.00143 | 0.006 |
| Arsenic | mg/L | 0.005 | 0.01 |
| Barium | mg/L | 0.0165 | 2 |
| Beryllium | mg/L | 0.0121 | 0.0185 |
| Cadmium | mg/L | 0.00598 | 0.005 |
| Chromium | mg/L | 0.0105 | 0.1 |
| Cobalt | mg/L | 0.49 | 1.07 |
| Fluoride | mg/L | 0.63 | 4 |
| Lead | mg/L | 0.00108 | 0.015 |
| Lithium | mg/L | 0.419 | 0.419 |
| Mercury | mg/L | 0.0005 | 0.002 |
| Molybdenum | mg/L | 0.0002 | 0.1 |
| Selenium | mg/L | 0.0209 | 0.05 |
| Thallium | mg/L | 0.000226 | 0.002 |
| Combined Radium 226 + 228 | pCi/L | 1.47 | 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).



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Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gorgas CCR Landfill
02/20/2023 - 02/22/2023

| Field Parameters | | | | | | | | |
|--------------------|------|-------------|-----------------------|------------|-----------|----------------|---------------------------|------------------|
| Hydraulic Location | Well | Sample Date | Conductivity uS/cm | DO mg/L | ORP mv | pH_Field SU | Field Temperature C | Turbidity NTU |
| Upgradient | MW-1 | 02/20/2023 | 2297.01 | 0.95 | 361.14 | 5.07 | 19.59 | 0.73 |
| Upgradient | MW-2 | 02/20/2023 | 1773 | 0.82 | 72.91 | 6.24 | 18.95 | 0.41 |
| Upgradient | MW-3 | 02/20/2023 | 3276.9 | 6.19 | 231.95 | 6.01 | 20.34 | 1.21 |
| Upgradient | MW-4 | 02/21/2023 | 3184.95 | 3.15 | 219 | 6.35 | 19.61 | 0.72 |
| Downgradient | MW-5 | 02/21/2023 | 3355.12 | 0.79 | -7.67 | 6.5 | 19.77 | 4.48 |
| Downgradient | MW-6 | 02/22/2023 | 2795.15 | 0.45 | 195.75 | 4.98 | 21.32 | 6.33 |
| Downgradient | MW-7 | 02/21/2023 | 2577.99 | 0.94 | -6.78 | 6.72 | 19.16 | 0.53 |
| Downgradient | MW-8 | 02/21/2023 | 2722.64 | 0.32 | 1.47 | 6.75 | 20.26 | 7.56 |

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



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Table 6. First Semi-Annual Monitoring Event

**Analytical Results Summary
Plant Gorgas CCR Landfill
02/20/2023 - 02/22/2023**

| 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 | TDS mg/L |
| Upgradient | MW-1 | 02/20/2023 | <0.03 | 170 | 2.05 | 0.221 | 5.07 | 1520 | 2280 |
| Upgradient | MW-2 | 02/20/2023 | <0.03 | 165 | 1.7 | 0.267 | 6.24 | 767 | 1420 |
| Upgradient | MW-3 | 02/20/2023 | <0.03 | 234 | 1.94 | 0.379 | 6.01 | 2110 | 3230 |
| Upgradient | MW-4 | 02/21/2023 | 0.0416 J | 239 | 1.58 | 0.415 | 6.35 | 1930 | 3160 |
| Downgradient | MW-5 | 02/21/2023 | 0.0306 J | 355 | 5.25 | 0.319 | 6.5 | 2210 | 3310 |
| Downgradient | MW-6 | 02/22/2023 | 0.0381 J | 266 | 4.37 | 0.173 | 4.98 | 1870 | 2790 |
| Downgradient | MW-7 | 02/21/2023 | 0.0664 J | 299 | 6.12 | 0.216 | 6.72 | 1450 | 2220 |
| Downgradient | MW-8 | 02/21/2023 | 0.0617 J | 317 | 4.86 | 0.212 | 6.75 | 1510 | 2370 |

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



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Table 6. First Semi-Annual Monitoring Event

**Analytical Results Summary
Plant Gorgas CCR Landfill
02/20/2023 - 02/22/2023**

| 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 | MW-1 | 02/20/2023 | <0.000508 | 0.000298 | 0.00873 | <0.000406 | 0.00154 | <0.000203 | 0.0587 | 0.221 |
| Upgradient | MW-2 | 02/20/2023 | <0.000508 | 0.000231 | 0.0104 | <0.000406 | 8.1e-05 J | <0.000203 | 0.0163 | 0.267 |
| Upgradient | MW-3 | 02/20/2023 | <0.000508 | 0.000227 | 0.00729 | <0.000406 | 0.00136 | 0.000297 J | 0.00375 | 0.379 |
| Upgradient | MW-4 | 02/21/2023 | <0.000508 | <8.1e-005 | 0.0105 | <0.000406 | <6.8e-005 | <0.000203 | <6.8e-005 | 0.415 |
| Downgradient | MW-5 | 02/21/2023 | <0.000508 | 0.000198 J | 0.0107 | <0.000406 | <6.8e-005 | <0.000203 | 0.000976 | 0.319 |
| Downgradient | MW-6 | 02/22/2023 | <0.000508 | 0.0019 | 0.0118 | 0.00128 | 0.00194 | <0.000203 | 0.487 | 0.173 |
| Downgradient | MW-7 | 02/21/2023 | <0.000508 | 0.00162 | 0.0131 | <0.000406 | <6.8e-005 | <0.000203 | 0.00381 | 0.216 |
| Downgradient | MW-8 | 02/21/2023 | <0.000508 | 0.000567 | 0.0126 | <0.000406 | <6.8e-005 | <0.000203 | 0.00585 | 0.212 |

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



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Table 6. First Semi-Annual Monitoring Event

**Analytical Results Summary
Plant Gorgas CCR Landfill
02/20/2023 - 02/22/2023**

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 | MW-1 | 02/20/2023 | <6.8e-005 | 0.0233 | <0.0003 | 0.000159 J | 0.00228 | <6.8e-005 | 0.36 U |
| Upgradient | MW-2 | 02/20/2023 | 0.000135 J | 0.0418 | <0.0003 | <0.005075 | <0.000508 | <6.8e-005 | 0.837 U |
| Upgradient | MW-3 | 02/20/2023 | <6.8e-005 | 0.065 | <0.0003 | 0.000135 J | 0.0125 | <6.8e-005 | 0.234 U |
| Upgradient | MW-4 | 02/21/2023 | <6.8e-005 | 0.0431 | <0.0003 | 0.000274 | 0.00248 | <6.8e-005 | 0.3 U |
| Downgradient | MW-5 | 02/21/2023 | <6.8e-005 | 0.0939 | <0.0003 | 0.000937 | 0.00172 | <6.8e-005 | 0.275 U |
| Downgradient | MW-6 | 02/22/2023 | 0.000115 J | 0.0325 | <0.0003 | 0.000164 J | 0.00162 | 0.000138 J | 3.75 |
| Downgradient | MW-7 | 02/21/2023 | <6.8e-005 | 0.0892 | <0.0003 | 0.000885 | <0.000508 | <6.8e-005 | 0.789 U |
| Downgradient | MW-8 | 02/21/2023 | <6.8e-005 | 0.119 | <0.0003 | 0.000582 | <0.000508 | <6.8e-005 | 2.19 |

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



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Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gorgas CCR Landfill
02/20/2023 - 02/22/2023

| General Chemistry and MNA Parameters | | | | | | | | | | |
|--------------------------------------|------|-------------|---------------|---------------------------|--------------|---------------|--------------|-----------------|----------------|----------------------|
| Hydraulic Location | Well | Sample Date | Chloride mg/L | Nitrate Nitrite mg/L as N | Sulfate mg/L | Aluminum mg/L | Calcium mg/L | Iron Total mg/L | Potassium mg/L | Magnesium Total mg/L |
| Upgradient | MW-1 | 02/20/2023 | 2.05 | 0.891 | 1520 | 0.112 | 170 | <0.00812 | 6.64 | 321 |
| Upgradient | MW-2 | 02/20/2023 | 1.7 | <0.2 | 767 | <0.00609 | 165 | 0.727 | 5.27 | 187 |
| Upgradient | MW-3 | 02/20/2023 | 1.94 | 2.46 | 2110 | 0.0298 J | 234 | <0.00812 | 6.13 | 446 |
| Upgradient | MW-4 | 02/21/2023 | 1.58 | 0.244 J | 1930 | <0.00609 | 239 | <0.00812 | 7.28 | 397 |
| Downgradient | MW-5 | 02/21/2023 | 5.25 | <0.2 | 2210 | <0.00609 | 355 | 2.46 | 5.74 | 359 |
| Downgradient | MW-6 | 02/22/2023 | 4.37 | <0.2 | 1870 | 0.311 | 266 | 3.6 | 5.86 | 354 |
| Downgradient | MW-7 | 02/21/2023 | 6.12 | <0.2 | 1450 | <0.00609 | 299 | 2.15 | 6.2 | 281 |
| Downgradient | MW-8 | 02/21/2023 | 4.86 | <0.2 | 1510 | <0.00609 | 317 | 1.37 | 7.39 | 321 |

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



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Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gorgas CCR Landfill
02/20/2023 - 02/22/2023

| General Chemistry and MNA Parameters | | | | | | | | | | |
|--------------------------------------|------|-------------|----------------------|-------------|--------------|-------------|----------------------------|---|---|---|
| Hydraulic Location | Well | Sample Date | Manganese Total mg/L | Sodium mg/L | Silicon mg/L | Silica mg/L | Carbon, Total Organic mg/L | Alkalinity Total as CaCO ₃ mg CaCO ₃ /L | Carbonate Alkalinity as CaCO ₃ mg CaCO ₃ /L | Bicarbonate Alkalinity as CaCO ₃ mg CaCO ₃ /L |
| Upgradient | MW-1 | 02/20/2023 | 9 | 32 | 11.6 | 24.6 | 4.53 | 21.4 | NC | 21.4 |
| Upgradient | MW-2 | 02/20/2023 | 4.15 | 16.3 | 5.18 | 11.1 | 8.44 | 283 | NC | 283 |
| Upgradient | MW-3 | 02/20/2023 | 0.447 | 44.9 | 10.3 | 22 | 3.56 | 81.7 | NC | 81.7 |
| Upgradient | MW-4 | 02/21/2023 | 0.000381 J | 32.3 | 5.67 | 12.2 | 4.29 | 182 | NC | 182 |
| Downgradient | MW-5 | 02/21/2023 | 0.322 | 48.8 | 7.49 | 16 | 1.17 J | 260 | NC | 260 |
| Downgradient | MW-6 | 02/22/2023 | 51.6 | 49.4 | 9.76 | 20.8 | 2.24 | 32.6 | NC | 32.6 |
| Downgradient | MW-7 | 02/21/2023 | 2.1 | 37.6 | 5.01 | 10.4 | 1.91 J | 296 | NC | 296 |
| Downgradient | MW-8 | 02/21/2023 | 0.844 | 36.7 | 5.25 | 11.1 | <1 | 349 | NC | 349 |

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



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Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gorgas CCR Landfill
02/20/2023 - 02/22/2023

| General Chemistry and MNA Parameters | | | |
|--------------------------------------|------|-------------|--------------|
| Hydraulic Location | Well | Sample Date | Sulfide mg/L |
| Upgradient | MW-1 | 02/20/2023 | 0 |
| Upgradient | MW-2 | 02/20/2023 | 0 |
| Upgradient | MW-3 | 02/20/2023 | 0 |
| Upgradient | MW-4 | 02/21/2023 | 0 |
| Downgradient | MW-5 | 02/21/2023 | 0 |
| Downgradient | MW-6 | 02/22/2023 | 0 |
| Downgradient | MW-7 | 02/21/2023 | 0 |
| Downgradient | MW-8 | 02/21/2023 | 0 |

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



**Appendix A. Historical Analytical Data Summary
Plant Gorgas CCR Landfill**

| Analyte | Well | MW-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | Date | 04/26/2016 | 06/20/2016 | 08/08/2016 | 08/24/2016 | 10/03/2016 | 10/26/2016 | 11/21/2016 | 01/17/2017 | 03/22/2017 | 04/18/2017 | 05/30/2017 | 08/23/2017 | 02/13/2018 | 05/22/2018 | 06/12/2018 | 10/17/2018 | 11/19/2018 | 05/14/2019 | 10/08/2019 | 10/16/2019 | 02/03/2020 | 04/06/2020 | 07/13/2020 | 08/03/2020 | 02/22/2021 | 07/12/2021 | 01/25/2022 | 07/05/2022 | 02/20/2023 |
| Appendix III | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Boron | mg/L | 0.0231 J | 0.0227 J | 0.0278 J | 0.0247 J | 0.0307 J | 0.0241 J | 0.0202 J | 0.0201 J | 0.0224 J | <0.02 | <0.02 | 0.0253 J | -- | 0.0224 J | 0.0214 J | 0.0216 J | 0.0237 J | <0.0609 | <0.03 | 0.0385 J | <0.03 | <0.03 | <0.03 | 0.0307 J | <0.03 | <0.03 | <0.03 | <0.03 | | |
| Calcium | mg/L | 147 | 152 | 150 | 142 | 139 | 133 | 144 | 131 | 141 | 149 | 140 | 152 | -- | 166 | 203 | 171 | 154 | 167 | 157 | 157 | 172 | 149 | 147 | 148 | 151 | 149 | 159 | 158 | 159 | |
| Chloride | mg/L | 1.94 | 2.09 | 2.18 | 2.22 | 2.34 | 2.34 | 2.5 | 2.68 | 2.4 | 2.4 | 2.6 | 2.7 | -- | 2.3 | 2.3 | -- | 1.7 J | 2.28 | 2.31 | 2.42 | 2.07 | 2.01 | 2.1 | 2.05 | 2.16 | 2.19 | 2.09 | 2.07 | 2.05 | |
| Fluoride | mg/L | 0.146 J | 0.148 J | 0.137 J | 0.133 J | 0.103 J | 0.05 J | 0.047 J | 0.09 J | 0.12 | 0.12 | 0.13 | 0.16 | 0.14 | 0.16 | 0.16 | -- | 0.15 | 0.119 | 0.0924 J | 0.0756 J | 0.0982 J | 0.101 | 0.0678 J | <0.06 | 0.082 J | 0.125 | 0.101 | 0.11 J | 0.221 | |
| pH_Field | SU | 5.2 | 5.18 | 5.12 | -- | 5.21 | 5.2 | 5.19 | 5.17 | 5.2 | 5.14 | 5.12 | 5.18 | 5.2 | 5.15 | 5.12 | 5.09 | 5.19 | 5.12 | 5.16 | 5 | 5.21 | 5.14 | 5.08 | 5.06 | 5.13 | 5.11 | 5.01 | 5.07 | | |
| Sulfate | mg/L | 1490 | 1420 | 1460 | 1450 | 1460 | 1330 | 1420 | 1350 | 1500 | 1300 | 1400 | 1500 | -- | 2100 | 1500 | -- | 1300 | 1560 | 1540 | 1680 | 1510 | 1530 | 1450 | 1370 | 1400 | 1560 | 1430 | 1600 | 1520 | |
| TDS | mg/L | 2080 | 2060 | 2070 | 2040 | 2110 | 2000 | 2070 | 1930 | 2060 | 2140 | 2240 | 2160 | -- | 2380 | 2400 | 2220 | 2360 | 2340 | 2330 | 3650 | 2380 | 2240 | 2200 | 2230 | 2210 | 2150 | 2100 | 2280 | | |
| Appendix IV | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Antimony | mg/L | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | -- | <0.0006 | <0.0006 | <0.0006 | <0.0008 | <0.0008 | 0.00137 J | <0.0008 | <0.0008 | <0.0008 | <0.0008 | <0.0008 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | | |
| Arsenic | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | -- | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.000403 | 0.000363 | 0.000248 | 0.000282 | 0.00027 | |
| Barium | mg/L | 0.00941 J | 0.00951 J | 0.00991 J | 0.00949 J | 0.0105 | 0.00931 J | 0.00879 J | 0.00929 J | 0.00938 J | 0.00964 J | 0.00982 J | -- | 0.00937 J | 0.0102 | 0.0104 | 0.00952 J | 0.00915 J | 0.00913 J | 0.0109 | 0.0106 | 0.00995 J | 0.00971 J | 0.0101 | 0.0107 | 0.0107 | 0.00984 | 0.0098 | 0.0093 | 0.0102 | |
| Beryllium | mg/L | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | -- | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | | |
| Cadmium | mg/L | 0.00196 | 0.0021 | 0.00206 | 0.00182 | 0.00188 | 0.00175 | 0.00197 | 0.002 | 0.0019 | 0.00159 | 0.00214 | -- | 0.0018 | 0.00201 | 0.00217 | 0.00228 | 0.00156 | 0.00238 | 0.00218 | 0.00225 | 0.00182 | 0.00184 | 0.0019 | 0.00237 | 0.00184 | 0.00185 | 0.00221 | 0.00211 | 0.00154 | |
| Chromium | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | -- | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | 0.000382 J | 0.000389 J | 0.000354 J | 0.000359 J | <0.00203 |
| Cobalt | mg/L | 0.0343 | 0.0413 | 0.0513 | 0.0471 | 0.0525 | 0.0527 | 0.0569 | 0.0768 | 0.0535 | 0.0442 | 0.0465 | -- | 0.062 | 0.0443 | 0.0512 | 0.0751 | 0.0825 | 0.0485 | 0.0778 | 0.08 | 0.0495 | 0.0417 | 0.0532 | 0.0722 | 0.0657 | 0.0556 | 0.0671 | 0.0631 | 0.0587 | |
| Combined Radium 226 + 228 | pCi/L | 0.622 | 0.159 U | 0.511 U | 0.566 U | 0.537 U | 0.636 | 0.807 | 0.308 U | 0.344 U | 0.934 | 0.149 U | -- | 0.774 | -0.091 U | 1.18 | -- | 0.862 | 0.509 | 1.47 | 0.204 U | 0.521 U | 0.309 U | 0.219 U | -0.127 U | 0.677 U | 0.476 U | 1.01 U | 1.49 | 0.36 U | |
| Lead | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | -- | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | | |
| Lithium | mg/L | 0.0264 J | 0.0246 J | 0.0229 J | 0.0236 J | 0.0229 J | 0.0227 J | 0.0236 J | 0.0228 J | 0.0238 J | 0.0242 J | 0.0229 J | -- | 0.0233 J | 0.0263 J | 0.0251 J | 0.025 J | 0.0241 | 0.026 J | 0.0268 | 0.0263 | 0.0292 | 0.0278 | 0.028 | 0.0259 | 0.0301 | 0.0266 | 0.0237 | 0.0237 | 0.0243 | |
| Mercury | mg/L | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | -- | <0.00025 | <0.00025 | < | | | | | | | | | | | | | | |

Appendix A. Historical Analytical Data Summary
Plant Gorgas CCR Landfill

| Analyte | Well | MW-2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------|----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|------------|------------|------------|------------|
| | | Date | 04/25/2016 | 05/05/2016 | 06/20/2016 | 08/08/2016 | 08/24/2016 | 10/03/2016 | 10/26/2016 | 11/21/2016 | 01/17/2017 | 03/22/2017 | 04/18/2017 | 05/31/2017 | 08/23/2017 | 02/13/2018 | 05/22/2018 | 06/12/2018 | 10/17/2018 | 11/19/2018 | 05/14/2019 | 10/08/2019 | 10/16/2019 | 02/03/2020 | 04/06/2020 | 07/13/2020 | 08/03/2020 | 02/22/2021 | 07/12/2021 | 01/25/2022 | 07/05/2022 | 02/20/2023 |
| Appendix III | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Boron | mg/L | 0.0241 J | -- | 0.0284 J | 0.034 J | 0.0316 J | 0.0367 J | 0.0331 J | 0.035 J | 0.0259 J | 0.0243 J | 0.0206 J | 0.0234 J | 0.0267 J | -- | 0.0251 J | 0.0275 J | 0.0321 J | 0.0324 J | <0.0609 | 0.0371 J | 0.0419 J | <0.03 | <0.03 | <0.03 | 0.0317 J | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | |
| Calcium | mg/L | 123 | -- | 168 | 180 | 180 | 184 | 171 | 179 | 188 | 155 | 156 | 151 | 155 | -- | 172 | 179 | 200 | 221 | 168 | 190 | 194 | 172 | 152 | 163 | 172 | 178 | 159 | 193 | 168 | 165 | |
| Chloride | mg/L | 1.9 | -- | 3.43 | 3.31 | 3.23 | 3.21 | 3.35 | 3.34 | 3.58 | 3 | 2.6 | 4.4 J | 4.4 | -- | 3.2 | 3.7 | -- | 3 | 2.98 | 4.26 | 4.04 | 2.48 | 2.43 | 4.05 | 4.03 | 1.72 | 2.36 | 2.28 | 2.62 | 1.7 | |
| Fluoride | mg/L | 0.149 J | -- | 0.148 J | 0.134 J | 0.129 J | 0.086 J | 0.027 J | 0.027 J | 0.066 J | 0.13 | 0.16 | 0.13 | 0.16 | 0.22 | 0.17 | 0.16 | -- | 0.18 | 0.17 | 0.164 | 0.114 | 0.182 | 0.207 | 0.132 | 0.122 | 0.209 | 0.196 | 0.239 | 0.2 | 0.267 | |
| pH_Field | SU | 5.94 | -- | 5.96 | 5.88 | -- | 5.91 | 5.84 | 5.82 | 5.87 | 6.01 | 6.02 | 5.85 | 5.89 | 6.21 | 6.04 | 5.95 | 5.9 | 6.03 | 6.07 | 5.96 | 5.98 | 5.95 | 6.21 | 5.84 | 5.95 | 6.1 | 6.16 | 6.22 | 6.15 | 6.24 | |
| Sulfate | mg/L | 745 | -- | 964 | 1100 | 1130 | 1140 | 1060 | 1100 | 1160 | 900 | 870 | 1100 | 920 | -- | 1200 | 860 | -- | 1000 | 948 | 1230 | 1170 | 803 | 786 | 843 | 907 | 864 | 763 | 847 | 844 | 767 | |
| TDS | mg/L | 1260 | -- | 1620 | 1740 | 1720 | 1800 | 1800 | 1740 | 1960 | 1510 | 1580 | 1730 | 1550 | -- | 1500 | 1550 | 1740 | 1990 | 1480 | 1840 | 1830 | 1440 | 1540 | 1650 | 1620 | 1390 | 1550 | 1250 | 1420 | | |
| Appendix IV | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Antimony | mg/L | <0.0006 | -- | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | -- | <0.0006 | <0.0006 | <0.0006 | <0.0008 | <0.0008 | 0.000989 J | <0.0008 | <0.0008 | <0.0008 | <0.0008 | <0.0008 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | | |
| Arsenic | mg/L | <0.001 | -- | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.00111 J | <0.001 | <0.001 | <0.001 | <0.001 | -- | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.000295 | 0.000364 | 0.000334 | 0.000278 | 0.000231 | |
| Barium | mg/L | 0.0134 | -- | 0.0165 | 0.0162 | 0.0139 | 0.0164 | 0.0138 | 0.0144 | 0.0135 | 0.0132 | 0.012 | 0.0126 | -- | 0.0127 | 0.0131 | 0.0138 | 0.0137 | 0.0115 | 0.0109 | 0.0151 | 0.0146 | 0.0122 | 0.0125 | 0.0145 | 0.0147 | 0.0132 | 0.013 | 0.0134 | 0.013 | 0.0122 | |
| Beryllium | mg/L | <0.0006 | -- | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | -- | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | | |
| Cadmium | mg/L | <0.0002 | -- | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 0.000311 J | <0.0002 | <0.0002 | 0.000212 J | -- | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | 8.96e-05 J | 8.27e-05 J | 9.31e-05 J | <6.8e-005 | 8.1e-005 |
| Chromium | mg/L | <0.002 | -- | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | -- | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.00203 | 0.000251 J | <0.000203 | <0.000203 | 0.00033 J | |
| Cobalt | mg/L | 0.0487 | -- | 0.0767 | 0.103 | 0.093 | 0.0964 | 0.0904 | 0.0857 | 0.0745 | 0.0328 | 0.0242 | 0.0441 | -- | 0.0179 | 0.028 | 0.0366 | 0.0745 | 0.0225 | 0.0222 | 0.0674 | 0.073 | 0.0193 | 0.0116 | 0.0405 | 0.0589 | 0.0161 | 0.0155 | 0.0167 | 0.0192 | 0.0163 | |
| Combined Radium 226 + 228 | pCi/L | -- | -0.0718 U | 0.295 U | 0.231 U | 0.65 | 0.845 | 0.994 | 0.537 U | -0.0159 U | 0.279 U | 0.32 U | 0.178 U | -- | 0.804 | 0.0077 U | -0.315 U | -- | 0.654 | 0.579 | 0.493 U | 0.046 U | -0.0245 U | 0.212 U | 0.0814 U | 0.888 U | 0.434 U | 0.155 U | 0.663 U | 1.31 | 0.837 U | |
| Lead | mg/L | <0.001 | -- | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | -- | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.000135 J | | | | |
| Lithium | mg/L | 0.0353 J | -- | 0.0583 | 0.0627 | 0.0651 | 0.0622 | 0.0293 J | 0.0667 | 0.0636 | 0.0464 J | 0.0446 J | 0.0496 J | -- | 0.0615 | 0.0465 J | 0.0472 J | 0.0633 | 0.0584 | 0.0445 | 0.0677 | 0.0661 | 0.0534 | 0.0496 | 0.0615 | 0.0611 | 0.0625 | 0.0495 | 0.0502 | 0.0411 | 0.0418 | |
| Mercury | mg/L | <0.00025 | -- | <0.00025 | <0.00025 | < | | | | | | | | | | | | | | | | | | | | | | | | | | |



**Appendix A. Historical Analytical Data Summary
Plant Gorgas CCR Landfill**

| Analyte | Well | MW-3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|
| | | Date | 04/25/2016 | 06/22/2016 | 08/09/2016 | 08/24/2016 | 10/04/2016 | 10/26/2016 | 11/21/2016 | 01/18/2017 | 03/22/2017 | 04/18/2017 | 05/31/2017 | 08/23/2017 | 02/13/2018 | 05/24/2018 | 06/12/2018 | 11/19/2018 | 04/10/2019 | 05/14/2019 | 10/08/2019 | 10/16/2019 | 02/03/2020 | 04/06/2020 | 07/13/2020 | 08/03/2020 | 02/22/2021 | 07/12/2021 | 01/25/2022 | 07/05/2022 | 02/20/2023 |
| Appendix III | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Boron | mg/L | 0.028 J | 0.0433 J | 0.0429 J | 0.0431 J | 0.04 J | 0.0375 J | 0.0406 J | 0.0548 J | 0.0344 J | <0.02 | 0.0454 J | 0.0425 J | -- | 0.0339 J | 0.0371 J | 0.0514 J | <0.03 | <0.0609 | 0.0537 J | 0.05 J | -- | <0.03 | 0.0366 J | 0.0424 J | <0.03 | <0.03 | 0.035 J | <0.03 | | |
| Calcium | mg/L | 224 | 266 | 260 | 274 | 243 | 254 | 263 | 431 | 318 | 296 | 306 | 298 | -- | 297 | 318 | 387 | 348 | 254 | 371 | 346 | -- | 177 | 264 | 285 | 312 | 252 | 285 | 376 | 210 | |
| Chloride | mg/L | 1.32 | 1.46 | 1.35 | 1.47 | 1.59 | 1.27 | 1.38 | 1.34 | 2 | 2.2 | 1.5 J | 1.8 J | -- | 1.6 J | 1.4 J | <1.4 | 2.25 | 2.28 | 1.36 | 1.4 | -- | 1.72 | 1.34 | 1.17 | 2.22 | 2.13 | 2.12 | 1.59 | 1.94 | |
| Fluoride | mg/L | 0.243 J | 0.269 J | 0.363 | 0.346 | 0.266 J | 0.266 J | 0.244 J | 0.385 | 0.41 | 0.29 | 0.37 | 0.55 | 0.27 | 0.6 | 0.53 | 0.31 | 0.273 | 0.281 | 0.225 | 0.106 | -- | 0.314 | 0.13 | 0.0766 J | 0.246 | 0.287 | 0.325 | 0.386 | 0.379 | |
| pH_Field | SU | 5.56 | 5.57 | 5.67 | 5.63 | 5.69 | 5.56 | 5.42 | 5.11 | 4.52 | 5.84 | 4.56 | 4.77 | 5.67 | 5.19 | 4.79 | 3.77 | 5.54 | 5.71 | 4.98 | 4.51 | -- | 5.91 | 5.16 | 5.06 | 5.59 | 5.86 | 5.9 | 5.34 | 6.01 | |
| Sulfate | mg/L | 1890 | 2100 | 2050 | 2190 | 1950 | 1980 | 2060 | 2620 | 3200 | 2500 | 2800 | 2600 | -- | 2700 | 2500 | 3000 | 2460 | 2460 | 2950 | 2820 | -- | 1670 | 2130 | 2330 | 3040 | 2380 | 2550 | 3110 | 2110 | |
| TDS | mg/L | 2720 | 3250 | 3050 | 3080 | 2900 | 2940 | 3090 | 4020 | 4180 | 3970 | 4050 | -- | 3680 | 3820 | 4710 | 3680 | 3580 | 4720 | 4210 | -- | 2630 | 3650 | 3760 | 4670 | 3510 | 3950 | 4220 | 3230 | | |
| Appendix IV | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Antimony | mg/L | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | -- | <0.0006 | <0.0006 | <0.0006 | <0.0008 | 0.000978 J | <0.0008 | <0.0008 | <0.0008 | -- | <0.0008 | <0.0008 | <0.0008 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | |
| Arsenic | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | -- | <0.001 | <0.001 | 0.00103 J | 0.0012 J | <0.001 | <0.001 | 0.0048 J | 0.00389 J | -- | <0.001 | 0.0032 J | 0.00426 J | 0.000789 | 0.000376 | 0.000275 | 0.00426 | 0.00224 |
| Barium | mg/L | 0.00803 J | 0.0101 | 0.00889 J | 0.00962 J | 0.00984 J | 0.00878 J | 0.00833 J | 0.00966 J | 0.00991 J | 0.00976 J | 0.00866 J | -- | 0.00821 J | 0.00977 J | 0.0109 | 0.0101 | 0.00922 J | 0.0154 | 0.0128 | -- | 0.00931 J | 0.0142 | 0.0166 | 0.00981 | 0.00857 | 0.00821 | 0.0151 | 0.00822 | | |
| Beryllium | mg/L | 0.00122 J | 0.00144 J | 0.00331 | 0.00308 | 0.00129 J | 0.0071 | 0.00689 | 0.0169 | 0.00686 | <0.0006 | 0.00547 | -- | <0.0006 | 0.00164 J | 0.00306 | 0.0185 | <0.0006 | <0.0006 | 0.0084 | 0.0103 | -- | <0.0006 | 0.0021 J | 0.00405 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | | |
| Cadmium | mg/L | 0.0121 | 0.00163 | 0.00122 | <0.0002 | 0.000689 J | 0.00136 | 0.00171 | 0.003 | 0.00473 | 0.00117 | 0.00296 | -- | 0.00232 | 0.00459 | 0.00351 | 0.00309 | 0.00337 | 0.0013 | 0.00598 | 0.00448 | -- | 0.000645 J | 0.0089 | 0.00652 | 0.00536 | 0.000937 | 0.00178 | 0.00848 | 0.00144 | |
| Chromium | mg/L | 0.00373 J | 0.00606 J | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | 0.00945 J | 0.0105 | <0.002 | -- | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | -- | <0.002 | <0.002 | <0.002 | 0.00035 J | 0.000307 J | 0.000509 J | 0.000235 J | 0.000297 J | | |
| Cobalt | mg/L | 0.232 | 0.332 | 0.311 | 0.271 | 0.148 | 0.236 | 0.241 | 0.347 | 0.271 | 0.0324 J | 0.225 | -- | 0.00661 J | 0.158 | 0.291 | 0.386 | 0.0144 | 0.00536 | 1.07 | 0.848 | -- | <0.002 | 0.47 | 0.64 | 0.0515 | 0.00567 | 0.00535 | 0.263 | 0.00375 | |
| Combined Radium 226 + 228 | pCi/L | 0.484 U | 0.2 U | 0.378 U | 0.131 U | 0.514 U | 0.755 | 0.7 | 0.606 | 0.927 | 0.334 U | 0.8 | -- | 0.649 | 0.448 U | 0.234 U | 0.521 | -- | 0.176 U | 0.833 U | 0.0279 U | 0.0246 U | 0.569 U | 0.53 | 0.765 U | 0.472 U | 0.114 U | 0.418 U | 1.33 | 0.234 U | |
| Lead | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | -- | <0.001 | <0.001 | 0.00692 | <0.001 | <0.001 | <0.001 | 0.00108 J | -- | <0.001 | <0.001 | 0.002 J | 8.8e-005 J | 8.42e-005 J | <6.8e-005 | 0.000185 J | <6.8e-005 | | |
| Lithium | mg/L | 0.0964 | 0.156 | 0.122 | 0.138 | 0.0966 | 0.134 | 0.167 | 0.237 | 0.203 | 0.0764 | 0.218 | -- | 0.0964 | 0.145 | 0.194 | 0.323 | 0.0905 | 0.0828 | 0.419 | 0.337 | -- | 0.0689 | 0.256 | 0.27 | 0.126 | 0.0808 | 0.077 | 0.217 | 0.065 | |
| Mercury | mg/L | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | -- | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.0003 | <0.0003 | <0.0003 | -- | <0.0003 | <0.0003 | <0.0003 | <0.0003 | < | | | | |



**Appendix A. Historical Analytical Data Summary
Plant Gorgas CCR Landfill**

| Analyte | Well | MW-4 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------|----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|------------|
| | | Date | 04/25/2016 | 06/20/2016 | 08/09/2016 | 08/24/2016 | 10/03/2016 | 10/26/2016 | 11/21/2016 | 01/18/2017 | 03/22/2017 | 04/18/2017 | 05/31/2017 | 08/23/2017 | 02/13/2018 | 05/23/2018 | 06/12/2018 | 11/19/2018 | 04/10/2019 | 05/14/2019 | 10/10/2019 | 10/16/2019 | 02/03/2020 | 04/06/2020 | 07/14/2020 | 02/22/2021 | 07/12/2021 | 01/25/2022 | 07/05/2022 |
| Appendix III | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Boron | mg/L | 0.0414 J | 0.0434 J | 0.0453 J | 0.0451 J | 0.0511 J | 0.0507 J | 0.0458 J | 0.0445 J | 0.0432 J | 0.0409 J | 0.0392 J | 0.042 J | -- | 0.0433 J | 0.0478 J | 0.0526 J | 0.0438 J | <0.0609 | 0.0487 J | 0.0505 J | -- | 0.0428 J | 0.0441 J | 0.0397 J | 0.0411 J | 0.0408 J | 0.0417 J | 0.0416 J |
| Calcium | mg/L | 261 | 295 | 318 | 319 | 293 | 311 | 320 | 417 | 292 | 302 | 284 | 297 | -- | 296 | 355 | 289 | 356 | 254 | 302 | 356 | -- | 222 | 259 | 271 | 242 | 259 | 271 | 239 |
| Chloride | mg/L | 1.53 | 1.85 | 1.95 | 2.07 | 2.02 | 2.07 | 2.39 | 1.9 | 1.5 J | 1.6 J | 2.1 | 2.3 | -- | 2 | 1.7 J | <1.4 | 1.88 | 1.82 | 1.93 | 1.92 | -- | 1.5 | 1.61 | 1.52 | 1.56 | 1.54 | 1.63 | 1.58 |
| Fluoride | mg/L | 0.372 | 0.361 | 0.326 | 0.329 | 0.287 J | 0.194 J | 0.192 J | 0.223 J | 0.32 | 0.32 | 0.31 | 0.38 | 0.38 | 0.39 | 0.36 | 0.384 | 0.335 | 0.304 | 0.302 | -- | 0.368 | 0.33 | 0.357 | 0.35 | 0.364 | 0.362 | 0.415 | |
| pH_Field | SU | 6.22 | 6.21 | 6.11 | 6.11 | 6.13 | 6.12 | 6.09 | 6.09 | 6.15 | 6.19 | 6.13 | 6.12 | 6.22 | 6.21 | 6.16 | 6.16 | 6.14 | 6.23 | 6.15 | 6.19 | -- | 6.35 | 6.2 | 6.19 | 6.06 | 6.3 | 6.12 | 6.35 |
| Sulfate | mg/L | 2260 | 2500 | 2750 | 2770 | 3060 | 2650 | 2720 | 2650 | 2700 | 2400 | 2700 | -- | 2400 | 2600 | 2400 | 2090 | 2240 | 2690 | 3050 | -- | 1810 | 1970 | 2040 | 1930 | 2380 | 1930 | 2380 | |
| TDS | mg/L | 3300 | 3870 | 4140 | 4190 | 4190 | 4400 | 4230 | 4120 | 3980 | 3880 | 4210 | 3990 | -- | 3740 | 4080 | 3920 | 3280 | 3130 | 4000 | 4060 | -- | 2820 | 3310 | 3190 | 3000 | 3180 | 3240 | 3160 |
| Appendix IV | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Antimony | mg/L | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | -- | <0.0006 | <0.0006 | <0.0008 | 0.00097 J | <0.0008 | <0.0008 | <0.0008 | -- | <0.0008 | <0.0008 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | <0.000508 |
| Arsenic | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | -- | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | -- | <0.001 | <0.001 | 0.000125 J | 0.000116 J | 6.97e-005 J | 9.56e-005 J | <8.1e-005 |
| Barium | mg/L | 0.0114 | 0.0103 | 0.0119 | 0.0118 | 0.0119 | 0.0104 | 0.0106 | 0.0101 | 0.0103 | 0.0107 | 0.0104 | -- | 0.0111 | 0.0107 | 0.0108 | 0.0107 | 0.0107 | 0.00949 J | 0.0116 | 0.0125 | -- | 0.0115 | 0.0122 | 0.0111 | 0.0108 | 0.00908 | 0.0115 | 0.0116 |
| Beryllium | mg/L | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | -- | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | -- | <0.0006 | <0.0006 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.000406 |
| Cadmium | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | -- | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | -- | <0.0003 | <0.0003 | 8.96e-005 J | 8.19e-005 J | <6.8e-005 | 6.94e-005 J | <6.8e-005 |
| Chromium | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | -- | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | -- | <0.002 | <0.002 | <0.000203 | 0.000302 J | 0.000216 J | <0.000203 | <0.000203 |
| Cobalt | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | -- | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | -- | <0.002 | <0.002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 |
| Combined Radium 226 + 228 | pCi/L | 0.434 U | 0.287 U | 0.516 U | 0.266 U | 0.59 U | 0.164 U | 0.296 U | 0.0267 U | 0.132 U | -0.0439 U | 0.3 U | -- | 0.69 | 0.186 U | 0.153 U | 0.794 | -- | 0.352 U | 1.02 U | 0.356 U | 0.254 U | 0.459 U | 0.169 U | 0 U | 0.301 U | 0.884 U | 1.1 | 0.3 U |
| Lead | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | -- | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | -- | <0.001 | <0.001 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 |
| Lithium | mg/L | 0.0528 | 0.0554 | 0.0452 J | 0.0488 J | 0.0476 J | 0.049 J | 0.0477 J | 0.045 J | 0.0493 J | 0.0494 J | 0.0501 | -- | 0.0446 J | 0.0513 | 0.0511 | 0.0467 | 0.0504 | 0.0485 | 0.054 | 0.052 | -- | 0.0519 | 0.0543 | 0.0558 | 0.0533 | 0.0434 | 0.0484 | 0.0431 |
| Mercury | mg/L | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | -- | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.0003 | <0.0003 | <0.0003 | -- | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| Molybdenum | mg/L | <0.002 | <0.002 | < | | | | | | | | | | | | | | | | | | | | | | | | | |



**Appendix A. Historical Analytical Data Summary
Plant Gorgas CCR Landfill**

| Analyte | Well | MW-5 | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|------------|------------|
| | | Date | 04/25/2016 | 06/21/2016 | 10/12/2017 | 10/13/2017 | 10/14/2017 | 10/15/2017 | 10/16/2017 | 10/17/2017 | 11/16/2017 | 02/14/2018 | 05/23/2018 | 11/20/2018 | 05/14/2019 | 10/10/2019 | 04/07/2020 | 07/14/2020 | 02/23/2021 | 07/21/2021 | 01/31/2022 | 07/06/2022 |
| Appendix III | | | | | | | | | | | | | | | | | | | | | | |
| Boron | mg/L | 0.0301 J | 0.0304 J | 0.0285 J | 0.0287 J | 0.0305 J | 0.0319 J | 0.0304 J | 0.036 J | 0.0377 J | -- | 0.0301 J | 0.0357 J | <0.0609 | 0.0323 J | 0.0399 J | 0.033 J | 0.0369 J | 0.0319 J | 0.0305 J | 0.0315 J | 0.0315 J |
| Calcium | mg/L | 399 | 295 | 394 | 389 | 391 | 332 | 380 | 377 | 368 | -- | 405 | 414 | 441 | 386 | 432 | 395 | 394 | 384 | 398 | 379 | 367 |
| Chloride | mg/L | 5.44 | 6.32 | 7.9 | 8 | 7.4 | 7.2 | 8.1 | 7.9 | 8.1 | -- | 7 | 7.4 | 6.24 | 7.88 | 4.83 | 6.84 | 6.19 | 6.73 | 6.87 | 7.51 | 5.25 |
| Fluoride | mg/L | 0.307 | 0.337 | 0.35 | 0.36 | 0.37 | 0.37 | 0.36 | 0.35 | 0.37 | 0.33 | 0.29 | 0.32 | 0.22 | 0.338 | 0.225 | 0.263 | 0.287 | 0.331 | 0.291 | 0.306 | 0.319 |
| pH_Field | SU | -- | -- | -- | -- | -- | -- | -- | -- | 6.39 | -- | -- | 6.34 | 6.43 | 6.43 | 6.48 | 6.47 | 6.4 | 6.52 | 6.51 | 6.5 | |
| Sulfate | mg/L | 2390 | 2500 | 2300 | 2300 | 2300 | 2300 | 2200 | 2200 | -- | 2400 | 2500 | 2380 | 2460 | 2050 | 2080 | 2210 | 2240 | 2310 | 2320 | 2210 | |
| TDS | mg/L | 3660 | 3920 | 4000 | 3960 | 3910 | 3890 | 3980 | 3940 | 3930 | -- | 3660 | 3780 | 3520 | 3830 | 3270 | 3710 | 3740 | 3570 | 3560 | 3390 | 3310 |
| Appendix IV | | | | | | | | | | | | | | | | | | | | | | |
| Antimony | mg/L | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | -- | <0.0006 | <0.0006 | <0.0008 | <0.0008 | <0.0008 | <0.0008 | <0.0008 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | |
| Arsenic | mg/L | 0.00138 J | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | -- | <0.001 | <0.001 | <0.001 | 0.00153 J | <0.001 | 0.00163 J | <0.001 | 0.000309 | 0.000461 | 0.000193 J | 0.000171 J | 0.000306 |
| Barium | mg/L | 0.016 | 0.0112 | 0.0122 | 0.0115 | 0.0099 J | 0.0103 | 0.0101 | 0.00968 J | -- | 0.0114 | 0.0138 | 0.0105 | 0.0111 | 0.0105 | 0.0137 | 0.0124 | 0.0116 | 0.0116 | 0.0104 | 0.012 | 0.0107 |
| Beryllium | mg/L | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | -- | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | |
| Cadmium | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | -- | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | |
| Chromium | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | -- | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.000203 | <0.000203 | <0.000203 | <0.000203 | |
| Cobalt | mg/L | 0.00287 J | 0.00228 J | <0.002 | <0.002 | 0.00203 J | <0.002 | <0.002 | <0.002 | -- | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | 0.00102 | 0.00127 | 0.0011 | 0.000538 | 0.000976 |
| Combined Radium 226 + 228 | pCi/L | 0.611 | 0.304 U | 0.627 U | 0.391 U | 1.2 U | 0.806 U | 0.564 U | 0.178 U | -- | 0.955 | 0.543 | 0.687 | 0.663 | 0.811 U | 0.48 U | 0.521 | 0.71 U | 0.79 U | 0.0523 U | 0.747 U | 0.275 U |
| Lead | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | -- | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | |
| Lithium | mg/L | 0.0977 | 0.0972 | 0.093 | 0.0935 | 0.0931 | 0.0968 | 0.0963 | 0.0949 | -- | 0.0989 | 0.103 | 0.102 | 0.116 | 0.0981 | 0.133 | 0.11 | 0.133 | 0.113 | 0.0893 | 0.0907 | 0.104 |
| Mercury | mg/L | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | -- | <0.00025 | <0.00025 | <0.00025 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | |
| Molybdenum | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | -- | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | 0.0014 | 0.00126 | 0.00127 | 0.00115 | 0.000945 |
| Selenium | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | 0.00254 J | <0.002 | 0.00288 J | -- | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | 0.00233 | 0.00178 | 0.00237 | 0.00239 | 0.00172 |
| Thallium | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 0.000375 J | <0.0002 | -- | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <6.8e-005 | <6.8e-005 | 8.95e-005 J | <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).



**Appendix A. Historical Analytical Data Summary
Plant Gorgas CCR Landfill**

| Analyte | Well | MW-6 | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------|----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|------------|
| | | Date | 04/27/2016 | 06/21/2016 | 10/12/2017 | 10/13/2017 | 10/14/2017 | 10/15/2017 | 10/16/2017 | 10/17/2017 | 11/16/2017 | 02/14/2018 | 05/23/2018 | 11/20/2018 | 05/15/2019 | 10/10/2019 | 04/08/2020 | 07/14/2020 | 02/23/2021 | 07/20/2021 | 01/31/2022 | 07/06/2022 |
| Appendix III | | | | | | | | | | | | | | | | | | | | | | |
| Boron | mg/L | 0.075 J | 0.0729 J | 0.0806 J | 0.0803 J | 0.0828 J | 0.0852 J | 0.0858 J | 0.0846 J | 0.0772 J | -- | 0.0757 J | 0.0915 J | 0.0616 J | 0.0919 J | 0.0499 J | 0.0838 J | 0.0866 J | 0.0608 J | 0.0623 J | 0.0638 J | 0.0356 J |
| Calcium | mg/L | 411 | 318 | 421 | 396 | 400 | 378 | 402 | 373 | 367 | -- | 425 | 449 | 345 | 461 | 242 | 406 | 428 | 351 | 385 | 403 | 250 |
| Chloride | mg/L | 2.19 | 2.56 | 3.4 | 3 | 2.8 | 1.9 J | 1.8 J | 3.1 | 3.5 | -- | 2.6 | 2.7 | 4.45 | 3.61 | 4.63 | 3.25 | 3.47 | 4.05 | 4.7 | 3.36 | 4.37 |
| Fluoride | mg/L | 0.131 J | 0.153 J | 0.15 | 0.15 | 0.14 | 0.14 | 0.14 | 0.14 | 0.13 | 0.13 | 0.14 | 0.133 | 0.124 | <0.06 | 0.115 | 0.139 | 0.131 | 0.121 | 0.147 | 0.173 | |
| pH_Field | SU | -- | -- | -- | -- | -- | -- | -- | -- | 6.17 | -- | -- | 5.72 | 6.16 | 4.98 | 6.12 | 6.13 | 5.99 | 6.1 | 6.14 | 4.98 | |
| Sulfate | mg/L | 2090 | 2000 | 2000 | 2000 | 1900 | 1900 | 1900 | 1800 | -- | 2000 | 2200 | 2110 | 2330 | 1900 | 1970 | 2010 | 1930 | 2070 | 2100 | 1870 | |
| TDS | mg/L | 3290 | 3250 | 3220 | 3250 | 3260 | 3360 | 3420 | 3280 | -- | 3340 | 3330 | 3130 | 3260 | 2940 | 3270 | 3230 | 2980 | 3070 | 3110 | 2790 | |
| Appendix IV | | | | | | | | | | | | | | | | | | | | | | |
| Antimony | mg/L | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | -- | <0.0006 | <0.0006 | <0.0008 | <0.0008 | <0.0008 | <0.0008 | <0.0008 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | |
| Arsenic | mg/L | 0.005 | 0.00473 J | 0.0051 | 0.00487 J | 0.00476 J | 0.00475 J | 0.00482 J | 0.0048 J | -- | 0.00493 J | 0.0058 | 0.00542 | 0.00383 J | 0.00473 J | 0.00232 J | 0.0048 J | 0.00494 | 0.00475 | 0.00375 | 0.00481 | 0.00337 |
| Barium | mg/L | 0.012 | 0.0133 | 0.0134 | 0.0124 | 0.0129 | 0.0136 | 0.0131 | 0.0126 | -- | 0.0142 | 0.0145 | 0.0127 | 0.0121 | 0.0152 | 0.0128 | 0.0154 | 0.0143 | 0.0137 | 0.0125 | 0.0149 | 0.0136 |
| Beryllium | mg/L | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | -- | <0.0006 | <0.0006 | <0.0006 | 0.000677 J | <0.0006 | 0.000788 J | <0.0006 | <0.000406 | 0.000453 J | 0.000567 J | <0.000406 | 0.00123 |
| Cadmium | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | -- | <0.0003 | <0.0003 | <0.0003 | 0.000858 J | <0.0003 | 0.00204 | <0.0003 | <6.8e-005 | 0.000626 | 0.00078 | <6.8e-005 | 0.00192 |
| Chromium | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | -- | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.000203 | <0.000203 | 0.000436 J | 0.000245 J | 0.000301 J |
| Cobalt | mg/L | 0.0287 | 0.0269 | 0.0279 | 0.0271 | 0.0296 | 0.0303 | 0.0274 | 0.0274 | -- | 0.0305 | 0.0409 | 0.0327 | 0.265 | 0.0425 | 0.479 | 0.0916 | 0.0771 | 0.216 | 0.184 | 0.0674 | 0.487 |
| Combined Radium 226 + 228 | pCi/L | 0.956 | 0.748 | 0.564 U | 1.36 U | 1.59 U | 1.22 U | 1.57 U | 0.631 U | -- | 0.969 | 0.918 | 1.15 | 1.56 | 1.71 | 0.179 U | 0.578 | 1.15 U | 1.32 | 0.374 U | 1.56 | 3.75 |
| Lead | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | -- | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <6.8e-005 | <6.8e-005 | <6.8e-005 | 0.000232 | 0.000115 J |
| Lithium | mg/L | 0.253 | 0.253 | 0.249 | 0.249 | 0.244 | 0.259 | 0.259 | 0.249 | -- | 0.242 | 0.266 | 0.245 | 0.152 | 0.251 | 0.0489 | 0.223 | 0.253 | 0.18 | 0.139 | 0.196 | 0.0329 |
| Mercury | mg/L | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | -- | <0.00025 | <0.00025 | <0.00025 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | |
| Molybdenum | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | -- | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | 0.000285 | 8.27e-005 J | 0.000151 J | 0.000288 | <0.000102 |
| Selenium | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | -- | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | 0.00162 |
| Thallium | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | -- | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <6.8e-005 | <6.8e-005 | 9.93e-005 J | 8.43e-005 J | 0.000138 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).



**Appendix A. Historical Analytical Data Summary
Plant Gorgas CCR Landfill**

| Analyte | Well | MW-7 | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | Date | 04/27/2016 | 06/21/2016 | 10/12/2017 | 10/13/2017 | 10/14/2017 | 10/15/2017 | 10/16/2017 | 10/17/2017 | 11/16/2017 | 02/14/2018 | 05/23/2018 | 11/20/2018 | 05/15/2019 | 10/08/2019 | 04/08/2020 | 07/14/2020 | 02/23/2021 | 07/20/2021 | 01/31/2022 | 07/06/2022 |
| Appendix III | | | | | | | | | | | | | | | | | | | | | | |
| Boron | mg/L | 0.253 | 0.0768 J | 0.0685 J | 0.0674 J | 0.0756 J | 0.0719 J | 0.0726 J | 0.0716 J | 0.0644 J | -- | 0.0715 J | 0.0772 J | 0.0678 J | 0.073 J | 0.077 J | 0.0865 J | 0.0803 J | 0.0721 J | 0.0697 J | 0.0705 J | 0.0645 J |
| Calcium | mg/L | 198 | 327 | 317 | 302 | 283 | 294 | 284 | 294 | 299 | -- | 321 | 306 | 302 | 294 | 280 | 261 | 292 | 254 | 270 | 295 | 299 |
| Chloride | mg/L | 1.71 | 2.04 | 31 | 32 | 33 | 34 | 34 | 34 | 35 | -- | 28 | 20 | 15.9 | 16.8 | 10.6 | 9.68 | 7.85 | 6.35 | 6.4 | 6.25 | 6.12 |
| Fluoride | mg/L | 0.2 J | 0.163 J | 0.17 | 0.19 | 0.2 | 0.2 | 0.2 | 0.19 | 0.18 | 0.18 | 0.18 | 0.19 | 0.169 | 0.183 | 0.153 | 0.193 | 0.2 | 0.286 | 0.173 | 0.198 | 0.216 |
| pH_Field | SU | -- | -- | -- | -- | -- | -- | -- | -- | 6.67 | -- | -- | 6.61 | 6.52 | 6.64 | 6.52 | 6.7 | 6.58 | 6.48 | 6.46 | 6.72 | |
| Sulfate | mg/L | 1050 | 1410 | 1400 | 1400 | 1300 | 1300 | 1300 | 1300 | -- | 1900 | 1100 | 1510 | 1570 | 1270 | 1330 | 1320 | 1170 | 1370 | 1330 | 1450 | |
| TDS | mg/L | 1640 | 2460 | 2460 | 2420 | 2320 | 1150 | 2320 | 2360 | 2460 | -- | 2390 | 2090 | 2310 | 2340 | 2230 | 2210 | 2320 | 2110 | 2140 | 2110 | 2220 |
| Appendix IV | | | | | | | | | | | | | | | | | | | | | | |
| Antimony | mg/L | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | -- | <0.0006 | <0.0006 | <0.0008 | <0.0008 | <0.0008 | <0.0008 | <0.0008 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | |
| Arsenic | mg/L | <0.001 | 0.00165 J | 0.00188 J | 0.00181 J | 0.00127 J | 0.00144 J | 0.00139 J | 0.00138 J | -- | 0.00131 J | 0.00155 J | 0.00133 J | 0.00138 J | 0.00145 J | 0.00136 J | 0.00147 J | 0.00141 | 0.00164 | 0.00156 | 0.00158 | 0.00153 |
| Barium | mg/L | 0.0107 | 0.0129 | 0.014 | 0.0147 | 0.0123 | 0.0132 | 0.0122 | 0.0121 | -- | 0.0119 | 0.0135 | 0.0116 | 0.0114 | 0.0145 | 0.0127 | 0.0148 | 0.014 | 0.0142 | 0.0126 | 0.0142 | 0.0141 |
| Beryllium | mg/L | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | -- | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | |
| Cadmium | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | -- | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | |
| Chromium | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | -- | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.000203 | <0.000203 | 0.000321 J | 0.000273 J | <0.000203 |
| Cobalt | mg/L | <0.002 | <0.002 | 0.00269 J | 0.00341 J | 0.00451 J | 0.00371 J | 0.00371 J | 0.0035 J | -- | <0.002 | <0.002 | 0.00306 J | 0.00234 J | 0.00408 J | 0.00394 J | 0.00653 | 0.00294 | 0.00561 | 0.00546 | 0.00571 | 0.0043 |
| Combined Radium 226 + 228 | pCi/L | 0.374 U | 0.151 U | 0.182 U | 0.517 U | 0.43 U | 0.45 U | 0.55 U | 0.474 U | -- | 0.736 | 0.0192 U | 0.494 | 0.61 | 0.345 U | 0.237 U | 0.434 | 0.696 U | 0.356 U | 0.473 U | 0.716 U | 0.789 U |
| Lead | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | -- | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | |
| Lithium | mg/L | 0.163 | 0.171 | 0.134 | 0.127 | 0.112 | 0.129 | 0.122 | 0.122 | -- | 0.131 | 0.129 | 0.12 | 0.127 | 0.131 | 0.117 | 0.103 | 0.131 | 0.096 | 0.0907 | 0.0806 | 0.0932 |
| Mercury | mg/L | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | -- | <0.00025 | <0.00025 | <0.00025 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | |
| Molybdenum | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | -- | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | 0.00107 | 0.00086 | 0.000929 | 0.000979 | 0.000885 |
| Selenium | mg/L | 0.00445 J | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | -- | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.000507 | <0.000508 | <0.000508 | 0.00072 J | <0.000508 |
| Thallium | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | -- | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | |

Notes:

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



**Appendix A. Historical Analytical Data Summary
Plant Gorgas CCR Landfill**

| Analyte | Well | MW-8 | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|------------|------------|------------|--|
| | | Date | 04/27/2016 | 06/21/2016 | 10/12/2017 | 10/13/2017 | 10/14/2017 | 10/15/2017 | 10/16/2017 | 10/17/2017 | 11/16/2017 | 02/14/2018 | 05/23/2018 | 11/20/2018 | 05/15/2019 | 10/09/2019 | 04/08/2020 | 07/15/2020 | 02/23/2021 | 07/20/2021 | 02/01/2022 | 07/06/2022 | 02/21/2023 | |
| Appendix III | | | | | | | | | | | | | | | | | | | | | | | | |
| Boron | mg/L | 0.0662 J | 0.0681 J | 0.0687 J | 0.0831 J | 0.0702 J | 0.0702 J | 0.0707 J | 0.0695 J | 0.0675 J | -- | 0.0693 J | 0.0771 J | 0.0689 J | 0.0723 J | 0.0683 J | 0.0723 J | 0.0731 J | 0.0656 J | 0.0639 J | 0.0643 J | 0.0609 J | | |
| Calcium | mg/L | 282 | 291 | 300 | 298 | 299 | 307 | 299 | 294 | 308 | -- | 344 | 327 | 305 | 329 | 281 | 280 | 306 | 281 | 291 | 299 | 317 | | |
| Chloride | mg/L | 2.34 | 2.29 | 150 | 130 | 140 | 130 | 140 | 140 | 130 | -- | 75 | 45 | 52 | 39.2 | 24.9 | 23.8 | 17.9 | 14.3 | 8.56 | 6.5 | 4.86 | | |
| Fluoride | mg/L | 0.212 J | 0.211 J | 0.22 | 0.23 | 0.22 | 0.22 | 0.21 | 0.22 | 0.21 | 0.21 | 0.192 | 0.189 | 0.192 | 0.196 | 0.208 | 0.262 | 0.177 | 0.173 | 0.212 | | | | |
| pH_Field | SU | -- | -- | -- | -- | -- | -- | -- | -- | 6.55 | -- | -- | 6.6 | 6.67 | 6.7 | 6.71 | 6.73 | 6.64 | 6.77 | 6.72 | 6.75 | | | |
| Sulfate | mg/L | 1550 | 1470 | 1400 | 1600 | 1400 | 1400 | 1400 | 1400 | -- | 2100 | 1400 | 1640 | 1550 | 1380 | 1410 | 1420 | 1500 | 1500 | 1460 | 1510 | | | |
| TDS | mg/L | 2480 | 2360 | 2530 | 2740 | 2630 | 2530 | 2740 | 2650 | 2650 | -- | 2750 | 2520 | 2540 | 2590 | 2450 | 2460 | 2550 | 2420 | 2420 | 2320 | 2370 | | |
| Appendix IV | | | | | | | | | | | | | | | | | | | | | | | | |
| Antimony | mg/L | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | -- | <0.0006 | <0.0006 | <0.0008 | <0.0008 | <0.0008 | <0.0008 | <0.0008 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | | |
| Arsenic | mg/L | <0.001 | 0.00101 J | 0.00197 J | 0.00159 J | 0.00126 J | 0.00106 J | 0.00106 J | 0.00103 J | -- | 0.00185 J | 0.00157 J | 0.00173 J | 0.00136 J | 0.00142 J | 0.00102 J | 0.00212 J | 0.00117 | 0.00111 | 0.00131 | 0.000356 | 0.000567 | | |
| Barium | mg/L | 0.0108 | 0.0116 | 0.0141 | 0.0148 | 0.0134 | 0.0139 | 0.0129 | 0.0126 | -- | 0.0126 | 0.0137 | 0.0123 | 0.0122 | 0.0137 | 0.0137 | 0.0143 | 0.014 | 0.0141 | 0.0142 | 0.0132 | 0.0148 | | |
| Beryllium | mg/L | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | -- | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | | |
| Cadmium | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | -- | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | | |
| Chromium | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | -- | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.000203 | <0.000203 | 0.000253 J | 0.000368 J | <0.000203 | | |
| Cobalt | mg/L | 0.00436 J | 0.00484 J | 0.005 J | 0.0052 J | 0.00513 J | 0.00518 J | 0.00453 J | 0.00463 J | -- | 0.00441 J | 0.00466 J | 0.00551 | 0.00643 | 0.00864 | 0.00762 | 0.00821 | 0.00796 | 0.00714 | 0.00684 | 0.00673 | 0.00585 | | |
| Combined Radium 226 + 228 | pCi/L | -0.207 U | 0.529 | 0.267 U | 0.873 U | 1.6 U | 0.327 U | 0.524 U | 0.0455 U | -- | 0.633 | 0.377 U | 0.28 U | 0.697 | 0.416 U | 1.38 U | 0.398 U | 0.685 U | 0.42 U | 0.643 U | 0.415 U | 2.19 | | |
| Lead | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | -- | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <6.8e-005 | 9.44e-005 J | 8.59e-005 J | <6.8e-005 | <6.8e-005 | | |
| Lithium | mg/L | 0.171 | 0.181 | 0.182 | 0.189 | 0.177 | 0.191 | 0.189 | 0.184 | -- | 0.183 | 0.194 | 0.181 | 0.16 | 0.163 | 0.149 | 0.152 | 0.166 | 0.151 | 0.124 | 0.124 | 0.119 | | |
| Mercury | mg/L | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | -- | <0.00025 | <0.00025 | <0.00025 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | | | |
| Molybdenum | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | -- | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | 0.0129 | 0.000329 | 0.000309 | 0.000336 | 0.000338 | | |
| Selenium | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | -- | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | | |
| Thallium | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | -- | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | | | |

Notes:

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

Appendix B

Appendix B. Historical Groundwater Elevations Summary
Plant Gorgas CCR Landfill
10/12/2015 - 02/20/2023

| Well | Hydraulic Location | Top of Casing Elevation (ft. AMSL) | Groundwater Elevation (ft.AMSL) | | | | | | | | | | | | | | | |
|-------|--------------------|------------------------------------|---------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | | | 10/12/15 | 04/25/16 | 06/20/16 | 08/08/16 | 08/24/16 | 10/03/16 | 10/26/16 | 11/21/16 | 01/17/17 | 03/20/17 | 04/10/17 | 04/17/17 | 05/30/17 | 08/23/17 | 10/12/17 | 10/13/17 |
| MW-1 | Upgradient | 502.71 | 410.95 | 411.22 | 410.7 | 410.49 | 410.43 | 410.31 | 410.19 | 410.1 | 410.07 | 410.67 | 410.89 | 410.94 | 410.8 | 411.06 | 410.7 | 410.72 |
| MW-2 | Upgradient | 502.47 | 417.16 | 417.36 | 416.76 | 416.6 | 416.42 | 416.21 | 416.08 | 415.98 | 416.62 | 417.24 | 417.66 | 417.34 | 416.94 | 417.02 | 416.5 | 416.54 |
| MW-3 | Upgradient | 526.15 | 415.81 | 416.41 | 415.45 | 415 | 415.08 | 414.82 | 414.64 | 414.43 | 415.27 | 416.07 | 418.23 | 417.21 | 415.63 | 415.73 | 415.1 | 415.14 |
| MW-4 | Upgradient | 518.30 | 401.88 | 402.31 | 401.79 | 400.61 | 400.57 | 400.09 | 399.83 | 399.53 | 400.51 | 402.02 | 402.5 | 402.33 | 401.68 | 401.77 | 400.79 | 400.76 |
| MW-5 | Downgradient | 474.90 | 348.34 | 348.47 | 348.37 | 348.39 | NM | 348.39 | NM | 348.38 | 348.34 | 348.4 | 348.53 | NM | 348.42 | 348.42 | 348.38 | 348.4 |
| MW-6 | Downgradient | 415.31 | 308.19 | 312.84 | 308.08 | 305.87 | NM | 304.61 | NM | 304.24 | 304.6 | 306.45 | 307.79 | NM | 306.65 | 310.02 | 306.04 | 306.03 |
| MW-7 | Downgradient | 394.69 | 333.98 | 336.39 | 334.07 | 333.91 | NM | 333.86 | NM | 333.71 | 333.81 | 334.1 | 336.18 | NM | 334.24 | 335.75 | 334.36 | 334.53 |
| MW-8 | Downgradient | 415.83 | 353.1 | 351.49 | 351.75 | 351.95 | NM | 352.15 | NM | 352.16 | 352.56 | 352.92 | 353.12 | NM | 353.12 | 353.29 | 353.39 | 353.32 |
| MW-9 | Piezometer | 490.15 | 376.17 | 376.22 | 376.2 | 376.14 | NM | 376.07 | NM | 376.13 | 376.08 | 376.2 | NM | 376.05 | --- | --- | --- | |
| MW-9R | Piezometer | 503.27 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 372.94 | NM | NM |

Notes:

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

(2) ft. AMSL - Feet Above Mean Sea Level

(3) NM - Not Measured

(4) Ground surface and top of casing elevations for all on-site compliance wells were resurveyed by a licensed Professional Land Surveyor on April 13, 2023

Appendix B. Historical Groundwater Elevations Summary
Plant Gorgas CCR Landfill
10/12/2015 - 02/20/2023

| Well | Hydraulic Location | Top of Casing Elevation (ft. AMSL) | Groundwater Elevation (ft.AMSL) | | | | | | | | | | | | | | | |
|-------|--------------------|------------------------------------|---------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | | | 10/14/17 | 10/15/17 | 10/16/17 | 10/17/17 | 10/23/17 | 11/15/17 | 02/12/18 | 02/13/18 | 04/09/18 | 05/21/18 | 06/11/18 | 10/17/18 | 10/29/18 | 11/19/18 | 03/13/19 | 04/10/19 |
| MW-1 | Upgradient | 502.71 | 410.68 | 410.73 | 410.68 | 410.65 | 410.69 | 410.66 | 410.89 | 410.89 | 411.35 | 411.47 | 411.28 | 410.65 | 410.62 | 410.8 | 412.11 | 411.95 |
| MW-2 | Upgradient | 502.47 | 416.49 | 416.53 | 416.5 | 416.51 | 416.62 | 416.74 | 419.29 | 419.29 | 417.32 | 417.33 | 417.03 | 416.39 | 416.3 | 417.67 | 417.7 | 421.15 |
| MW-3 | Upgradient | 526.15 | 415.15 | 415.17 | 415.13 | 415.12 | 415.17 | 415.41 | 418.49 | 418.49 | 416.25 | 416.28 | 415.77 | 414.92 | 414.85 | 416.31 | 418.31 | 416.4 |
| MW-4 | Upgradient | 518.30 | 400.67 | 400.67 | 400.59 | 400.62 | 400.54 | 400.6 | 402.67 | 402.67 | 402.22 | 402.24 | 402.01 | 400.3 | 400.18 | 402.08 | 402.68 | 402.86 |
| MW-5 | Downgradient | 474.90 | 348.36 | 348.37 | 348.34 | 348.37 | NM | 348.43 | 348.61 | NM | 348.5 | 348.49 | NM | NM | 348.42 | 348.55 | 348.74 | NM |
| MW-6 | Downgradient | 415.31 | 305.99 | 305.98 | 305.95 | 305.91 | NM | 305.75 | 306.47 | NM | 311.9 | 314.14 | 304.84 | 306.89 | 323.91 | 316.49 | NM | NM |
| MW-7 | Downgradient | 394.69 | 334.45 | 334.45 | 334.42 | 334.41 | NM | 334.14 | 336.82 | NM | 335.68 | 336.6 | NM | NM | 334.01 | 337.61 | 339.54 | NM |
| MW-8 | Downgradient | 415.83 | 353.31 | 353.4 | 353.34 | 353.31 | NM | 353.3 | 353.44 | NM | 353.5 | 353.55 | NM | NM | 353.08 | 353.37 | 353.47 | NM |
| MW-9 | Piezometer | 490.15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| MW-9R | Piezometer | 503.27 | NM | NM | NM | NM | NM | 372.96 | NM | |

Notes:

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

(2) ft. AMSL - Feet Above Mean Sea Level

(3) NM - Not Measured

(4) Ground surface and top of casing elevations for all on-site compliance wells were resurveyed by a licensed Professional Land Surveyor on April 13, 2023

Appendix B. Historical Groundwater Elevations Summary
Plant Gorgas CCR Landfill
10/12/2015 - 02/20/2023

| Well | Hydraulic Location | Top of Casing Elevation (ft. AMSL) | Groundwater Elevation (ft.AMSL) | | | | | | | | | | |
|-------|--------------------|------------------------------------|---------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | | | 05/13/19 | 10/07/19 | 10/14/19 | 04/06/20 | 07/13/20 | 08/03/20 | 02/22/21 | 07/12/21 | 01/24/22 | 07/05/22 | 02/20/23 |
| MW-1 | Upgradient | 502.71 | 411.77 | 410.79 | 410.72 | 412.16 | 411.22 | 412.19 | 411.59 | 411.54 | 411.49 | 411.39 | 412.18 |
| MW-2 | Upgradient | 502.47 | 417.64 | 416.63 | 416.62 | 417.81 | 416.93 | 417.1 | 418.5 | 417.75 | 418.4 | 417.74 | 419.04 |
| MW-3 | Upgradient | 526.15 | 415.17 | 415.14 | 417.64 | 417.41 | 415.34 | 419.94 | 421.54 | 415.49 | 418.99 | 416.02 | 419.16 |
| MW-4 | Upgradient | 518.30 | 402.43 | 400.33 | 400.33 | 402.59 | 401.42 | 402.82 | 402.3 | 401.37 | 402.52 | 401.99 | 402.34 |
| MW-5 | Downgradient | 474.90 | 348.66 | 348.46 | NM | 348.74 | 348.59 | NM | 348.81 | 348.65 | 348.76 | 348.61 | 349.08 |
| MW-6 | Downgradient | 415.31 | NM | 304.21 | NM | 319.32 | 309.56 | 311.83 | 314.66 | NM | 312.53 | 310.54 | 320.13 |
| MW-7 | Downgradient | 394.69 | 338.44 | 334.13 | NM | 338.34 | 335.86 | NM | 338.01 | 336.47 | 337.16 | 334.16 | 337.65 |
| MW-8 | Downgradient | 415.83 | 353.32 | 352.22 | NM | 353.52 | 353.04 | NM | 352.81 | 352.61 | 352.56 | 352.29 | 352.44 |
| MW-9 | Piezometer | 490.15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-9R | Piezometer | 503.27 | 373.11 | 372.99 | NM | 373.15 | 373.04 | NM | 373.15 | 373.13 | 373.13 | 373.08 | 373.29 |

Notes:

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

(2) ft. AMSL - Feet Above Mean Sea Level

(3) NM - Not Measured

(4) Ground surface and top of casing elevations for all on-site compliance wells were resurveyed by a licensed Professional Land Surveyor on April 13, 2023

Appendix C



Water Level Record/Well Inspection

Groundwater

APC General Testing Laboratory
General Service Complex Building 8



Water Level Record/Well Inspection

Groundwater

APC General Testing Laboratory
General Service Complex Building 8

Plant Gorgas CCB Landfills
Field Parameter Summary

| WELL ID | PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|------------------|-----------|-------------------------------|-----------------|---------|-------|
| APCO-GS-CCB-MW-1 | COND | Conductivity | 2/20/23 11:27 | 2307.56 | uS/cm |
| APCO-GS-CCB-MW-1 | DO | DO | 2/20/23 11:27 | 1.16 | mg/L |
| APCO-GS-CCB-MW-1 | DTW | Depth to Water Detail | 2/20/23 11:27 | 92.88 | ft |
| APCO-GS-CCB-MW-1 | ORP | Oxidation Reduction Potention | 2/20/23 11:27 | 317.83 | mv |
| APCO-GS-CCB-MW-1 | PH | pH | 2/20/23 11:27 | 5.04 | SU |
| APCO-GS-CCB-MW-1 | TEMP | Temperature | 2/20/23 11:27 | 19.45 | C |
| APCO-GS-CCB-MW-1 | TURB | Turbidity | 2/20/23 11:27 | 0.66 | NTU |
| APCO-GS-CCB-MW-1 | COND | Conductivity | 2/20/23 11:32 | 2301.7 | uS/cm |
| APCO-GS-CCB-MW-1 | DO | DO | 2/20/23 11:32 | 1.19 | mg/L |
| APCO-GS-CCB-MW-1 | DTW | Depth to Water Detail | 2/20/23 11:32 | 92.9 | ft |
| APCO-GS-CCB-MW-1 | ORP | Oxidation Reduction Potention | 2/20/23 11:32 | 338.68 | mv |
| APCO-GS-CCB-MW-1 | PH | pH | 2/20/23 11:32 | 5.05 | SU |
| APCO-GS-CCB-MW-1 | TEMP | Temperature | 2/20/23 11:32 | 19.57 | C |
| APCO-GS-CCB-MW-1 | TURB | Turbidity | 2/20/23 11:32 | 0.59 | NTU |
| APCO-GS-CCB-MW-1 | COND | Conductivity | 2/20/23 11:37 | 2295.88 | uS/cm |
| APCO-GS-CCB-MW-1 | DO | DO | 2/20/23 11:37 | 1.02 | mg/L |
| APCO-GS-CCB-MW-1 | DTW | Depth to Water Detail | 2/20/23 11:37 | 92.92 | ft |
| APCO-GS-CCB-MW-1 | ORP | Oxidation Reduction Potention | 2/20/23 11:37 | 348.93 | mv |
| APCO-GS-CCB-MW-1 | PH | pH | 2/20/23 11:37 | 5.07 | SU |
| APCO-GS-CCB-MW-1 | TEMP | Temperature | 2/20/23 11:37 | 19.63 | C |
| APCO-GS-CCB-MW-1 | TURB | Turbidity | 2/20/23 11:37 | 0.69 | NTU |
| APCO-GS-CCB-MW-1 | COND | Conductivity | 2/20/23 11:42 | 2343.61 | uS/cm |
| APCO-GS-CCB-MW-1 | DO | DO | 2/20/23 11:42 | 0.97 | mg/L |
| APCO-GS-CCB-MW-1 | DTW | Depth to Water Detail | 2/20/23 11:42 | 92.94 | ft |
| APCO-GS-CCB-MW-1 | ORP | Oxidation Reduction Potention | 2/20/23 11:42 | 355.62 | mv |
| APCO-GS-CCB-MW-1 | PH | pH | 2/20/23 11:42 | 5.08 | SU |
| APCO-GS-CCB-MW-1 | TEMP | Temperature | 2/20/23 11:42 | 19.63 | C |
| APCO-GS-CCB-MW-1 | TURB | Turbidity | 2/20/23 11:42 | 0.5 | NTU |
| APCO-GS-CCB-MW-1 | COND | Conductivity | 2/20/23 11:47 | 2297.01 | uS/cm |
| APCO-GS-CCB-MW-1 | DO | DO | 2/20/23 11:47 | 0.95 | mg/L |
| APCO-GS-CCB-MW-1 | DTW | Depth to Water Detail | 2/20/23 11:47 | 92.94 | ft |
| APCO-GS-CCB-MW-1 | ORP | Oxidation Reduction Potention | 2/20/23 11:47 | 361.14 | mv |
| APCO-GS-CCB-MW-1 | PH | pH | 2/20/23 11:47 | 5.07 | SU |
| APCO-GS-CCB-MW-1 | SULFIDE | Sulfide | 2/20/23 11:47 | 0 | mg/L |
| APCO-GS-CCB-MW-1 | TEMP | Temperature | 2/20/23 11:47 | 19.59 | C |
| APCO-GS-CCB-MW-1 | TURB | Turbidity | 2/20/23 11:47 | 0.73 | NTU |
| APCO-GS-CCB-MW-2 | COND | Conductivity | 2/20/23 13:18 | 1774.73 | uS/cm |
| APCO-GS-CCB-MW-2 | DO | DO | 2/20/23 13:18 | 0.85 | mg/L |
| APCO-GS-CCB-MW-2 | DTW | Depth to Water Detail | 2/20/23 13:18 | 83.43 | ft |
| APCO-GS-CCB-MW-2 | ORP | Oxidation Reduction Potention | 2/20/23 13:18 | 71.78 | mv |
| APCO-GS-CCB-MW-2 | PH | pH | 2/20/23 13:18 | 6.22 | SU |
| APCO-GS-CCB-MW-2 | TEMP | Temperature | 2/20/23 13:18 | 19 | C |
| APCO-GS-CCB-MW-2 | TURB | Turbidity | 2/20/23 13:18 | 0.72 | NTU |
| APCO-GS-CCB-MW-2 | COND | Conductivity | 2/20/23 13:23 | 1773.88 | uS/cm |
| APCO-GS-CCB-MW-2 | DO | DO | 2/20/23 13:23 | 0.85 | mg/L |
| APCO-GS-CCB-MW-2 | DTW | Depth to Water Detail | 2/20/23 13:23 | 83.43 | ft |
| APCO-GS-CCB-MW-2 | ORP | Oxidation Reduction Potention | 2/20/23 13:23 | 71.83 | mv |
| APCO-GS-CCB-MW-2 | PH | pH | 2/20/23 13:23 | 6.23 | SU |
| APCO-GS-CCB-MW-2 | TEMP | Temperature | 2/20/23 13:23 | 19 | C |
| APCO-GS-CCB-MW-2 | TURB | Turbidity | 2/20/23 13:23 | 0.94 | NTU |
| APCO-GS-CCB-MW-2 | COND | Conductivity | 2/20/23 13:28 | 1772.4 | uS/cm |
| APCO-GS-CCB-MW-2 | DO | DO | 2/20/23 13:28 | 0.83 | mg/L |
| APCO-GS-CCB-MW-2 | DTW | Depth to Water Detail | 2/20/23 13:28 | 83.43 | ft |
| APCO-GS-CCB-MW-2 | ORP | Oxidation Reduction Potention | 2/20/23 13:28 | 72.2 | mv |
| APCO-GS-CCB-MW-2 | PH | pH | 2/20/23 13:28 | 6.24 | SU |
| APCO-GS-CCB-MW-2 | TEMP | Temperature | 2/20/23 13:28 | 18.98 | C |
| APCO-GS-CCB-MW-2 | TURB | Turbidity | 2/20/23 13:28 | 0.47 | NTU |
| APCO-GS-CCB-MW-2 | COND | Conductivity | 2/20/23 13:33 | 1773 | uS/cm |
| APCO-GS-CCB-MW-2 | DO | DO | 2/20/23 13:33 | 0.82 | mg/L |
| APCO-GS-CCB-MW-2 | DTW | Depth to Water Detail | 2/20/23 13:33 | 83.43 | ft |
| APCO-GS-CCB-MW-2 | ORP | Oxidation Reduction Potention | 2/20/23 13:33 | 72.91 | mv |
| APCO-GS-CCB-MW-2 | PH | pH | 2/20/23 13:33 | 6.24 | SU |

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| APCO-GS-CCB-MW-2 | SULFIDE | Sulfide | 2/20/23 13:33 | 0 | mg/L |
| APCO-GS-CCB-MW-2 | TEMP | Temperature | 2/20/23 13:33 | 18.95 | C |
| APCO-GS-CCB-MW-2 | TURB | Turbidity | 2/20/23 13:33 | 0.41 | NTU |
| APCO-GS-CCB-MW-3 | COND | Conductivity | 2/20/23 14:18 | 3845.31 | uS/cm |
| APCO-GS-CCB-MW-3 | DO | DO | 2/20/23 14:18 | 7.15 | mg/L |
| APCO-GS-CCB-MW-3 | DTW | Depth to Water Detail | 2/20/23 14:18 | 107.22 | ft |
| APCO-GS-CCB-MW-3 | ORP | Oxidation Reduction Potention | 2/20/23 14:18 | 307.8 | mv |
| APCO-GS-CCB-MW-3 | PH | pH | 2/20/23 14:18 | 4.94 | SU |
| APCO-GS-CCB-MW-3 | TEMP | Temperature | 2/20/23 14:18 | 20.98 | C |
| APCO-GS-CCB-MW-3 | TURB | Turbidity | 2/20/23 14:18 | 3.67 | NTU |
| APCO-GS-CCB-MW-3 | COND | Conductivity | 2/20/23 14:23 | 3460.97 | uS/cm |
| APCO-GS-CCB-MW-3 | DO | DO | 2/20/23 14:23 | 6.52 | mg/L |
| APCO-GS-CCB-MW-3 | DTW | Depth to Water Detail | 2/20/23 14:23 | 107.24 | ft |
| APCO-GS-CCB-MW-3 | ORP | Oxidation Reduction Potention | 2/20/23 14:23 | 273.35 | mv |
| APCO-GS-CCB-MW-3 | PH | pH | 2/20/23 14:23 | 5.74 | SU |
| APCO-GS-CCB-MW-3 | TEMP | Temperature | 2/20/23 14:23 | 20.86 | C |
| APCO-GS-CCB-MW-3 | TURB | Turbidity | 2/20/23 14:23 | 12.9 | NTU |
| APCO-GS-CCB-MW-3 | COND | Conductivity | 2/20/23 14:28 | 3297.44 | uS/cm |
| APCO-GS-CCB-MW-3 | DO | DO | 2/20/23 14:28 | 6.36 | mg/L |
| APCO-GS-CCB-MW-3 | DTW | Depth to Water Detail | 2/20/23 14:28 | 107.26 | ft |
| APCO-GS-CCB-MW-3 | ORP | Oxidation Reduction Potention | 2/20/23 14:28 | 243.1 | mv |
| APCO-GS-CCB-MW-3 | PH | pH | 2/20/23 14:28 | 5.97 | SU |
| APCO-GS-CCB-MW-3 | TEMP | Temperature | 2/20/23 14:28 | 20.74 | C |
| APCO-GS-CCB-MW-3 | TURB | Turbidity | 2/20/23 14:28 | 11.5 | NTU |
| APCO-GS-CCB-MW-3 | COND | Conductivity | 2/20/23 14:33 | 3289.62 | uS/cm |
| APCO-GS-CCB-MW-3 | DO | DO | 2/20/23 14:33 | 6.25 | mg/L |
| APCO-GS-CCB-MW-3 | DTW | Depth to Water Detail | 2/20/23 14:33 | 107.28 | ft |
| APCO-GS-CCB-MW-3 | ORP | Oxidation Reduction Potention | 2/20/23 14:33 | 235.2 | mv |
| APCO-GS-CCB-MW-3 | PH | pH | 2/20/23 14:33 | 5.99 | SU |
| APCO-GS-CCB-MW-3 | TEMP | Temperature | 2/20/23 14:33 | 20.53 | C |
| APCO-GS-CCB-MW-3 | TURB | Turbidity | 2/20/23 14:33 | 7.21 | NTU |
| APCO-GS-CCB-MW-3 | COND | Conductivity | 2/20/23 14:38 | 3282.07 | uS/cm |
| APCO-GS-CCB-MW-3 | DO | DO | 2/20/23 14:38 | 6.17 | mg/L |
| APCO-GS-CCB-MW-3 | DTW | Depth to Water Detail | 2/20/23 14:38 | 107.3 | ft |
| APCO-GS-CCB-MW-3 | ORP | Oxidation Reduction Potention | 2/20/23 14:38 | 233.18 | mv |
| APCO-GS-CCB-MW-3 | PH | pH | 2/20/23 14:38 | 6 | SU |
| APCO-GS-CCB-MW-3 | TEMP | Temperature | 2/20/23 14:38 | 20.41 | C |
| APCO-GS-CCB-MW-3 | TURB | Turbidity | 2/20/23 14:38 | 3.72 | NTU |
| APCO-GS-CCB-MW-3 | COND | Conductivity | 2/20/23 14:43 | 3280.04 | uS/cm |
| APCO-GS-CCB-MW-3 | DO | DO | 2/20/23 14:43 | 6.2 | mg/L |
| APCO-GS-CCB-MW-3 | DTW | Depth to Water Detail | 2/20/23 14:43 | 107.32 | ft |
| APCO-GS-CCB-MW-3 | ORP | Oxidation Reduction Potention | 2/20/23 14:43 | 232.49 | mv |
| APCO-GS-CCB-MW-3 | PH | pH | 2/20/23 14:43 | 6.01 | SU |
| APCO-GS-CCB-MW-3 | TEMP | Temperature | 2/20/23 14:43 | 20.36 | C |
| APCO-GS-CCB-MW-3 | TURB | Turbidity | 2/20/23 14:43 | 2.34 | NTU |
| APCO-GS-CCB-MW-3 | COND | Conductivity | 2/20/23 14:48 | 3276.9 | uS/cm |
| APCO-GS-CCB-MW-3 | DO | DO | 2/20/23 14:48 | 6.19 | mg/L |
| APCO-GS-CCB-MW-3 | DTW | Depth to Water Detail | 2/20/23 14:48 | 107.33 | ft |
| APCO-GS-CCB-MW-3 | ORP | Oxidation Reduction Potention | 2/20/23 14:48 | 231.95 | mv |
| APCO-GS-CCB-MW-3 | PH | pH | 2/20/23 14:48 | 6.01 | SU |
| APCO-GS-CCB-MW-3 | SULFIDE | Sulfide | 2/20/23 14:48 | 0 | mg/L |
| APCO-GS-CCB-MW-3 | TEMP | Temperature | 2/20/23 14:48 | 20.34 | C |
| APCO-GS-CCB-MW-3 | TURB | Turbidity | 2/20/23 14:48 | 1.21 | NTU |
| APCO-GS-CCB-MW-4 | COND | Conductivity | 2/21/23 9:30 | 3246.86 | uS/cm |
| APCO-GS-CCB-MW-4 | DO | DO | 2/21/23 9:30 | 2.8 | mg/L |
| APCO-GS-CCB-MW-4 | DTW | Depth to Water Detail | 2/21/23 9:30 | 116.03 | ft |
| APCO-GS-CCB-MW-4 | ORP | Oxidation Reduction Potention | 2/21/23 9:30 | 213.78 | mv |
| APCO-GS-CCB-MW-4 | PH | pH | 2/21/23 9:30 | 6.33 | SU |
| APCO-GS-CCB-MW-4 | TEMP | Temperature | 2/21/23 9:30 | 19.7 | C |
| APCO-GS-CCB-MW-4 | TURB | Turbidity | 2/21/23 9:30 | 2.34 | NTU |
| APCO-GS-CCB-MW-4 | COND | Conductivity | 2/21/23 9:35 | 3228.3 | uS/cm |
| APCO-GS-CCB-MW-4 | DO | DO | 2/21/23 9:35 | 2.79 | mg/L |
| APCO-GS-CCB-MW-4 | DTW | Depth to Water Detail | 2/21/23 9:35 | 116.03 | ft |

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| APCO-GS-CCB-MW-4 | ORP | Oxidation Reduction Potention | 2/21/23 9:35 | 214.38 | mv |
| APCO-GS-CCB-MW-4 | PH | pH | 2/21/23 9:35 | 6.33 | SU |
| APCO-GS-CCB-MW-4 | TEMP | Temperature | 2/21/23 9:35 | 19.65 | C |
| APCO-GS-CCB-MW-4 | TURB | Turbidity | 2/21/23 9:35 | 1.59 | NTU |
| APCO-GS-CCB-MW-4 | COND | Conductivity | 2/21/23 9:40 | 3207.87 | uS/cm |
| APCO-GS-CCB-MW-4 | DO | DO | 2/21/23 9:40 | 2.9 | mg/L |
| APCO-GS-CCB-MW-4 | DTW | Depth to Water Detail | 2/21/23 9:40 | 116.03 | ft |
| APCO-GS-CCB-MW-4 | ORP | Oxidation Reduction Potention | 2/21/23 9:40 | 215.67 | mv |
| APCO-GS-CCB-MW-4 | PH | pH | 2/21/23 9:40 | 6.34 | SU |
| APCO-GS-CCB-MW-4 | TEMP | Temperature | 2/21/23 9:40 | 19.6 | C |
| APCO-GS-CCB-MW-4 | TURB | Turbidity | 2/21/23 9:40 | 1.25 | NTU |
| APCO-GS-CCB-MW-4 | COND | Conductivity | 2/21/23 9:45 | 3197.25 | uS/cm |
| APCO-GS-CCB-MW-4 | DO | DO | 2/21/23 9:45 | 3.04 | mg/L |
| APCO-GS-CCB-MW-4 | DTW | Depth to Water Detail | 2/21/23 9:45 | 116.03 | ft |
| APCO-GS-CCB-MW-4 | ORP | Oxidation Reduction Potention | 2/21/23 9:45 | 216.9 | mv |
| APCO-GS-CCB-MW-4 | PH | pH | 2/21/23 9:45 | 6.34 | SU |
| APCO-GS-CCB-MW-4 | TEMP | Temperature | 2/21/23 9:45 | 19.59 | C |
| APCO-GS-CCB-MW-4 | TURB | Turbidity | 2/21/23 9:45 | 1.22 | NTU |
| APCO-GS-CCB-MW-4 | COND | Conductivity | 2/21/23 9:50 | 3189.48 | uS/cm |
| APCO-GS-CCB-MW-4 | DO | DO | 2/21/23 9:50 | 3.13 | mg/L |
| APCO-GS-CCB-MW-4 | DTW | Depth to Water Detail | 2/21/23 9:50 | 116.03 | ft |
| APCO-GS-CCB-MW-4 | ORP | Oxidation Reduction Potention | 2/21/23 9:50 | 217.91 | mv |
| APCO-GS-CCB-MW-4 | PH | pH | 2/21/23 9:50 | 6.35 | SU |
| APCO-GS-CCB-MW-4 | TEMP | Temperature | 2/21/23 9:50 | 19.6 | C |
| APCO-GS-CCB-MW-4 | TURB | Turbidity | 2/21/23 9:50 | 1.2 | NTU |
| APCO-GS-CCB-MW-4 | COND | Conductivity | 2/21/23 9:55 | 3184.95 | uS/cm |
| APCO-GS-CCB-MW-4 | DO | DO | 2/21/23 9:55 | 3.15 | mg/L |
| APCO-GS-CCB-MW-4 | DTW | Depth to Water Detail | 2/21/23 9:55 | 116.03 | ft |
| APCO-GS-CCB-MW-4 | ORP | Oxidation Reduction Potention | 2/21/23 9:55 | 219 | mv |
| APCO-GS-CCB-MW-4 | PH | pH | 2/21/23 9:55 | 6.35 | SU |
| APCO-GS-CCB-MW-4 | SULFIDE | Sulfide | 2/21/23 9:55 | 0 | mg/L |
| APCO-GS-CCB-MW-4 | TEMP | Temperature | 2/21/23 9:55 | 19.61 | C |
| APCO-GS-CCB-MW-4 | TURB | Turbidity | 2/21/23 9:55 | 0.72 | NTU |
| APCO-GS-CCB-MW-11 | COND | Conductivity | 2/21/23 14:57 | 2626.49 | uS/cm |
| APCO-GS-CCB-MW-11 | DO | DO | 2/21/23 14:57 | 0.29 | mg/L |
| APCO-GS-CCB-MW-11 | DTW | Depth to Water Detail | 2/21/23 14:57 | 106.08 | ft |
| APCO-GS-CCB-MW-11 | ORP | Oxidation Reduction Potention | 2/21/23 14:57 | -52.81 | mv |
| APCO-GS-CCB-MW-11 | PH | pH | 2/21/23 14:57 | 6.82 | SU |
| APCO-GS-CCB-MW-11 | TEMP | Temperature | 2/21/23 14:57 | 20.33 | C |
| APCO-GS-CCB-MW-11 | TURB | Turbidity | 2/21/23 14:57 | 0.97 | NTU |
| APCO-GS-CCB-MW-11 | COND | Conductivity | 2/21/23 15:02 | 2616.81 | uS/cm |
| APCO-GS-CCB-MW-11 | DO | DO | 2/21/23 15:02 | 0.2 | mg/L |
| APCO-GS-CCB-MW-11 | DTW | Depth to Water Detail | 2/21/23 15:02 | 108.7 | ft |
| APCO-GS-CCB-MW-11 | ORP | Oxidation Reduction Potention | 2/21/23 15:02 | -57.73 | mv |
| APCO-GS-CCB-MW-11 | PH | pH | 2/21/23 15:02 | 6.8 | SU |
| APCO-GS-CCB-MW-11 | TEMP | Temperature | 2/21/23 15:02 | 20.22 | C |
| APCO-GS-CCB-MW-11 | TURB | Turbidity | 2/21/23 15:02 | 0.89 | NTU |
| APCO-GS-CCB-MW-11 | COND | Conductivity | 2/21/23 15:07 | 2614.17 | uS/cm |
| APCO-GS-CCB-MW-11 | DO | DO | 2/21/23 15:07 | 0.19 | mg/L |
| APCO-GS-CCB-MW-11 | DTW | Depth to Water Detail | 2/21/23 15:07 | 110.54 | ft |
| APCO-GS-CCB-MW-11 | ORP | Oxidation Reduction Potention | 2/21/23 15:07 | -60.02 | mv |
| APCO-GS-CCB-MW-11 | PH | pH | 2/21/23 15:07 | 6.79 | SU |
| APCO-GS-CCB-MW-11 | TEMP | Temperature | 2/21/23 15:07 | 20.16 | C |
| APCO-GS-CCB-MW-11 | TURB | Turbidity | 2/21/23 15:07 | 0.92 | NTU |
| APCO-GS-CCB-MW-11 | COND | Conductivity | 2/21/23 15:12 | 2609.79 | uS/cm |
| APCO-GS-CCB-MW-11 | DO | DO | 2/21/23 15:12 | 0.32 | mg/L |
| APCO-GS-CCB-MW-11 | DTW | Depth to Water Detail | 2/21/23 15:12 | 110.46 | ft |
| APCO-GS-CCB-MW-11 | ORP | Oxidation Reduction Potention | 2/21/23 15:12 | -61.21 | mv |
| APCO-GS-CCB-MW-11 | PH | pH | 2/21/23 15:12 | 6.79 | SU |
| APCO-GS-CCB-MW-11 | TEMP | Temperature | 2/21/23 15:12 | 20.15 | C |
| APCO-GS-CCB-MW-11 | TURB | Turbidity | 2/21/23 15:12 | 0.78 | NTU |
| APCO-GS-CCB-MW-11 | COND | Conductivity | 2/21/23 15:17 | 2605.62 | uS/cm |
| APCO-GS-CCB-MW-11 | DO | DO | 2/21/23 15:17 | 0.4 | mg/L |

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| APCO-GS-CCB-MW-11 | DTW | Depth to Water Detail | 2/21/23 15:17 | 110.43 | ft |
| APCO-GS-CCB-MW-11 | ORP | Oxidation Reduction Potention | 2/21/23 15:17 | -61.73 | mv |
| APCO-GS-CCB-MW-11 | PH | pH | 2/21/23 15:17 | 6.78 | SU |
| APCO-GS-CCB-MW-11 | TEMP | Temperature | 2/21/23 15:17 | 20.19 | C |
| APCO-GS-CCB-MW-11 | TURB | Turbidity | 2/21/23 15:17 | 0.84 | NTU |
| APCO-GS-CCB-MW-11 | COND | Conductivity | 2/21/23 15:22 | 2597.79 | uS/cm |
| APCO-GS-CCB-MW-11 | DO | DO | 2/21/23 15:22 | 0.42 | mg/L |
| APCO-GS-CCB-MW-11 | DTW | Depth to Water Detail | 2/21/23 15:22 | 110.43 | ft |
| APCO-GS-CCB-MW-11 | ORP | Oxidation Reduction Potention | 2/21/23 15:22 | -62.9 | mv |
| APCO-GS-CCB-MW-11 | PH | pH | 2/21/23 15:22 | 6.77 | SU |
| APCO-GS-CCB-MW-11 | SULFIDE | Sulfide | 2/21/23 15:22 | 0 | mg/L |
| APCO-GS-CCB-MW-11 | TEMP | Temperature | 2/21/23 15:22 | 20.11 | C |
| APCO-GS-CCB-MW-11 | TURB | Turbidity | 2/21/23 15:22 | 0.8 | NTU |
| APCO-GS-CCB-MW-12 | COND | Conductivity | 2/22/23 13:29 | 3451.82 | uS/cm |
| APCO-GS-CCB-MW-12 | DO | DO | 2/22/23 13:29 | 1.25 | mg/L |
| APCO-GS-CCB-MW-12 | DTW | Depth to Water Detail | 2/22/23 13:29 | 154.72 | ft |
| APCO-GS-CCB-MW-12 | ORP | Oxidation Reduction Potention | 2/22/23 13:29 | 20.37 | mv |
| APCO-GS-CCB-MW-12 | PH | pH | 2/22/23 13:29 | 5.66 | SU |
| APCO-GS-CCB-MW-12 | TEMP | Temperature | 2/22/23 13:29 | 22.35 | C |
| APCO-GS-CCB-MW-12 | TURB | Turbidity | 2/22/23 13:29 | 5.21 | NTU |
| APCO-GS-CCB-MW-12 | COND | Conductivity | 2/22/23 13:34 | 3511.79 | uS/cm |
| APCO-GS-CCB-MW-12 | DO | DO | 2/22/23 13:34 | 0.41 | mg/L |
| APCO-GS-CCB-MW-12 | DTW | Depth to Water Detail | 2/22/23 13:34 | 154.72 | ft |
| APCO-GS-CCB-MW-12 | ORP | Oxidation Reduction Potention | 2/22/23 13:34 | 10.43 | mv |
| APCO-GS-CCB-MW-12 | PH | pH | 2/22/23 13:34 | 5.69 | SU |
| APCO-GS-CCB-MW-12 | TEMP | Temperature | 2/22/23 13:34 | 22.29 | C |
| APCO-GS-CCB-MW-12 | TURB | Turbidity | 2/22/23 13:34 | 4.38 | NTU |
| APCO-GS-CCB-MW-12 | COND | Conductivity | 2/22/23 13:39 | 3553.77 | uS/cm |
| APCO-GS-CCB-MW-12 | DO | DO | 2/22/23 13:39 | 0.3 | mg/L |
| APCO-GS-CCB-MW-12 | DTW | Depth to Water Detail | 2/22/23 13:39 | 154.72 | ft |
| APCO-GS-CCB-MW-12 | ORP | Oxidation Reduction Potention | 2/22/23 13:39 | 8.27 | mv |
| APCO-GS-CCB-MW-12 | PH | pH | 2/22/23 13:39 | 5.7 | SU |
| APCO-GS-CCB-MW-12 | TEMP | Temperature | 2/22/23 13:39 | 22.33 | C |
| APCO-GS-CCB-MW-12 | TURB | Turbidity | 2/22/23 13:39 | 3.95 | NTU |
| APCO-GS-CCB-MW-12 | COND | Conductivity | 2/22/23 13:44 | 3585.09 | uS/cm |
| APCO-GS-CCB-MW-12 | DO | DO | 2/22/23 13:44 | 0.28 | mg/L |
| APCO-GS-CCB-MW-12 | DTW | Depth to Water Detail | 2/22/23 13:44 | 154.72 | ft |
| APCO-GS-CCB-MW-12 | ORP | Oxidation Reduction Potention | 2/22/23 13:44 | 7.95 | mv |
| APCO-GS-CCB-MW-12 | PH | pH | 2/22/23 13:44 | 5.72 | SU |
| APCO-GS-CCB-MW-12 | SULFIDE | Sulfide | 2/22/23 13:44 | 0 | mg/L |
| APCO-GS-CCB-MW-12 | TEMP | Temperature | 2/22/23 13:44 | 21.83 | C |
| APCO-GS-CCB-MW-12 | TURB | Turbidity | 2/22/23 13:44 | 3.81 | NTU |
| APCO-GS-CCB-MW-12V | COND | Conductivity | 2/22/23 12:12 | 2659.72 | uS/cm |
| APCO-GS-CCB-MW-12V | DO | DO | 2/22/23 12:12 | 0.75 | mg/L |
| APCO-GS-CCB-MW-12V | DTW | Depth to Water Detail | 2/22/23 12:12 | 157.4 | ft |
| APCO-GS-CCB-MW-12V | ORP | Oxidation Reduction Potention | 2/22/23 12:12 | -100.06 | mv |
| APCO-GS-CCB-MW-12V | PH | pH | 2/22/23 12:12 | 6.95 | SU |
| APCO-GS-CCB-MW-12V | TEMP | Temperature | 2/22/23 12:12 | 22.89 | C |
| APCO-GS-CCB-MW-12V | TURB | Turbidity | 2/22/23 12:12 | 3.08 | NTU |
| APCO-GS-CCB-MW-12V | COND | Conductivity | 2/22/23 12:17 | 2670.85 | uS/cm |
| APCO-GS-CCB-MW-12V | DO | DO | 2/22/23 12:17 | 0.47 | mg/L |
| APCO-GS-CCB-MW-12V | DTW | Depth to Water Detail | 2/22/23 12:17 | 157.76 | ft |
| APCO-GS-CCB-MW-12V | ORP | Oxidation Reduction Potention | 2/22/23 12:17 | -98.12 | mv |
| APCO-GS-CCB-MW-12V | PH | pH | 2/22/23 12:17 | 6.95 | SU |
| APCO-GS-CCB-MW-12V | TEMP | Temperature | 2/22/23 12:17 | 22.75 | C |
| APCO-GS-CCB-MW-12V | TURB | Turbidity | 2/22/23 12:17 | 2.21 | NTU |
| APCO-GS-CCB-MW-12V | COND | Conductivity | 2/22/23 12:22 | 2672.06 | uS/cm |
| APCO-GS-CCB-MW-12V | DO | DO | 2/22/23 12:22 | 0.41 | mg/L |
| APCO-GS-CCB-MW-12V | DTW | Depth to Water Detail | 2/22/23 12:22 | 158 | ft |
| APCO-GS-CCB-MW-12V | ORP | Oxidation Reduction Potention | 2/22/23 12:22 | -96.03 | mv |
| APCO-GS-CCB-MW-12V | PH | pH | 2/22/23 12:22 | 6.95 | SU |
| APCO-GS-CCB-MW-12V | TEMP | Temperature | 2/22/23 12:22 | 22.59 | C |
| APCO-GS-CCB-MW-12V | TURB | Turbidity | 2/22/23 12:22 | 2.43 | NTU |

Plant Gorgas CCB Landfills
Field Parameter Summary

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| APCO-GS-CCB-MW-12V | COND | Conductivity | 2/22/23 12:27 | 2674.21 | uS/cm |
| APCO-GS-CCB-MW-12V | DO | DO | 2/22/23 12:27 | 0.41 | mg/L |
| APCO-GS-CCB-MW-12V | DTW | Depth to Water Detail | 2/22/23 12:27 | 158.11 | ft |
| APCO-GS-CCB-MW-12V | ORP | Oxidation Reduction Potention | 2/22/23 12:27 | -94.08 | mv |
| APCO-GS-CCB-MW-12V | PH | pH | 2/22/23 12:27 | 6.95 | SU |
| APCO-GS-CCB-MW-12V | TEMP | Temperature | 2/22/23 12:27 | 22.71 | C |
| APCO-GS-CCB-MW-12V | TURB | Turbidity | 2/22/23 12:27 | 1.91 | NTU |
| APCO-GS-CCB-MW-12V | COND | Conductivity | 2/22/23 12:32 | 2671.7 | uS/cm |
| APCO-GS-CCB-MW-12V | DO | DO | 2/22/23 12:32 | 0.45 | mg/L |
| APCO-GS-CCB-MW-12V | DTW | Depth to Water Detail | 2/22/23 12:32 | 158.2 | ft |
| APCO-GS-CCB-MW-12V | ORP | Oxidation Reduction Potention | 2/22/23 12:32 | -92.09 | mv |
| APCO-GS-CCB-MW-12V | PH | pH | 2/22/23 12:32 | 6.95 | SU |
| APCO-GS-CCB-MW-12V | SULFIDE | Sulfide | 2/22/23 12:32 | 0 | mg/L |
| APCO-GS-CCB-MW-12V | TEMP | Temperature | 2/22/23 12:32 | 22.78 | C |
| APCO-GS-CCB-MW-12V | TURB | Turbidity | 2/22/23 12:32 | 1.96 | NTU |
| APCO-GS-CCB-MW-13 | COND | Conductivity | 2/20/23 10:44 | 2336.35 | uS/cm |
| APCO-GS-CCB-MW-13 | DO | DO | 2/20/23 10:44 | 0.97 | mg/L |
| APCO-GS-CCB-MW-13 | DTW | Depth to Water Detail | 2/20/23 10:44 | 94.13 | ft |
| APCO-GS-CCB-MW-13 | ORP | Oxidation Reduction Potention | 2/20/23 10:44 | 84.75 | mv |
| APCO-GS-CCB-MW-13 | PH | pH | 2/20/23 10:44 | 6.46 | SU |
| APCO-GS-CCB-MW-13 | TEMP | Temperature | 2/20/23 10:44 | 19.01 | C |
| APCO-GS-CCB-MW-13 | TURB | Turbidity | 2/20/23 10:44 | 1.98 | NTU |
| APCO-GS-CCB-MW-13 | COND | Conductivity | 2/20/23 10:49 | 2238.28 | uS/cm |
| APCO-GS-CCB-MW-13 | DO | DO | 2/20/23 10:49 | 0.49 | mg/L |
| APCO-GS-CCB-MW-13 | DTW | Depth to Water Detail | 2/20/23 10:49 | 94.24 | ft |
| APCO-GS-CCB-MW-13 | ORP | Oxidation Reduction Potention | 2/20/23 10:49 | 90.52 | mv |
| APCO-GS-CCB-MW-13 | PH | pH | 2/20/23 10:49 | 6.56 | SU |
| APCO-GS-CCB-MW-13 | TEMP | Temperature | 2/20/23 10:49 | 19.04 | C |
| APCO-GS-CCB-MW-13 | TURB | Turbidity | 2/20/23 10:49 | 1.56 | NTU |
| APCO-GS-CCB-MW-13 | COND | Conductivity | 2/20/23 10:54 | 2218.64 | uS/cm |
| APCO-GS-CCB-MW-13 | DO | DO | 2/20/23 10:54 | 0.56 | mg/L |
| APCO-GS-CCB-MW-13 | DTW | Depth to Water Detail | 2/20/23 10:54 | 94.28 | ft |
| APCO-GS-CCB-MW-13 | ORP | Oxidation Reduction Potention | 2/20/23 10:54 | 92.25 | mv |
| APCO-GS-CCB-MW-13 | PH | pH | 2/20/23 10:54 | 6.57 | SU |
| APCO-GS-CCB-MW-13 | TEMP | Temperature | 2/20/23 10:54 | 19.05 | C |
| APCO-GS-CCB-MW-13 | TURB | Turbidity | 2/20/23 10:54 | 1.63 | NTU |
| APCO-GS-CCB-MW-13 | COND | Conductivity | 2/20/23 10:59 | 2211.86 | uS/cm |
| APCO-GS-CCB-MW-13 | DO | DO | 2/20/23 10:59 | 0.57 | mg/L |
| APCO-GS-CCB-MW-13 | DTW | Depth to Water Detail | 2/20/23 10:59 | 94.32 | ft |
| APCO-GS-CCB-MW-13 | ORP | Oxidation Reduction Potention | 2/20/23 10:59 | 89.49 | mv |
| APCO-GS-CCB-MW-13 | PH | pH | 2/20/23 10:59 | 6.58 | SU |
| APCO-GS-CCB-MW-13 | SULFIDE | Sulfide | 2/20/23 10:59 | 0 | mg/L |
| APCO-GS-CCB-MW-13 | TEMP | Temperature | 2/20/23 10:59 | 18.98 | C |
| APCO-GS-CCB-MW-13 | TURB | Turbidity | 2/20/23 10:59 | 1.6 | NTU |
| APCO-GS-CCB-MW-14 | COND | Conductivity | 2/20/23 11:44 | 2873.68 | uS/cm |
| APCO-GS-CCB-MW-14 | DO | DO | 2/20/23 11:44 | 0.24 | mg/L |
| APCO-GS-CCB-MW-14 | DTW | Depth to Water Detail | 2/20/23 11:44 | 89.16 | ft |
| APCO-GS-CCB-MW-14 | ORP | Oxidation Reduction Potention | 2/20/23 11:44 | 25.26 | mv |
| APCO-GS-CCB-MW-14 | PH | pH | 2/20/23 11:44 | 6.44 | SU |
| APCO-GS-CCB-MW-14 | TEMP | Temperature | 2/20/23 11:44 | 19.07 | C |
| APCO-GS-CCB-MW-14 | TURB | Turbidity | 2/20/23 11:44 | 3.88 | NTU |
| APCO-GS-CCB-MW-14 | COND | Conductivity | 2/20/23 11:49 | 2873.44 | uS/cm |
| APCO-GS-CCB-MW-14 | DO | DO | 2/20/23 11:49 | 0.18 | mg/L |
| APCO-GS-CCB-MW-14 | DTW | Depth to Water Detail | 2/20/23 11:49 | 89.16 | ft |
| APCO-GS-CCB-MW-14 | ORP | Oxidation Reduction Potention | 2/20/23 11:49 | 11.9 | mv |
| APCO-GS-CCB-MW-14 | PH | pH | 2/20/23 11:49 | 6.44 | SU |
| APCO-GS-CCB-MW-14 | TEMP | Temperature | 2/20/23 11:49 | 18.96 | C |
| APCO-GS-CCB-MW-14 | TURB | Turbidity | 2/20/23 11:49 | 4.51 | NTU |
| APCO-GS-CCB-MW-14 | COND | Conductivity | 2/20/23 11:54 | 2855.22 | uS/cm |
| APCO-GS-CCB-MW-14 | DO | DO | 2/20/23 11:54 | 0.18 | mg/L |
| APCO-GS-CCB-MW-14 | DTW | Depth to Water Detail | 2/20/23 11:54 | 89.16 | ft |
| APCO-GS-CCB-MW-14 | ORP | Oxidation Reduction Potention | 2/20/23 11:54 | 7.65 | mv |
| APCO-GS-CCB-MW-14 | PH | pH | 2/20/23 11:54 | 6.44 | SU |

Plant Gorgas CCB Landfills
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| APCO-GS-CCB-MW-14 | TEMP | Temperature | 2/20/23 11:54 | 18.95 | C |
| APCO-GS-CCB-MW-14 | TURB | Turbidity | 2/20/23 11:54 | 2.69 | NTU |
| APCO-GS-CCB-MW-14 | COND | Conductivity | 2/20/23 11:59 | 2825.5 | uS/cm |
| APCO-GS-CCB-MW-14 | DO | DO | 2/20/23 11:59 | 0.21 | mg/L |
| APCO-GS-CCB-MW-14 | DTW | Depth to Water Detail | 2/20/23 11:59 | 89.16 | ft |
| APCO-GS-CCB-MW-14 | ORP | Oxidation Reduction Potention | 2/20/23 11:59 | 6.39 | mv |
| APCO-GS-CCB-MW-14 | PH | pH | 2/20/23 11:59 | 6.45 | SU |
| APCO-GS-CCB-MW-14 | SULFIDE | Sulfide | 2/20/23 11:59 | 0 | mg/L |
| APCO-GS-CCB-MW-14 | TEMP | Temperature | 2/20/23 11:59 | 19.03 | C |
| APCO-GS-CCB-MW-14 | TURB | Turbidity | 2/20/23 11:59 | 2.26 | NTU |
| APCO-GS-CCB-MW-15 | COND | Conductivity | 2/20/23 12:54 | 2401.92 | uS/cm |
| APCO-GS-CCB-MW-15 | DO | DO | 2/20/23 12:54 | 0.26 | mg/L |
| APCO-GS-CCB-MW-15 | DTW | Depth to Water Detail | 2/20/23 12:54 | 67.96 | ft |
| APCO-GS-CCB-MW-15 | ORP | Oxidation Reduction Potention | 2/20/23 12:54 | 9.58 | mv |
| APCO-GS-CCB-MW-15 | PH | pH | 2/20/23 12:54 | 6.01 | SU |
| APCO-GS-CCB-MW-15 | TEMP | Temperature | 2/20/23 12:54 | 18.84 | C |
| APCO-GS-CCB-MW-15 | TURB | Turbidity | 2/20/23 12:54 | 16.6 | NTU |
| APCO-GS-CCB-MW-15 | COND | Conductivity | 2/20/23 12:59 | 2387.86 | uS/cm |
| APCO-GS-CCB-MW-15 | DO | DO | 2/20/23 12:59 | 1.01 | mg/L |
| APCO-GS-CCB-MW-15 | DTW | Depth to Water Detail | 2/20/23 12:59 | 67.96 | ft |
| APCO-GS-CCB-MW-15 | ORP | Oxidation Reduction Potention | 2/20/23 12:59 | 19.62 | mv |
| APCO-GS-CCB-MW-15 | PH | pH | 2/20/23 12:59 | 5.99 | SU |
| APCO-GS-CCB-MW-15 | TEMP | Temperature | 2/20/23 12:59 | 18.94 | C |
| APCO-GS-CCB-MW-15 | TURB | Turbidity | 2/20/23 12:59 | 11.2 | NTU |
| APCO-GS-CCB-MW-15 | COND | Conductivity | 2/20/23 13:04 | 2388.07 | uS/cm |
| APCO-GS-CCB-MW-15 | DO | DO | 2/20/23 13:04 | 0.46 | mg/L |
| APCO-GS-CCB-MW-15 | DTW | Depth to Water Detail | 2/20/23 13:04 | 67.96 | ft |
| APCO-GS-CCB-MW-15 | ORP | Oxidation Reduction Potention | 2/20/23 13:04 | 8.84 | mv |
| APCO-GS-CCB-MW-15 | PH | pH | 2/20/23 13:04 | 6.04 | SU |
| APCO-GS-CCB-MW-15 | TEMP | Temperature | 2/20/23 13:04 | 18.89 | C |
| APCO-GS-CCB-MW-15 | TURB | Turbidity | 2/20/23 13:04 | 7.21 | NTU |
| APCO-GS-CCB-MW-15 | COND | Conductivity | 2/20/23 13:09 | 2387.01 | uS/cm |
| APCO-GS-CCB-MW-15 | DO | DO | 2/20/23 13:09 | 0.2 | mg/L |
| APCO-GS-CCB-MW-15 | DTW | Depth to Water Detail | 2/20/23 13:09 | 67.96 | ft |
| APCO-GS-CCB-MW-15 | ORP | Oxidation Reduction Potention | 2/20/23 13:09 | 3.52 | mv |
| APCO-GS-CCB-MW-15 | PH | pH | 2/20/23 13:09 | 6.06 | SU |
| APCO-GS-CCB-MW-15 | TEMP | Temperature | 2/20/23 13:09 | 18.86 | C |
| APCO-GS-CCB-MW-15 | TURB | Turbidity | 2/20/23 13:09 | 6.32 | NTU |
| APCO-GS-CCB-MW-15 | COND | Conductivity | 2/20/23 13:14 | 2389.42 | uS/cm |
| APCO-GS-CCB-MW-15 | DO | DO | 2/20/23 13:14 | 0.15 | mg/L |
| APCO-GS-CCB-MW-15 | DTW | Depth to Water Detail | 2/20/23 13:14 | 67.96 | ft |
| APCO-GS-CCB-MW-15 | ORP | Oxidation Reduction Potention | 2/20/23 13:14 | 0.89 | mv |
| APCO-GS-CCB-MW-15 | PH | pH | 2/20/23 13:14 | 6.08 | SU |
| APCO-GS-CCB-MW-15 | SULFIDE | Sulfide | 2/20/23 13:14 | 0 | mg/L |
| APCO-GS-CCB-MW-15 | TEMP | Temperature | 2/20/23 13:14 | 18.93 | C |
| APCO-GS-CCB-MW-15 | TURB | Turbidity | 2/20/23 13:14 | 4.88 | NTU |
| APCO-GS-CCB-MW-16 | COND | Conductivity | 2/20/23 14:03 | 2660.46 | uS/cm |
| APCO-GS-CCB-MW-16 | DO | DO | 2/20/23 14:03 | 0.55 | mg/L |
| APCO-GS-CCB-MW-16 | DTW | Depth to Water Detail | 2/20/23 14:03 | 90.02 | ft |
| APCO-GS-CCB-MW-16 | ORP | Oxidation Reduction Potention | 2/20/23 14:03 | -16.82 | mv |
| APCO-GS-CCB-MW-16 | PH | pH | 2/20/23 14:03 | 6.47 | SU |
| APCO-GS-CCB-MW-16 | TEMP | Temperature | 2/20/23 14:03 | 19.8 | C |
| APCO-GS-CCB-MW-16 | TURB | Turbidity | 2/20/23 14:03 | 3.29 | NTU |
| APCO-GS-CCB-MW-16 | COND | Conductivity | 2/20/23 14:08 | 2654.16 | uS/cm |
| APCO-GS-CCB-MW-16 | DO | DO | 2/20/23 14:08 | 0.5 | mg/L |
| APCO-GS-CCB-MW-16 | DTW | Depth to Water Detail | 2/20/23 14:08 | 90.02 | ft |
| APCO-GS-CCB-MW-16 | ORP | Oxidation Reduction Potention | 2/20/23 14:08 | -15.21 | mv |
| APCO-GS-CCB-MW-16 | PH | pH | 2/20/23 14:08 | 6.48 | SU |
| APCO-GS-CCB-MW-16 | TEMP | Temperature | 2/20/23 14:08 | 19.75 | C |
| APCO-GS-CCB-MW-16 | TURB | Turbidity | 2/20/23 14:08 | 2.98 | NTU |
| APCO-GS-CCB-MW-16 | COND | Conductivity | 2/20/23 14:13 | 2641.99 | uS/cm |
| APCO-GS-CCB-MW-16 | DO | DO | 2/20/23 14:13 | 0.45 | mg/L |
| APCO-GS-CCB-MW-16 | DTW | Depth to Water Detail | 2/20/23 14:13 | 90.02 | ft |

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| APCO-GS-CCB-MW-16 | ORP | Oxidation Reduction Potention | 2/20/23 14:13 | -15.96 | mv |
| APCO-GS-CCB-MW-16 | PH | pH | 2/20/23 14:13 | 6.5 | SU |
| APCO-GS-CCB-MW-16 | TEMP | Temperature | 2/20/23 14:13 | 19.74 | C |
| APCO-GS-CCB-MW-16 | TURB | Turbidity | 2/20/23 14:13 | 3.12 | NTU |
| APCO-GS-CCB-MW-16 | COND | Conductivity | 2/20/23 14:18 | 2630.76 | uS/cm |
| APCO-GS-CCB-MW-16 | DO | DO | 2/20/23 14:18 | 0.49 | mg/L |
| APCO-GS-CCB-MW-16 | DTW | Depth to Water Detail | 2/20/23 14:18 | 90.02 | ft |
| APCO-GS-CCB-MW-16 | ORP | Oxidation Reduction Potention | 2/20/23 14:18 | -15.21 | mv |
| APCO-GS-CCB-MW-16 | PH | pH | 2/20/23 14:18 | 6.51 | SU |
| APCO-GS-CCB-MW-16 | TEMP | Temperature | 2/20/23 14:18 | 19.74 | C |
| APCO-GS-CCB-MW-16 | TURB | Turbidity | 2/20/23 14:18 | 2.49 | NTU |
| APCO-GS-CCB-MW-16 | COND | Conductivity | 2/20/23 14:23 | 2620.89 | uS/cm |
| APCO-GS-CCB-MW-16 | DO | DO | 2/20/23 14:23 | 0.56 | mg/L |
| APCO-GS-CCB-MW-16 | DTW | Depth to Water Detail | 2/20/23 14:23 | 90.02 | ft |
| APCO-GS-CCB-MW-16 | ORP | Oxidation Reduction Potention | 2/20/23 14:23 | -14.46 | mv |
| APCO-GS-CCB-MW-16 | PH | pH | 2/20/23 14:23 | 6.52 | SU |
| APCO-GS-CCB-MW-16 | TEMP | Temperature | 2/20/23 14:23 | 19.7 | C |
| APCO-GS-CCB-MW-16 | TURB | Turbidity | 2/20/23 14:23 | 2.28 | NTU |
| APCO-GS-CCB-MW-16 | COND | Conductivity | 2/20/23 14:28 | 2615.24 | uS/cm |
| APCO-GS-CCB-MW-16 | DO | DO | 2/20/23 14:28 | 0.49 | mg/L |
| APCO-GS-CCB-MW-16 | DTW | Depth to Water Detail | 2/20/23 14:28 | 90.02 | ft |
| APCO-GS-CCB-MW-16 | ORP | Oxidation Reduction Potention | 2/20/23 14:28 | -14.17 | mv |
| APCO-GS-CCB-MW-16 | PH | pH | 2/20/23 14:28 | 6.53 | SU |
| APCO-GS-CCB-MW-16 | TEMP | Temperature | 2/20/23 14:28 | 19.64 | C |
| APCO-GS-CCB-MW-16 | TURB | Turbidity | 2/20/23 14:28 | 3.36 | NTU |
| APCO-GS-CCB-MW-16 | COND | Conductivity | 2/20/23 14:33 | 2608.55 | uS/cm |
| APCO-GS-CCB-MW-16 | DO | DO | 2/20/23 14:33 | 0.55 | mg/L |
| APCO-GS-CCB-MW-16 | DTW | Depth to Water Detail | 2/20/23 14:33 | 90.02 | ft |
| APCO-GS-CCB-MW-16 | ORP | Oxidation Reduction Potention | 2/20/23 14:33 | -13.4 | mv |
| APCO-GS-CCB-MW-16 | PH | pH | 2/20/23 14:33 | 6.53 | SU |
| APCO-GS-CCB-MW-16 | TEMP | Temperature | 2/20/23 14:33 | 19.65 | C |
| APCO-GS-CCB-MW-16 | TURB | Turbidity | 2/20/23 14:33 | 4.33 | NTU |
| APCO-GS-CCB-MW-16 | COND | Conductivity | 2/20/23 14:38 | 2599.95 | uS/cm |
| APCO-GS-CCB-MW-16 | DO | DO | 2/20/23 14:38 | 0.53 | mg/L |
| APCO-GS-CCB-MW-16 | DTW | Depth to Water Detail | 2/20/23 14:38 | 90.02 | ft |
| APCO-GS-CCB-MW-16 | ORP | Oxidation Reduction Potention | 2/20/23 14:38 | -13.14 | mv |
| APCO-GS-CCB-MW-16 | PH | pH | 2/20/23 14:38 | 6.53 | SU |
| APCO-GS-CCB-MW-16 | TEMP | Temperature | 2/20/23 14:38 | 19.66 | C |
| APCO-GS-CCB-MW-16 | TURB | Turbidity | 2/20/23 14:38 | 1.28 | NTU |
| APCO-GS-CCB-MW-16 | COND | Conductivity | 2/20/23 14:43 | 2593.82 | uS/cm |
| APCO-GS-CCB-MW-16 | DO | DO | 2/20/23 14:43 | 0.47 | mg/L |
| APCO-GS-CCB-MW-16 | DTW | Depth to Water Detail | 2/20/23 14:43 | 90.02 | ft |
| APCO-GS-CCB-MW-16 | ORP | Oxidation Reduction Potention | 2/20/23 14:43 | -13.21 | mv |
| APCO-GS-CCB-MW-16 | PH | pH | 2/20/23 14:43 | 6.53 | SU |
| APCO-GS-CCB-MW-16 | SULFIDE | Sulfide | 2/20/23 14:43 | 0 | mg/L |
| APCO-GS-CCB-MW-16 | TEMP | Temperature | 2/20/23 14:43 | 19.63 | C |
| APCO-GS-CCB-MW-16 | TURB | Turbidity | 2/20/23 14:43 | 1.66 | NTU |
| APCO-GS-CCB-MW-17R | COND | Conductivity | 2/21/23 10:20 | 3641.2 | uS/cm |
| APCO-GS-CCB-MW-17R | DO | DO | 2/21/23 10:20 | 0.46 | mg/L |
| APCO-GS-CCB-MW-17R | DTW | Depth to Water Detail | 2/21/23 10:20 | 126.16 | ft |
| APCO-GS-CCB-MW-17R | ORP | Oxidation Reduction Potention | 2/21/23 10:20 | 16.98 | mv |
| APCO-GS-CCB-MW-17R | PH | pH | 2/21/23 10:20 | 5.91 | SU |
| APCO-GS-CCB-MW-17R | TEMP | Temperature | 2/21/23 10:20 | 20.44 | C |
| APCO-GS-CCB-MW-17R | TURB | Turbidity | 2/21/23 10:20 | 2.96 | NTU |
| APCO-GS-CCB-MW-17R | COND | Conductivity | 2/21/23 10:25 | 3630.96 | uS/cm |
| APCO-GS-CCB-MW-17R | DO | DO | 2/21/23 10:25 | 0.28 | mg/L |
| APCO-GS-CCB-MW-17R | DTW | Depth to Water Detail | 2/21/23 10:25 | 126.2 | ft |
| APCO-GS-CCB-MW-17R | ORP | Oxidation Reduction Potention | 2/21/23 10:25 | 14.44 | mv |
| APCO-GS-CCB-MW-17R | PH | pH | 2/21/23 10:25 | 5.98 | SU |
| APCO-GS-CCB-MW-17R | TEMP | Temperature | 2/21/23 10:25 | 20.47 | C |
| APCO-GS-CCB-MW-17R | TURB | Turbidity | 2/21/23 10:25 | 2.1 | NTU |
| APCO-GS-CCB-MW-17R | COND | Conductivity | 2/21/23 10:30 | 3610.53 | uS/cm |
| APCO-GS-CCB-MW-17R | DO | DO | 2/21/23 10:30 | 0.24 | mg/L |

Plant Gorgas CCB Landfills
Field Parameter Summary

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| APCO-GS-CCB-MW-17R | DTW | Depth to Water Detail | 2/21/23 10:30 | 126.23 | ft |
| APCO-GS-CCB-MW-17R | ORP | Oxidation Reduction Potention | 2/21/23 10:30 | 9.58 | mv |
| APCO-GS-CCB-MW-17R | PH | pH | 2/21/23 10:30 | 6.04 | SU |
| APCO-GS-CCB-MW-17R | TEMP | Temperature | 2/21/23 10:30 | 20.45 | C |
| APCO-GS-CCB-MW-17R | TURB | Turbidity | 2/21/23 10:30 | 1.84 | NTU |
| APCO-GS-CCB-MW-17R | COND | Conductivity | 2/21/23 10:35 | 3602.75 | uS/cm |
| APCO-GS-CCB-MW-17R | DO | DO | 2/21/23 10:35 | 0.23 | mg/L |
| APCO-GS-CCB-MW-17R | DTW | Depth to Water Detail | 2/21/23 10:35 | 126.25 | ft |
| APCO-GS-CCB-MW-17R | ORP | Oxidation Reduction Potention | 2/21/23 10:35 | 8.15 | mv |
| APCO-GS-CCB-MW-17R | PH | pH | 2/21/23 10:35 | 6.07 | SU |
| APCO-GS-CCB-MW-17R | SULFIDE | Sulfide | 2/21/23 10:35 | 0 | mg/L |
| APCO-GS-CCB-MW-17R | TEMP | Temperature | 2/21/23 10:35 | 20.41 | C |
| APCO-GS-CCB-MW-17R | TURB | Turbidity | 2/21/23 10:35 | 1.8 | NTU |
| APCO-GS-CCB-MW-18 | COND | Conductivity | 2/21/23 11:22 | 2624.62 | uS/cm |
| APCO-GS-CCB-MW-18 | DO | DO | 2/21/23 11:22 | 4.24 | mg/L |
| APCO-GS-CCB-MW-18 | DTW | Depth to Water Detail | 2/21/23 11:22 | 110.98 | ft |
| APCO-GS-CCB-MW-18 | ORP | Oxidation Reduction Potention | 2/21/23 11:22 | 96.23 | mv |
| APCO-GS-CCB-MW-18 | PH | pH | 2/21/23 11:22 | 6.63 | SU |
| APCO-GS-CCB-MW-18 | TEMP | Temperature | 2/21/23 11:22 | 19.73 | C |
| APCO-GS-CCB-MW-18 | TURB | Turbidity | 2/21/23 11:22 | 1.43 | NTU |
| APCO-GS-CCB-MW-18 | COND | Conductivity | 2/21/23 11:27 | 2622.66 | uS/cm |
| APCO-GS-CCB-MW-18 | DO | DO | 2/21/23 11:27 | 4.23 | mg/L |
| APCO-GS-CCB-MW-18 | DTW | Depth to Water Detail | 2/21/23 11:27 | 110.98 | ft |
| APCO-GS-CCB-MW-18 | ORP | Oxidation Reduction Potention | 2/21/23 11:27 | 107.58 | mv |
| APCO-GS-CCB-MW-18 | PH | pH | 2/21/23 11:27 | 6.63 | SU |
| APCO-GS-CCB-MW-18 | TEMP | Temperature | 2/21/23 11:27 | 19.73 | C |
| APCO-GS-CCB-MW-18 | TURB | Turbidity | 2/21/23 11:27 | 1.11 | NTU |
| APCO-GS-CCB-MW-18 | COND | Conductivity | 2/21/23 11:32 | 2625.28 | uS/cm |
| APCO-GS-CCB-MW-18 | DO | DO | 2/21/23 11:32 | 4.22 | mg/L |
| APCO-GS-CCB-MW-18 | DTW | Depth to Water Detail | 2/21/23 11:32 | 110.98 | ft |
| APCO-GS-CCB-MW-18 | ORP | Oxidation Reduction Potention | 2/21/23 11:32 | 115.31 | mv |
| APCO-GS-CCB-MW-18 | PH | pH | 2/21/23 11:32 | 6.63 | SU |
| APCO-GS-CCB-MW-18 | TEMP | Temperature | 2/21/23 11:32 | 19.74 | C |
| APCO-GS-CCB-MW-18 | TURB | Turbidity | 2/21/23 11:32 | 0.91 | NTU |
| APCO-GS-CCB-MW-18 | COND | Conductivity | 2/21/23 11:37 | 2625.69 | uS/cm |
| APCO-GS-CCB-MW-18 | DO | DO | 2/21/23 11:37 | 4.21 | mg/L |
| APCO-GS-CCB-MW-18 | DTW | Depth to Water Detail | 2/21/23 11:37 | 110.98 | ft |
| APCO-GS-CCB-MW-18 | ORP | Oxidation Reduction Potention | 2/21/23 11:37 | 121.11 | mv |
| APCO-GS-CCB-MW-18 | PH | pH | 2/21/23 11:37 | 6.63 | SU |
| APCO-GS-CCB-MW-18 | SULFIDE | Sulfide | 2/21/23 11:37 | 0 | mg/L |
| APCO-GS-CCB-MW-18 | TEMP | Temperature | 2/21/23 11:37 | 19.76 | C |
| APCO-GS-CCB-MW-18 | TURB | Turbidity | 2/21/23 11:37 | 0.87 | NTU |
| APCO-GS-CCB-MW-19 | COND | Conductivity | 2/21/23 12:28 | 2948.29 | uS/cm |
| APCO-GS-CCB-MW-19 | DO | DO | 2/21/23 12:28 | 0.18 | mg/L |
| APCO-GS-CCB-MW-19 | DTW | Depth to Water Detail | 2/21/23 12:28 | 78.51 | ft |
| APCO-GS-CCB-MW-19 | ORP | Oxidation Reduction Potention | 2/21/23 12:28 | 43.39 | mv |
| APCO-GS-CCB-MW-19 | PH | pH | 2/21/23 12:28 | 6.31 | SU |
| APCO-GS-CCB-MW-19 | TEMP | Temperature | 2/21/23 12:28 | 19.19 | C |
| APCO-GS-CCB-MW-19 | TURB | Turbidity | 2/21/23 12:28 | 3.23 | NTU |
| APCO-GS-CCB-MW-19 | COND | Conductivity | 2/21/23 12:33 | 2968.08 | uS/cm |
| APCO-GS-CCB-MW-19 | DO | DO | 2/21/23 12:33 | 0.14 | mg/L |
| APCO-GS-CCB-MW-19 | DTW | Depth to Water Detail | 2/21/23 12:33 | 78.51 | ft |
| APCO-GS-CCB-MW-19 | ORP | Oxidation Reduction Potention | 2/21/23 12:33 | 40.27 | mv |
| APCO-GS-CCB-MW-19 | PH | pH | 2/21/23 12:33 | 6.32 | SU |
| APCO-GS-CCB-MW-19 | TEMP | Temperature | 2/21/23 12:33 | 19.14 | C |
| APCO-GS-CCB-MW-19 | TURB | Turbidity | 2/21/23 12:33 | 2.42 | NTU |
| APCO-GS-CCB-MW-19 | COND | Conductivity | 2/21/23 12:38 | 2970.58 | uS/cm |
| APCO-GS-CCB-MW-19 | DO | DO | 2/21/23 12:38 | 0.12 | mg/L |
| APCO-GS-CCB-MW-19 | DTW | Depth to Water Detail | 2/21/23 12:38 | 78.51 | ft |
| APCO-GS-CCB-MW-19 | ORP | Oxidation Reduction Potention | 2/21/23 12:38 | 38.52 | mv |
| APCO-GS-CCB-MW-19 | PH | pH | 2/21/23 12:38 | 6.32 | SU |
| APCO-GS-CCB-MW-19 | TEMP | Temperature | 2/21/23 12:38 | 19.21 | C |
| APCO-GS-CCB-MW-19 | TURB | Turbidity | 2/21/23 12:38 | 2.31 | NTU |

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| APCO-GS-CCB-MW-19 | COND | Conductivity | 2/21/23 12:43 | 2971.83 | uS/cm |
| APCO-GS-CCB-MW-19 | DO | DO | 2/21/23 12:43 | 0.12 | mg/L |
| APCO-GS-CCB-MW-19 | DTW | Depth to Water Detail | 2/21/23 12:43 | 78.51 | ft |
| APCO-GS-CCB-MW-19 | ORP | Oxidation Reduction Potention | 2/21/23 12:43 | 37.82 | mv |
| APCO-GS-CCB-MW-19 | PH | pH | 2/21/23 12:43 | 6.32 | SU |
| APCO-GS-CCB-MW-19 | SULFIDE | Sulfide | 2/21/23 12:43 | 0 | mg/L |
| APCO-GS-CCB-MW-19 | TEMP | Temperature | 2/21/23 12:43 | 19.22 | C |
| APCO-GS-CCB-MW-19 | TURB | Turbidity | 2/21/23 12:43 | 2.24 | NTU |
| APCO-GS-CCB-MW-20 | COND | Conductivity | 2/21/23 13:41 | 2691.14 | uS/cm |
| APCO-GS-CCB-MW-20 | DO | DO | 2/21/23 13:41 | 0.09 | mg/L |
| APCO-GS-CCB-MW-20 | DTW | Depth to Water Detail | 2/21/23 13:41 | 20.01 | ft |
| APCO-GS-CCB-MW-20 | ORP | Oxidation Reduction Potention | 2/21/23 13:41 | -70.92 | mv |
| APCO-GS-CCB-MW-20 | PH | pH | 2/21/23 13:41 | 6.81 | SU |
| APCO-GS-CCB-MW-20 | TEMP | Temperature | 2/21/23 13:41 | 19.61 | C |
| APCO-GS-CCB-MW-20 | TURB | Turbidity | 2/21/23 13:41 | 0.81 | NTU |
| APCO-GS-CCB-MW-20 | COND | Conductivity | 2/21/23 13:46 | 2688.55 | uS/cm |
| APCO-GS-CCB-MW-20 | DO | DO | 2/21/23 13:46 | 0.07 | mg/L |
| APCO-GS-CCB-MW-20 | DTW | Depth to Water Detail | 2/21/23 13:46 | 20.12 | ft |
| APCO-GS-CCB-MW-20 | ORP | Oxidation Reduction Potention | 2/21/23 13:46 | -73.55 | mv |
| APCO-GS-CCB-MW-20 | PH | pH | 2/21/23 13:46 | 6.81 | SU |
| APCO-GS-CCB-MW-20 | TEMP | Temperature | 2/21/23 13:46 | 19.52 | C |
| APCO-GS-CCB-MW-20 | TURB | Turbidity | 2/21/23 13:46 | 0.9 | NTU |
| APCO-GS-CCB-MW-20 | COND | Conductivity | 2/21/23 13:51 | 2684.49 | uS/cm |
| APCO-GS-CCB-MW-20 | DO | DO | 2/21/23 13:51 | 0.08 | mg/L |
| APCO-GS-CCB-MW-20 | DTW | Depth to Water Detail | 2/21/23 13:51 | 20.24 | ft |
| APCO-GS-CCB-MW-20 | ORP | Oxidation Reduction Potention | 2/21/23 13:51 | -74.9 | mv |
| APCO-GS-CCB-MW-20 | PH | pH | 2/21/23 13:51 | 6.81 | SU |
| APCO-GS-CCB-MW-20 | TEMP | Temperature | 2/21/23 13:51 | 19.43 | C |
| APCO-GS-CCB-MW-20 | TURB | Turbidity | 2/21/23 13:51 | 0.86 | NTU |
| APCO-GS-CCB-MW-20 | COND | Conductivity | 2/21/23 13:56 | 2686.59 | uS/cm |
| APCO-GS-CCB-MW-20 | DO | DO | 2/21/23 13:56 | 0.07 | mg/L |
| APCO-GS-CCB-MW-20 | DTW | Depth to Water Detail | 2/21/23 13:56 | 20.36 | ft |
| APCO-GS-CCB-MW-20 | ORP | Oxidation Reduction Potention | 2/21/23 13:56 | -76.37 | mv |
| APCO-GS-CCB-MW-20 | PH | pH | 2/21/23 13:56 | 6.81 | SU |
| APCO-GS-CCB-MW-20 | SULFIDE | Sulfide | 2/21/23 13:56 | 0 | mg/L |
| APCO-GS-CCB-MW-20 | TEMP | Temperature | 2/21/23 13:56 | 19.48 | C |
| APCO-GS-CCB-MW-20 | TURB | Turbidity | 2/21/23 13:56 | 0.84 | NTU |
| APCO-GS-CCB-MW-5 | COND | Conductivity | 2/21/23 11:53 | 3404.54 | uS/cm |
| APCO-GS-CCB-MW-5 | DO | DO | 2/21/23 11:53 | 3.4 | mg/L |
| APCO-GS-CCB-MW-5 | DTW | Depth to Water Detail | 2/21/23 11:53 | 125.98 | ft |
| APCO-GS-CCB-MW-5 | ORP | Oxidation Reduction Potention | 2/21/23 11:53 | -12.42 | mv |
| APCO-GS-CCB-MW-5 | PH | pH | 2/21/23 11:53 | 6.63 | SU |
| APCO-GS-CCB-MW-5 | TEMP | Temperature | 2/21/23 11:53 | 19.2 | C |
| APCO-GS-CCB-MW-5 | TURB | Turbidity | 2/21/23 11:53 | 6.34 | NTU |
| APCO-GS-CCB-MW-5 | COND | Conductivity | 2/21/23 11:58 | 3334.06 | uS/cm |
| APCO-GS-CCB-MW-5 | DO | DO | 2/21/23 11:58 | 1.6 | mg/L |
| APCO-GS-CCB-MW-5 | DTW | Depth to Water Detail | 2/21/23 11:58 | 126 | ft |
| APCO-GS-CCB-MW-5 | ORP | Oxidation Reduction Potention | 2/21/23 11:58 | -9.69 | mv |
| APCO-GS-CCB-MW-5 | PH | pH | 2/21/23 11:58 | 6.52 | SU |
| APCO-GS-CCB-MW-5 | TEMP | Temperature | 2/21/23 11:58 | 19.25 | C |
| APCO-GS-CCB-MW-5 | TURB | Turbidity | 2/21/23 11:58 | 7.65 | NTU |
| APCO-GS-CCB-MW-5 | COND | Conductivity | 2/21/23 12:03 | 3312.48 | uS/cm |
| APCO-GS-CCB-MW-5 | DO | DO | 2/21/23 12:03 | 1.04 | mg/L |
| APCO-GS-CCB-MW-5 | DTW | Depth to Water Detail | 2/21/23 12:03 | 126.02 | ft |
| APCO-GS-CCB-MW-5 | ORP | Oxidation Reduction Potention | 2/21/23 12:03 | -10.82 | mv |
| APCO-GS-CCB-MW-5 | PH | pH | 2/21/23 12:03 | 6.49 | SU |
| APCO-GS-CCB-MW-5 | TEMP | Temperature | 2/21/23 12:03 | 19.37 | C |
| APCO-GS-CCB-MW-5 | TURB | Turbidity | 2/21/23 12:03 | 8.11 | NTU |
| APCO-GS-CCB-MW-5 | COND | Conductivity | 2/21/23 12:08 | 3322.97 | uS/cm |
| APCO-GS-CCB-MW-5 | DO | DO | 2/21/23 12:08 | 0.88 | mg/L |
| APCO-GS-CCB-MW-5 | DTW | Depth to Water Detail | 2/21/23 12:08 | 126.04 | ft |
| APCO-GS-CCB-MW-5 | ORP | Oxidation Reduction Potention | 2/21/23 12:08 | -10.26 | mv |
| APCO-GS-CCB-MW-5 | PH | pH | 2/21/23 12:08 | 6.49 | SU |

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| APCO-GS-CCB-MW-5 | TEMP | Temperature | 2/21/23 12:08 | 19.54 | C |
| APCO-GS-CCB-MW-5 | TURB | Turbidity | 2/21/23 12:08 | 6.05 | NTU |
| APCO-GS-CCB-MW-5 | COND | Conductivity | 2/21/23 12:13 | 3339.93 | uS/cm |
| APCO-GS-CCB-MW-5 | DO | DO | 2/21/23 12:13 | 0.81 | mg/L |
| APCO-GS-CCB-MW-5 | DTW | Depth to Water Detail | 2/21/23 12:13 | 126.04 | ft |
| APCO-GS-CCB-MW-5 | ORP | Oxidation Reduction Potention | 2/21/23 12:13 | -8.77 | mv |
| APCO-GS-CCB-MW-5 | PH | pH | 2/21/23 12:13 | 6.49 | SU |
| APCO-GS-CCB-MW-5 | TEMP | Temperature | 2/21/23 12:13 | 19.77 | C |
| APCO-GS-CCB-MW-5 | TURB | Turbidity | 2/21/23 12:13 | 5.69 | NTU |
| APCO-GS-CCB-MW-5 | COND | Conductivity | 2/21/23 12:18 | 3355.12 | uS/cm |
| APCO-GS-CCB-MW-5 | DO | DO | 2/21/23 12:18 | 0.79 | mg/L |
| APCO-GS-CCB-MW-5 | DTW | Depth to Water Detail | 2/21/23 12:18 | 126.04 | ft |
| APCO-GS-CCB-MW-5 | ORP | Oxidation Reduction Potention | 2/21/23 12:18 | -7.67 | mv |
| APCO-GS-CCB-MW-5 | PH | pH | 2/21/23 12:18 | 6.5 | SU |
| APCO-GS-CCB-MW-5 | SULFIDE | Sulfide | 2/21/23 12:18 | 0 | mg/L |
| APCO-GS-CCB-MW-5 | TEMP | Temperature | 2/21/23 12:18 | 19.77 | C |
| APCO-GS-CCB-MW-5 | TURB | Turbidity | 2/21/23 12:18 | 4.48 | NTU |
| APCO-GS-CCB-MW-6 | COND | Conductivity | 2/22/23 13:00 | 2846.88 | uS/cm |
| APCO-GS-CCB-MW-6 | DO | DO | 2/22/23 13:00 | 0.39 | mg/L |
| APCO-GS-CCB-MW-6 | DTW | Depth to Water Detail | 2/22/23 13:00 | 95.49 | ft |
| APCO-GS-CCB-MW-6 | ORP | Oxidation Reduction Potention | 2/22/23 13:00 | 178.79 | mv |
| APCO-GS-CCB-MW-6 | PH | pH | 2/22/23 13:00 | 4.96 | SU |
| APCO-GS-CCB-MW-6 | TEMP | Temperature | 2/22/23 13:00 | 21.25 | C |
| APCO-GS-CCB-MW-6 | TURB | Turbidity | 2/22/23 13:00 | 11.2 | NTU |
| APCO-GS-CCB-MW-6 | COND | Conductivity | 2/22/23 13:05 | 2826.95 | uS/cm |
| APCO-GS-CCB-MW-6 | DO | DO | 2/22/23 13:05 | 0.37 | mg/L |
| APCO-GS-CCB-MW-6 | DTW | Depth to Water Detail | 2/22/23 13:05 | 95.49 | ft |
| APCO-GS-CCB-MW-6 | ORP | Oxidation Reduction Potention | 2/22/23 13:05 | 189.2 | mv |
| APCO-GS-CCB-MW-6 | PH | pH | 2/22/23 13:05 | 4.96 | SU |
| APCO-GS-CCB-MW-6 | TEMP | Temperature | 2/22/23 13:05 | 21.34 | C |
| APCO-GS-CCB-MW-6 | TURB | Turbidity | 2/22/23 13:05 | 9.17 | NTU |
| APCO-GS-CCB-MW-6 | COND | Conductivity | 2/22/23 13:10 | 2800.25 | uS/cm |
| APCO-GS-CCB-MW-6 | DO | DO | 2/22/23 13:10 | 0.46 | mg/L |
| APCO-GS-CCB-MW-6 | DTW | Depth to Water Detail | 2/22/23 13:10 | 95.49 | ft |
| APCO-GS-CCB-MW-6 | ORP | Oxidation Reduction Potention | 2/22/23 13:10 | 191.22 | mv |
| APCO-GS-CCB-MW-6 | PH | pH | 2/22/23 13:10 | 4.98 | SU |
| APCO-GS-CCB-MW-6 | TEMP | Temperature | 2/22/23 13:10 | 21.4 | C |
| APCO-GS-CCB-MW-6 | TURB | Turbidity | 2/22/23 13:10 | 6.72 | NTU |
| APCO-GS-CCB-MW-6 | COND | Conductivity | 2/22/23 13:15 | 2795.15 | uS/cm |
| APCO-GS-CCB-MW-6 | DO | DO | 2/22/23 13:15 | 0.45 | mg/L |
| APCO-GS-CCB-MW-6 | DTW | Depth to Water Detail | 2/22/23 13:15 | 95.49 | ft |
| APCO-GS-CCB-MW-6 | ORP | Oxidation Reduction Potention | 2/22/23 13:15 | 195.75 | mv |
| APCO-GS-CCB-MW-6 | PH | pH | 2/22/23 13:15 | 4.98 | SU |
| APCO-GS-CCB-MW-6 | SULFIDE | Sulfide | 2/22/23 13:15 | 0 | mg/L |
| APCO-GS-CCB-MW-6 | TEMP | Temperature | 2/22/23 13:15 | 21.32 | C |
| APCO-GS-CCB-MW-6 | TURB | Turbidity | 2/22/23 13:15 | 6.33 | NTU |
| APCO-GS-CCB-MW-7 | COND | Conductivity | 2/21/23 14:03 | 2672.87 | uS/cm |
| APCO-GS-CCB-MW-7 | DO | DO | 2/21/23 14:03 | | mg/L |
| APCO-GS-CCB-MW-7 | DTW | Depth to Water Detail | 2/21/23 14:03 | 57.08 | ft |
| APCO-GS-CCB-MW-7 | ORP | Oxidation Reduction Potention | 2/21/23 14:03 | -9.2 | mv |
| APCO-GS-CCB-MW-7 | PH | pH | 2/21/23 14:03 | 6.66 | SU |
| APCO-GS-CCB-MW-7 | TEMP | Temperature | 2/21/23 14:03 | 19.19 | C |
| APCO-GS-CCB-MW-7 | TURB | Turbidity | 2/21/23 14:03 | 1.55 | NTU |
| APCO-GS-CCB-MW-7 | COND | Conductivity | 2/21/23 14:08 | 2646.76 | uS/cm |
| APCO-GS-CCB-MW-7 | DO | DO | 2/21/23 14:08 | 0.96 | mg/L |
| APCO-GS-CCB-MW-7 | DTW | Depth to Water Detail | 2/21/23 14:08 | 57.08 | ft |
| APCO-GS-CCB-MW-7 | ORP | Oxidation Reduction Potention | 2/21/23 14:08 | -8.58 | mv |
| APCO-GS-CCB-MW-7 | PH | pH | 2/21/23 14:08 | 6.69 | SU |
| APCO-GS-CCB-MW-7 | TEMP | Temperature | 2/21/23 14:08 | 19.16 | C |
| APCO-GS-CCB-MW-7 | TURB | Turbidity | 2/21/23 14:08 | 0.79 | NTU |
| APCO-GS-CCB-MW-7 | COND | Conductivity | 2/21/23 14:13 | 2616.13 | uS/cm |
| APCO-GS-CCB-MW-7 | DO | DO | 2/21/23 14:13 | 0.9 | mg/L |
| APCO-GS-CCB-MW-7 | DTW | Depth to Water Detail | 2/21/23 14:13 | 57.08 | ft |

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| APCO-GS-CCB-MW-7 | ORP | Oxidation Reduction Potention | 2/21/23 14:13 | -9.09 | mv |
| APCO-GS-CCB-MW-7 | PH | pH | 2/21/23 14:13 | 6.71 | SU |
| APCO-GS-CCB-MW-7 | TEMP | Temperature | 2/21/23 14:13 | 19.15 | C |
| APCO-GS-CCB-MW-7 | TURB | Turbidity | 2/21/23 14:13 | 0.65 | NTU |
| APCO-GS-CCB-MW-7 | COND | Conductivity | 2/21/23 14:18 | 2594.5 | uS/cm |
| APCO-GS-CCB-MW-7 | DO | DO | 2/21/23 14:18 | 0.87 | mg/L |
| APCO-GS-CCB-MW-7 | DTW | Depth to Water Detail | 2/21/23 14:18 | 57.08 | ft |
| APCO-GS-CCB-MW-7 | ORP | Oxidation Reduction Potention | 2/21/23 14:18 | -7.92 | mv |
| APCO-GS-CCB-MW-7 | PH | pH | 2/21/23 14:18 | 6.72 | SU |
| APCO-GS-CCB-MW-7 | TEMP | Temperature | 2/21/23 14:18 | 19.16 | C |
| APCO-GS-CCB-MW-7 | TURB | Turbidity | 2/21/23 14:18 | 0.78 | NTU |
| APCO-GS-CCB-MW-7 | COND | Conductivity | 2/21/23 14:23 | 2577.99 | uS/cm |
| APCO-GS-CCB-MW-7 | DO | DO | 2/21/23 14:23 | 0.94 | mg/L |
| APCO-GS-CCB-MW-7 | DTW | Depth to Water Detail | 2/21/23 14:23 | 57.08 | ft |
| APCO-GS-CCB-MW-7 | ORP | Oxidation Reduction Potention | 2/21/23 14:23 | -6.78 | mv |
| APCO-GS-CCB-MW-7 | PH | pH | 2/21/23 14:23 | 6.72 | SU |
| APCO-GS-CCB-MW-7 | SULFIDE | Sulfide | 2/21/23 14:23 | 0 | mg/L |
| APCO-GS-CCB-MW-7 | TEMP | Temperature | 2/21/23 14:23 | 19.16 | C |
| APCO-GS-CCB-MW-7 | TURB | Turbidity | 2/21/23 14:23 | 0.53 | NTU |
| APCO-GS-CCB-MW-8 | COND | Conductivity | 2/21/23 14:55 | 2668.1 | uS/cm |
| APCO-GS-CCB-MW-8 | DO | DO | 2/21/23 14:55 | 3.36 | mg/L |
| APCO-GS-CCB-MW-8 | DTW | Depth to Water Detail | 2/21/23 14:55 | 64.74 | ft |
| APCO-GS-CCB-MW-8 | ORP | Oxidation Reduction Potention | 2/21/23 14:55 | 17.12 | mv |
| APCO-GS-CCB-MW-8 | PH | pH | 2/21/23 14:55 | 6.82 | SU |
| APCO-GS-CCB-MW-8 | TEMP | Temperature | 2/21/23 14:55 | 20.58 | C |
| APCO-GS-CCB-MW-8 | TURB | Turbidity | 2/21/23 14:55 | 4.28 | NTU |
| APCO-GS-CCB-MW-8 | COND | Conductivity | 2/21/23 15:00 | 2702.28 | uS/cm |
| APCO-GS-CCB-MW-8 | DO | DO | 2/21/23 15:00 | 1.06 | mg/L |
| APCO-GS-CCB-MW-8 | DTW | Depth to Water Detail | 2/21/23 15:00 | 64.76 | ft |
| APCO-GS-CCB-MW-8 | ORP | Oxidation Reduction Potention | 2/21/23 15:00 | 10.74 | mv |
| APCO-GS-CCB-MW-8 | PH | pH | 2/21/23 15:00 | 6.77 | SU |
| APCO-GS-CCB-MW-8 | TEMP | Temperature | 2/21/23 15:00 | 21.12 | C |
| APCO-GS-CCB-MW-8 | TURB | Turbidity | 2/21/23 15:00 | 19.9 | NTU |
| APCO-GS-CCB-MW-8 | COND | Conductivity | 2/21/23 15:05 | 2696.62 | uS/cm |
| APCO-GS-CCB-MW-8 | DO | DO | 2/21/23 15:05 | 0.87 | mg/L |
| APCO-GS-CCB-MW-8 | DTW | Depth to Water Detail | 2/21/23 15:05 | 64.8 | ft |
| APCO-GS-CCB-MW-8 | ORP | Oxidation Reduction Potention | 2/21/23 15:05 | 7.55 | mv |
| APCO-GS-CCB-MW-8 | PH | pH | 2/21/23 15:05 | 6.76 | SU |
| APCO-GS-CCB-MW-8 | TEMP | Temperature | 2/21/23 15:05 | 20.93 | C |
| APCO-GS-CCB-MW-8 | TURB | Turbidity | 2/21/23 15:05 | 23.5 | NTU |
| APCO-GS-CCB-MW-8 | COND | Conductivity | 2/21/23 15:10 | 2696.47 | uS/cm |
| APCO-GS-CCB-MW-8 | DO | DO | 2/21/23 15:10 | 0.69 | mg/L |
| APCO-GS-CCB-MW-8 | DTW | Depth to Water Detail | 2/21/23 15:10 | 64.8 | ft |
| APCO-GS-CCB-MW-8 | ORP | Oxidation Reduction Potention | 2/21/23 15:10 | 4.9 | mv |
| APCO-GS-CCB-MW-8 | PH | pH | 2/21/23 15:10 | 6.76 | SU |
| APCO-GS-CCB-MW-8 | TEMP | Temperature | 2/21/23 15:10 | 20.71 | C |
| APCO-GS-CCB-MW-8 | TURB | Turbidity | 2/21/23 15:10 | 34.1 | NTU |
| APCO-GS-CCB-MW-8 | COND | Conductivity | 2/21/23 15:15 | 2722.17 | uS/cm |
| APCO-GS-CCB-MW-8 | DO | DO | 2/21/23 15:15 | 0.77 | mg/L |
| APCO-GS-CCB-MW-8 | DTW | Depth to Water Detail | 2/21/23 15:15 | 64.8 | ft |
| APCO-GS-CCB-MW-8 | ORP | Oxidation Reduction Potention | 2/21/23 15:15 | 6.47 | mv |
| APCO-GS-CCB-MW-8 | PH | pH | 2/21/23 15:15 | 6.75 | SU |
| APCO-GS-CCB-MW-8 | TEMP | Temperature | 2/21/23 15:15 | 20.55 | C |
| APCO-GS-CCB-MW-8 | TURB | Turbidity | 2/21/23 15:15 | 28.7 | NTU |
| APCO-GS-CCB-MW-8 | COND | Conductivity | 2/21/23 15:20 | 2722.02 | uS/cm |
| APCO-GS-CCB-MW-8 | DO | DO | 2/21/23 15:20 | 0.54 | mg/L |
| APCO-GS-CCB-MW-8 | DTW | Depth to Water Detail | 2/21/23 15:20 | 64.8 | ft |
| APCO-GS-CCB-MW-8 | ORP | Oxidation Reduction Potention | 2/21/23 15:20 | 5.72 | mv |
| APCO-GS-CCB-MW-8 | PH | pH | 2/21/23 15:20 | 6.75 | SU |
| APCO-GS-CCB-MW-8 | TEMP | Temperature | 2/21/23 15:20 | 20.34 | C |
| APCO-GS-CCB-MW-8 | TURB | Turbidity | 2/21/23 15:20 | 20.6 | NTU |
| APCO-GS-CCB-MW-8 | COND | Conductivity | 2/21/23 15:25 | 2723.67 | uS/cm |
| APCO-GS-CCB-MW-8 | DO | DO | 2/21/23 15:25 | 0.39 | mg/L |

Plant Gorgas CCB Landfills
Field Parameter Summary

| | | | | | |
|-------------------|---------|-------------------------------|---------------|---------|-------|
| APCO-GS-CCB-MW-8 | DTW | Depth to Water Detail | 2/21/23 15:25 | 64.8 | ft |
| APCO-GS-CCB-MW-8 | ORP | Oxidation Reduction Potention | 2/21/23 15:25 | 4.3 | mv |
| APCO-GS-CCB-MW-8 | PH | pH | 2/21/23 15:25 | 6.75 | SU |
| APCO-GS-CCB-MW-8 | TEMP | Temperature | 2/21/23 15:25 | 20.32 | C |
| APCO-GS-CCB-MW-8 | TURB | Turbidity | 2/21/23 15:25 | 15.5 | NTU |
| APCO-GS-CCB-MW-8 | COND | Conductivity | 2/21/23 15:30 | 2724.42 | uS/cm |
| APCO-GS-CCB-MW-8 | DO | DO | 2/21/23 15:30 | 0.34 | mg/L |
| APCO-GS-CCB-MW-8 | DTW | Depth to Water Detail | 2/21/23 15:30 | 64.8 | ft |
| APCO-GS-CCB-MW-8 | ORP | Oxidation Reduction Potention | 2/21/23 15:30 | 3.53 | mv |
| APCO-GS-CCB-MW-8 | PH | pH | 2/21/23 15:30 | 6.75 | SU |
| APCO-GS-CCB-MW-8 | TEMP | Temperature | 2/21/23 15:30 | 20.24 | C |
| APCO-GS-CCB-MW-8 | TURB | Turbidity | 2/21/23 15:30 | 11.4 | NTU |
| APCO-GS-CCB-MW-8 | COND | Conductivity | 2/21/23 15:35 | 2722.64 | uS/cm |
| APCO-GS-CCB-MW-8 | DO | DO | 2/21/23 15:35 | 0.32 | mg/L |
| APCO-GS-CCB-MW-8 | DTW | Depth to Water Detail | 2/21/23 15:35 | 64.8 | ft |
| APCO-GS-CCB-MW-8 | ORP | Oxidation Reduction Potention | 2/21/23 15:35 | 1.47 | mv |
| APCO-GS-CCB-MW-8 | PH | pH | 2/21/23 15:35 | 6.75 | SU |
| APCO-GS-CCB-MW-8 | SULFIDE | Sulfide | 2/21/23 15:35 | 0 | mg/L |
| APCO-GS-CCB-MW-8 | TEMP | Temperature | 2/21/23 15:35 | 20.26 | C |
| APCO-GS-CCB-MW-8 | TURB | Turbidity | 2/21/23 15:35 | 7.56 | NTU |
| APCO-GS-CCB-MW-10 | COND | Conductivity | 2/22/23 14:07 | 1390.68 | uS/cm |
| APCO-GS-CCB-MW-10 | DO | DO | 2/22/23 14:07 | 4.43 | mg/L |
| APCO-GS-CCB-MW-10 | DTW | Depth to Water Detail | 2/22/23 14:07 | 87.36 | ft |
| APCO-GS-CCB-MW-10 | ORP | Oxidation Reduction Potention | 2/22/23 14:07 | 30.85 | mv |
| APCO-GS-CCB-MW-10 | PH | pH | 2/22/23 14:07 | 6.74 | SU |
| APCO-GS-CCB-MW-10 | TEMP | Temperature | 2/22/23 14:07 | 21.43 | C |
| APCO-GS-CCB-MW-10 | TURB | Turbidity | 2/22/23 14:07 | 3.58 | NTU |
| APCO-GS-CCB-MW-10 | COND | Conductivity | 2/22/23 14:12 | 1342.43 | uS/cm |
| APCO-GS-CCB-MW-10 | DO | DO | 2/22/23 14:12 | 1.24 | mg/L |
| APCO-GS-CCB-MW-10 | DTW | Depth to Water Detail | 2/22/23 14:12 | 87.72 | ft |
| APCO-GS-CCB-MW-10 | ORP | Oxidation Reduction Potention | 2/22/23 14:12 | 10.55 | mv |
| APCO-GS-CCB-MW-10 | PH | pH | 2/22/23 14:12 | 6.65 | SU |
| APCO-GS-CCB-MW-10 | TEMP | Temperature | 2/22/23 14:12 | 21.44 | C |
| APCO-GS-CCB-MW-10 | TURB | Turbidity | 2/22/23 14:12 | 5.84 | NTU |
| APCO-GS-CCB-MW-10 | COND | Conductivity | 2/22/23 14:17 | 1321.62 | uS/cm |
| APCO-GS-CCB-MW-10 | DO | DO | 2/22/23 14:17 | 0.8 | mg/L |
| APCO-GS-CCB-MW-10 | DTW | Depth to Water Detail | 2/22/23 14:17 | 87.96 | ft |
| APCO-GS-CCB-MW-10 | ORP | Oxidation Reduction Potention | 2/22/23 14:17 | 4.71 | mv |
| APCO-GS-CCB-MW-10 | PH | pH | 2/22/23 14:17 | 6.65 | SU |
| APCO-GS-CCB-MW-10 | TEMP | Temperature | 2/22/23 14:17 | 21.03 | C |
| APCO-GS-CCB-MW-10 | TURB | Turbidity | 2/22/23 14:17 | 4.84 | NTU |
| APCO-GS-CCB-MW-10 | COND | Conductivity | 2/22/23 14:22 | 1322.16 | uS/cm |
| APCO-GS-CCB-MW-10 | DO | DO | 2/22/23 14:22 | 0.68 | mg/L |
| APCO-GS-CCB-MW-10 | DTW | Depth to Water Detail | 2/22/23 14:22 | 88.08 | ft |
| APCO-GS-CCB-MW-10 | ORP | Oxidation Reduction Potention | 2/22/23 14:22 | 1.64 | mv |
| APCO-GS-CCB-MW-10 | PH | pH | 2/22/23 14:22 | 6.66 | SU |
| APCO-GS-CCB-MW-10 | TEMP | Temperature | 2/22/23 14:22 | 21.36 | C |
| APCO-GS-CCB-MW-10 | TURB | Turbidity | 2/22/23 14:22 | 4 | NTU |
| APCO-GS-CCB-MW-10 | COND | Conductivity | 2/22/23 14:27 | 1326.24 | uS/cm |
| APCO-GS-CCB-MW-10 | DO | DO | 2/22/23 14:27 | 0.68 | mg/L |
| APCO-GS-CCB-MW-10 | DTW | Depth to Water Detail | 2/22/23 14:27 | 88.12 | ft |
| APCO-GS-CCB-MW-10 | ORP | Oxidation Reduction Potention | 2/22/23 14:27 | 1.09 | mv |
| APCO-GS-CCB-MW-10 | PH | pH | 2/22/23 14:27 | 6.67 | SU |
| APCO-GS-CCB-MW-10 | SULFIDE | Sulfide | 2/22/23 14:27 | 0 | mg/L |
| APCO-GS-CCB-MW-10 | TEMP | Temperature | 2/22/23 14:27 | 21.46 | C |
| APCO-GS-CCB-MW-10 | TURB | Turbidity | 2/22/23 14:27 | 3.07 | NTU |

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

Analytical Report



Sample Group : WMWGORLF_1399

Project/Site : Gorgas Landfill
Parrish, AL 35580

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

Attention : Dustin Brooks & Greg Dyer

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

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



March 22, 2023

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on February 23, 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: 2023.03.22
15:42:28 -05'00'

Supervision: **T Durant
Maske**

Digitally signed by T Durant Maske
DN: cn=T Durant Maske,c=US
Organization: Southern Co., Inc.
e=tmaske@southernco.com
Reason: I am the author of this document
Location:
Date: 2023-03-24 07:35:05.00



REPORT OF LABORATORY ANALYSIS

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



Total Metals ICP

Gorgas Landfill

WMWGORLF_1399

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> |
|------------------|-----------------|-------------------|
| BD04069 | 748240 | WMWGORLF_1399 |
| BD04070 | 748240 | WMWGORLF_1399 |
| BD04071 | 748240 | WMWGORLF_1399 |
| BD04072 | 748240 | WMWGORLF_1399 |
| BD04073 | 748240 | WMWGORLF_1399 |
| BD04074 | 748240 | WMWGORLF_1399 |
| BD04075 | 748240 | WMWGORLF_1399 |
| BD04076 | 748240 | WMWGORLF_1399 |
| BD04077 | 748240 | WMWGORLF_1399 |
| BD04078 | 748240 | WMWGORLF_1399 |
| BD04079 | 748241 | WMWGORLF_1399 |
| BD04080 | 748241 | WMWGORLF_1399 |
| BD04081 | 748241 | WMWGORLF_1399 |
| BD04082 | 748241 | WMWGORLF_1399 |
| BD04083 | 748241 | WMWGORLF_1399 |
| BD04084 | 748241 | WMWGORLF_1399 |
| BD04085 | 748241 | WMWGORLF_1399 |
| BD04086 | 748241 | WMWGORLF_1399 |
| BD04087 | 748241 | WMWGORLF_1399 |
| BD04088 | 748241 | WMWGORLF_1399 |
| BD04089 | 748242 | WMWGORLF_1399 |

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:
 - BD04078 Calcium MS/MSD spike levels were less than 30% of the sample concentrations.
 - BD04088 & BD04089 Calcium, Iron, Magnesium and Sodium 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 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> |
|------------------|----------------------------------|------------------------|
| BD04069 | Calcium, Magnesium, Sodium | 101.5 |
| BD04070 | Calcium, Magnesium | 10.15 |
| BD04071 | Calcium, Magnesium | 10.15 |
| BD04072 | Calcium, Iron, Magnesium, Sodium | 10.15 |
| BD04074 | Calcium, Iron, Magnesium, Sodium | 10.15 |
| BD04075 | Calcium, Magnesium | 10.15 |
| BD04076 | Calcium, Magnesium | 10.15 |
| BD04077 | Calcium, Iron, Magnesium | 10.15 |
| BD04078 | Calcium, Magnesium | 10.15 |

Case Narrative

| | | |
|---------|----------------------------------|-------|
| BD04079 | Calcium, Magnesium | 10.15 |
| BD04081 | Calcium, Iron, Magnesium | 101.5 |
| BD04082 | Calcium, Magnesium | 10.15 |
| BD04083 | Calcium, Magnesium | 101.5 |
| BD04084 | Calcium, Magnesium | 101.5 |
| BD04085 | Calcium, Iron, Magnesium, Sodium | 10.15 |
| BD04087 | Calcium, Magnesium, Sodium | 10.15 |
| BD04088 | Calcium, Iron, Magnesium, Sodium | 10.15 |
| BD04089 | Calcium, Iron, Magnesium, Sodium | 101.5 |

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

Dissolved Metals ICP

Gorgas Landfill

WMWGORLF_1399

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> |
|------------------|-----------------|-------------------|
| BD04069 | 748173 | WMWGORLF_1399 |
| BD04070 | 748173 | WMWGORLF_1399 |
| BD04071 | 748173 | WMWGORLF_1399 |
| BD04072 | 748173 | WMWGORLF_1399 |
| BD04074 | 748173 | WMWGORLF_1399 |
| BD04075 | 748173 | WMWGORLF_1399 |
| BD04076 | 748173 | WMWGORLF_1399 |
| BD04077 | 748173 | WMWGORLF_1399 |
| BD04078 | 748173 | WMWGORLF_1399 |
| BD04079 | 748173 | WMWGORLF_1399 |
| BD04081 | 748174 | WMWGORLF_1399 |
| BD04082 | 748174 | WMWGORLF_1399 |
| BD04083 | 748174 | WMWGORLF_1399 |
| BD04084 | 748174 | WMWGORLF_1399 |
| BD04085 | 748174 | WMWGORLF_1399 |
| BD04087 | 748174 | WMWGORLF_1399 |
| BD04088 | 748174 | WMWGORLF_1399 |
| BD04089 | 748174 | WMWGORLF_1399 |

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:
 - BD04079 Calcium and Magnesium MS/MSD spike levels were less than 30% of the sample concentrations.
 - BD04089 Calcium, Iron, Magnesium and Sodium 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> |
|------------------|----------------------------|------------------------|
| BD04069 | Calcium, Magnesium, Sodium | 101.5 |
| BD04070 | Calcium, Magnesium | 10.15 |
| BD04071 | Calcium, Magnesium | 10.15 |
| BD04072 | Calcium, Magnesium, Sodium | 10.15 |
| BD04074 | Calcium, Magnesium, Sodium | 10.15 |
| BD04075 | Calcium, Magnesium | 10.15 |
| BD04076 | Calcium, Magnesium | 10.15 |
| BD04077 | Calcium, Iron, Magnesium | 10.15 |
| BD04078 | Calcium, Magnesium | 10.15 |
| BD04079 | Calcium, Magnesium | 10.15 |
| BD04081 | Calcium, Iron, Magnesium | 101.5 |
| BD04082 | Calcium, Magnesium | 10.15 |
| BD04083 | Calcium, Magnesium | 101.5 |
| BD04084 | Calcium, Magnesium | 101.5 |

| | | |
|---------|----------------------------------|-------|
| BD04085 | Calcium, Iron, Magnesium, Sodium | 10.15 |
| BD04087 | Calcium, Magnesium, Sodium | 10.15 |
| BD04088 | Calcium, Magnesium, Sodium | 10.15 |
| BD04089 | Calcium, Iron, Magnesium, Sodium | 101.5 |

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

Case Narrative

Total Metals ICPMS

Gorgas Landfill

WMWGORLF_1399

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> |
|------------------|-----------------|-------------------|
| BD04069 | 748909 | WMWGORLF_1399 |
| BD04070 | 748909 | WMWGORLF_1399 |
| BD04071 | 748909 | WMWGORLF_1399 |
| BD04072 | 748909 | WMWGORLF_1399 |
| BD04073 | 748909 | WMWGORLF_1399 |
| BD04074 | 748909, 750305 | WMWGORLF_1399 |
| BD04075 | 748909 | WMWGORLF_1399 |
| BD04076 | 748909 | WMWGORLF_1399 |
| BD04077 | 748909 | WMWGORLF_1399 |
| BD04078 | 748909 | WMWGORLF_1399 |
| BD04079 | 748910 | WMWGORLF_1399 |
| BD04080 | 748910 | WMWGORLF_1399 |
| BD04081 | 748910 | WMWGORLF_1399 |
| BD04082 | 748910 | WMWGORLF_1399 |
| BD04083 | 748910 | WMWGORLF_1399 |
| BD04084 | 748910 | WMWGORLF_1399 |
| BD04085 | 748910 | WMWGORLF_1399 |
| BD04086 | 748910 | WMWGORLF_1399 |
| BD04087 | 748910 | WMWGORLF_1399 |
| BD04088 | 748910 | WMWGORLF_1399 |
| BD04089 | 748911 | WMWGORLF_1399 |

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, except for the following:
 - BD04078 & BD04089 Manganese 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 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> |
|------------------|----------------|------------------------|
| BD04070 | Manganese | 5.075 |
| BD04072 | Manganese | 92.365 |
| BD04075 | Manganese | 5.075 |
| BD04076 | Manganese | 5.075 |
| BD04077 | Manganese | 10.15 |
| BD04078 | Manganese | 5.075 |
| BD04079 | Manganese | 5.075 |
| BD04081 | Manganese | 92.365 |
| BD04083 | Manganese | 5.075 |

Case Narrative

| | | |
|---------|-----------|--------|
| BD04084 | Manganese | 5.075 |
| BD04087 | Manganese | 5.075 |
| BD04089 | Manganese | 92.365 |

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

Dissolved Metals ICPMS

Gorgas Landfill

WMWGORLF_1399

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> |
|------------------|-----------------|-------------------|
| BD04069 | 748983 | WMWGORLF_1399 |
| BD04070 | 748983 | WMWGORLF_1399 |
| BD04071 | 748983 | WMWGORLF_1399 |
| BD04072 | 748983 | WMWGORLF_1399 |
| BD04074 | 748983, 750302 | WMWGORLF_1399 |
| BD04075 | 748983 | WMWGORLF_1399 |
| BD04076 | 748983 | WMWGORLF_1399 |
| BD04077 | 748983 | WMWGORLF_1399 |
| BD04078 | 748983 | WMWGORLF_1399 |
| BD04079 | 748983 | WMWGORLF_1399 |
| BD04081 | 748984 | WMWGORLF_1399 |
| BD04082 | 748984 | WMWGORLF_1399 |
| BD04083 | 748984 | WMWGORLF_1399 |
| BD04084 | 748984 | WMWGORLF_1399 |
| BD04085 | 748984 | WMWGORLF_1399 |
| BD04087 | 748984 | WMWGORLF_1399 |
| BD04088 | 748984 | WMWGORLF_1399 |
| BD04089 | 748984 | WMWGORLF_1399 |

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 except for the following:
 - BD04079 & BD04089 Manganese MS/MSD spike levels were less than 30% of the sample concentrations.
 - 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> |
|------------------|----------------|------------------------|
| BD04070 | Manganese | 5.075 |
| BD04072 | Manganese | 92.365 |
| BD04075 | Manganese | 5.075 |
| BD04076 | Manganese | 5.075 |
| BD04077 | Manganese | 10.15 |
| BD04078 | Manganese | 5.075 |
| BD04079 | Manganese | 5.075 |
| BD04081 | Manganese | 92.365 |
| BD04083 | Manganese | 5.075 |
| BD04084 | Manganese | 5.075 |
| BD04087 | Manganese | 5.075 |
| BD04089 | Manganese | 92.365 |

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

Case Narrative



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

Mercury

Gorgas Landfill

WMWGORLF_1399

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> |
|------------------|-----------------|-------------------|
| BD04069 | 748528 | WMWGORLF_1399 |
| BD04070 | 748529 | WMWGORLF_1399 |
| BD04071 | 748529 | WMWGORLF_1399 |
| BD04072 | 748529 | WMWGORLF_1399 |
| BD04073 | 748529 | WMWGORLF_1399 |
| BD04074 | 748529 | WMWGORLF_1399 |
| BD04075 | 748529 | WMWGORLF_1399 |
| BD04076 | 748529 | WMWGORLF_1399 |
| BD04077 | 748529 | WMWGORLF_1399 |
| BD04078 | 748529 | WMWGORLF_1399 |
| BD04079 | 748529 | WMWGORLF_1399 |
| BD04080 | 748530 | WMWGORLF_1399 |
| BD04081 | 748530 | WMWGORLF_1399 |
| BD04082 | 748530 | WMWGORLF_1399 |
| BD04083 | 748530 | WMWGORLF_1399 |
| BD04084 | 748530 | WMWGORLF_1399 |
| BD04085 | 748530 | WMWGORLF_1399 |
| BD04086 | 748530 | WMWGORLF_1399 |
| BD04087 | 748530 | WMWGORLF_1399 |
| BD04088 | 748530 | WMWGORLF_1399 |
| BD04089 | 748530 | WMWGORLF_1399 |

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

General Quality Control Procedures:

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

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

Matrix Specific Quality Control Procedures:

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

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

Total Dissolved Solids

Gorgas Landfill

WMWGORLF_1399

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> |
|------------------|-----------------|-------------------|
| BD04069 | 748199 | WMWGORLF_1399 |
| BD04070 | 748199 | WMWGORLF_1399 |
| BD04071 | 748199 | WMWGORLF_1399 |
| BD04072 | 748199 | WMWGORLF_1399 |
| BD04073 | 748199 | WMWGORLF_1399 |
| BD04074 | 748199 | WMWGORLF_1399 |
| BD04075 | 748199 | WMWGORLF_1399 |
| BD04076 | 748199 | WMWGORLF_1399 |
| BD04077 | 748199 | WMWGORLF_1399 |
| BD04078 | 748199 | WMWGORLF_1399 |
| BD04079 | 748200 | WMWGORLF_1399 |
| BD04080 | 748200 | WMWGORLF_1399 |
| BD04081 | 748200 | WMWGORLF_1399 |
| BD04082 | 748200 | WMWGORLF_1399 |
| BD04083 | 748200 | WMWGORLF_1399 |
| BD04084 | 748200 | WMWGORLF_1399 |
| BD04085 | 748200 | WMWGORLF_1399 |
| BD04086 | 748200 | WMWGORLF_1399 |
| BD04087 | 748200 | WMWGORLF_1399 |
| BD04088 | 748200 | WMWGORLF_1399 |
| BD04089 | 748340 | WMWGORLF_1399 |

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%.

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- 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:
 - BD04073
 - BD04080
 - BD08086

Alkalinity

Gorgas Landfill

WMWGORLF_1399

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> |
|------------------|------------------------|-------------------|
| BD04069 | 749151, 749152, 749153 | WMWGORLF_1399 |
| BD04070 | 749151, 749152, 749153 | WMWGORLF_1399 |
| BD04071 | 749151, 749152, 749153 | WMWGORLF_1399 |
| BD04072 | 749216, 749217, 749218 | WMWGORLF_1399 |
| BD04074 | 749216, 749217, 749218 | WMWGORLF_1399 |
| BD04075 | 749151, 749152, 749153 | WMWGORLF_1399 |
| BD04076 | 749151, 749152, 749153 | WMWGORLF_1399 |
| BD04077 | 749151, 749152, 749153 | WMWGORLF_1399 |
| BD04078 | 749151, 749152, 749153 | WMWGORLF_1399 |
| BD04079 | 749151, 749152, 749153 | WMWGORLF_1399 |
| BD04081 | 749151, 749152, 749153 | WMWGORLF_1399 |
| BD04082 | 749151, 749152, 749153 | WMWGORLF_1399 |
| BD04083 | 749216, 749217, 749218 | WMWGORLF_1399 |
| BD04084 | 749216, 749217, 749218 | WMWGORLF_1399 |
| BD04085 | 749216, 749217, 749218 | WMWGORLF_1399 |
| BD04087 | 749216, 749217, 749218 | WMWGORLF_1399 |
| BD04088 | 749216, 749217, 749218 | WMWGORLF_1399 |
| BD04089 | 749216, 749217, 749218 | WMWGORLF_1399 |

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.

7. The following samples had pH>10 and/or TDS>500mg/L. Therefore, the calculations for carbonate and bicarbonate are estimates:

- BD04069
- BD04070
- BD04071
- BD04072
- BD04074
- BD04075
- BD04076
- BD04077
- BD04078
- BD04079
- BD04081
- BD04082
- BD04083
- BD04084
- BD04085
- BD04087
- BD04088
- BD04089

Anions

Gorgas Landfill

WMWGORLF_1399

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> |
|------------------|------------------------|-------------------|
| BD04069 | 748522, 748557, 748697 | WMWGORLF_1399 |
| BD04070 | 748522, 748557, 748697 | WMWGORLF_1399 |
| BD04071 | 748522, 748557, 748697 | WMWGORLF_1399 |
| BD04072 | 748522, 748557, 748697 | WMWGORLF_1399 |
| BD04073 | 748522, 748557, 748697 | WMWGORLF_1399 |
| BD04074 | 748522, 748557, 748697 | WMWGORLF_1399 |
| BD04075 | 748522, 748557, 748697 | WMWGORLF_1399 |
| BD04076 | 748522, 748557, 748697 | WMWGORLF_1399 |
| BD04077 | 748522, 748557, 748697 | WMWGORLF_1399 |
| BD04078 | 748522, 748557, 748697 | WMWGORLF_1399 |
| BD04079 | 748523, 748558, 748698 | WMWGORLF_1399 |
| BD04080 | 748523, 748558, 748698 | WMWGORLF_1399 |
| BD04081 | 748523, 748558, 748698 | WMWGORLF_1399 |
| BD04082 | 748523, 748558, 748698 | WMWGORLF_1399 |
| BD04083 | 748523, 748558, 748698 | WMWGORLF_1399 |
| BD04084 | 748523, 748558, 748698 | WMWGORLF_1399 |
| BD04085 | 748523, 748558, 748698 | WMWGORLF_1399 |
| BD04086 | 748523, 748558, 748698 | WMWGORLF_1399 |
| BD04087 | 748523, 748558, 748698 | WMWGORLF_1399 |
| BD04088 | 748523, 748558, 748698 | WMWGORLF_1399 |
| BD04089 | 748524, 748559, 748699 | WMWGORLF_1399 |

4. All of the above samples were analyzed and prepared by SM4500 CI E, SM4500 F G, and SM4500 SO4 E.
5. All samples were 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.

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> |
|------------------|-------------------|------------------------|
| BD04069 | Sulfate | 80 |
| BD04070 | Sulfate | 50 |
| BD04071 | Sulfate | 50 |
| BD04072 | Sulfate | 80 |
| BD04074 | Sulfate | 32 |
| BD04075 | Sulfate | 50 |
| BD04076 | Sulfate | 50 |
| BD04077 | Sulfate | 50 |
| BD04078 | Sulfate | 80 |
| BD04079 | Sulfate | 50 |
| BD04081 | Sulfate | 80 |
| BD04082 | Sulfate | 50 |
| BD04083 | Sulfate | 64 |
| BD04084 | Sulfate | 64 |
| BD04085 | Chloride, Sulfate | 5, 50 |
| BD04087 | Chloride, Sulfate | 4, 50 |
| BD04088 | Chloride, Sulfate | 8, 80 |
| BD04089 | Sulfate | 100 |

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

Revision 5

Reported: 3/22/2023

Version: 3.5

COA_CCR

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

Case Narrative



Case Narrative

Nitrate-Nitrite

Gorgas Landfill

WMWGORLF_1399

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> |
|------------------|-----------------|-------------------|
| BD04069 | 748513 | WMWGORLF_1399 |
| BD04070 | 748513 | WMWGORLF_1399 |
| BD04071 | 748513 | WMWGORLF_1399 |
| BD04072 | 748513 | WMWGORLF_1399 |
| BD04073 | 748513 | WMWGORLF_1399 |
| BD04074 | 748513 | WMWGORLF_1399 |
| BD04075 | 748513 | WMWGORLF_1399 |
| BD04076 | 748513 | WMWGORLF_1399 |
| BD04077 | 748513 | WMWGORLF_1399 |
| BD04078 | 748513 | WMWGORLF_1399 |
| BD04079 | 748514 | WMWGORLF_1399 |
| BD04080 | 748514 | WMWGORLF_1399 |
| BD04081 | 748514 | WMWGORLF_1399 |
| BD04082 | 748514 | WMWGORLF_1399 |
| BD04083 | 748514 | WMWGORLF_1399 |
| BD04084 | 748514 | WMWGORLF_1399 |
| BD04085 | 748514 | WMWGORLF_1399 |
| BD04086 | 748514 | WMWGORLF_1399 |
| BD04087 | 748514 | WMWGORLF_1399 |
| BD04088 | 748514 | WMWGORLF_1399 |
| BD04089 | 748515 | WMWGORLF_1399 |

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

General Quality Control Procedures:

- Water baseline report was run and met criteria.
- All calibration met criteria for the requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.

- All continued calibration verification (CCV) were within the acceptance criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and were below limit of detection.
- All continued calibration blanks (CCB) were below the limit of detection.

EPA 353.2 Specific QC:

- Prior to sample analysis, Cadmium coil reduction efficiency check met criteria.
 - Matrix Specific QC:
 - A sample duplicate was run and criteria for precision was met, except for the following:
 - BD04089 Precision is outside of the specification limit.
 - A matrix spike was run and criteria for accuracy was met, except for the following:
 - BD04078 & BD04089 matrix spike recovery is outside of the specification limit.
7. All samples were analyzed without a dilution factor.
 8. The raw data results are shown with dilution factors included.

Total Organic Carbon

Gorgas Landfill

WMWGORLF_1399

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> |
|------------------|-----------------|-------------------|
| BD04069 | 748202 | WMWGORLF_1399 |
| BD04070 | 748202 | WMWGORLF_1399 |
| BD04071 | 748202 | WMWGORLF_1399 |
| BD04072 | 748202 | WMWGORLF_1399 |
| BD04073 | 748202 | WMWGORLF_1399 |
| BD04074 | 748202 | WMWGORLF_1399 |
| BD04075 | 748202 | WMWGORLF_1399 |
| BD04076 | 748202 | WMWGORLF_1399 |
| BD04077 | 748202 | WMWGORLF_1399 |
| BD04078 | 748202 | WMWGORLF_1399 |
| BD04079 | 748203 | WMWGORLF_1399 |
| BD04080 | 748203 | WMWGORLF_1399 |
| BD04081 | 748203 | WMWGORLF_1399 |
| BD04082 | 748203 | WMWGORLF_1399 |
| BD04083 | 748203 | WMWGORLF_1399 |
| BD04084 | 748203 | WMWGORLF_1399 |
| BD04085 | 748203 | WMWGORLF_1399 |
| BD04086 | 748203 | WMWGORLF_1399 |
| BD04087 | 748203 | WMWGORLF_1399 |
| BD04088 | 748203 | WMWGORLF_1399 |
| BD04089 | 748204 | WMWGORLF_1399 |

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, except for the following:
 - BD04078 matrix spike and/or matrix spike duplicate recovery are outside of the specification limit.
 - 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: Gorgas Landfill - MW-5

Location Code: WMWGORLF

Collected: 2/21/23 12:22

Customer ID:

Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04069

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|----------|-------|--------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | | | | | | | |
| * Boron, Total | 2/24/23 13:19 | 2/27/23 15:03 | | 1.015 | 0.0315 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 2/24/23 13:19 | 2/28/23 13:52 | | 101.5 | 367 | mg/L | 7.0035 | 40.6 | |
| * Iron, Total | 2/24/23 13:19 | 2/27/23 15:03 | | 1.015 | 3.88 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 2/24/23 13:19 | 2/27/23 15:03 | | 1.015 | 0.104 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/24/23 13:19 | 3/2/23 12:48 | | 101.5 | 334 | mg/L | 2.1315 | 40.6 | |
| * Silica, Total (calc.) | 2/24/23 13:19 | 2/27/23 15:03 | | 1 | 16.3 | mg/L | | | |
| * Silicon, Total | 2/24/23 13:19 | 2/27/23 15:03 | | 1.015 | 7.63 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/24/23 13:19 | 2/28/23 13:52 | | 101.5 | 47.7 | mg/L | 3.045 | 40.6 | |
| Analytical Method: EPA 200.7 | | | | | | | | | |
| * Boron, Dissolved | 2/23/23 13:36 | 2/27/23 11:19 | | 1.015 | 0.0306 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 2/23/23 13:36 | 2/27/23 13:07 | | 101.5 | 355 | mg/L | 7.0035 | 40.6 | |
| * Iron, Dissolved | 2/23/23 13:36 | 2/27/23 11:19 | | 1.015 | 2.46 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 2/23/23 13:36 | 2/27/23 11:19 | | 1.015 | 0.0939 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/23/23 13:36 | 2/27/23 13:07 | | 101.5 | 359 | mg/L | 2.1315 | 40.6 | |
| * Silica, Dissolved (calc.) | 2/23/23 13:36 | 2/27/23 11:19 | | 1 | 16.0 | mg/L | | | |
| * Silicon, Dissolved | 2/23/23 13:36 | 2/27/23 11:19 | | 1.015 | 7.49 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/23/23 13:36 | 2/27/23 13:07 | | 101.5 | 48.8 | mg/L | 3.045 | 40.6 | |
| Analytical Method: EPA 200.8 | | | | | | | | | |
| * Antimony, Total | 2/24/23 13:19 | 2/27/23 16:45 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/24/23 13:19 | 2/27/23 16:45 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.05075 | U |
| * Arsenic, Total | 2/24/23 13:19 | 2/27/23 16:45 | | 1.015 | 0.000306 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 2/24/23 13:19 | 2/27/23 16:45 | | 1.015 | 0.0121 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 2/24/23 13:19 | 2/27/23 16:45 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/24/23 13:19 | 2/27/23 16:45 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/24/23 13:19 | 2/27/23 16:45 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Total | 2/24/23 13:19 | 2/27/23 16:45 | | 1.015 | 0.000910 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 2/24/23 13:19 | 2/27/23 16:45 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/24/23 13:19 | 2/27/23 16:45 | | 1.015 | 0.394 | mg/L | 0.000152 | 0.001015 | |
| * Molybdenum, Total | 2/24/23 13:19 | 2/27/23 16:45 | | 1.015 | 0.000945 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 2/24/23 13:19 | 2/27/23 16:45 | | 1.015 | 6.20 | 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: Gorgas Landfill - MW-5

Location Code: WMWGORLF
Collected: 2/21/23 12:22
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04069

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------|----------|-------|--------------|-------------------------|----------|----------|---|
| * Selenium, Total | 2/24/23 13:19 | 2/27/23 16:45 | | 1.015 | 0.00124 | mg/L | 0.000508 | 0.001015 | |
| * Thallium, Total | 2/24/23 13:19 | 2/27/23 16:45 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | | | | | | | | |
| <i>Analyst: DLJ</i> | | | | | | | | | |
| * Antimony, Dissolved | 2/23/23 13:36 | 2/23/23 15:05 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/23/23 13:36 | 2/23/23 15:05 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.05075 | U |
| * Arsenic, Dissolved | 2/23/23 13:36 | 2/23/23 15:05 | | 1.015 | 0.000198 | mg/L | 0.000081 | 0.000203 | J |
| * Barium, Dissolved | 2/23/23 13:36 | 2/23/23 15:05 | | 1.015 | 0.0107 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 2/23/23 13:36 | 2/28/23 09:45 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/23/23 13:36 | 2/23/23 15:05 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/23/23 13:36 | 2/23/23 15:05 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/23/23 13:36 | 2/23/23 15:05 | | 1.015 | 0.000976 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 2/23/23 13:36 | 2/23/23 15:05 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/23/23 13:36 | 2/23/23 15:05 | | 1.015 | 0.322 | mg/L | 0.000152 | 0.001015 | |
| * Molybdenum, Dissolved | 2/23/23 13:36 | 2/23/23 15:05 | | 1.015 | 0.000937 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 2/23/23 13:36 | 2/23/23 15:05 | | 1.015 | 5.74 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/23/23 13:36 | 2/23/23 15:05 | | 1.015 | 0.00172 | mg/L | 0.000508 | 0.001015 | |
| * Thallium, Dissolved | 2/23/23 13:36 | 2/23/23 15:05 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | | | | | | | | |
| <i>Analyst: ELH</i> | | | | | | | | | |
| * Mercury, Total by CVAA | 2/27/23 19:37 | 2/28/23 01:36 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | | | | | | | | |
| <i>Analyst: SC</i> | | | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/24/23 10:55 | 2/24/23 10:55 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | | | | | | | | |
| <i>Analyst: ALH</i> | | | | | | | | | |
| * Alkalinity to pH 4.5 | 3/3/23 14:10 | 3/3/23 15:40 | | 1 | 260 | mg CaCO ₃ /L | | | |
| Analytical Method: SM 2540C | | | | | | | | | |
| <i>Analyst: CNJ</i> | | | | | | | | | |
| * Solids, Dissolved | 2/23/23 13:45 | 2/24/23 13:45 | | 1 | 3310 | mg/L | | 178.6 | |
| Analytical Method: SM 4500CO2 D | | | | | | | | | |
| <i>Analyst: ALH</i> | | | | | | | | | |
| * Bicarbonate Alkalinity, (calc.) | 3/3/23 14:10 | 3/3/23 15:40 | | 1 | 260 | mg CaCO ₃ /L | | 1 | A |
| * Carbonate Alkalinity, (calc.) | 3/3/23 14:10 | 3/3/23 15:40 | | 1 | Not Detected | mg CaCO ₃ /L | | 0.5 | A |
| Analytical Method: SM 5310 B | | | | | | | | | |
| <i>Analyst: SC</i> | | | | | | | | | |
| * Total Organic Carbon | 2/23/23 18:05 | 2/23/23 18:05 | | 1 | 1.17 | 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: Gorgas Landfill - MW-5

Location Code: WMWGORLF
Collected: 2/21/23 12:22
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04069

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E Analyst: JCC | | | | | | | | | |
| * Chloride | 2/24/23 14:05 | 2/24/23 14:05 | | 1 | 5.25 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 Analyst: JCC | | | | | | | | | |
| * Fluoride | 2/27/23 12:31 | 2/27/23 12:31 | | 1 | 0.319 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 Analyst: JCC | | | | | | | | | |
| * Sulfate | 3/1/23 13:52 | 3/1/23 13:52 | | 80 | 2210 | mg/L | 48.0 | 160 | |
| Analytical Method: Field Measurements Analyst: TJD | | | | | | | | | |
| Conductivity | 2/21/23 12:18 | 2/21/23 12:18 | | | 3355.12 | uS/cm | | | FA |
| pH | 2/21/23 12:18 | 2/21/23 12:18 | | | 6.50 | SU | | | FA |
| Temperature | 2/21/23 12:18 | 2/21/23 12:18 | | | 19.77 | C | | | FA |
| Turbidity | 2/21/23 12:18 | 2/21/23 12:18 | | | 4.48 | NTU | | | FA |
| Sulfide | 2/21/23 12:18 | 2/21/23 12:18 | | | 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: WMWGORLF

Sample Date: 2/21/23 12:22

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-5

Laboratory ID Number: BD04069

| Sample | Analysis | Units | MB | | | | Standard | Limit | Rec | Limit | Prec | Limit | |
|---------|----------------------|-------|------------|----------|-------|--------|----------|--------|-----------------|-------|-------------|-------|------|
| | | | MB | Limit | Spike | MS | | | | | | | |
| BD04079 | Aluminum, Dissolved | mg/L | -0.000276 | 0.0198 | 0.100 | 0.0898 | 0.0939 | 0.0965 | 0.0850 to 0.115 | 89.8 | 70.0 to 130 | 4.46 | 20.0 |
| BD04078 | Aluminum, Total | mg/L | 0.000405 | 0.0198 | 0.100 | 0.101 | 0.102 | 0.104 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BD04079 | Antimony, Dissolved | mg/L | 0.000346 | 0.00100 | 0.100 | 0.0869 | 0.0903 | 0.0904 | 0.0850 to 0.115 | 86.9 | 70.0 to 130 | 3.84 | 20.0 |
| BD04078 | Antimony, Total | mg/L | 0.000397 | 0.00100 | 0.100 | 0.110 | 0.110 | 0.0988 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 0.00 | 20.0 |
| BD04079 | Arsenic, Dissolved | mg/L | -0.0000191 | 0.000200 | 0.100 | 0.100 | 0.106 | 0.0960 | 0.0850 to 0.115 | 98.2 | 70.0 to 130 | 5.83 | 20.0 |
| BD04078 | Arsenic, Total | mg/L | 0.0000097 | 0.000200 | 0.100 | 0.103 | 0.104 | 0.0999 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.966 | 20.0 |
| BD04079 | Barium, Dissolved | mg/L | -0.0000092 | 0.00100 | 0.100 | 0.105 | 0.108 | 0.0954 | 0.0850 to 0.115 | 94.3 | 70.0 to 130 | 2.82 | 20.0 |
| BD04078 | Barium, Total | mg/L | -0.0000132 | 0.00100 | 0.100 | 0.120 | 0.123 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.47 | 20.0 |
| BD04079 | Beryllium, Dissolved | mg/L | 0.0000161 | 0.000880 | 0.100 | 0.104 | 0.102 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BD04078 | Beryllium, Total | mg/L | 0.0000113 | 0.000880 | 0.100 | 0.0915 | 0.0912 | 0.0997 | 0.0850 to 0.115 | 91.5 | 70.0 to 130 | 0.328 | 20.0 |
| BD04079 | Boron, Dissolved | mg/L | -0.00311 | 0.0650 | 1.00 | 1.09 | 1.08 | 1.01 | 0.850 to 1.15 | 105 | 70.0 to 130 | 0.922 | 20.0 |
| BD04078 | Boron, Total | mg/L | -0.00347 | 0.0650 | 1.00 | 1.08 | 1.07 | 1.00 | 0.850 to 1.15 | 104 | 70.0 to 130 | 0.930 | 20.0 |
| BD04079 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0905 | 0.0950 | 0.0975 | 0.0850 to 0.115 | 90.5 | 70.0 to 130 | 4.85 | 20.0 |
| BD04078 | Cadmium, Total | mg/L | 0.0000042 | 0.000147 | 0.100 | 0.0993 | 0.0984 | 0.104 | 0.0850 to 0.115 | 99.3 | 70.0 to 130 | 0.910 | 20.0 |
| BD04079 | Calcium, Dissolved | mg/L | -0.0143 | 0.152 | 5.00 | 316 | 324 | 5.07 | 4.25 to 5.75 | -360 | 70.0 to 130 | 2.50 | 20.0 |
| BD04078 | Calcium, Total | mg/L | -0.0229 | 0.152 | 5.00 | 296 | 308 | 4.80 | 4.25 to 5.75 | -20.0 | 70.0 to 130 | 3.97 | 20.0 |
| BD04078 | Chloride | mg/L | 0.0274 | 1.00 | 10.0 | 13.1 | 13.0 | 10.1 | 9.00 to 11.0 | 102 | 80.0 to 120 | 0.766 | 20.0 |
| BD04079 | Chromium, Dissolved | mg/L | -0.0000558 | 0.000440 | 0.100 | 0.0917 | 0.0975 | 0.0989 | 0.0850 to 0.115 | 91.7 | 70.0 to 130 | 6.13 | 20.0 |
| BD04078 | Chromium, Total | mg/L | 0.0000667 | 0.000440 | 0.100 | 0.102 | 0.103 | 0.106 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BD04079 | Cobalt, Dissolved | mg/L | -0.0000015 | 0.000147 | 0.100 | 0.0979 | 0.102 | 0.0995 | 0.0850 to 0.115 | 89.1 | 70.0 to 130 | 4.10 | 20.0 |
| BD04078 | Cobalt, Total | mg/L | 0.0000023 | 0.000147 | 0.100 | 0.116 | 0.114 | 0.112 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 1.74 | 20.0 |
| BD04078 | Fluoride | mg/L | 0.0384 | 0.125 | 2.50 | 2.72 | 2.79 | 2.59 | 2.25 to 2.75 | 102 | 80.0 to 120 | 2.54 | 20.0 |
| BD04079 | Iron, Dissolved | mg/L | -0.000232 | 0.0176 | 0.2 | 2.65 | 2.63 | 0.202 | 0.170 to 0.230 | 95.0 | 70.0 to 130 | 0.758 | 20.0 |
| BD04078 | Iron, Total | mg/L | 0.000927 | 0.0176 | 0.2 | 2.70 | 2.68 | 0.200 | 0.170 to 0.230 | 90.0 | 70.0 to 130 | 0.743 | 20.0 |

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

Batch QC Summary

Customer Account: WMWGORLF
Sample Date: 2/21/23 12:22
Customer ID:
Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-5

Laboratory ID Number: BD04069

| Sample | Analysis | Units | MB | | | | Standard | Limit | Rec | Limit | Prec | Limit | |
|---------|------------------------|-------|------------|----------|-------|---------|----------|---------|--------------------|-------|-------------|-------|------|
| | | | MB | Limit | Spike | MS | | | | | | | |
| BD04079 | Lead, Dissolved | mg/L | 0.0000017 | 0.000147 | 0.100 | 0.0928 | 0.101 | 0.100 | 0.0850 to 0.115 | 92.8 | 70.0 to 130 | 8.46 | 20.0 |
| BD04078 | Lead, Total | mg/L | 0.000011 | 0.000147 | 0.100 | 0.107 | 0.108 | 0.112 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.930 | 20.0 |
| BD04079 | Lithium, Dissolved | mg/L | 0.000766 | 0.0154 | 0.200 | 0.228 | 0.225 | 0.194 | 0.170 to 0.230 | 106 | 70.0 to 130 | 1.32 | 20.0 |
| BD04078 | Lithium, Total | mg/L | -0.000337 | 0.0154 | 0.200 | 0.233 | 0.227 | 0.198 | 0.170 to 0.230 | 108 | 70.0 to 130 | 2.61 | 20.0 |
| BD04079 | Magnesium, Dissolved | mg/L | -0.0245 | 0.0462 | 5.00 | 279 | 285 | 5.09 | 4.25 to 5.75 | -240 | 70.0 to 130 | 2.13 | 20.0 |
| BD04078 | Magnesium, Total | mg/L | -0.00494 | 0.0462 | 5.00 | 253 | 252 | 5.01 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.396 | 20.0 |
| BD04079 | Manganese, Dissolved | mg/L | 0.0000252 | 0.00033 | 0.100 | 2.64 | 2.71 | 0.0997 | 0.0850 to 0.115 | 20.0 | 70.0 to 130 | 2.62 | 20.0 |
| BD04078 | Manganese, Total | mg/L | -0.0000306 | 0.00033 | 0.100 | 2.74 | 2.72 | 0.107 | 0.0850 to 0.115 | 10.0 | 70.0 to 130 | 0.733 | 20.0 |
| BD04069 | Mercury, Total by CVAA | mg/L | 1.000E-05 | 0.000500 | 0.004 | 0.00319 | 0.00370 | 0.00393 | 0.00340 to 0.00460 | 79.8 | 70.0 to 130 | 14.8 | 20.0 |
| BD04079 | Molybdenum, Dissolved | mg/L | 0.0000079 | 0.0002 | 0.100 | 0.0959 | 0.0992 | 0.0972 | 0.0850 to 0.115 | 95.4 | 70.0 to 130 | 3.38 | 20.0 |
| BD04078 | Molybdenum, Total | mg/L | 0.000028 | 0.0002 | 0.100 | 0.104 | 0.104 | 0.103 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BD04079 | Potassium, Dissolved | mg/L | -0.00373 | 0.367 | 10.0 | 15.8 | 17.1 | 9.85 | 8.50 to 11.5 | 87.2 | 70.0 to 130 | 7.90 | 20.0 |
| BD04078 | Potassium, Total | mg/L | 0.0259 | 0.367 | 10.0 | 17.7 | 18.2 | 10.3 | 8.50 to 11.5 | 96.7 | 70.0 to 130 | 2.79 | 20.0 |
| BD04079 | Selenium, Dissolved | mg/L | -0.0000434 | 0.00100 | 0.100 | 0.110 | 0.115 | 0.101 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 4.44 | 20.0 |
| BD04078 | Selenium, Total | mg/L | 0.0000768 | 0.00100 | 0.100 | 0.103 | 0.103 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BD04079 | Silicon, Dissolved | mg/L | -0.000019 | 0.0440 | 1.00 | 6.89 | 6.88 | 1.01 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.145 | 20.0 |
| BD04078 | Silicon, Total | mg/L | 0.000121 | 0.0440 | 1.00 | 6.85 | 6.81 | 0.995 | 0.850 to 1.15 | 93.0 | 70.0 to 130 | 0.586 | 20.0 |
| BD04079 | Sodium, Dissolved | mg/L | -0.00164 | 0.0880 | 5.00 | 31.9 | 31.6 | 4.91 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.945 | 20.0 |
| BD04078 | Sodium, Total | mg/L | -0.000766 | 0.0880 | 5.00 | 31.7 | 31.2 | 4.88 | 4.25 to 5.75 | 112 | 70.0 to 130 | 1.59 | 20.0 |
| BD04078 | Sulfate | mg/L | 0.0571 | 2.0 | 1600 | 2960 | 3050 | 19.3 | 18.0 to 22.0 | 101 | 80.0 to 120 | 3.00 | 20.0 |
| BD04079 | Thallium, Dissolved | mg/L | -0.0000047 | 0.000147 | 0.100 | 0.0942 | 0.101 | 0.101 | 0.0850 to 0.115 | 94.2 | 70.0 to 130 | 6.97 | 20.0 |
| BD04078 | Thallium, Total | mg/L | 0.0000046 | 0.000147 | 0.100 | 0.111 | 0.107 | 0.110 | 0.0850 to 0.115 | 111 | 70.0 to 130 | 3.67 | 20.0 |
| BD04078 | Total Organic Carbon | mg/L | 0.0924 | 1.00 | 10.0 | 11.5 | 13.9 | 25.5 | | 104 | 80.0 to 120 | 18.9 | 20.0 |

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

Batch QC Summary

Customer Account: WMWGORLF

Sample Date: 2/21/23 12:22

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-5

Laboratory ID Number: BD04069

| Sample | Analysis | Units | MB | MB | | | Sample Duplicate | Standard Standard | Standard | | | Rec Rec | Limit Limit | Prec Prec | Limit Limit |
|---------|---------------------------|-------------------------|------|-------|-------|------|------------------|-------------------|--------------|-----|-------------|---------|-------------|-----------|-------------|
| | | | | Limit | Spike | MS | | | Limit | Rec | Prec | | | | |
| BD04082 | Alkalinity to pH 4.5 | mg CaCO ₃ /L | | | | | 144 | 49.9 | 45.0 to 55.0 | | | | 0.00 | 10.0 | |
| BD04078 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.00 | 0.200 | 2.00 | 2.23 | 0.022 | 1.83 | 1.80 to 2.20 | 112 | 90.0 to 110 | 0.00 | 15.0 | | |
| BD04078 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 2260 | 50.0 | 40.0 to 60.0 | | | 3.05 | 10.0 | | |

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

Certificate Of Analysis

Description: Gorgas Landfill - MW-7

Location Code: WMWGORLF
Collected: 2/21/23 14:25
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04070

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|----------|-------|--------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | | | | | | | |
| * Boron, Total | 2/24/23 13:19 | 2/27/23 15:07 | | 1.015 | 0.0645 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 2/24/23 13:19 | 2/28/23 13:56 | | 10.15 | 286 | mg/L | 0.70035 | 4.06 | |
| * Iron, Total | 2/24/23 13:19 | 2/27/23 15:07 | | 1.015 | 2.07 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 2/24/23 13:19 | 2/27/23 15:07 | | 1.015 | 0.0932 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/24/23 13:19 | 3/2/23 12:51 | | 10.15 | 262 | mg/L | 0.21315 | 4.06 | |
| * Silica, Total (calc.) | 2/24/23 13:19 | 2/27/23 15:07 | | 1 | 10.4 | mg/L | | | |
| * Silicon, Total | 2/24/23 13:19 | 2/27/23 15:07 | | 1.015 | 4.88 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/24/23 13:19 | 2/27/23 15:07 | | 1.015 | 38.1 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | | | | | | | | |
| * Boron, Dissolved | 2/23/23 13:36 | 2/27/23 11:22 | | 1.015 | 0.0664 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 2/23/23 13:36 | 2/27/23 13:10 | | 10.15 | 299 | mg/L | 0.70035 | 4.06 | |
| * Iron, Dissolved | 2/23/23 13:36 | 2/27/23 11:22 | | 1.015 | 2.15 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 2/23/23 13:36 | 2/27/23 11:22 | | 1.015 | 0.0892 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/23/23 13:36 | 2/27/23 13:10 | | 10.15 | 281 | mg/L | 0.21315 | 4.06 | |
| * Silica, Dissolved (calc.) | 2/23/23 13:36 | 2/27/23 11:22 | | 1 | 10.7 | mg/L | | | |
| * Silicon, Dissolved | 2/23/23 13:36 | 2/27/23 11:22 | | 1.015 | 5.01 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/23/23 13:36 | 2/27/23 11:22 | | 1.015 | 37.6 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | | | | | | | | |
| * Antimony, Total | 2/24/23 13:19 | 2/27/23 16:48 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/24/23 13:19 | 2/27/23 16:48 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.05075 | U |
| * Arsenic, Total | 2/24/23 13:19 | 2/27/23 16:48 | | 1.015 | 0.00153 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 2/24/23 13:19 | 2/27/23 16:48 | | 1.015 | 0.0141 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 2/24/23 13:19 | 2/27/23 16:48 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/24/23 13:19 | 2/27/23 16:48 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/24/23 13:19 | 2/27/23 16:48 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Total | 2/24/23 13:19 | 2/27/23 16:48 | | 1.015 | 0.00430 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 2/24/23 13:19 | 2/27/23 16:48 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/24/23 13:19 | 2/27/23 18:52 | | 5.075 | 2.10 | mg/L | 0.000761 | 0.005075 | |
| * Molybdenum, Total | 2/24/23 13:19 | 2/27/23 16:48 | | 1.015 | 0.00103 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 2/24/23 13:19 | 2/27/23 16:48 | | 1.015 | 6.61 | 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: Gorgas Landfill - MW-7

Location Code: WMWGORLF
Collected: 2/21/23 14:25
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04070

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------|----------|-------|--------------|-------------------------|----------|----------|---|
| * Selenium, Total | 2/24/23 13:19 | 2/27/23 16:48 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/24/23 13:19 | 2/27/23 16:48 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | | | | | | | | |
| <i>Analyst: DLJ</i> | | | | | | | | | |
| * Antimony, Dissolved | 2/23/23 13:36 | 2/23/23 15:09 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/23/23 13:36 | 2/23/23 15:09 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.05075 | U |
| * Arsenic, Dissolved | 2/23/23 13:36 | 2/23/23 15:09 | | 1.015 | 0.00162 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 2/23/23 13:36 | 2/23/23 15:09 | | 1.015 | 0.0131 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 2/23/23 13:36 | 2/28/23 09:48 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/23/23 13:36 | 2/23/23 15:09 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/23/23 13:36 | 2/23/23 15:09 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/23/23 13:36 | 2/23/23 15:09 | | 1.015 | 0.00381 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 2/23/23 13:36 | 2/23/23 15:09 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/23/23 13:36 | 2/28/23 11:27 | | 5.075 | 2.10 | mg/L | 0.000761 | 0.005075 | |
| * Molybdenum, Dissolved | 2/23/23 13:36 | 2/23/23 15:09 | | 1.015 | 0.000885 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 2/23/23 13:36 | 2/23/23 15:09 | | 1.015 | 6.20 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/23/23 13:36 | 2/23/23 15:09 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/23/23 13:36 | 2/23/23 15:09 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | | | | | | | | |
| <i>Analyst: ELH</i> | | | | | | | | | |
| * Mercury, Total by CVAA | 2/27/23 19:37 | 2/28/23 02:04 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | | | | | | | | |
| <i>Analyst: SC</i> | | | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/24/23 10:56 | 2/24/23 10:56 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | | | | | | | | |
| <i>Analyst: ALH</i> | | | | | | | | | |
| * Alkalinity to pH 4.5 | 3/3/23 14:10 | 3/3/23 15:40 | | 1 | 296 | mg CaCO ₃ /L | | 0.10 | |
| Analytical Method: SM 2540C | | | | | | | | | |
| <i>Analyst: CNJ</i> | | | | | | | | | |
| * Solids, Dissolved | 2/23/23 13:45 | 2/24/23 13:45 | | 1 | 2220 | mg/L | | 125 | |
| Analytical Method: SM 4500CO2 D | | | | | | | | | |
| <i>Analyst: ALH</i> | | | | | | | | | |
| * Bicarbonate Alkalinity, (calc.) | 3/3/23 14:10 | 3/3/23 15:40 | | 1 | 296 | mg CaCO ₃ /L | | 1 | A |
| * Carbonate Alkalinity, (calc.) | 3/3/23 14:10 | 3/3/23 15:40 | | 1 | Not Detected | mg CaCO ₃ /L | | 0.5 | A |
| Analytical Method: SM 5310 B | | | | | | | | | |
| <i>Analyst: SC</i> | | | | | | | | | |
| * Total Organic Carbon | 2/23/23 18:23 | 2/23/23 18:23 | | 1 | 1.91 | 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: Gorgas Landfill - MW-7

Location Code: WMWGORLF
Collected: 2/21/23 14:25
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04070

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E <i>Analyst: JCC</i> | | | | | | | | | |
| * Chloride | 2/24/23 14:06 | 2/24/23 14:06 | | 1 | 6.12 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 <i>Analyst: JCC</i> | | | | | | | | | |
| * Fluoride | 2/27/23 12:32 | 2/27/23 12:32 | | 1 | 0.216 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 <i>Analyst: JCC</i> | | | | | | | | | |
| * Sulfate | 3/1/23 13:53 | 3/1/23 13:53 | | 50 | 1450 | mg/L | 30.0 | 100 | |
| Analytical Method: Field Measurements <i>Analyst: TJD</i> | | | | | | | | | |
| Conductivity | 2/21/23 14:23 | 2/21/23 14:23 | | | 2577.99 | uS/cm | | | FA |
| pH | 2/21/23 14:23 | 2/21/23 14:23 | | | 6.72 | SU | | | FA |
| Temperature | 2/21/23 14:23 | 2/21/23 14:23 | | | 19.16 | C | | | FA |
| Turbidity | 2/21/23 14:23 | 2/21/23 14:23 | | | 0.53 | NTU | | | FA |
| Sulfide | 2/21/23 14:23 | 2/21/23 14:23 | | | 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: WMWGORLF

Sample Date: 2/21/23 14:25

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-7

Laboratory ID Number: BD04070

| Sample | Analysis | Units | MB | | | | Standard | Limit | Rec | Limit | Prec | Limit | |
|---------|----------------------|-------|------------|----------|-------|--------|----------|--------|-----------------|-------|-------------|-------|------|
| | | | MB | Limit | Spike | MS | | | | | | | |
| BD04079 | Aluminum, Dissolved | mg/L | -0.000276 | 0.0198 | 0.100 | 0.0898 | 0.0939 | 0.0965 | 0.0850 to 0.115 | 89.8 | 70.0 to 130 | 4.46 | 20.0 |
| BD04078 | Aluminum, Total | mg/L | 0.000405 | 0.0198 | 0.100 | 0.101 | 0.102 | 0.104 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BD04079 | Antimony, Dissolved | mg/L | 0.000346 | 0.00100 | 0.100 | 0.0869 | 0.0903 | 0.0904 | 0.0850 to 0.115 | 86.9 | 70.0 to 130 | 3.84 | 20.0 |
| BD04078 | Antimony, Total | mg/L | 0.000397 | 0.00100 | 0.100 | 0.110 | 0.110 | 0.0988 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 0.00 | 20.0 |
| BD04079 | Arsenic, Dissolved | mg/L | -0.0000191 | 0.000200 | 0.100 | 0.100 | 0.106 | 0.0960 | 0.0850 to 0.115 | 98.2 | 70.0 to 130 | 5.83 | 20.0 |
| BD04078 | Arsenic, Total | mg/L | 0.0000097 | 0.000200 | 0.100 | 0.103 | 0.104 | 0.0999 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.966 | 20.0 |
| BD04079 | Barium, Dissolved | mg/L | -0.0000092 | 0.00100 | 0.100 | 0.105 | 0.108 | 0.0954 | 0.0850 to 0.115 | 94.3 | 70.0 to 130 | 2.82 | 20.0 |
| BD04078 | Barium, Total | mg/L | -0.0000132 | 0.00100 | 0.100 | 0.120 | 0.123 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.47 | 20.0 |
| BD04079 | Beryllium, Dissolved | mg/L | 0.0000161 | 0.000880 | 0.100 | 0.104 | 0.102 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BD04078 | Beryllium, Total | mg/L | 0.0000113 | 0.000880 | 0.100 | 0.0915 | 0.0912 | 0.0997 | 0.0850 to 0.115 | 91.5 | 70.0 to 130 | 0.328 | 20.0 |
| BD04079 | Boron, Dissolved | mg/L | -0.00311 | 0.0650 | 1.00 | 1.09 | 1.08 | 1.01 | 0.850 to 1.15 | 105 | 70.0 to 130 | 0.922 | 20.0 |
| BD04078 | Boron, Total | mg/L | -0.00347 | 0.0650 | 1.00 | 1.08 | 1.07 | 1.00 | 0.850 to 1.15 | 104 | 70.0 to 130 | 0.930 | 20.0 |
| BD04079 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0905 | 0.0950 | 0.0975 | 0.0850 to 0.115 | 90.5 | 70.0 to 130 | 4.85 | 20.0 |
| BD04078 | Cadmium, Total | mg/L | 0.0000042 | 0.000147 | 0.100 | 0.0993 | 0.0984 | 0.104 | 0.0850 to 0.115 | 99.3 | 70.0 to 130 | 0.910 | 20.0 |
| BD04079 | Calcium, Dissolved | mg/L | -0.0143 | 0.152 | 5.00 | 316 | 324 | 5.07 | 4.25 to 5.75 | -360 | 70.0 to 130 | 2.50 | 20.0 |
| BD04078 | Calcium, Total | mg/L | -0.0229 | 0.152 | 5.00 | 296 | 308 | 4.80 | 4.25 to 5.75 | -20.0 | 70.0 to 130 | 3.97 | 20.0 |
| BD04078 | Chloride | mg/L | 0.0274 | 1.00 | 10.0 | 13.1 | 13.0 | 10.1 | 9.00 to 11.0 | 102 | 80.0 to 120 | 0.766 | 20.0 |
| BD04079 | Chromium, Dissolved | mg/L | -0.0000558 | 0.000440 | 0.100 | 0.0917 | 0.0975 | 0.0989 | 0.0850 to 0.115 | 91.7 | 70.0 to 130 | 6.13 | 20.0 |
| BD04078 | Chromium, Total | mg/L | 0.0000667 | 0.000440 | 0.100 | 0.102 | 0.103 | 0.106 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BD04079 | Cobalt, Dissolved | mg/L | -0.0000015 | 0.000147 | 0.100 | 0.0979 | 0.102 | 0.0995 | 0.0850 to 0.115 | 89.1 | 70.0 to 130 | 4.10 | 20.0 |
| BD04078 | Cobalt, Total | mg/L | 0.0000023 | 0.000147 | 0.100 | 0.116 | 0.114 | 0.112 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 1.74 | 20.0 |
| BD04078 | Fluoride | mg/L | 0.0384 | 0.125 | 2.50 | 2.72 | 2.79 | 2.59 | 2.25 to 2.75 | 102 | 80.0 to 120 | 2.54 | 20.0 |
| BD04079 | Iron, Dissolved | mg/L | -0.000232 | 0.0176 | 0.2 | 2.65 | 2.63 | 0.202 | 0.170 to 0.230 | 95.0 | 70.0 to 130 | 0.758 | 20.0 |
| BD04078 | Iron, Total | mg/L | 0.000927 | 0.0176 | 0.2 | 2.70 | 2.68 | 0.200 | 0.170 to 0.230 | 90.0 | 70.0 to 130 | 0.743 | 20.0 |

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

Batch QC Summary

Customer Account: WMWGORLF

Sample Date: 2/21/23 14:25

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-7

Laboratory ID Number: BD04070

| Sample | Analysis | Units | MB | | | | Standard | Limit | Rec | Limit | Prec | Limit | |
|---------|------------------------|-------|------------|----------|-------|---------|----------|---------|--------------------|-------|-------------|-------|------|
| | | | MB | Limit | Spike | MS | | | | | | | |
| BD04079 | Lead, Dissolved | mg/L | 0.0000017 | 0.000147 | 0.100 | 0.0928 | 0.101 | 0.100 | 0.0850 to 0.115 | 92.8 | 70.0 to 130 | 8.46 | 20.0 |
| BD04078 | Lead, Total | mg/L | 0.000011 | 0.000147 | 0.100 | 0.107 | 0.108 | 0.112 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.930 | 20.0 |
| BD04079 | Lithium, Dissolved | mg/L | 0.000766 | 0.0154 | 0.200 | 0.228 | 0.225 | 0.194 | 0.170 to 0.230 | 106 | 70.0 to 130 | 1.32 | 20.0 |
| BD04078 | Lithium, Total | mg/L | -0.000337 | 0.0154 | 0.200 | 0.233 | 0.227 | 0.198 | 0.170 to 0.230 | 108 | 70.0 to 130 | 2.61 | 20.0 |
| BD04079 | Magnesium, Dissolved | mg/L | -0.0245 | 0.0462 | 5.00 | 279 | 285 | 5.09 | 4.25 to 5.75 | -240 | 70.0 to 130 | 2.13 | 20.0 |
| BD04078 | Magnesium, Total | mg/L | -0.00494 | 0.0462 | 5.00 | 253 | 252 | 5.01 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.396 | 20.0 |
| BD04079 | Manganese, Dissolved | mg/L | 0.0000252 | 0.00033 | 0.100 | 2.64 | 2.71 | 0.0997 | 0.0850 to 0.115 | 20.0 | 70.0 to 130 | 2.62 | 20.0 |
| BD04078 | Manganese, Total | mg/L | -0.0000306 | 0.00033 | 0.100 | 2.74 | 2.72 | 0.107 | 0.0850 to 0.115 | 10.0 | 70.0 to 130 | 0.733 | 20.0 |
| BD04079 | Mercury, Total by CVAA | mg/L | -1.000E-05 | 0.000500 | 0.004 | 0.00376 | 0.00369 | 0.00348 | 0.00340 to 0.00460 | 94.0 | 70.0 to 130 | 1.88 | 20.0 |
| BD04079 | Molybdenum, Dissolved | mg/L | 0.0000079 | 0.0002 | 0.100 | 0.0959 | 0.0992 | 0.0972 | 0.0850 to 0.115 | 95.4 | 70.0 to 130 | 3.38 | 20.0 |
| BD04078 | Molybdenum, Total | mg/L | 0.000028 | 0.0002 | 0.100 | 0.104 | 0.104 | 0.103 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BD04079 | Potassium, Dissolved | mg/L | -0.00373 | 0.367 | 10.0 | 15.8 | 17.1 | 9.85 | 8.50 to 11.5 | 87.2 | 70.0 to 130 | 7.90 | 20.0 |
| BD04078 | Potassium, Total | mg/L | 0.0259 | 0.367 | 10.0 | 17.7 | 18.2 | 10.3 | 8.50 to 11.5 | 96.7 | 70.0 to 130 | 2.79 | 20.0 |
| BD04079 | Selenium, Dissolved | mg/L | -0.0000434 | 0.00100 | 0.100 | 0.110 | 0.115 | 0.101 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 4.44 | 20.0 |
| BD04078 | Selenium, Total | mg/L | 0.0000768 | 0.00100 | 0.100 | 0.103 | 0.103 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BD04079 | Silicon, Dissolved | mg/L | -0.000019 | 0.0440 | 1.00 | 6.89 | 6.88 | 1.01 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.145 | 20.0 |
| BD04078 | Silicon, Total | mg/L | 0.000121 | 0.0440 | 1.00 | 6.85 | 6.81 | 0.995 | 0.850 to 1.15 | 93.0 | 70.0 to 130 | 0.586 | 20.0 |
| BD04079 | Sodium, Dissolved | mg/L | -0.00164 | 0.0880 | 5.00 | 31.9 | 31.6 | 4.91 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.945 | 20.0 |
| BD04078 | Sodium, Total | mg/L | -0.000766 | 0.0880 | 5.00 | 31.7 | 31.2 | 4.88 | 4.25 to 5.75 | 112 | 70.0 to 130 | 1.59 | 20.0 |
| BD04078 | Sulfate | mg/L | 0.0571 | 2.0 | 1600 | 2960 | 3050 | 19.3 | 18.0 to 22.0 | 101 | 80.0 to 120 | 3.00 | 20.0 |
| BD04079 | Thallium, Dissolved | mg/L | -0.0000047 | 0.000147 | 0.100 | 0.0942 | 0.101 | 0.101 | 0.0850 to 0.115 | 94.2 | 70.0 to 130 | 6.97 | 20.0 |
| BD04078 | Thallium, Total | mg/L | 0.0000046 | 0.000147 | 0.100 | 0.111 | 0.107 | 0.110 | 0.0850 to 0.115 | 111 | 70.0 to 130 | 3.67 | 20.0 |
| BD04078 | Total Organic Carbon | mg/L | 0.0924 | 1.00 | 10.0 | 11.5 | 13.9 | 25.5 | | 104 | 80.0 to 120 | 18.9 | 20.0 |

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

Batch QC Summary

Customer Account: WMWGORLF

Sample Date: 2/21/23 14:25

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-7

Laboratory ID Number: BD04070

| Sample | Analysis | Units | MB | MB | | | Sample Duplicate | Standard Standard | Standard | | | Rec Rec | Limit Limit | Prec Prec | Limit Limit |
|---------|---------------------------|-------------------------|------|-------|-------|------|------------------|-------------------|--------------|-----|-------------|---------|-------------|-----------|-------------|
| | | | | Limit | Spike | MS | | | Limit | Rec | Prec | | | | |
| BD04082 | Alkalinity to pH 4.5 | mg CaCO ₃ /L | | | | | 144 | 49.9 | 45.0 to 55.0 | | | | 0.00 | 10.0 | |
| BD04078 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.00 | 0.200 | 2.00 | 2.23 | 0.022 | 1.83 | 1.80 to 2.20 | 112 | 90.0 to 110 | 0.00 | 15.0 | | |
| BD04078 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 2260 | 50.0 | 40.0 to 60.0 | | | 3.05 | 10.0 | | |

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

Certificate Of Analysis

Description: Gorgas Landfill - MW-8

Location Code: WMWGORLF
Collected: 2/21/23 15:40
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04071

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|----------|-------|--------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | | | | | | | |
| * Boron, Total | 2/24/23 13:19 | 2/27/23 15:10 | | 1.015 | 0.0609 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 2/24/23 13:19 | 2/28/23 13:59 | | 10.15 | 327 | mg/L | 0.70035 | 4.06 | |
| * Iron, Total | 2/24/23 13:19 | 2/27/23 15:10 | | 1.015 | 2.45 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 2/24/23 13:19 | 2/27/23 15:10 | | 1.015 | 0.120 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/24/23 13:19 | 3/2/23 12:54 | | 10.15 | 293 | mg/L | 0.21315 | 4.06 | |
| * Silica, Total (calc.) | 2/24/23 13:19 | 2/27/23 15:10 | | 1 | 11.1 | mg/L | | | |
| * Silicon, Total | 2/24/23 13:19 | 2/27/23 15:10 | | 1.015 | 5.21 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/24/23 13:19 | 2/27/23 15:10 | | 1.015 | 36.1 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | | | | | | | | |
| * Boron, Dissolved | 2/23/23 13:36 | 2/27/23 11:25 | | 1.015 | 0.0617 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 2/23/23 13:36 | 2/27/23 13:13 | | 10.15 | 317 | mg/L | 0.70035 | 4.06 | |
| * Iron, Dissolved | 2/23/23 13:36 | 2/27/23 11:25 | | 1.015 | 1.37 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 2/23/23 13:36 | 2/27/23 11:25 | | 1.015 | 0.119 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/23/23 13:36 | 2/27/23 13:13 | | 10.15 | 321 | mg/L | 0.21315 | 4.06 | |
| * Silica, Dissolved (calc.) | 2/23/23 13:36 | 2/27/23 11:25 | | 1 | 11.2 | mg/L | | | |
| * Silicon, Dissolved | 2/23/23 13:36 | 2/27/23 11:25 | | 1.015 | 5.25 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/23/23 13:36 | 2/27/23 11:25 | | 1.015 | 36.7 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | | | | | | | | |
| * Antimony, Total | 2/24/23 13:19 | 2/27/23 16:52 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/24/23 13:19 | 2/27/23 16:52 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.05075 | U |
| * Arsenic, Total | 2/24/23 13:19 | 2/27/23 16:52 | | 1.015 | 0.00119 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 2/24/23 13:19 | 2/27/23 16:52 | | 1.015 | 0.0148 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 2/24/23 13:19 | 2/27/23 16:52 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/24/23 13:19 | 2/27/23 16:52 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/24/23 13:19 | 2/27/23 16:52 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Total | 2/24/23 13:19 | 2/27/23 16:52 | | 1.015 | 0.00682 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 2/24/23 13:19 | 2/27/23 16:52 | | 1.015 | 0.0000877 | mg/L | 0.000068 | 0.000203 | J |
| * Manganese, Total | 2/24/23 13:19 | 2/27/23 16:52 | | 1.015 | 0.933 | mg/L | 0.000152 | 0.001015 | |
| * Molybdenum, Total | 2/24/23 13:19 | 2/27/23 16:52 | | 1.015 | 0.000338 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 2/24/23 13:19 | 2/27/23 16:52 | | 1.015 | 7.95 | 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: Gorgas Landfill - MW-8

Location Code: WMWGORLF
Collected: 2/21/23 15:40
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04071

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------|----------|-------|--------------|-------------------------|----------|----------|---|
| * Selenium, Total | 2/24/23 13:19 | 2/27/23 16:52 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/24/23 13:19 | 2/27/23 16:52 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | | | | | | | | |
| <i>Analyst: DLJ</i> | | | | | | | | | |
| * Antimony, Dissolved | 2/23/23 13:36 | 2/23/23 15:13 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/23/23 13:36 | 2/23/23 15:13 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.05075 | U |
| * Arsenic, Dissolved | 2/23/23 13:36 | 2/23/23 15:13 | | 1.015 | 0.000567 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 2/23/23 13:36 | 2/23/23 15:13 | | 1.015 | 0.0126 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 2/23/23 13:36 | 2/28/23 09:52 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/23/23 13:36 | 2/23/23 15:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/23/23 13:36 | 2/23/23 15:13 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/23/23 13:36 | 2/23/23 15:13 | | 1.015 | 0.00585 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 2/23/23 13:36 | 2/23/23 15:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/23/23 13:36 | 2/23/23 15:13 | | 1.015 | 0.844 | mg/L | 0.000152 | 0.001015 | |
| * Molybdenum, Dissolved | 2/23/23 13:36 | 2/23/23 15:13 | | 1.015 | 0.000582 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 2/23/23 13:36 | 2/23/23 15:13 | | 1.015 | 7.39 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/23/23 13:36 | 2/23/23 15:13 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/23/23 13:36 | 2/23/23 15:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | | | | | | | | |
| <i>Analyst: ELH</i> | | | | | | | | | |
| * Mercury, Total by CVAA | 2/27/23 19:37 | 2/28/23 02:08 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | | | | | | | | |
| <i>Analyst: SC</i> | | | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/24/23 10:58 | 2/24/23 10:58 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | | | | | | | | |
| <i>Analyst: ALH</i> | | | | | | | | | |
| * Alkalinity to pH 4.5 | 3/3/23 14:10 | 3/3/23 15:40 | | 1 | 349 | mg CaCO ₃ /L | | | |
| Analytical Method: SM 2540C | | | | | | | | | |
| <i>Analyst: CNJ</i> | | | | | | | | | |
| * Solids, Dissolved | 2/23/23 13:45 | 2/24/23 13:45 | | 1 | 2370 | mg/L | | 125 | |
| Analytical Method: SM 4500CO2 D | | | | | | | | | |
| <i>Analyst: ALH</i> | | | | | | | | | |
| * Bicarbonate Alkalinity, (calc.) | 3/3/23 14:10 | 3/3/23 15:40 | | 1 | 349 | mg CaCO ₃ /L | | 1 | A |
| * Carbonate Alkalinity, (calc.) | 3/3/23 14:10 | 3/3/23 15:40 | | 1 | Not Detected | mg CaCO ₃ /L | | 0.5 | A |
| Analytical Method: SM 5310 B | | | | | | | | | |
| <i>Analyst: SC</i> | | | | | | | | | |
| * Total Organic Carbon | 2/23/23 18:41 | 2/23/23 18:41 | | 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: Gorgas Landfill - MW-8

Location Code: WMWGORLF
Collected: 2/21/23 15:40
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04071

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E <i>Analyst: JCC</i> | | | | | | | | | |
| * Chloride | 2/24/23 14:07 | 2/24/23 14:07 | | 1 | 4.86 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 <i>Analyst: JCC</i> | | | | | | | | | |
| * Fluoride | 2/27/23 12:33 | 2/27/23 12:33 | | 1 | 0.212 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 <i>Analyst: JCC</i> | | | | | | | | | |
| * Sulfate | 3/1/23 13:54 | 3/1/23 13:54 | | 50 | 1510 | mg/L | 30.0 | 100 | |
| Analytical Method: Field Measurements <i>Analyst: TJD</i> | | | | | | | | | |
| Conductivity | 2/21/23 15:35 | 2/21/23 15:35 | | | 2722.64 | uS/cm | | | FA |
| pH | 2/21/23 15:35 | 2/21/23 15:35 | | | 6.75 | SU | | | FA |
| Temperature | 2/21/23 15:35 | 2/21/23 15:35 | | | 20.26 | C | | | FA |
| Turbidity | 2/21/23 15:35 | 2/21/23 15:35 | | | 7.56 | NTU | | | FA |
| Sulfide | 2/21/23 15:35 | 2/21/23 15:35 | | | 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: WMWGORLF
Sample Date: 2/21/23 15:40
Customer ID:
Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-8

Laboratory ID Number: BD04071

| Sample | Analysis | Units | MB | | | | Standard | Standard | | | Rec | Prec |
|---------|----------------------|-------|------------|----------|-------|--------|----------|----------|-----------------|-------|-------------|-------|
| | | | MB | Limit | Spike | MS | | MSD | Limit | Rec | | |
| BD04079 | Aluminum, Dissolved | mg/L | -0.000276 | 0.0198 | 0.100 | 0.0898 | 0.0939 | 0.0965 | 0.0850 to 0.115 | 89.8 | 70.0 to 130 | 4.46 |
| BD04078 | Aluminum, Total | mg/L | 0.000405 | 0.0198 | 0.100 | 0.101 | 0.102 | 0.104 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 |
| BD04079 | Antimony, Dissolved | mg/L | 0.000346 | 0.00100 | 0.100 | 0.0869 | 0.0903 | 0.0904 | 0.0850 to 0.115 | 86.9 | 70.0 to 130 | 3.84 |
| BD04078 | Antimony, Total | mg/L | 0.000397 | 0.00100 | 0.100 | 0.110 | 0.110 | 0.0988 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 0.00 |
| BD04079 | Arsenic, Dissolved | mg/L | -0.0000191 | 0.000200 | 0.100 | 0.100 | 0.106 | 0.0960 | 0.0850 to 0.115 | 98.2 | 70.0 to 130 | 5.83 |
| BD04078 | Arsenic, Total | mg/L | 0.0000097 | 0.000200 | 0.100 | 0.103 | 0.104 | 0.0999 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.966 |
| BD04079 | Barium, Dissolved | mg/L | -0.0000092 | 0.00100 | 0.100 | 0.105 | 0.108 | 0.0954 | 0.0850 to 0.115 | 94.3 | 70.0 to 130 | 2.82 |
| BD04078 | Barium, Total | mg/L | -0.0000132 | 0.00100 | 0.100 | 0.120 | 0.123 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.47 |
| BD04079 | Beryllium, Dissolved | mg/L | 0.0000161 | 0.000880 | 0.100 | 0.104 | 0.102 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 |
| BD04078 | Beryllium, Total | mg/L | 0.0000113 | 0.000880 | 0.100 | 0.0915 | 0.0912 | 0.0997 | 0.0850 to 0.115 | 91.5 | 70.0 to 130 | 0.328 |
| BD04079 | Boron, Dissolved | mg/L | -0.00311 | 0.0650 | 1.00 | 1.09 | 1.08 | 1.01 | 0.850 to 1.15 | 105 | 70.0 to 130 | 0.922 |
| BD04078 | Boron, Total | mg/L | -0.00347 | 0.0650 | 1.00 | 1.08 | 1.07 | 1.00 | 0.850 to 1.15 | 104 | 70.0 to 130 | 0.930 |
| BD04079 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0905 | 0.0950 | 0.0975 | 0.0850 to 0.115 | 90.5 | 70.0 to 130 | 4.85 |
| BD04078 | Cadmium, Total | mg/L | 0.0000042 | 0.000147 | 0.100 | 0.0993 | 0.0984 | 0.104 | 0.0850 to 0.115 | 99.3 | 70.0 to 130 | 0.910 |
| BD04079 | Calcium, Dissolved | mg/L | -0.0143 | 0.152 | 5.00 | 316 | 324 | 5.07 | 4.25 to 5.75 | -360 | 70.0 to 130 | 2.50 |
| BD04078 | Calcium, Total | mg/L | -0.0229 | 0.152 | 5.00 | 296 | 308 | 4.80 | 4.25 to 5.75 | -20.0 | 70.0 to 130 | 3.97 |
| BD04078 | Chloride | mg/L | 0.0274 | 1.00 | 10.0 | 13.1 | 13.0 | 10.1 | 9.00 to 11.0 | 102 | 80.0 to 120 | 0.766 |
| BD04079 | Chromium, Dissolved | mg/L | -0.0000558 | 0.000440 | 0.100 | 0.0917 | 0.0975 | 0.0989 | 0.0850 to 0.115 | 91.7 | 70.0 to 130 | 6.13 |
| BD04078 | Chromium, Total | mg/L | 0.0000667 | 0.000440 | 0.100 | 0.102 | 0.103 | 0.106 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.976 |
| BD04079 | Cobalt, Dissolved | mg/L | -0.0000015 | 0.000147 | 0.100 | 0.0979 | 0.102 | 0.0995 | 0.0850 to 0.115 | 89.1 | 70.0 to 130 | 4.10 |
| BD04078 | Cobalt, Total | mg/L | 0.0000023 | 0.000147 | 0.100 | 0.116 | 0.114 | 0.112 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 1.74 |
| BD04078 | Fluoride | mg/L | 0.0384 | 0.125 | 2.50 | 2.72 | 2.79 | 2.59 | 2.25 to 2.75 | 102 | 80.0 to 120 | 2.54 |
| BD04079 | Iron, Dissolved | mg/L | -0.000232 | 0.0176 | 0.2 | 2.65 | 2.63 | 0.202 | 0.170 to 0.230 | 95.0 | 70.0 to 130 | 0.758 |
| BD04078 | Iron, Total | mg/L | 0.000927 | 0.0176 | 0.2 | 2.70 | 2.68 | 0.200 | 0.170 to 0.230 | 90.0 | 70.0 to 130 | 0.743 |

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

Batch QC Summary

Customer Account: WMWGORLF
Sample Date: 2/21/23 15:40
Customer ID:
Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-8

Laboratory ID Number: BD04071

| Sample | Analysis | Units | MB | | | | Standard | Limit | Rec | Limit | Prec | Limit | |
|---------|------------------------|-------|------------|----------|-------|---------|----------|---------|--------------------|-------|-------------|-------|------|
| | | | MB | Limit | Spike | MS | | | | | | | |
| BD04079 | Lead, Dissolved | mg/L | 0.0000017 | 0.000147 | 0.100 | 0.0928 | 0.101 | 0.100 | 0.0850 to 0.115 | 92.8 | 70.0 to 130 | 8.46 | 20.0 |
| BD04078 | Lead, Total | mg/L | 0.000011 | 0.000147 | 0.100 | 0.107 | 0.108 | 0.112 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.930 | 20.0 |
| BD04079 | Lithium, Dissolved | mg/L | 0.000766 | 0.0154 | 0.200 | 0.228 | 0.225 | 0.194 | 0.170 to 0.230 | 106 | 70.0 to 130 | 1.32 | 20.0 |
| BD04078 | Lithium, Total | mg/L | -0.000337 | 0.0154 | 0.200 | 0.233 | 0.227 | 0.198 | 0.170 to 0.230 | 108 | 70.0 to 130 | 2.61 | 20.0 |
| BD04079 | Magnesium, Dissolved | mg/L | -0.0245 | 0.0462 | 5.00 | 279 | 285 | 5.09 | 4.25 to 5.75 | -240 | 70.0 to 130 | 2.13 | 20.0 |
| BD04078 | Magnesium, Total | mg/L | -0.00494 | 0.0462 | 5.00 | 253 | 252 | 5.01 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.396 | 20.0 |
| BD04079 | Manganese, Dissolved | mg/L | 0.0000252 | 0.00033 | 0.100 | 2.64 | 2.71 | 0.0997 | 0.0850 to 0.115 | 20.0 | 70.0 to 130 | 2.62 | 20.0 |
| BD04078 | Manganese, Total | mg/L | -0.0000306 | 0.00033 | 0.100 | 2.74 | 2.72 | 0.107 | 0.0850 to 0.115 | 10.0 | 70.0 to 130 | 0.733 | 20.0 |
| BD04079 | Mercury, Total by CVAA | mg/L | -1.000E-05 | 0.000500 | 0.004 | 0.00376 | 0.00369 | 0.00348 | 0.00340 to 0.00460 | 94.0 | 70.0 to 130 | 1.88 | 20.0 |
| BD04079 | Molybdenum, Dissolved | mg/L | 0.0000079 | 0.0002 | 0.100 | 0.0959 | 0.0992 | 0.0972 | 0.0850 to 0.115 | 95.4 | 70.0 to 130 | 3.38 | 20.0 |
| BD04078 | Molybdenum, Total | mg/L | 0.000028 | 0.0002 | 0.100 | 0.104 | 0.104 | 0.103 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BD04079 | Potassium, Dissolved | mg/L | -0.00373 | 0.367 | 10.0 | 15.8 | 17.1 | 9.85 | 8.50 to 11.5 | 87.2 | 70.0 to 130 | 7.90 | 20.0 |
| BD04078 | Potassium, Total | mg/L | 0.0259 | 0.367 | 10.0 | 17.7 | 18.2 | 10.3 | 8.50 to 11.5 | 96.7 | 70.0 to 130 | 2.79 | 20.0 |
| BD04079 | Selenium, Dissolved | mg/L | -0.0000434 | 0.00100 | 0.100 | 0.110 | 0.115 | 0.101 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 4.44 | 20.0 |
| BD04078 | Selenium, Total | mg/L | 0.0000768 | 0.00100 | 0.100 | 0.103 | 0.103 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BD04079 | Silicon, Dissolved | mg/L | -0.000019 | 0.0440 | 1.00 | 6.89 | 6.88 | 1.01 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.145 | 20.0 |
| BD04078 | Silicon, Total | mg/L | 0.000121 | 0.0440 | 1.00 | 6.85 | 6.81 | 0.995 | 0.850 to 1.15 | 93.0 | 70.0 to 130 | 0.586 | 20.0 |
| BD04079 | Sodium, Dissolved | mg/L | -0.00164 | 0.0880 | 5.00 | 31.9 | 31.6 | 4.91 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.945 | 20.0 |
| BD04078 | Sodium, Total | mg/L | -0.000766 | 0.0880 | 5.00 | 31.7 | 31.2 | 4.88 | 4.25 to 5.75 | 112 | 70.0 to 130 | 1.59 | 20.0 |
| BD04078 | Sulfate | mg/L | 0.0571 | 2.0 | 1600 | 2960 | 3050 | 19.3 | 18.0 to 22.0 | 101 | 80.0 to 120 | 3.00 | 20.0 |
| BD04079 | Thallium, Dissolved | mg/L | -0.0000047 | 0.000147 | 0.100 | 0.0942 | 0.101 | 0.101 | 0.0850 to 0.115 | 94.2 | 70.0 to 130 | 6.97 | 20.0 |
| BD04078 | Thallium, Total | mg/L | 0.0000046 | 0.000147 | 0.100 | 0.111 | 0.107 | 0.110 | 0.0850 to 0.115 | 111 | 70.0 to 130 | 3.67 | 20.0 |
| BD04078 | Total Organic Carbon | mg/L | 0.0924 | 1.00 | 10.0 | 11.5 | 13.9 | 25.5 | | 104 | 80.0 to 120 | 18.9 | 20.0 |

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

Batch QC Summary

Customer Account: WMWGORLF

Sample Date: 2/21/23 15:40

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-8

Laboratory ID Number: BD04071

| Sample | Analysis | Units | MB | MB | | | Sample Duplicate | Standard Standard | Standard | | | Rec Rec | Limit Limit | Prec Prec | Limit Limit |
|---------|---------------------------|-------------------------|------|-------|-------|------|------------------|-------------------|--------------|-----|-------------|---------|-------------|-----------|-------------|
| | | | | Limit | Spike | MS | | | Limit | Rec | Prec | | | | |
| BD04082 | Alkalinity to pH 4.5 | mg CaCO ₃ /L | | | | | 144 | 49.9 | 45.0 to 55.0 | | | | 0.00 | 10.0 | |
| BD04078 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.00 | 0.200 | 2.00 | 2.23 | 0.022 | 1.83 | 1.80 to 2.20 | 112 | 90.0 to 110 | 0.00 | 15.0 | | |
| BD04078 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 2260 | 50.0 | 40.0 to 60.0 | | | 3.05 | 10.0 | | |

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

Certificate Of Analysis

Description: Gorgas Landfill - MW-6

Location Code: WMWGORLF

Collected: 2/22/23 13:20

Customer ID:

Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04072

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|----------|--------|--------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | | | | | | | |
| * Boron, Total | 2/24/23 13:19 | 2/27/23 15:13 | | 1.015 | 0.0356 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 2/24/23 13:19 | 2/28/23 14:02 | | 10.15 | 250 | mg/L | 0.70035 | 4.06 | |
| * Iron, Total | 2/24/23 13:19 | 2/28/23 14:02 | | 10.15 | 6.16 | mg/L | 0.08120 | 0.406 | |
| * Lithium, Total | 2/24/23 13:19 | 2/27/23 15:13 | | 1.015 | 0.0329 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/24/23 13:19 | 3/2/23 12:58 | | 10.15 | 302 | mg/L | 0.21315 | 4.06 | |
| * Silica, Total (calc.) | 2/24/23 13:19 | 2/27/23 15:13 | | 1 | 20.8 | mg/L | | | |
| * Silicon, Total | 2/24/23 13:19 | 2/27/23 15:13 | | 1.015 | 9.72 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/24/23 13:19 | 2/28/23 14:02 | | 10.15 | 45.4 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | | | | | | | | |
| * Boron, Dissolved | 2/23/23 13:36 | 2/27/23 11:28 | | 1.015 | 0.0381 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 2/23/23 13:36 | 2/27/23 13:16 | | 10.15 | 266 | mg/L | 0.70035 | 4.06 | |
| * Iron, Dissolved | 2/23/23 13:36 | 2/27/23 11:28 | | 1.015 | 3.60 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 2/23/23 13:36 | 2/27/23 11:28 | | 1.015 | 0.0325 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/23/23 13:36 | 2/27/23 13:16 | | 10.15 | 354 | mg/L | 0.21315 | 4.06 | |
| * Silica, Dissolved (calc.) | 2/23/23 13:36 | 2/27/23 11:28 | | 1 | 20.9 | mg/L | | | |
| * Silicon, Dissolved | 2/23/23 13:36 | 2/27/23 11:28 | | 1.015 | 9.76 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/23/23 13:36 | 2/27/23 13:16 | | 10.15 | 49.4 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | | | | | | | | |
| * Antimony, Total | 2/24/23 13:19 | 2/27/23 16:55 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/24/23 13:19 | 2/27/23 16:55 | | 1.015 | 0.377 | mg/L | 0.006090 | 0.05075 | |
| * Arsenic, Total | 2/24/23 13:19 | 2/27/23 16:55 | | 1.015 | 0.00337 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 2/24/23 13:19 | 2/27/23 16:55 | | 1.015 | 0.0136 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 2/24/23 13:19 | 2/27/23 16:55 | | 1.015 | 0.00123 | mg/L | 0.000406 | 0.001015 | |
| * Cadmium, Total | 2/24/23 13:19 | 2/27/23 16:55 | | 1.015 | 0.00192 | mg/L | 0.000068 | 0.000203 | |
| * Chromium, Total | 2/24/23 13:19 | 2/27/23 16:55 | | 1.015 | 0.000301 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 2/24/23 13:19 | 2/27/23 16:55 | | 1.015 | 0.567 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 2/24/23 13:19 | 2/27/23 16:55 | | 1.015 | 0.000457 | mg/L | 0.000068 | 0.000203 | |
| * Manganese, Total | 2/24/23 13:19 | 2/27/23 18:55 | | 92.365 | 55.8 | mg/L | 0.013855 | 0.092365 | |
| * Molybdenum, Total | 2/24/23 13:19 | 2/27/23 16:55 | | 1.015 | Not Detected | mg/L | 0.000102 | 0.000203 | U |
| * Potassium, Total | 2/24/23 13:19 | 2/27/23 16:55 | | 1.015 | 6.48 | 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: Gorgas Landfill - MW-6

Location Code: WMWGORLF
Collected: 2/22/23 13:20
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04072

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|---|---------------|---------------|----------|--------|--------------|-------------------------|----------|----------|---|
| * Selenium, Total | 2/24/23 13:19 | 2/27/23 16:55 | | 1.015 | 0.00190 | mg/L | 0.000508 | 0.001015 | |
| * Thallium, Total | 2/24/23 13:19 | 2/27/23 16:55 | | 1.015 | 0.000143 | mg/L | 0.000068 | 0.000203 | J |
| Analytical Method: EPA 200.8 | | | | | | | | | |
| <i>Analyst: DLJ</i> | | | | | | | | | |
| * Antimony, Dissolved | 2/23/23 13:36 | 2/23/23 15:16 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/23/23 13:36 | 2/23/23 15:16 | | 1.015 | 0.311 | mg/L | 0.006090 | 0.05075 | |
| * Arsenic, Dissolved | 2/23/23 13:36 | 2/23/23 15:16 | | 1.015 | 0.00190 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 2/23/23 13:36 | 2/23/23 15:16 | | 1.015 | 0.0118 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 2/23/23 13:36 | 2/28/23 09:55 | | 1.015 | 0.00128 | mg/L | 0.000406 | 0.001015 | |
| * Cadmium, Dissolved | 2/23/23 13:36 | 2/23/23 15:16 | | 1.015 | 0.00194 | mg/L | 0.000068 | 0.000203 | |
| * Chromium, Dissolved | 2/23/23 13:36 | 2/23/23 15:16 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/23/23 13:36 | 2/23/23 15:16 | | 1.015 | 0.487 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 2/23/23 13:36 | 2/23/23 15:16 | | 1.015 | 0.000115 | mg/L | 0.000068 | 0.000203 | J |
| * Manganese, Dissolved | 2/23/23 13:36 | 2/28/23 11:31 | | 92.365 | 51.6 | mg/L | 0.013855 | 0.092365 | |
| * Molybdenum, Dissolved | 2/23/23 13:36 | 2/23/23 15:16 | | 1.015 | 0.000164 | mg/L | 0.000102 | 0.000203 | J |
| * Potassium, Dissolved | 2/23/23 13:36 | 2/23/23 15:16 | | 1.015 | 5.86 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/23/23 13:36 | 2/23/23 15:16 | | 1.015 | 0.00162 | mg/L | 0.000508 | 0.001015 | |
| * Thallium, Dissolved | 2/23/23 13:36 | 2/23/23 15:16 | | 1.015 | 0.000138 | mg/L | 0.000068 | 0.000203 | J |
| Analytical Method: EPA 245.1 | | | | | | | | | |
| <i>Analyst: ELH</i> | | | | | | | | | |
| * Mercury, Total by CVAA | 2/27/23 19:37 | 2/28/23 02:11 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | | | | | | | | |
| <i>Analyst: SC</i> | | | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/24/23 11:00 | 2/24/23 11:00 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | | | | | | | | |
| <i>Analyst: ALH</i> | | | | | | | | | |
| * Alkalinity to pH 4.5 | 3/6/23 13:15 | 3/6/23 14:40 | | 1 | 32.6 | mg CaCO ₃ /L | | | |
| Analytical Method: SM 2540C | | | | | | | | | |
| <i>Analyst: CNJ</i> | | | | | | | | | |
| * Solids, Dissolved | 2/23/23 13:45 | 2/24/23 13:45 | | 1 | 2790 | mg/L | | 147.1 | |
| Analytical Method: SM 4500CO₂ D | | | | | | | | | |
| <i>Analyst: ALH</i> | | | | | | | | | |
| * Bicarbonate Alkalinity, (calc.) | 3/6/23 13:15 | 3/6/23 14:40 | | 1 | 32.6 | mg CaCO ₃ /L | | 1 | A |
| * Carbonate Alkalinity, (calc.) | 3/6/23 13:15 | 3/6/23 14:40 | | 1 | Not Detected | mg CaCO ₃ /L | | 0.5 | A |
| Analytical Method: SM 5310 B | | | | | | | | | |
| <i>Analyst: SC</i> | | | | | | | | | |
| * Total Organic Carbon | 2/23/23 19:00 | 2/23/23 19:00 | | 1 | 2.24 | mg/L | 1.00 | 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: Gorgas Landfill - MW-6

Location Code: WMWGORLF
Collected: 2/22/23 13:20
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04072

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E Analyst: JCC | | | | | | | | | |
| * Chloride | 2/24/23 14:09 | 2/24/23 14:09 | | 1 | 4.37 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 Analyst: JCC | | | | | | | | | |
| * Fluoride | 2/27/23 12:34 | 2/27/23 12:34 | | 1 | 0.173 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 Analyst: JCC | | | | | | | | | |
| * Sulfate | 3/1/23 13:55 | 3/1/23 13:55 | | 80 | 1870 | mg/L | 48.0 | 160 | |
| Analytical Method: Field Measurements Analyst: TJD | | | | | | | | | |
| Conductivity | 2/22/23 13:15 | 2/22/23 13:15 | | | 2795.15 | uS/cm | | | FA |
| pH | 2/22/23 13:15 | 2/22/23 13:15 | | | 4.98 | SU | | | FA |
| Temperature | 2/22/23 13:15 | 2/22/23 13:15 | | | 21.32 | C | | | FA |
| Turbidity | 2/22/23 13:15 | 2/22/23 13:15 | | | 6.33 | NTU | | | FA |
| Sulfide | 2/22/23 13:15 | 2/22/23 13:15 | | | 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: WMWGORLF

Sample Date: 2/22/23 13:20

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-6

Laboratory ID Number: BD04072

| Sample | Analysis | Units | MB | | | | Standard | Limit | Rec | Limit | Prec | Limit | |
|---------|----------------------|-------|------------|----------|-------|--------|----------|--------|-----------------|-------|-------------|-------|------|
| | | | MB | Limit | Spike | MS | | | | | | | |
| BD04079 | Aluminum, Dissolved | mg/L | -0.000276 | 0.0198 | 0.100 | 0.0898 | 0.0939 | 0.0965 | 0.0850 to 0.115 | 89.8 | 70.0 to 130 | 4.46 | 20.0 |
| BD04078 | Aluminum, Total | mg/L | 0.000405 | 0.0198 | 0.100 | 0.101 | 0.102 | 0.104 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BD04079 | Antimony, Dissolved | mg/L | 0.000346 | 0.00100 | 0.100 | 0.0869 | 0.0903 | 0.0904 | 0.0850 to 0.115 | 86.9 | 70.0 to 130 | 3.84 | 20.0 |
| BD04078 | Antimony, Total | mg/L | 0.000397 | 0.00100 | 0.100 | 0.110 | 0.110 | 0.0988 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 0.00 | 20.0 |
| BD04079 | Arsenic, Dissolved | mg/L | -0.0000191 | 0.000200 | 0.100 | 0.100 | 0.106 | 0.0960 | 0.0850 to 0.115 | 98.2 | 70.0 to 130 | 5.83 | 20.0 |
| BD04078 | Arsenic, Total | mg/L | 0.0000097 | 0.000200 | 0.100 | 0.103 | 0.104 | 0.0999 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.966 | 20.0 |
| BD04079 | Barium, Dissolved | mg/L | -0.0000092 | 0.00100 | 0.100 | 0.105 | 0.108 | 0.0954 | 0.0850 to 0.115 | 94.3 | 70.0 to 130 | 2.82 | 20.0 |
| BD04078 | Barium, Total | mg/L | -0.0000132 | 0.00100 | 0.100 | 0.120 | 0.123 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.47 | 20.0 |
| BD04079 | Beryllium, Dissolved | mg/L | 0.0000161 | 0.000880 | 0.100 | 0.104 | 0.102 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BD04078 | Beryllium, Total | mg/L | 0.0000113 | 0.000880 | 0.100 | 0.0915 | 0.0912 | 0.0997 | 0.0850 to 0.115 | 91.5 | 70.0 to 130 | 0.328 | 20.0 |
| BD04079 | Boron, Dissolved | mg/L | -0.00311 | 0.0650 | 1.00 | 1.09 | 1.08 | 1.01 | 0.850 to 1.15 | 105 | 70.0 to 130 | 0.922 | 20.0 |
| BD04078 | Boron, Total | mg/L | -0.00347 | 0.0650 | 1.00 | 1.08 | 1.07 | 1.00 | 0.850 to 1.15 | 104 | 70.0 to 130 | 0.930 | 20.0 |
| BD04079 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0905 | 0.0950 | 0.0975 | 0.0850 to 0.115 | 90.5 | 70.0 to 130 | 4.85 | 20.0 |
| BD04078 | Cadmium, Total | mg/L | 0.0000042 | 0.000147 | 0.100 | 0.0993 | 0.0984 | 0.104 | 0.0850 to 0.115 | 99.3 | 70.0 to 130 | 0.910 | 20.0 |
| BD04079 | Calcium, Dissolved | mg/L | -0.0143 | 0.152 | 5.00 | 316 | 324 | 5.07 | 4.25 to 5.75 | -360 | 70.0 to 130 | 2.50 | 20.0 |
| BD04078 | Calcium, Total | mg/L | -0.0229 | 0.152 | 5.00 | 296 | 308 | 4.80 | 4.25 to 5.75 | -20.0 | 70.0 to 130 | 3.97 | 20.0 |
| BD04078 | Chloride | mg/L | 0.0274 | 1.00 | 10.0 | 13.1 | 13.0 | 10.1 | 9.00 to 11.0 | 102 | 80.0 to 120 | 0.766 | 20.0 |
| BD04079 | Chromium, Dissolved | mg/L | -0.0000558 | 0.000440 | 0.100 | 0.0917 | 0.0975 | 0.0989 | 0.0850 to 0.115 | 91.7 | 70.0 to 130 | 6.13 | 20.0 |
| BD04078 | Chromium, Total | mg/L | 0.0000667 | 0.000440 | 0.100 | 0.102 | 0.103 | 0.106 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BD04079 | Cobalt, Dissolved | mg/L | -0.0000015 | 0.000147 | 0.100 | 0.0979 | 0.102 | 0.0995 | 0.0850 to 0.115 | 89.1 | 70.0 to 130 | 4.10 | 20.0 |
| BD04078 | Cobalt, Total | mg/L | 0.0000023 | 0.000147 | 0.100 | 0.116 | 0.114 | 0.112 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 1.74 | 20.0 |
| BD04078 | Fluoride | mg/L | 0.0384 | 0.125 | 2.50 | 2.72 | 2.79 | 2.59 | 2.25 to 2.75 | 102 | 80.0 to 120 | 2.54 | 20.0 |
| BD04079 | Iron, Dissolved | mg/L | -0.000232 | 0.0176 | 0.2 | 2.65 | 2.63 | 0.202 | 0.170 to 0.230 | 95.0 | 70.0 to 130 | 0.758 | 20.0 |
| BD04078 | Iron, Total | mg/L | 0.000927 | 0.0176 | 0.2 | 2.70 | 2.68 | 0.200 | 0.170 to 0.230 | 90.0 | 70.0 to 130 | 0.743 | 20.0 |

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

Batch QC Summary

Customer Account: WMWGORLF
Sample Date: 2/22/23 13:20
Customer ID:
Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-6

Laboratory ID Number: BD04072

| Sample | Analysis | Units | MB | | | | Standard | Limit | Rec | Limit | Prec | Limit | |
|---------|------------------------|-------|------------|----------|-------|---------|----------|---------|--------------------|-------|-------------|-------|------|
| | | | MB | Limit | Spike | MS | | | | | | | |
| BD04079 | Lead, Dissolved | mg/L | 0.0000017 | 0.000147 | 0.100 | 0.0928 | 0.101 | 0.100 | 0.0850 to 0.115 | 92.8 | 70.0 to 130 | 8.46 | 20.0 |
| BD04078 | Lead, Total | mg/L | 0.000011 | 0.000147 | 0.100 | 0.107 | 0.108 | 0.112 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.930 | 20.0 |
| BD04079 | Lithium, Dissolved | mg/L | 0.000766 | 0.0154 | 0.200 | 0.228 | 0.225 | 0.194 | 0.170 to 0.230 | 106 | 70.0 to 130 | 1.32 | 20.0 |
| BD04078 | Lithium, Total | mg/L | -0.000337 | 0.0154 | 0.200 | 0.233 | 0.227 | 0.198 | 0.170 to 0.230 | 108 | 70.0 to 130 | 2.61 | 20.0 |
| BD04079 | Magnesium, Dissolved | mg/L | -0.0245 | 0.0462 | 5.00 | 279 | 285 | 5.09 | 4.25 to 5.75 | -240 | 70.0 to 130 | 2.13 | 20.0 |
| BD04078 | Magnesium, Total | mg/L | -0.00494 | 0.0462 | 5.00 | 253 | 252 | 5.01 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.396 | 20.0 |
| BD04079 | Manganese, Dissolved | mg/L | 0.0000252 | 0.00033 | 0.100 | 2.64 | 2.71 | 0.0997 | 0.0850 to 0.115 | 20.0 | 70.0 to 130 | 2.62 | 20.0 |
| BD04078 | Manganese, Total | mg/L | -0.0000306 | 0.00033 | 0.100 | 2.74 | 2.72 | 0.107 | 0.0850 to 0.115 | 10.0 | 70.0 to 130 | 0.733 | 20.0 |
| BD04079 | Mercury, Total by CVAA | mg/L | -1.000E-05 | 0.000500 | 0.004 | 0.00376 | 0.00369 | 0.00348 | 0.00340 to 0.00460 | 94.0 | 70.0 to 130 | 1.88 | 20.0 |
| BD04079 | Molybdenum, Dissolved | mg/L | 0.0000079 | 0.0002 | 0.100 | 0.0959 | 0.0992 | 0.0972 | 0.0850 to 0.115 | 95.4 | 70.0 to 130 | 3.38 | 20.0 |
| BD04078 | Molybdenum, Total | mg/L | 0.000028 | 0.0002 | 0.100 | 0.104 | 0.104 | 0.103 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BD04079 | Potassium, Dissolved | mg/L | -0.00373 | 0.367 | 10.0 | 15.8 | 17.1 | 9.85 | 8.50 to 11.5 | 87.2 | 70.0 to 130 | 7.90 | 20.0 |
| BD04078 | Potassium, Total | mg/L | 0.0259 | 0.367 | 10.0 | 17.7 | 18.2 | 10.3 | 8.50 to 11.5 | 96.7 | 70.0 to 130 | 2.79 | 20.0 |
| BD04079 | Selenium, Dissolved | mg/L | -0.0000434 | 0.00100 | 0.100 | 0.110 | 0.115 | 0.101 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 4.44 | 20.0 |
| BD04078 | Selenium, Total | mg/L | 0.0000768 | 0.00100 | 0.100 | 0.103 | 0.103 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BD04079 | Silicon, Dissolved | mg/L | -0.000019 | 0.0440 | 1.00 | 6.89 | 6.88 | 1.01 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.145 | 20.0 |
| BD04078 | Silicon, Total | mg/L | 0.000121 | 0.0440 | 1.00 | 6.85 | 6.81 | 0.995 | 0.850 to 1.15 | 93.0 | 70.0 to 130 | 0.586 | 20.0 |
| BD04079 | Sodium, Dissolved | mg/L | -0.00164 | 0.0880 | 5.00 | 31.9 | 31.6 | 4.91 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.945 | 20.0 |
| BD04078 | Sodium, Total | mg/L | -0.000766 | 0.0880 | 5.00 | 31.7 | 31.2 | 4.88 | 4.25 to 5.75 | 112 | 70.0 to 130 | 1.59 | 20.0 |
| BD04078 | Sulfate | mg/L | 0.0571 | 2.0 | 1600 | 2960 | 3050 | 19.3 | 18.0 to 22.0 | 101 | 80.0 to 120 | 3.00 | 20.0 |
| BD04079 | Thallium, Dissolved | mg/L | -0.0000047 | 0.000147 | 0.100 | 0.0942 | 0.101 | 0.101 | 0.0850 to 0.115 | 94.2 | 70.0 to 130 | 6.97 | 20.0 |
| BD04078 | Thallium, Total | mg/L | 0.0000046 | 0.000147 | 0.100 | 0.111 | 0.107 | 0.110 | 0.0850 to 0.115 | 111 | 70.0 to 130 | 3.67 | 20.0 |
| BD04078 | Total Organic Carbon | mg/L | 0.0924 | 1.00 | 10.0 | 11.5 | 13.9 | 25.5 | | 104 | 80.0 to 120 | 18.9 | 20.0 |

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

Batch QC Summary

Customer Account: WMWGORLF

Sample Date: 2/22/23 13:20

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-6

Laboratory ID Number: BD04072

| Sample | Analysis | Units | MB | MB | | | Sample Duplicate | Standard Standard | Standard | | | Rec Rec | Limit Limit | Prec Prec | Limit Limit |
|---------|---------------------------|-------------------------|------|-------|-------|------|------------------|-------------------|--------------|-----|-------------|---------|-------------|-----------|-------------|
| | | | | Limit | Spike | MS | | | Limit | Rec | Prec | | | | |
| BD04089 | Alkalinity to pH 4.5 | mg CaCO ₃ /L | | | | | 214 | 50.4 | 45.0 to 55.0 | | | | 0.00 | 10.0 | |
| BD04078 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.00 | 0.200 | 2.00 | 2.23 | 0.022 | 1.83 | 1.80 to 2.20 | 112 | 90.0 to 110 | 0.00 | 15.0 | | |
| BD04078 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 2260 | 50.0 | 40.0 to 60.0 | | | 3.05 | 10.0 | | |

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

Certificate Of Analysis

Description: Gorgas Landfill Field Blank-2

Location Code: WMWGORLFFB
Collected: 2/22/23 14:10
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04073

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|----------|-------|--------------|-----------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | | | | | | | |
| * Boron, Total | 2/24/23 13:19 | 2/27/23 15:16 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Total | 2/24/23 13:19 | 2/27/23 15:16 | | 1.015 | Not Detected | mg/L | 0.070035 | 0.406 | U |
| * Iron, Total | 2/24/23 13:19 | 2/27/23 15:16 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U |
| * Lithium, Total | 2/24/23 13:19 | 2/27/23 15:16 | | 1.015 | Not Detected | mg/L | 0.007105 | 0.01999956 | U |
| * Magnesium, Total | 2/24/23 13:19 | 2/27/23 15:16 | | 1.015 | Not Detected | mg/L | 0.021315 | 0.406 | U |
| * Silica, Total (calc.) | 2/24/23 13:19 | 2/27/23 15:16 | | 1 | Not Detected | mg/L | | | |
| * Silicon, Total | 2/24/23 13:19 | 2/27/23 15:16 | | 1.015 | Not Detected | mg/L | 0.02030 | 0.25375 | U |
| * Sodium, Total | 2/24/23 13:19 | 2/27/23 15:16 | | 1.015 | Not Detected | mg/L | 0.03045 | 0.406 | U |
| Analytical Method: EPA 200.8 | | | | | | | | | |
| * Antimony, Total | 2/24/23 13:19 | 2/27/23 16:59 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/24/23 13:19 | 2/27/23 16:59 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.05075 | U |
| * Arsenic, Total | 2/24/23 13:19 | 2/27/23 16:59 | | 1.015 | Not Detected | mg/L | 0.000081 | 0.000203 | U |
| * Barium, Total | 2/24/23 13:19 | 2/27/23 16:59 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Beryllium, Total | 2/24/23 13:19 | 2/27/23 16:59 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/24/23 13:19 | 2/27/23 16:59 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/24/23 13:19 | 2/27/23 16:59 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Total | 2/24/23 13:19 | 2/27/23 16:59 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 2/24/23 13:19 | 2/27/23 16:59 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/24/23 13:19 | 2/27/23 16:59 | | 1.015 | 0.00196 | mg/L | 0.000152 | 0.001015 | U |
| * Molybdenum, Total | 2/24/23 13:19 | 2/27/23 16:59 | | 1.015 | Not Detected | mg/L | 0.000102 | 0.000203 | U |
| * Potassium, Total | 2/24/23 13:19 | 2/27/23 16:59 | | 1.015 | Not Detected | mg/L | 0.169505 | 0.5075 | U |
| * Selenium, Total | 2/24/23 13:19 | 2/27/23 16:59 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/24/23 13:19 | 2/27/23 16:59 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | | | | | | | | |
| * Mercury, Total by CVAA | 2/27/23 19:37 | 2/28/23 02:15 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/24/23 11:02 | 2/24/23 11:02 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2540C | | | | | | | | | |
| * Solids, Dissolved | 2/23/23 13:45 | 2/24/23 13:45 | | 1 | Not Detected | mg/L | | 25 | U |

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

Comments:

Certificate Of Analysis

Description: Gorgas Landfill Field Blank-2

Location Code: WMWGORLFFB
Collected: 2/22/23 14:10
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04073

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------|----------|----|--------------|-------|------|-------|---|
| Analytical Method: SM 5310 B Analyst: SC | | | | | | | | | |
| * Total Organic Carbon | 2/23/23 19:16 | 2/23/23 19:16 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |
| Analytical Method: SM4500Cl E Analyst: JCC | | | | | | | | | |
| * Chloride | 2/24/23 14:10 | 2/24/23 14:10 | | 1 | Not Detected | mg/L | 0.50 | 1 | U |
| Analytical Method: SM4500F G 2017 Analyst: JCC | | | | | | | | | |
| * Fluoride | 2/27/23 12:35 | 2/27/23 12:35 | | 1 | Not Detected | mg/L | 0.06 | 0.125 | U |
| Analytical Method: SM4500SO4 E 2011 Analyst: JCC | | | | | | | | | |
| * Sulfate | 3/1/23 13:57 | 3/1/23 13:57 | | 1 | Not Detected | mg/L | 0.6 | 2 | U |

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

Comments:

Batch QC Summary

Customer Account: WMWGORLFFB

Sample Date: 2/22/23 14:10

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill Field Blank-2

Laboratory ID Number: BD04073

| Sample | Analysis | Units | MB | | | | Standard | Limit | Rec | Limit | Prec | Limit | |
|---------|------------------------|-------|------------|----------|-------|---------|----------|---------|--------------------|-------|-------------|-------|------|
| | | | MB | Limit | Spike | MS | | | | | | | |
| BD04078 | Aluminum, Total | mg/L | 0.000405 | 0.0198 | 0.100 | 0.101 | 0.102 | 0.104 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BD04078 | Antimony, Total | mg/L | 0.000397 | 0.00100 | 0.100 | 0.110 | 0.110 | 0.0988 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 0.00 | 20.0 |
| BD04078 | Arsenic, Total | mg/L | 0.0000097 | 0.000200 | 0.100 | 0.103 | 0.104 | 0.0999 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.966 | 20.0 |
| BD04078 | Barium, Total | mg/L | -0.0000132 | 0.00100 | 0.100 | 0.120 | 0.123 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.47 | 20.0 |
| BD04078 | Beryllium, Total | mg/L | 0.0000113 | 0.000880 | 0.100 | 0.0915 | 0.0912 | 0.0997 | 0.0850 to 0.115 | 91.5 | 70.0 to 130 | 0.328 | 20.0 |
| BD04078 | Boron, Total | mg/L | -0.00347 | 0.0650 | 1.00 | 1.08 | 1.07 | 1.00 | 0.850 to 1.15 | 104 | 70.0 to 130 | 0.930 | 20.0 |
| BD04078 | Cadmium, Total | mg/L | 0.0000042 | 0.000147 | 0.100 | 0.0993 | 0.0984 | 0.104 | 0.0850 to 0.115 | 99.3 | 70.0 to 130 | 0.910 | 20.0 |
| BD04078 | Calcium, Total | mg/L | -0.0229 | 0.152 | 5.00 | 296 | 308 | 4.80 | 4.25 to 5.75 | -20.0 | 70.0 to 130 | 3.97 | 20.0 |
| BD04078 | Chloride | mg/L | 0.0274 | 1.00 | 10.0 | 13.1 | 13.0 | 10.1 | 9.00 to 11.0 | 102 | 80.0 to 120 | 0.766 | 20.0 |
| BD04078 | Chromium, Total | mg/L | 0.0000667 | 0.000440 | 0.100 | 0.102 | 0.103 | 0.106 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BD04078 | Cobalt, Total | mg/L | 0.0000023 | 0.000147 | 0.100 | 0.116 | 0.114 | 0.112 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 1.74 | 20.0 |
| BD04078 | Fluoride | mg/L | 0.0384 | 0.125 | 2.50 | 2.72 | 2.79 | 2.59 | 2.25 to 2.75 | 102 | 80.0 to 120 | 2.54 | 20.0 |
| BD04078 | Iron, Total | mg/L | 0.000927 | 0.0176 | 0.2 | 2.70 | 2.68 | 0.200 | 0.170 to 0.230 | 90.0 | 70.0 to 130 | 0.743 | 20.0 |
| BD04078 | Lead, Total | mg/L | 0.000011 | 0.000147 | 0.100 | 0.107 | 0.108 | 0.112 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.930 | 20.0 |
| BD04078 | Lithium, Total | mg/L | -0.000337 | 0.0154 | 0.200 | 0.233 | 0.227 | 0.198 | 0.170 to 0.230 | 108 | 70.0 to 130 | 2.61 | 20.0 |
| BD04078 | Magnesium, Total | mg/L | -0.00494 | 0.0462 | 5.00 | 253 | 252 | 5.01 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.396 | 20.0 |
| BD04078 | Manganese, Total | mg/L | -0.0000306 | 0.00033 | 0.100 | 2.74 | 2.72 | 0.107 | 0.0850 to 0.115 | 10.0 | 70.0 to 130 | 0.733 | 20.0 |
| BD04079 | Mercury, Total by CVAA | mg/L | -1.000E-05 | 0.000500 | 0.004 | 0.00376 | 0.00369 | 0.00348 | 0.00340 to 0.00460 | 94.0 | 70.0 to 130 | 1.88 | 20.0 |
| BD04078 | Molybdenum, Total | mg/L | 0.000028 | 0.0002 | 0.100 | 0.104 | 0.104 | 0.103 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BD04078 | Potassium, Total | mg/L | 0.0259 | 0.367 | 10.0 | 17.7 | 18.2 | 10.3 | 8.50 to 11.5 | 96.7 | 70.0 to 130 | 2.79 | 20.0 |
| BD04078 | Selenium, Total | mg/L | 0.0000768 | 0.00100 | 0.100 | 0.103 | 0.103 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BD04078 | Silicon, Total | mg/L | 0.000121 | 0.0440 | 1.00 | 6.85 | 6.81 | 0.995 | 0.850 to 1.15 | 93.0 | 70.0 to 130 | 0.586 | 20.0 |
| BD04078 | Sodium, Total | mg/L | -0.000766 | 0.0880 | 5.00 | 31.7 | 31.2 | 4.88 | 4.25 to 5.75 | 112 | 70.0 to 130 | 1.59 | 20.0 |
| BD04078 | Sulfate | mg/L | 0.0571 | 2.0 | 1600 | 2960 | 3050 | 19.3 | 18.0 to 22.0 | 101 | 80.0 to 120 | 3.00 | 20.0 |

Comments:

Batch QC Summary

Customer Account: WMWGORLFFB

Sample Date: 2/22/23 14:10

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill Field Blank-2

Laboratory ID Number: BD04073

| Sample | Analysis | Units | MB | | | | Standard | Limit | Rec | Limit | Prec | Limit | |
|---------|----------------------|-------|-----------|----------|-------|-------|----------|-------|-----------------|-------|-------------|-------|------|
| | | | MB | Limit | Spike | MS | | | | | | | |
| BD04078 | Thallium, Total | mg/L | 0.0000046 | 0.000147 | 0.100 | 0.111 | 0.107 | 0.110 | 0.0850 to 0.115 | 111 | 70.0 to 130 | 3.67 | 20.0 |
| BD04078 | Total Organic Carbon | mg/L | 0.0924 | 1.00 | 10.0 | 11.5 | 13.9 | 25.5 | | 104 | 80.0 to 120 | 18.9 | 20.0 |

Comments:

Batch QC Summary

Customer Account: WMWGORLFFB

Sample Date: 2/22/23 14:10

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill Field Blank-2

Laboratory ID Number: BD04073

| Sample | Analysis | Units | MB | | | Sample Duplicate | Standard | | Rec Limit | Prec Limit | Rec | Prec | |
|---------|---------------------------|-----------|------|-------|-------|------------------|----------|-------|--------------|------------|-------------|------|------|
| | | | MB | Limit | Spike | | Standard | Limit | | | | | |
| BD04078 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.00 | 0.200 | 2.00 | 2.23 | 0.022 | 1.83 | 1.80 to 2.20 | 112 | 90.0 to 110 | 0.00 | 15.0 |
| BD04078 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 2260 | 50.0 | 40.0 to 60.0 | | | 3.05 | 10.0 |

Comments:

Certificate Of Analysis

Description: Gorgas Landfill - MW-10

Location Code: WMWGORLF

Collected: 2/22/23 14:30

Customer ID:

Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04074

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|--------------|-------------------------------------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | | | | | | | |
| | | Analyst: ABB | | | | Preparation Method: EPA 1638 | | | |
| * Boron, Total | 2/24/23 13:19 | 2/27/23 15:19 | | 1.015 | 0.122 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Total | 2/24/23 13:19 | 2/28/23 14:05 | | 10.15 | 152 | mg/L | 0.70035 | 4.06 | |
| * Iron, Total | 2/24/23 13:19 | 2/28/23 14:05 | | 10.15 | 5.86 | mg/L | 0.08120 | 0.406 | |
| * Lithium, Total | 2/24/23 13:19 | 2/27/23 15:19 | | 1.015 | 0.149 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/24/23 13:19 | 3/2/23 13:01 | | 10.15 | 69.1 | mg/L | 0.21315 | 4.06 | |
| * Silica, Total (calc.) | 2/24/23 13:19 | 2/27/23 15:19 | | 1 | 11.5 | mg/L | | | |
| * Silicon, Total | 2/24/23 13:19 | 2/27/23 15:19 | | 1.015 | 5.38 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/24/23 13:19 | 2/28/23 14:05 | | 10.15 | 93.1 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | | | | | | | | |
| | | Analyst: ABB | | | | Preparation Method: EPA 1638 | | | |
| * Boron, Dissolved | 2/23/23 13:36 | 2/27/23 11:32 | | 1.015 | 0.140 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Dissolved | 2/23/23 13:36 | 2/27/23 13:19 | | 10.15 | 163 | mg/L | 0.70035 | 4.06 | |
| * Iron, Dissolved | 2/23/23 13:36 | 2/27/23 11:32 | | 1.015 | 1.94 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 2/23/23 13:36 | 2/27/23 11:32 | | 1.015 | 0.148 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/23/23 13:36 | 2/27/23 13:19 | | 10.15 | 82.2 | mg/L | 0.21315 | 4.06 | |
| * Silica, Dissolved (calc.) | 2/23/23 13:36 | 2/27/23 11:32 | | 1 | 12.3 | mg/L | | | |
| * Silicon, Dissolved | 2/23/23 13:36 | 2/27/23 11:32 | | 1.015 | 5.76 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/23/23 13:36 | 2/27/23 13:19 | | 10.15 | 85.4 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | | | | | | | | |
| | | Analyst: DLJ | | | | Preparation Method: EPA 1638 | | | |
| * Antimony, Total | 2/24/23 13:19 | 2/27/23 17:02 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/24/23 13:19 | 2/27/23 17:02 | | 1.015 | 0.310 | mg/L | 0.006090 | 0.05075 | |
| * Arsenic, Total | 2/24/23 13:19 | 2/27/23 17:02 | | 1.015 | 0.000692 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 2/24/23 13:19 | 2/27/23 17:02 | | 1.015 | 0.0222 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 2/24/23 13:19 | 2/27/23 17:02 | | 1.015 | 0.000498 | mg/L | 0.000406 | 0.001015 | J |
| * Cadmium, Total | 2/24/23 13:19 | 2/27/23 17:02 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/24/23 13:19 | 2/27/23 17:02 | | 1.015 | 0.000277 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 2/24/23 13:19 | 2/27/23 17:02 | | 1.015 | 0.00105 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 2/24/23 13:19 | 2/27/23 17:02 | | 1.015 | 0.000155 | mg/L | 0.000068 | 0.000203 | J |
| * Manganese, Total | 3/16/23 12:06 | 3/16/23 12:43 | | 1.015 | 0.673 | mg/L | 0.000152 | 0.001015 | C |
| * Molybdenum, Total | 2/24/23 13:19 | 2/27/23 17:02 | | 1.015 | 0.000111 | mg/L | 0.000102 | 0.000203 | J |
| * Potassium, Total | 2/24/23 13:19 | 2/27/23 17:02 | | 1.015 | 4.64 | 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: Gorgas Landfill - MW-10

Location Code: WMWGORLF
Collected: 2/22/23 14:30
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04074

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|---|---------------|---------------|----------|-------|--------------|-------------------------|----------|----------|---|
| * Selenium, Total | 2/24/23 13:19 | 2/27/23 17:02 | | 1.015 | 0.000611 | mg/L | 0.000508 | 0.001015 | J |
| * Thallium, Total | 2/24/23 13:19 | 2/27/23 17:02 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | | | | | | | | |
| <i>Analyst: DLJ</i> | | | | | | | | | |
| * Antimony, Dissolved | 2/23/23 13:36 | 2/23/23 15:20 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/23/23 13:36 | 2/23/23 15:20 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.05075 | U |
| * Arsenic, Dissolved | 2/23/23 13:36 | 2/23/23 15:20 | | 1.015 | 0.0000835 | mg/L | 0.000081 | 0.000203 | J |
| * Barium, Dissolved | 2/23/23 13:36 | 2/23/23 15:20 | | 1.015 | 0.0191 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 2/23/23 13:36 | 2/28/23 09:59 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/23/23 13:36 | 2/23/23 15:20 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/23/23 13:36 | 2/23/23 15:20 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/23/23 13:36 | 2/23/23 15:20 | | 1.015 | 0.00105 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 2/23/23 13:36 | 2/23/23 15:20 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 3/16/23 08:55 | 3/16/23 11:35 | | 1.015 | 1.06 | mg/L | 0.000152 | 0.001015 | C |
| * Molybdenum, Dissolved | 2/23/23 13:36 | 2/23/23 15:20 | | 1.015 | 0.000225 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 2/23/23 13:36 | 2/23/23 15:20 | | 1.015 | 4.27 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/23/23 13:36 | 2/23/23 15:20 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/23/23 13:36 | 2/23/23 15:20 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | | | | | | | | |
| <i>Analyst: ELH</i> | | | | | | | | | |
| * Mercury, Total by CVAA | 2/27/23 19:37 | 2/28/23 02:19 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | | | | | | | | |
| <i>Analyst: SC</i> | | | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/24/23 11:04 | 2/24/23 11:04 | | 1 | 0.269 | mg/L as N | 0.20 | 0.3 | J |
| Analytical Method: SM 2320 B | | | | | | | | | |
| <i>Analyst: ALH</i> | | | | | | | | | |
| * Alkalinity to pH 4.5 | 3/6/23 13:15 | 3/6/23 14:40 | | 1 | 188 | mg CaCO ₃ /L | | | |
| Analytical Method: SM 2540C | | | | | | | | | |
| <i>Analyst: CNJ</i> | | | | | | | | | |
| * Solids, Dissolved | 2/23/23 13:45 | 2/24/23 13:45 | | 1 | 991 | mg/L | | 75.8 | |
| Analytical Method: SM 4500CO₂ D | | | | | | | | | |
| <i>Analyst: ALH</i> | | | | | | | | | |
| * Bicarbonate Alkalinity, (calc.) | 3/6/23 13:15 | 3/6/23 14:40 | | 1 | 188 | mg CaCO ₃ /L | | 1 | A |
| * Carbonate Alkalinity, (calc.) | 3/6/23 13:15 | 3/6/23 14:40 | | 1 | Not Detected | mg CaCO ₃ /L | | 0.5 | A |
| Analytical Method: SM 5310 B | | | | | | | | | |
| <i>Analyst: SC</i> | | | | | | | | | |
| * Total Organic Carbon | 2/23/23 19:29 | 2/23/23 19:29 | | 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: Gorgas Landfill - MW-10

Location Code: WMWGORLF
Collected: 2/22/23 14:30
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04074

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E Analyst: JCC | | | | | | | | | |
| * Chloride | 2/24/23 14:11 | 2/24/23 14:11 | | 1 | 2.77 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 Analyst: JCC | | | | | | | | | |
| * Fluoride | 2/27/23 12:37 | 2/27/23 12:37 | | 1 | 0.132 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 Analyst: JCC | | | | | | | | | |
| * Sulfate | 3/1/23 13:58 | 3/1/23 13:58 | | 32 | 581 | mg/L | 19.2 | 64 | |
| Analytical Method: Field Measurements Analyst: TJD | | | | | | | | | |
| Conductivity | 2/22/23 14:27 | 2/22/23 14:27 | | | 1326.24 | uS/cm | | | FA |
| pH | 2/22/23 14:27 | 2/22/23 14:27 | | | 6.67 | SU | | | FA |
| Temperature | 2/22/23 14:27 | 2/22/23 14:27 | | | 21.46 | C | | | FA |
| Turbidity | 2/22/23 14:27 | 2/22/23 14:27 | | | 3.07 | NTU | | | FA |
| Sulfide | 2/22/23 14:27 | 2/22/23 14:27 | | | 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: WMWGORLF

Sample Date: 2/22/23 14:30

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-10

Laboratory ID Number: BD04074

| Sample | Analysis | Units | MB | | | | Standard | Standard | | | Rec | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|----------|----------|-----------------|-------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | | MSD | Limit | Rec | | | |
| BD04079 | Aluminum, Dissolved | mg/L | -0.000276 | 0.0198 | 0.100 | 0.0898 | 0.0939 | 0.0965 | 0.0850 to 0.115 | 89.8 | 70.0 to 130 | 4.46 | 20.0 |
| BD04078 | Aluminum, Total | mg/L | 0.000405 | 0.0198 | 0.100 | 0.101 | 0.102 | 0.104 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BD04079 | Antimony, Dissolved | mg/L | 0.000346 | 0.00100 | 0.100 | 0.0869 | 0.0903 | 0.0904 | 0.0850 to 0.115 | 86.9 | 70.0 to 130 | 3.84 | 20.0 |
| BD04078 | Antimony, Total | mg/L | 0.000397 | 0.00100 | 0.100 | 0.110 | 0.110 | 0.0988 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 0.00 | 20.0 |
| BD04079 | Arsenic, Dissolved | mg/L | -0.0000191 | 0.000200 | 0.100 | 0.100 | 0.106 | 0.0960 | 0.0850 to 0.115 | 98.2 | 70.0 to 130 | 5.83 | 20.0 |
| BD04078 | Arsenic, Total | mg/L | 0.0000097 | 0.000200 | 0.100 | 0.103 | 0.104 | 0.0999 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.966 | 20.0 |
| BD04079 | Barium, Dissolved | mg/L | -0.0000092 | 0.00100 | 0.100 | 0.105 | 0.108 | 0.0954 | 0.0850 to 0.115 | 94.3 | 70.0 to 130 | 2.82 | 20.0 |
| BD04078 | Barium, Total | mg/L | -0.0000132 | 0.00100 | 0.100 | 0.120 | 0.123 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.47 | 20.0 |
| BD04079 | Beryllium, Dissolved | mg/L | 0.0000161 | 0.000880 | 0.100 | 0.104 | 0.102 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BD04078 | Beryllium, Total | mg/L | 0.0000113 | 0.000880 | 0.100 | 0.0915 | 0.0912 | 0.0997 | 0.0850 to 0.115 | 91.5 | 70.0 to 130 | 0.328 | 20.0 |
| BD04079 | Boron, Dissolved | mg/L | -0.00311 | 0.0650 | 1.00 | 1.09 | 1.08 | 1.01 | 0.850 to 1.15 | 105 | 70.0 to 130 | 0.922 | 20.0 |
| BD04078 | Boron, Total | mg/L | -0.00347 | 0.0650 | 1.00 | 1.08 | 1.07 | 1.00 | 0.850 to 1.15 | 104 | 70.0 to 130 | 0.930 | 20.0 |
| BD04079 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0905 | 0.0950 | 0.0975 | 0.0850 to 0.115 | 90.5 | 70.0 to 130 | 4.85 | 20.0 |
| BD04078 | Cadmium, Total | mg/L | 0.0000042 | 0.000147 | 0.100 | 0.0993 | 0.0984 | 0.104 | 0.0850 to 0.115 | 99.3 | 70.0 to 130 | 0.910 | 20.0 |
| BD04079 | Calcium, Dissolved | mg/L | -0.0143 | 0.152 | 5.00 | 316 | 324 | 5.07 | 4.25 to 5.75 | -360 | 70.0 to 130 | 2.50 | 20.0 |
| BD04078 | Calcium, Total | mg/L | -0.0229 | 0.152 | 5.00 | 296 | 308 | 4.80 | 4.25 to 5.75 | -20.0 | 70.0 to 130 | 3.97 | 20.0 |
| BD04078 | Chloride | mg/L | 0.0274 | 1.00 | 10.0 | 13.1 | 13.0 | 10.1 | 9.00 to 11.0 | 102 | 80.0 to 120 | 0.766 | 20.0 |
| BD04079 | Chromium, Dissolved | mg/L | -0.0000558 | 0.000440 | 0.100 | 0.0917 | 0.0975 | 0.0989 | 0.0850 to 0.115 | 91.7 | 70.0 to 130 | 6.13 | 20.0 |
| BD04078 | Chromium, Total | mg/L | 0.0000667 | 0.000440 | 0.100 | 0.102 | 0.103 | 0.106 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BD04079 | Cobalt, Dissolved | mg/L | -0.0000015 | 0.000147 | 0.100 | 0.0979 | 0.102 | 0.0995 | 0.0850 to 0.115 | 89.1 | 70.0 to 130 | 4.10 | 20.0 |
| BD04078 | Cobalt, Total | mg/L | 0.0000023 | 0.000147 | 0.100 | 0.116 | 0.114 | 0.112 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 1.74 | 20.0 |
| BD04078 | Fluoride | mg/L | 0.0384 | 0.125 | 2.50 | 2.72 | 2.79 | 2.59 | 2.25 to 2.75 | 102 | 80.0 to 120 | 2.54 | 20.0 |
| BD04079 | Iron, Dissolved | mg/L | -0.000232 | 0.0176 | 0.2 | 2.65 | 2.63 | 0.202 | 0.170 to 0.230 | 95.0 | 70.0 to 130 | 0.758 | 20.0 |
| BD04078 | Iron, Total | mg/L | 0.000927 | 0.0176 | 0.2 | 2.70 | 2.68 | 0.200 | 0.170 to 0.230 | 90.0 | 70.0 to 130 | 0.743 | 20.0 |

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

Batch QC Summary

Customer Account: WMWGORLF
Sample Date: 2/22/23 14:30
Customer ID:
Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-10

Laboratory ID Number: BD04074

| Sample | Analysis | Units | MB | | | | Standard | Limit | Rec | Limit | Prec | Limit | |
|---------|------------------------|-------|------------|----------|-------|---------|----------|---------|--------------------|-------|-------------|-------|------|
| | | | MB | Limit | Spike | MS | | | | | | | |
| BD04079 | Lead, Dissolved | mg/L | 0.0000017 | 0.000147 | 0.100 | 0.0928 | 0.101 | 0.100 | 0.0850 to 0.115 | 92.8 | 70.0 to 130 | 8.46 | 20.0 |
| BD04078 | Lead, Total | mg/L | 0.000011 | 0.000147 | 0.100 | 0.107 | 0.108 | 0.112 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.930 | 20.0 |
| BD04079 | Lithium, Dissolved | mg/L | 0.000766 | 0.0154 | 0.200 | 0.228 | 0.225 | 0.194 | 0.170 to 0.230 | 106 | 70.0 to 130 | 1.32 | 20.0 |
| BD04078 | Lithium, Total | mg/L | -0.000337 | 0.0154 | 0.200 | 0.233 | 0.227 | 0.198 | 0.170 to 0.230 | 108 | 70.0 to 130 | 2.61 | 20.0 |
| BD04079 | Magnesium, Dissolved | mg/L | -0.0245 | 0.0462 | 5.00 | 279 | 285 | 5.09 | 4.25 to 5.75 | -240 | 70.0 to 130 | 2.13 | 20.0 |
| BD04078 | Magnesium, Total | mg/L | -0.00494 | 0.0462 | 5.00 | 253 | 252 | 5.01 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.396 | 20.0 |
| BD04074 | Manganese, Dissolved | mg/L | 0.0000325 | 0.00033 | 0.100 | 1.13 | 1.13 | 0.101 | 0.0850 to 0.115 | 70.0 | 70.0 to 130 | 0.00 | 20.0 |
| BD04074 | Manganese, Total | mg/L | -0.0000089 | 0.00033 | 0.100 | 0.769 | 0.769 | 0.102 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 0.00 | 20.0 |
| BD04079 | Mercury, Total by CVAA | mg/L | -1.000E-05 | 0.000500 | 0.004 | 0.00376 | 0.00369 | 0.00348 | 0.00340 to 0.00460 | 94.0 | 70.0 to 130 | 1.88 | 20.0 |
| BD04079 | Molybdenum, Dissolved | mg/L | 0.0000079 | 0.0002 | 0.100 | 0.0959 | 0.0992 | 0.0972 | 0.0850 to 0.115 | 95.4 | 70.0 to 130 | 3.38 | 20.0 |
| BD04078 | Molybdenum, Total | mg/L | 0.000028 | 0.0002 | 0.100 | 0.104 | 0.104 | 0.103 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BD04079 | Potassium, Dissolved | mg/L | -0.00373 | 0.367 | 10.0 | 15.8 | 17.1 | 9.85 | 8.50 to 11.5 | 87.2 | 70.0 to 130 | 7.90 | 20.0 |
| BD04078 | Potassium, Total | mg/L | 0.0259 | 0.367 | 10.0 | 17.7 | 18.2 | 10.3 | 8.50 to 11.5 | 96.7 | 70.0 to 130 | 2.79 | 20.0 |
| BD04079 | Selenium, Dissolved | mg/L | -0.0000434 | 0.00100 | 0.100 | 0.110 | 0.115 | 0.101 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 4.44 | 20.0 |
| BD04078 | Selenium, Total | mg/L | 0.0000768 | 0.00100 | 0.100 | 0.103 | 0.103 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BD04079 | Silicon, Dissolved | mg/L | -0.000019 | 0.0440 | 1.00 | 6.89 | 6.88 | 1.01 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.145 | 20.0 |
| BD04078 | Silicon, Total | mg/L | 0.000121 | 0.0440 | 1.00 | 6.85 | 6.81 | 0.995 | 0.850 to 1.15 | 93.0 | 70.0 to 130 | 0.586 | 20.0 |
| BD04079 | Sodium, Dissolved | mg/L | -0.00164 | 0.0880 | 5.00 | 31.9 | 31.6 | 4.91 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.945 | 20.0 |
| BD04078 | Sodium, Total | mg/L | -0.000766 | 0.0880 | 5.00 | 31.7 | 31.2 | 4.88 | 4.25 to 5.75 | 112 | 70.0 to 130 | 1.59 | 20.0 |
| BD04078 | Sulfate | mg/L | 0.0571 | 2.0 | 1600 | 2960 | 3050 | 19.3 | 18.0 to 22.0 | 101 | 80.0 to 120 | 3.00 | 20.0 |
| BD04079 | Thallium, Dissolved | mg/L | -0.0000047 | 0.000147 | 0.100 | 0.0942 | 0.101 | 0.101 | 0.0850 to 0.115 | 94.2 | 70.0 to 130 | 6.97 | 20.0 |
| BD04078 | Thallium, Total | mg/L | 0.0000046 | 0.000147 | 0.100 | 0.111 | 0.107 | 0.110 | 0.0850 to 0.115 | 111 | 70.0 to 130 | 3.67 | 20.0 |
| BD04078 | Total Organic Carbon | mg/L | 0.0924 | 1.00 | 10.0 | 11.5 | 13.9 | 25.5 | | 104 | 80.0 to 120 | 18.9 | 20.0 |

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

Batch QC Summary

Customer Account: WMWGORLF

Sample Date: 2/22/23 14:30

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-10

Laboratory ID Number: BD04074

| Sample | Analysis | Units | MB | MB | | | Sample Duplicate | Standard Standard | Standard | | | Rec Rec | Limit Limit | Prec Prec | Limit Limit |
|---------|---------------------------|-------------------------|------|-------|-------|------|------------------|-------------------|--------------|-----|-------------|---------|-------------|-----------|-------------|
| | | | | Limit | Spike | MS | | | Limit | Rec | Prec | | | | |
| BD04089 | Alkalinity to pH 4.5 | mg CaCO ₃ /L | | | | | 214 | 50.4 | 45.0 to 55.0 | | | | 0.00 | 10.0 | |
| BD04078 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.00 | 0.200 | 2.00 | 2.23 | 0.022 | 1.83 | 1.80 to 2.20 | 112 | 90.0 to 110 | 0.00 | 15.0 | | |
| BD04078 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 2260 | 50.0 | 40.0 to 60.0 | | | 3.05 | 10.0 | | |

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

Certificate Of Analysis

Description: Gorgas Landfill - MW-13

Location Code: WMWGORLF
Collected: 2/20/23 11:02
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04075

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|----------|-------|--------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | | | | | | | |
| * Boron, Total | 2/24/23 13:19 | 2/27/23 15:23 | | 1.015 | 0.0511 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 2/24/23 13:19 | 2/28/23 14:08 | | 10.15 | 191 | mg/L | 0.70035 | 4.06 | |
| * Iron, Total | 2/24/23 13:19 | 2/27/23 15:23 | | 1.015 | 0.0377 | mg/L | 0.008120 | 0.0406 | J |
| * Lithium, Total | 2/24/23 13:19 | 2/27/23 15:23 | | 1.015 | 0.0158 | mg/L | 0.007105 | 0.01999956 | J |
| * Magnesium, Total | 2/24/23 13:19 | 3/2/23 13:04 | | 10.15 | 225 | mg/L | 0.21315 | 4.06 | |
| * Silica, Total (calc.) | 2/24/23 13:19 | 2/27/23 15:23 | | 1 | 8.62 | mg/L | | | |
| * Silicon, Total | 2/24/23 13:19 | 2/27/23 15:23 | | 1.015 | 4.03 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/24/23 13:19 | 2/27/23 15:23 | | 1.015 | 30.0 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | | | | | | | | |
| * Boron, Dissolved | 2/23/23 13:36 | 2/27/23 11:35 | | 1.015 | 0.0513 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 2/23/23 13:36 | 2/27/23 13:22 | | 10.15 | 213 | mg/L | 0.70035 | 4.06 | |
| * Iron, Dissolved | 2/23/23 13:36 | 2/27/23 11:35 | | 1.015 | 0.0345 | mg/L | 0.008120 | 0.0406 | J |
| * Lithium, Dissolved | 2/23/23 13:36 | 2/27/23 11:35 | | 1.015 | 0.0152 | mg/L | 0.007105 | 0.01999956 | J |
| * Magnesium, Dissolved | 2/23/23 13:36 | 2/27/23 13:22 | | 10.15 | 259 | mg/L | 0.21315 | 4.06 | |
| * Silica, Dissolved (calc.) | 2/23/23 13:36 | 2/27/23 11:35 | | 1 | 8.67 | mg/L | | | |
| * Silicon, Dissolved | 2/23/23 13:36 | 2/27/23 11:35 | | 1.015 | 4.05 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/23/23 13:36 | 2/27/23 11:35 | | 1.015 | 29.9 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | | | | | | | | |
| * Antimony, Total | 2/24/23 13:19 | 2/27/23 17:06 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/24/23 13:19 | 2/27/23 17:06 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.05075 | U |
| * Arsenic, Total | 2/24/23 13:19 | 2/27/23 17:06 | | 1.015 | 0.000164 | mg/L | 0.000081 | 0.000203 | J |
| * Barium, Total | 2/24/23 13:19 | 2/27/23 17:06 | | 1.015 | 0.0100 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 2/24/23 13:19 | 2/27/23 17:06 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/24/23 13:19 | 2/27/23 17:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/24/23 13:19 | 2/27/23 17:06 | | 1.015 | 0.000210 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 2/24/23 13:19 | 2/27/23 17:06 | | 1.015 | 0.00540 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 2/24/23 13:19 | 2/27/23 17:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/24/23 13:19 | 2/27/23 18:59 | | 5.075 | 2.30 | mg/L | 0.000761 | 0.005075 | |
| * Molybdenum, Total | 2/24/23 13:19 | 2/27/23 17:06 | | 1.015 | 0.000340 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 2/24/23 13:19 | 2/27/23 17:06 | | 1.015 | 7.61 | 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: Gorgas Landfill - MW-13

Location Code: WMWGORLF
Collected: 2/20/23 11:02
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04075

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------|----------|-------|--------------|-------------------------|----------|----------|---|
| * Selenium, Total | 2/24/23 13:19 | 2/27/23 17:06 | | 1.015 | 0.00148 | mg/L | 0.000508 | 0.001015 | |
| * Thallium, Total | 2/24/23 13:19 | 2/27/23 17:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | | | | | | | | |
| <i>Analyst: DLJ</i> | | | | | | | | | |
| * Antimony, Dissolved | 2/23/23 13:36 | 2/23/23 15:24 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/23/23 13:36 | 2/23/23 15:24 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.05075 | U |
| * Arsenic, Dissolved | 2/23/23 13:36 | 2/23/23 15:24 | | 1.015 | Not Detected | mg/L | 0.000081 | 0.000203 | U |
| * Barium, Dissolved | 2/23/23 13:36 | 2/23/23 15:24 | | 1.015 | 0.00905 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 2/23/23 13:36 | 2/28/23 10:02 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/23/23 13:36 | 2/23/23 15:24 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/23/23 13:36 | 2/23/23 15:24 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/23/23 13:36 | 2/23/23 15:24 | | 1.015 | 0.00475 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 2/23/23 13:36 | 2/23/23 15:24 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/23/23 13:36 | 2/28/23 11:34 | | 5.075 | 2.35 | mg/L | 0.000761 | 0.005075 | |
| * Molybdenum, Dissolved | 2/23/23 13:36 | 2/23/23 15:24 | | 1.015 | 0.00100 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 2/23/23 13:36 | 2/23/23 15:24 | | 1.015 | 6.80 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/23/23 13:36 | 2/23/23 15:24 | | 1.015 | 0.00176 | mg/L | 0.000508 | 0.001015 | |
| * Thallium, Dissolved | 2/23/23 13:36 | 2/23/23 15:24 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | | | | | | | | |
| <i>Analyst: ELH</i> | | | | | | | | | |
| * Mercury, Total by CVAA | 2/27/23 19:37 | 2/28/23 02:23 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | | | | | | | | |
| <i>Analyst: SC</i> | | | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/24/23 11:06 | 2/24/23 11:06 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | | | | | | | | |
| <i>Analyst: ALH</i> | | | | | | | | | |
| * Alkalinity to pH 4.5 | 3/3/23 14:10 | 3/3/23 15:40 | | 1 | 233 | mg CaCO ₃ /L | | | |
| Analytical Method: SM 2540C | | | | | | | | | |
| <i>Analyst: CNJ</i> | | | | | | | | | |
| * Solids, Dissolved | 2/23/23 13:45 | 2/24/23 13:45 | | 1 | 1920 | mg/L | | 125 | |
| Analytical Method: SM 4500CO2 D | | | | | | | | | |
| <i>Analyst: ALH</i> | | | | | | | | | |
| * Bicarbonate Alkalinity, (calc.) | 3/3/23 14:10 | 3/3/23 15:40 | | 1 | 233 | mg CaCO ₃ /L | | 1 | A |
| * Carbonate Alkalinity, (calc.) | 3/3/23 14:10 | 3/3/23 15:40 | | 1 | Not Detected | mg CaCO ₃ /L | | 0.5 | A |
| Analytical Method: SM 5310 B | | | | | | | | | |
| <i>Analyst: SC</i> | | | | | | | | | |
| * Total Organic Carbon | 2/23/23 19:48 | 2/23/23 19:48 | | 1 | 1.37 | 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: Gorgas Landfill - MW-13

Location Code: WMWGORLF
Collected: 2/20/23 11:02
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04075

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E Analyst: JCC | | | | | | | | | |
| * Chloride | 2/24/23 14:12 | 2/24/23 14:12 | | 1 | 1.63 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 Analyst: JCC | | | | | | | | | |
| * Fluoride | 2/27/23 12:38 | 2/27/23 12:38 | | 1 | 0.243 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 Analyst: JCC | | | | | | | | | |
| * Sulfate | 3/1/23 13:59 | 3/1/23 13:59 | | 50 | 1150 | mg/L | 30.0 | 100 | |
| Analytical Method: Field Measurements Analyst: DKG | | | | | | | | | |
| Conductivity | 2/20/23 10:59 | 2/20/23 10:59 | | | 2211.86 | uS/cm | | | FA |
| pH | 2/20/23 10:59 | 2/20/23 10:59 | | | 6.58 | SU | | | FA |
| Temperature | 2/20/23 10:59 | 2/20/23 10:59 | | | 18.98 | C | | | FA |
| Turbidity | 2/20/23 10:59 | 2/20/23 10:59 | | | 1.6 | NTU | | | FA |
| Sulfide | 2/20/23 10:59 | 2/20/23 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: WMWGORLF

Sample Date: 2/20/23 11:02

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-13

Laboratory ID Number: BD04075

| Sample | Analysis | Units | MB | | | | Standard | Standard | | | Rec | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|----------|----------|-----------------|-------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | | MSD | Limit | Rec | | | |
| BD04079 | Aluminum, Dissolved | mg/L | -0.000276 | 0.0198 | 0.100 | 0.0898 | 0.0939 | 0.0965 | 0.0850 to 0.115 | 89.8 | 70.0 to 130 | 4.46 | 20.0 |
| BD04078 | Aluminum, Total | mg/L | 0.000405 | 0.0198 | 0.100 | 0.101 | 0.102 | 0.104 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BD04079 | Antimony, Dissolved | mg/L | 0.000346 | 0.00100 | 0.100 | 0.0869 | 0.0903 | 0.0904 | 0.0850 to 0.115 | 86.9 | 70.0 to 130 | 3.84 | 20.0 |
| BD04078 | Antimony, Total | mg/L | 0.000397 | 0.00100 | 0.100 | 0.110 | 0.110 | 0.0988 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 0.00 | 20.0 |
| BD04079 | Arsenic, Dissolved | mg/L | -0.0000191 | 0.000200 | 0.100 | 0.100 | 0.106 | 0.0960 | 0.0850 to 0.115 | 98.2 | 70.0 to 130 | 5.83 | 20.0 |
| BD04078 | Arsenic, Total | mg/L | 0.0000097 | 0.000200 | 0.100 | 0.103 | 0.104 | 0.0999 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.966 | 20.0 |
| BD04079 | Barium, Dissolved | mg/L | -0.0000092 | 0.00100 | 0.100 | 0.105 | 0.108 | 0.0954 | 0.0850 to 0.115 | 94.3 | 70.0 to 130 | 2.82 | 20.0 |
| BD04078 | Barium, Total | mg/L | -0.0000132 | 0.00100 | 0.100 | 0.120 | 0.123 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.47 | 20.0 |
| BD04079 | Beryllium, Dissolved | mg/L | 0.0000161 | 0.000880 | 0.100 | 0.104 | 0.102 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BD04078 | Beryllium, Total | mg/L | 0.0000113 | 0.000880 | 0.100 | 0.0915 | 0.0912 | 0.0997 | 0.0850 to 0.115 | 91.5 | 70.0 to 130 | 0.328 | 20.0 |
| BD04079 | Boron, Dissolved | mg/L | -0.00311 | 0.0650 | 1.00 | 1.09 | 1.08 | 1.01 | 0.850 to 1.15 | 105 | 70.0 to 130 | 0.922 | 20.0 |
| BD04078 | Boron, Total | mg/L | -0.00347 | 0.0650 | 1.00 | 1.08 | 1.07 | 1.00 | 0.850 to 1.15 | 104 | 70.0 to 130 | 0.930 | 20.0 |
| BD04079 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0905 | 0.0950 | 0.0975 | 0.0850 to 0.115 | 90.5 | 70.0 to 130 | 4.85 | 20.0 |
| BD04078 | Cadmium, Total | mg/L | 0.0000042 | 0.000147 | 0.100 | 0.0993 | 0.0984 | 0.104 | 0.0850 to 0.115 | 99.3 | 70.0 to 130 | 0.910 | 20.0 |
| BD04079 | Calcium, Dissolved | mg/L | -0.0143 | 0.152 | 5.00 | 316 | 324 | 5.07 | 4.25 to 5.75 | -360 | 70.0 to 130 | 2.50 | 20.0 |
| BD04078 | Calcium, Total | mg/L | -0.0229 | 0.152 | 5.00 | 296 | 308 | 4.80 | 4.25 to 5.75 | -20.0 | 70.0 to 130 | 3.97 | 20.0 |
| BD04078 | Chloride | mg/L | 0.0274 | 1.00 | 10.0 | 13.1 | 13.0 | 10.1 | 9.00 to 11.0 | 102 | 80.0 to 120 | 0.766 | 20.0 |
| BD04079 | Chromium, Dissolved | mg/L | -0.0000558 | 0.000440 | 0.100 | 0.0917 | 0.0975 | 0.0989 | 0.0850 to 0.115 | 91.7 | 70.0 to 130 | 6.13 | 20.0 |
| BD04078 | Chromium, Total | mg/L | 0.0000667 | 0.000440 | 0.100 | 0.102 | 0.103 | 0.106 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BD04079 | Cobalt, Dissolved | mg/L | -0.0000015 | 0.000147 | 0.100 | 0.0979 | 0.102 | 0.0995 | 0.0850 to 0.115 | 89.1 | 70.0 to 130 | 4.10 | 20.0 |
| BD04078 | Cobalt, Total | mg/L | 0.0000023 | 0.000147 | 0.100 | 0.116 | 0.114 | 0.112 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 1.74 | 20.0 |
| BD04078 | Fluoride | mg/L | 0.0384 | 0.125 | 2.50 | 2.72 | 2.79 | 2.59 | 2.25 to 2.75 | 102 | 80.0 to 120 | 2.54 | 20.0 |
| BD04079 | Iron, Dissolved | mg/L | -0.000232 | 0.0176 | 0.2 | 2.65 | 2.63 | 0.202 | 0.170 to 0.230 | 95.0 | 70.0 to 130 | 0.758 | 20.0 |
| BD04078 | Iron, Total | mg/L | 0.000927 | 0.0176 | 0.2 | 2.70 | 2.68 | 0.200 | 0.170 to 0.230 | 90.0 | 70.0 to 130 | 0.743 | 20.0 |

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

Batch QC Summary

Customer Account: WMWGORLF
Sample Date: 2/20/23 11:02
Customer ID:
Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-13

Laboratory ID Number: BD04075

| Sample | Analysis | Units | MB | | | | Standard | Limit | Standard | | | Rec | Limit | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|----------|---------|--------------------|----------|-------------|-------|-------|------|-------|
| | | | MB | Limit | Spike | MS | | | MSD | Standard | Limit | | | | |
| BD04079 | Lead, Dissolved | mg/L | 0.0000017 | 0.000147 | 0.100 | 0.0928 | 0.101 | 0.100 | 0.0850 to 0.115 | 92.8 | 70.0 to 130 | 8.46 | 20.0 | | |
| BD04078 | Lead, Total | mg/L | 0.000011 | 0.000147 | 0.100 | 0.107 | 0.108 | 0.112 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.930 | 20.0 | | |
| BD04079 | Lithium, Dissolved | mg/L | 0.000766 | 0.0154 | 0.200 | 0.228 | 0.225 | 0.194 | 0.170 to 0.230 | 106 | 70.0 to 130 | 1.32 | 20.0 | | |
| BD04078 | Lithium, Total | mg/L | -0.000337 | 0.0154 | 0.200 | 0.233 | 0.227 | 0.198 | 0.170 to 0.230 | 108 | 70.0 to 130 | 2.61 | 20.0 | | |
| BD04079 | Magnesium, Dissolved | mg/L | -0.0245 | 0.0462 | 5.00 | 279 | 285 | 5.09 | 4.25 to 5.75 | -240 | 70.0 to 130 | 2.13 | 20.0 | | |
| BD04078 | Magnesium, Total | mg/L | -0.00494 | 0.0462 | 5.00 | 253 | 252 | 5.01 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.396 | 20.0 | | |
| BD04079 | Manganese, Dissolved | mg/L | 0.0000252 | 0.00033 | 0.100 | 2.64 | 2.71 | 0.0997 | 0.0850 to 0.115 | 20.0 | 70.0 to 130 | 2.62 | 20.0 | | |
| BD04078 | Manganese, Total | mg/L | -0.0000306 | 0.00033 | 0.100 | 2.74 | 2.72 | 0.107 | 0.0850 to 0.115 | 10.0 | 70.0 to 130 | 0.733 | 20.0 | | |
| BD04079 | Mercury, Total by CVAA | mg/L | -1.000E-05 | 0.000500 | 0.004 | 0.00376 | 0.00369 | 0.00348 | 0.00340 to 0.00460 | 94.0 | 70.0 to 130 | 1.88 | 20.0 | | |
| BD04079 | Molybdenum, Dissolved | mg/L | 0.0000079 | 0.0002 | 0.100 | 0.0959 | 0.0992 | 0.0972 | 0.0850 to 0.115 | 95.4 | 70.0 to 130 | 3.38 | 20.0 | | |
| BD04078 | Molybdenum, Total | mg/L | 0.000028 | 0.0002 | 0.100 | 0.104 | 0.104 | 0.103 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 | | |
| BD04079 | Potassium, Dissolved | mg/L | -0.00373 | 0.367 | 10.0 | 15.8 | 17.1 | 9.85 | 8.50 to 11.5 | 87.2 | 70.0 to 130 | 7.90 | 20.0 | | |
| BD04078 | Potassium, Total | mg/L | 0.0259 | 0.367 | 10.0 | 17.7 | 18.2 | 10.3 | 8.50 to 11.5 | 96.7 | 70.0 to 130 | 2.79 | 20.0 | | |
| BD04079 | Selenium, Dissolved | mg/L | -0.0000434 | 0.00100 | 0.100 | 0.110 | 0.115 | 0.101 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 4.44 | 20.0 | | |
| BD04078 | Selenium, Total | mg/L | 0.0000768 | 0.00100 | 0.100 | 0.103 | 0.103 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 | | |
| BD04079 | Silicon, Dissolved | mg/L | -0.000019 | 0.0440 | 1.00 | 6.89 | 6.88 | 1.01 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.145 | 20.0 | | |
| BD04078 | Silicon, Total | mg/L | 0.000121 | 0.0440 | 1.00 | 6.85 | 6.81 | 0.995 | 0.850 to 1.15 | 93.0 | 70.0 to 130 | 0.586 | 20.0 | | |
| BD04079 | Sodium, Dissolved | mg/L | -0.00164 | 0.0880 | 5.00 | 31.9 | 31.6 | 4.91 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.945 | 20.0 | | |
| BD04078 | Sodium, Total | mg/L | -0.000766 | 0.0880 | 5.00 | 31.7 | 31.2 | 4.88 | 4.25 to 5.75 | 112 | 70.0 to 130 | 1.59 | 20.0 | | |
| BD04078 | Sulfate | mg/L | 0.0571 | 2.0 | 1600 | 2960 | 3050 | 19.3 | 18.0 to 22.0 | 101 | 80.0 to 120 | 3.00 | 20.0 | | |
| BD04079 | Thallium, Dissolved | mg/L | -0.0000047 | 0.000147 | 0.100 | 0.0942 | 0.101 | 0.101 | 0.0850 to 0.115 | 94.2 | 70.0 to 130 | 6.97 | 20.0 | | |
| BD04078 | Thallium, Total | mg/L | 0.0000046 | 0.000147 | 0.100 | 0.111 | 0.107 | 0.110 | 0.0850 to 0.115 | 111 | 70.0 to 130 | 3.67 | 20.0 | | |
| BD04078 | Total Organic Carbon | mg/L | 0.0924 | 1.00 | 10.0 | 11.5 | 13.9 | 25.5 | | 104 | 80.0 to 120 | 18.9 | 20.0 | | |

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

Batch QC Summary

Customer Account: WMWGORLF

Sample Date: 2/20/23 11:02

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-13

Laboratory ID Number: BD04075

| Sample | Analysis | Units | MB | MB | | | Sample Duplicate | Standard Standard | Standard | | | Rec Rec | Limit Limit | Prec Prec | Limit Limit |
|---------|---------------------------|-------------------------|------|-------|-------|------|------------------|-------------------|--------------|-----|-------------|---------|-------------|-----------|-------------|
| | | | | Limit | Spike | MS | | | Limit | Rec | Prec | | | | |
| BD04082 | Alkalinity to pH 4.5 | mg CaCO ₃ /L | | | | | 144 | 49.9 | 45.0 to 55.0 | | | | 0.00 | 10.0 | |
| BD04078 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.00 | 0.200 | 2.00 | 2.23 | 0.022 | 1.83 | 1.80 to 2.20 | 112 | 90.0 to 110 | 0.00 | 15.0 | | |
| BD04078 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 2260 | 50.0 | 40.0 to 60.0 | | | 3.05 | 10.0 | | |

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

Certificate Of Analysis

Description: Gorgas Landfill - MW-14

Location Code: WMWGORLF
Collected: 2/20/23 12:02
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04076

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|----------|-------|--------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | | | | | | | |
| * Boron, Total | 2/24/23 13:19 | 2/27/23 15:26 | | 1.015 | 0.0423 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 2/24/23 13:19 | 2/28/23 14:11 | | 10.15 | 281 | mg/L | 0.70035 | 4.06 | |
| * Iron, Total | 2/24/23 13:19 | 2/27/23 15:26 | | 1.015 | 1.41 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 2/24/23 13:19 | 2/27/23 15:26 | | 1.015 | 0.0308 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/24/23 13:19 | 3/2/23 13:07 | | 10.15 | 333 | mg/L | 0.21315 | 4.06 | |
| * Silica, Total (calc.) | 2/24/23 13:19 | 2/27/23 15:26 | | 1 | 11.4 | mg/L | | | |
| * Silicon, Total | 2/24/23 13:19 | 2/27/23 15:26 | | 1.015 | 5.34 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/24/23 13:19 | 2/27/23 15:26 | | 1.015 | 24.0 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | | | | | | | | |
| * Boron, Dissolved | 2/23/23 13:36 | 2/27/23 11:38 | | 1.015 | 0.0428 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 2/23/23 13:36 | 2/27/23 13:26 | | 10.15 | 285 | mg/L | 0.70035 | 4.06 | |
| * Iron, Dissolved | 2/23/23 13:36 | 2/27/23 11:38 | | 1.015 | 1.20 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 2/23/23 13:36 | 2/27/23 11:38 | | 1.015 | 0.0307 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/23/23 13:36 | 2/27/23 13:26 | | 10.15 | 334 | mg/L | 0.21315 | 4.06 | |
| * Silica, Dissolved (calc.) | 2/23/23 13:36 | 2/27/23 11:38 | | 1 | 11.6 | mg/L | | | |
| * Silicon, Dissolved | 2/23/23 13:36 | 2/27/23 11:38 | | 1.015 | 5.42 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/23/23 13:36 | 2/27/23 11:38 | | 1.015 | 24.2 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | | | | | | | | |
| * Antimony, Total | 2/24/23 13:19 | 2/27/23 17:09 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/24/23 13:19 | 2/27/23 17:09 | | 1.015 | 0.00621 | mg/L | 0.006090 | 0.05075 | J |
| * Arsenic, Total | 2/24/23 13:19 | 2/27/23 17:09 | | 1.015 | 0.000883 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 2/24/23 13:19 | 2/27/23 17:09 | | 1.015 | 0.0113 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 2/24/23 13:19 | 2/27/23 17:09 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/24/23 13:19 | 2/27/23 17:09 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/24/23 13:19 | 2/27/23 17:09 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Total | 2/24/23 13:19 | 2/27/23 17:09 | | 1.015 | 0.00829 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 2/24/23 13:19 | 2/27/23 17:09 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/24/23 13:19 | 2/27/23 19:03 | | 5.075 | 1.95 | mg/L | 0.000761 | 0.005075 | |
| * Molybdenum, Total | 2/24/23 13:19 | 2/27/23 17:09 | | 1.015 | 0.00444 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 2/24/23 13:19 | 2/27/23 17:09 | | 1.015 | 8.02 | 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: Gorgas Landfill - MW-14

Location Code: WMWGORLF
Collected: 2/20/23 12:02
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04076

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------|----------|-------|--------------|-------------------------|----------|----------|---|
| * Selenium, Total | 2/24/23 13:19 | 2/27/23 17:09 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/24/23 13:19 | 2/27/23 17:09 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | | | | | | | | |
| <i>Analyst: DLJ</i> | | | | | | | | | |
| * Antimony, Dissolved | 2/23/23 13:36 | 2/23/23 15:28 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/23/23 13:36 | 2/23/23 15:28 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.05075 | U |
| * Arsenic, Dissolved | 2/23/23 13:36 | 2/23/23 15:28 | | 1.015 | 0.000639 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 2/23/23 13:36 | 2/23/23 15:28 | | 1.015 | 0.0106 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 2/23/23 13:36 | 2/28/23 10:06 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/23/23 13:36 | 2/23/23 15:28 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/23/23 13:36 | 2/23/23 15:28 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/23/23 13:36 | 2/23/23 15:28 | | 1.015 | 0.00732 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 2/23/23 13:36 | 2/23/23 15:28 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/23/23 13:36 | 2/28/23 11:38 | | 5.075 | 1.89 | mg/L | 0.000761 | 0.005075 | |
| * Molybdenum, Dissolved | 2/23/23 13:36 | 2/23/23 15:28 | | 1.015 | 0.00430 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 2/23/23 13:36 | 2/23/23 15:28 | | 1.015 | 7.36 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/23/23 13:36 | 2/23/23 15:28 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/23/23 13:36 | 2/23/23 15:28 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | | | | | | | | |
| <i>Analyst: ELH</i> | | | | | | | | | |
| * Mercury, Total by CVAA | 2/27/23 19:37 | 2/28/23 02:27 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | | | | | | | | |
| <i>Analyst: SC</i> | | | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/24/23 11:08 | 2/24/23 11:08 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | | | | | | | | |
| <i>Analyst: ALH</i> | | | | | | | | | |
| * Alkalinity to pH 4.5 | 3/3/23 14:10 | 3/3/23 15:40 | | 1 | 242 | mg CaCO ₃ /L | | | |
| Analytical Method: SM 2540C | | | | | | | | | |
| <i>Analyst: CNJ</i> | | | | | | | | | |
| * Solids, Dissolved | 2/23/23 13:45 | 2/24/23 13:45 | | 1 | 2590 | mg/L | | 178.6 | |
| Analytical Method: SM 4500CO2 D | | | | | | | | | |
| <i>Analyst: ALH</i> | | | | | | | | | |
| * Bicarbonate Alkalinity, (calc.) | 3/3/23 14:10 | 3/3/23 15:40 | | 1 | 242 | mg CaCO ₃ /L | | 1 | A |
| * Carbonate Alkalinity, (calc.) | 3/3/23 14:10 | 3/3/23 15:40 | | 1 | Not Detected | mg CaCO ₃ /L | | 0.5 | A |
| Analytical Method: SM 5310 B | | | | | | | | | |
| <i>Analyst: SC</i> | | | | | | | | | |
| * Total Organic Carbon | 2/23/23 20:07 | 2/23/23 20:07 | | 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: Gorgas Landfill - MW-14

Location Code: WMWGORLF
Collected: 2/20/23 12:02
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04076

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E <i>Analyst: JCC</i> | | | | | | | | | |
| * Chloride | 2/24/23 14:13 | 2/24/23 14:13 | | 1 | 2.04 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 <i>Analyst: JCC</i> | | | | | | | | | |
| * Fluoride | 2/27/23 12:39 | 2/27/23 12:39 | | 1 | 0.226 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 <i>Analyst: JCC</i> | | | | | | | | | |
| * Sulfate | 3/1/23 14:00 | 3/1/23 14:00 | | 50 | 1680 | mg/L | 30.0 | 100 | |
| Analytical Method: Field Measurements <i>Analyst: DKG</i> | | | | | | | | | |
| Conductivity | 2/20/23 11:59 | 2/20/23 11:59 | | | 2825.50 | uS/cm | | | FA |
| pH | 2/20/23 11:59 | 2/20/23 11:59 | | | 6.45 | SU | | | FA |
| Temperature | 2/20/23 11:59 | 2/20/23 11:59 | | | 19.03 | C | | | FA |
| Turbidity | 2/20/23 11:59 | 2/20/23 11:59 | | | 2.26 | NTU | | | FA |
| Sulfide | 2/20/23 11:59 | 2/20/23 11:59 | | | 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: WMWGORLF
Sample Date: 2/20/23 12:02
Customer ID:
Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-14

Laboratory ID Number: BD04076

| Sample | Analysis | Units | MB | | | | Standard | Limit | Rec | Limit | Prec | Limit | |
|---------|----------------------|-------|------------|----------|-------|--------|----------|--------|-----------------|-------|-------------|-------|------|
| | | | MB | Limit | Spike | MS | | | | | | | |
| BD04079 | Aluminum, Dissolved | mg/L | -0.000276 | 0.0198 | 0.100 | 0.0898 | 0.0939 | 0.0965 | 0.0850 to 0.115 | 89.8 | 70.0 to 130 | 4.46 | 20.0 |
| BD04078 | Aluminum, Total | mg/L | 0.000405 | 0.0198 | 0.100 | 0.101 | 0.102 | 0.104 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BD04079 | Antimony, Dissolved | mg/L | 0.000346 | 0.00100 | 0.100 | 0.0869 | 0.0903 | 0.0904 | 0.0850 to 0.115 | 86.9 | 70.0 to 130 | 3.84 | 20.0 |
| BD04078 | Antimony, Total | mg/L | 0.000397 | 0.00100 | 0.100 | 0.110 | 0.110 | 0.0988 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 0.00 | 20.0 |
| BD04079 | Arsenic, Dissolved | mg/L | -0.0000191 | 0.000200 | 0.100 | 0.100 | 0.106 | 0.0960 | 0.0850 to 0.115 | 98.2 | 70.0 to 130 | 5.83 | 20.0 |
| BD04078 | Arsenic, Total | mg/L | 0.0000097 | 0.000200 | 0.100 | 0.103 | 0.104 | 0.0999 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.966 | 20.0 |
| BD04079 | Barium, Dissolved | mg/L | -0.0000092 | 0.00100 | 0.100 | 0.105 | 0.108 | 0.0954 | 0.0850 to 0.115 | 94.3 | 70.0 to 130 | 2.82 | 20.0 |
| BD04078 | Barium, Total | mg/L | -0.0000132 | 0.00100 | 0.100 | 0.120 | 0.123 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.47 | 20.0 |
| BD04079 | Beryllium, Dissolved | mg/L | 0.0000161 | 0.000880 | 0.100 | 0.104 | 0.102 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BD04078 | Beryllium, Total | mg/L | 0.0000113 | 0.000880 | 0.100 | 0.0915 | 0.0912 | 0.0997 | 0.0850 to 0.115 | 91.5 | 70.0 to 130 | 0.328 | 20.0 |
| BD04079 | Boron, Dissolved | mg/L | -0.00311 | 0.0650 | 1.00 | 1.09 | 1.08 | 1.01 | 0.850 to 1.15 | 105 | 70.0 to 130 | 0.922 | 20.0 |
| BD04078 | Boron, Total | mg/L | -0.00347 | 0.0650 | 1.00 | 1.08 | 1.07 | 1.00 | 0.850 to 1.15 | 104 | 70.0 to 130 | 0.930 | 20.0 |
| BD04079 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0905 | 0.0950 | 0.0975 | 0.0850 to 0.115 | 90.5 | 70.0 to 130 | 4.85 | 20.0 |
| BD04078 | Cadmium, Total | mg/L | 0.0000042 | 0.000147 | 0.100 | 0.0993 | 0.0984 | 0.104 | 0.0850 to 0.115 | 99.3 | 70.0 to 130 | 0.910 | 20.0 |
| BD04079 | Calcium, Dissolved | mg/L | -0.0143 | 0.152 | 5.00 | 316 | 324 | 5.07 | 4.25 to 5.75 | -360 | 70.0 to 130 | 2.50 | 20.0 |
| BD04078 | Calcium, Total | mg/L | -0.0229 | 0.152 | 5.00 | 296 | 308 | 4.80 | 4.25 to 5.75 | -20.0 | 70.0 to 130 | 3.97 | 20.0 |
| BD04078 | Chloride | mg/L | 0.0274 | 1.00 | 10.0 | 13.1 | 13.0 | 10.1 | 9.00 to 11.0 | 102 | 80.0 to 120 | 0.766 | 20.0 |
| BD04079 | Chromium, Dissolved | mg/L | -0.0000558 | 0.000440 | 0.100 | 0.0917 | 0.0975 | 0.0989 | 0.0850 to 0.115 | 91.7 | 70.0 to 130 | 6.13 | 20.0 |
| BD04078 | Chromium, Total | mg/L | 0.0000667 | 0.000440 | 0.100 | 0.102 | 0.103 | 0.106 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BD04079 | Cobalt, Dissolved | mg/L | -0.0000015 | 0.000147 | 0.100 | 0.0979 | 0.102 | 0.0995 | 0.0850 to 0.115 | 89.1 | 70.0 to 130 | 4.10 | 20.0 |
| BD04078 | Cobalt, Total | mg/L | 0.0000023 | 0.000147 | 0.100 | 0.116 | 0.114 | 0.112 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 1.74 | 20.0 |
| BD04078 | Fluoride | mg/L | 0.0384 | 0.125 | 2.50 | 2.72 | 2.79 | 2.59 | 2.25 to 2.75 | 102 | 80.0 to 120 | 2.54 | 20.0 |
| BD04079 | Iron, Dissolved | mg/L | -0.000232 | 0.0176 | 0.2 | 2.65 | 2.63 | 0.202 | 0.170 to 0.230 | 95.0 | 70.0 to 130 | 0.758 | 20.0 |
| BD04078 | Iron, Total | mg/L | 0.000927 | 0.0176 | 0.2 | 2.70 | 2.68 | 0.200 | 0.170 to 0.230 | 90.0 | 70.0 to 130 | 0.743 | 20.0 |

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

Batch QC Summary

Customer Account: WMWGORLF
Sample Date: 2/20/23 12:02
Customer ID:
Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-14

Laboratory ID Number: BD04076

| Sample | Analysis | Units | MB | | | | Standard | Limit | Standard | | | Prec | |
|---------|------------------------|-------|------------|----------|-------|---------|----------|---------|--------------------|-------|-------------|-------|------|
| | | | MB | Limit | Spike | MS | | | Rec | Limit | Prec | Limit | |
| BD04079 | Lead, Dissolved | mg/L | 0.0000017 | 0.000147 | 0.100 | 0.0928 | 0.101 | 0.100 | 0.0850 to 0.115 | 92.8 | 70.0 to 130 | 8.46 | 20.0 |
| BD04078 | Lead, Total | mg/L | 0.000011 | 0.000147 | 0.100 | 0.107 | 0.108 | 0.112 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.930 | 20.0 |
| BD04079 | Lithium, Dissolved | mg/L | 0.000766 | 0.0154 | 0.200 | 0.228 | 0.225 | 0.194 | 0.170 to 0.230 | 106 | 70.0 to 130 | 1.32 | 20.0 |
| BD04078 | Lithium, Total | mg/L | -0.000337 | 0.0154 | 0.200 | 0.233 | 0.227 | 0.198 | 0.170 to 0.230 | 108 | 70.0 to 130 | 2.61 | 20.0 |
| BD04079 | Magnesium, Dissolved | mg/L | -0.0245 | 0.0462 | 5.00 | 279 | 285 | 5.09 | 4.25 to 5.75 | -240 | 70.0 to 130 | 2.13 | 20.0 |
| BD04078 | Magnesium, Total | mg/L | -0.00494 | 0.0462 | 5.00 | 253 | 252 | 5.01 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.396 | 20.0 |
| BD04079 | Manganese, Dissolved | mg/L | 0.0000252 | 0.00033 | 0.100 | 2.64 | 2.71 | 0.0997 | 0.0850 to 0.115 | 20.0 | 70.0 to 130 | 2.62 | 20.0 |
| BD04078 | Manganese, Total | mg/L | -0.0000306 | 0.00033 | 0.100 | 2.74 | 2.72 | 0.107 | 0.0850 to 0.115 | 10.0 | 70.0 to 130 | 0.733 | 20.0 |
| BD04079 | Mercury, Total by CVAA | mg/L | -1.000E-05 | 0.000500 | 0.004 | 0.00376 | 0.00369 | 0.00348 | 0.00340 to 0.00460 | 94.0 | 70.0 to 130 | 1.88 | 20.0 |
| BD04079 | Molybdenum, Dissolved | mg/L | 0.0000079 | 0.0002 | 0.100 | 0.0959 | 0.0992 | 0.0972 | 0.0850 to 0.115 | 95.4 | 70.0 to 130 | 3.38 | 20.0 |
| BD04078 | Molybdenum, Total | mg/L | 0.000028 | 0.0002 | 0.100 | 0.104 | 0.104 | 0.103 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BD04079 | Potassium, Dissolved | mg/L | -0.00373 | 0.367 | 10.0 | 15.8 | 17.1 | 9.85 | 8.50 to 11.5 | 87.2 | 70.0 to 130 | 7.90 | 20.0 |
| BD04078 | Potassium, Total | mg/L | 0.0259 | 0.367 | 10.0 | 17.7 | 18.2 | 10.3 | 8.50 to 11.5 | 96.7 | 70.0 to 130 | 2.79 | 20.0 |
| BD04079 | Selenium, Dissolved | mg/L | -0.0000434 | 0.00100 | 0.100 | 0.110 | 0.115 | 0.101 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 4.44 | 20.0 |
| BD04078 | Selenium, Total | mg/L | 0.0000768 | 0.00100 | 0.100 | 0.103 | 0.103 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BD04079 | Silicon, Dissolved | mg/L | -0.000019 | 0.0440 | 1.00 | 6.89 | 6.88 | 1.01 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.145 | 20.0 |
| BD04078 | Silicon, Total | mg/L | 0.000121 | 0.0440 | 1.00 | 6.85 | 6.81 | 0.995 | 0.850 to 1.15 | 93.0 | 70.0 to 130 | 0.586 | 20.0 |
| BD04079 | Sodium, Dissolved | mg/L | -0.00164 | 0.0880 | 5.00 | 31.9 | 31.6 | 4.91 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.945 | 20.0 |
| BD04078 | Sodium, Total | mg/L | -0.000766 | 0.0880 | 5.00 | 31.7 | 31.2 | 4.88 | 4.25 to 5.75 | 112 | 70.0 to 130 | 1.59 | 20.0 |
| BD04078 | Sulfate | mg/L | 0.0571 | 2.0 | 1600 | 2960 | 3050 | 19.3 | 18.0 to 22.0 | 101 | 80.0 to 120 | 3.00 | 20.0 |
| BD04079 | Thallium, Dissolved | mg/L | -0.0000047 | 0.000147 | 0.100 | 0.0942 | 0.101 | 0.101 | 0.0850 to 0.115 | 94.2 | 70.0 to 130 | 6.97 | 20.0 |
| BD04078 | Thallium, Total | mg/L | 0.0000046 | 0.000147 | 0.100 | 0.111 | 0.107 | 0.110 | 0.0850 to 0.115 | 111 | 70.0 to 130 | 3.67 | 20.0 |
| BD04078 | Total Organic Carbon | mg/L | 0.0924 | 1.00 | 10.0 | 11.5 | 13.9 | 25.5 | | 104 | 80.0 to 120 | 18.9 | 20.0 |

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

Batch QC Summary

Customer Account: WMWGORLF

Sample Date: 2/20/23 12:02

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-14

Laboratory ID Number: BD04076

| Sample | Analysis | Units | MB | MB | | | Sample Duplicate | Standard Standard | Standard | | | Rec Rec | Limit Limit | Prec Prec | Limit Limit |
|---------|---------------------------|-------------------------|------|-------|-------|------|------------------|-------------------|--------------|-----|-------------|---------|-------------|-----------|-------------|
| | | | | Limit | Spike | MS | | | Limit | Rec | Prec | | | | |
| BD04082 | Alkalinity to pH 4.5 | mg CaCO ₃ /L | | | | | 144 | 49.9 | 45.0 to 55.0 | | | | 0.00 | 10.0 | |
| BD04078 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.00 | 0.200 | 2.00 | 2.23 | 0.022 | 1.83 | 1.80 to 2.20 | 112 | 90.0 to 110 | 0.00 | 15.0 | | |
| BD04078 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 2260 | 50.0 | 40.0 to 60.0 | | | 3.05 | 10.0 | | |

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

Certificate Of Analysis

Description: Gorgas Landfill - MW-15

Location Code: WMWGORLF
Collected: 2/20/23 13:17
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04077

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|----------|-------|--------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | | | | | | | |
| * Boron, Total | 2/24/23 13:19 | 2/27/23 15:29 | | 1.015 | 0.0396 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 2/24/23 13:19 | 2/28/23 14:14 | | 10.15 | 232 | mg/L | 0.70035 | 4.06 | |
| * Iron, Total | 2/24/23 13:19 | 2/28/23 14:14 | | 10.15 | 13.8 | mg/L | 0.08120 | 0.406 | |
| * Lithium, Total | 2/24/23 13:19 | 2/27/23 15:29 | | 1.015 | 0.0510 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/24/23 13:19 | 3/2/23 13:10 | | 10.15 | 236 | mg/L | 0.21315 | 4.06 | |
| * Silica, Total (calc.) | 2/24/23 13:19 | 2/27/23 15:29 | | 1 | 18.6 | mg/L | | | |
| * Silicon, Total | 2/24/23 13:19 | 2/27/23 15:29 | | 1.015 | 8.70 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/24/23 13:19 | 2/27/23 15:29 | | 1.015 | 22.8 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | | | | | | | | |
| * Boron, Dissolved | 2/23/23 13:36 | 2/27/23 11:41 | | 1.015 | 0.0403 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 2/23/23 13:36 | 2/27/23 13:29 | | 10.15 | 239 | mg/L | 0.70035 | 4.06 | |
| * Iron, Dissolved | 2/23/23 13:36 | 2/27/23 13:29 | | 10.15 | 13.6 | mg/L | 0.08120 | 0.406 | |
| * Lithium, Dissolved | 2/23/23 13:36 | 2/27/23 11:41 | | 1.015 | 0.0491 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/23/23 13:36 | 2/27/23 13:29 | | 10.15 | 257 | mg/L | 0.21315 | 4.06 | |
| * Silica, Dissolved (calc.) | 2/23/23 13:36 | 2/27/23 11:41 | | 1 | 18.6 | mg/L | | | |
| * Silicon, Dissolved | 2/23/23 13:36 | 2/27/23 11:41 | | 1.015 | 8.70 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/23/23 13:36 | 2/27/23 11:41 | | 1.015 | 22.6 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | | | | | | | | |
| * Antimony, Total | 2/24/23 13:19 | 2/27/23 17:13 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/24/23 13:19 | 2/27/23 17:13 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.05075 | U |
| * Arsenic, Total | 2/24/23 13:19 | 2/27/23 17:13 | | 1.015 | 0.000217 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 2/24/23 13:19 | 2/27/23 17:13 | | 1.015 | 0.0109 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 2/24/23 13:19 | 2/27/23 17:13 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/24/23 13:19 | 2/27/23 17:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/24/23 13:19 | 2/27/23 17:13 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Total | 2/24/23 13:19 | 2/27/23 17:13 | | 1.015 | 0.0533 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 2/24/23 13:19 | 2/27/23 17:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/24/23 13:19 | 2/27/23 19:06 | | 10.15 | 9.37 | mg/L | 0.001522 | 0.01015 | |
| * Molybdenum, Total | 2/24/23 13:19 | 2/27/23 17:13 | | 1.015 | Not Detected | mg/L | 0.000102 | 0.000203 | U |
| * Potassium, Total | 2/24/23 13:19 | 2/27/23 17:13 | | 1.015 | 5.32 | 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: Gorgas Landfill - MW-15

Location Code: WMWGORLF
Collected: 2/20/23 13:17
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04077

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------|----------|-------|--------------|-------------------------|----------|----------|---|
| * Selenium, Total | 2/24/23 13:19 | 2/27/23 17:13 | | 1.015 | 0.000915 | mg/L | 0.000508 | 0.001015 | J |
| * Thallium, Total | 2/24/23 13:19 | 2/27/23 17:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | | | | | | | | |
| <i>Analyst: DLJ</i> | | | | | | | | | |
| * Antimony, Dissolved | 2/23/23 13:36 | 2/23/23 15:32 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/23/23 13:36 | 2/23/23 15:32 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.05075 | U |
| * Arsenic, Dissolved | 2/23/23 13:36 | 2/23/23 15:32 | | 1.015 | 0.000147 | mg/L | 0.000081 | 0.000203 | J |
| * Barium, Dissolved | 2/23/23 13:36 | 2/23/23 15:32 | | 1.015 | 0.00952 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 2/23/23 13:36 | 2/28/23 10:10 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/23/23 13:36 | 2/23/23 15:32 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/23/23 13:36 | 2/23/23 15:32 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/23/23 13:36 | 2/23/23 15:32 | | 1.015 | 0.0459 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 2/23/23 13:36 | 2/23/23 15:32 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/23/23 13:36 | 2/28/23 11:41 | | 10.15 | 9.18 | mg/L | 0.001522 | 0.01015 | |
| * Molybdenum, Dissolved | 2/23/23 13:36 | 2/23/23 15:32 | | 1.015 | 0.00141 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 2/23/23 13:36 | 2/23/23 15:32 | | 1.015 | 4.79 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/23/23 13:36 | 2/23/23 15:32 | | 1.015 | 0.000994 | mg/L | 0.000508 | 0.001015 | J |
| * Thallium, Dissolved | 2/23/23 13:36 | 2/23/23 15:32 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | | | | | | | | |
| <i>Analyst: ELH</i> | | | | | | | | | |
| * Mercury, Total by CVAA | 2/27/23 19:37 | 2/28/23 02:31 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | | | | | | | | |
| <i>Analyst: SC</i> | | | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/24/23 11:09 | 2/24/23 11:09 | | 1 | 0.211 | mg/L as N | 0.20 | 0.3 | J |
| Analytical Method: SM 2320 B | | | | | | | | | |
| <i>Analyst: ALH</i> | | | | | | | | | |
| * Alkalinity to pH 4.5 | 3/3/23 14:10 | 3/3/23 15:40 | | 1 | 157 | mg CaCO ₃ /L | | | |
| Analytical Method: SM 2540C | | | | | | | | | |
| <i>Analyst: CNJ</i> | | | | | | | | | |
| * Solids, Dissolved | 2/23/23 13:45 | 2/24/23 13:45 | | 1 | 2160 | mg/L | | 125 | |
| Analytical Method: SM 4500CO2 D | | | | | | | | | |
| <i>Analyst: ALH</i> | | | | | | | | | |
| * Bicarbonate Alkalinity, (calc.) | 3/3/23 14:10 | 3/3/23 15:40 | | 1 | 157 | mg CaCO ₃ /L | | 1 | A |
| * Carbonate Alkalinity, (calc.) | 3/3/23 14:10 | 3/3/23 15:40 | | 1 | Not Detected | mg CaCO ₃ /L | | 0.5 | A |
| Analytical Method: SM 5310 B | | | | | | | | | |
| <i>Analyst: SC</i> | | | | | | | | | |
| * Total Organic Carbon | 2/23/23 20:25 | 2/23/23 20:25 | | 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: Gorgas Landfill - MW-15

Location Code: WMWGORLF
Collected: 2/20/23 13:17
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04077

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E <i>Analyst: JCC</i> | | | | | | | | | |
| * Chloride | 2/24/23 14:15 | 2/24/23 14:15 | | 1 | 2.00 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 <i>Analyst: JCC</i> | | | | | | | | | |
| * Fluoride | 2/27/23 12:40 | 2/27/23 12:40 | | 1 | 0.301 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 <i>Analyst: JCC</i> | | | | | | | | | |
| * Sulfate | 3/1/23 14:01 | 3/1/23 14:01 | | 50 | 1400 | mg/L | 30.0 | 100 | |
| Analytical Method: Field Measurements <i>Analyst: DKG</i> | | | | | | | | | |
| Conductivity | 2/20/23 13:14 | 2/20/23 13:14 | | | 2389.42 | uS/cm | | | FA |
| pH | 2/20/23 13:14 | 2/20/23 13:14 | | | 6.08 | SU | | | FA |
| Temperature | 2/20/23 13:14 | 2/20/23 13:14 | | | 18.93 | C | | | FA |
| Turbidity | 2/20/23 13:14 | 2/20/23 13:14 | | | 4.88 | NTU | | | FA |
| Sulfide | 2/20/23 13:14 | 2/20/23 13:14 | | | 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: WMWGORLF

Sample Date: 2/20/23 13:17

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-15

Laboratory ID Number: BD04077

| Sample | Analysis | Units | MB | | | | Standard | Standard | | | Rec | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|----------|----------|-----------------|-------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | | MSD | Limit | Rec | | | |
| BD04079 | Aluminum, Dissolved | mg/L | -0.000276 | 0.0198 | 0.100 | 0.0898 | 0.0939 | 0.0965 | 0.0850 to 0.115 | 89.8 | 70.0 to 130 | 4.46 | 20.0 |
| BD04078 | Aluminum, Total | mg/L | 0.000405 | 0.0198 | 0.100 | 0.101 | 0.102 | 0.104 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BD04079 | Antimony, Dissolved | mg/L | 0.000346 | 0.00100 | 0.100 | 0.0869 | 0.0903 | 0.0904 | 0.0850 to 0.115 | 86.9 | 70.0 to 130 | 3.84 | 20.0 |
| BD04078 | Antimony, Total | mg/L | 0.000397 | 0.00100 | 0.100 | 0.110 | 0.110 | 0.0988 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 0.00 | 20.0 |
| BD04079 | Arsenic, Dissolved | mg/L | -0.0000191 | 0.000200 | 0.100 | 0.100 | 0.106 | 0.0960 | 0.0850 to 0.115 | 98.2 | 70.0 to 130 | 5.83 | 20.0 |
| BD04078 | Arsenic, Total | mg/L | 0.0000097 | 0.000200 | 0.100 | 0.103 | 0.104 | 0.0999 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.966 | 20.0 |
| BD04079 | Barium, Dissolved | mg/L | -0.0000092 | 0.00100 | 0.100 | 0.105 | 0.108 | 0.0954 | 0.0850 to 0.115 | 94.3 | 70.0 to 130 | 2.82 | 20.0 |
| BD04078 | Barium, Total | mg/L | -0.0000132 | 0.00100 | 0.100 | 0.120 | 0.123 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.47 | 20.0 |
| BD04079 | Beryllium, Dissolved | mg/L | 0.0000161 | 0.000880 | 0.100 | 0.104 | 0.102 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BD04078 | Beryllium, Total | mg/L | 0.0000113 | 0.000880 | 0.100 | 0.0915 | 0.0912 | 0.0997 | 0.0850 to 0.115 | 91.5 | 70.0 to 130 | 0.328 | 20.0 |
| BD04079 | Boron, Dissolved | mg/L | -0.00311 | 0.0650 | 1.00 | 1.09 | 1.08 | 1.01 | 0.850 to 1.15 | 105 | 70.0 to 130 | 0.922 | 20.0 |
| BD04078 | Boron, Total | mg/L | -0.00347 | 0.0650 | 1.00 | 1.08 | 1.07 | 1.00 | 0.850 to 1.15 | 104 | 70.0 to 130 | 0.930 | 20.0 |
| BD04079 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0905 | 0.0950 | 0.0975 | 0.0850 to 0.115 | 90.5 | 70.0 to 130 | 4.85 | 20.0 |
| BD04078 | Cadmium, Total | mg/L | 0.0000042 | 0.000147 | 0.100 | 0.0993 | 0.0984 | 0.104 | 0.0850 to 0.115 | 99.3 | 70.0 to 130 | 0.910 | 20.0 |
| BD04079 | Calcium, Dissolved | mg/L | -0.0143 | 0.152 | 5.00 | 316 | 324 | 5.07 | 4.25 to 5.75 | -360 | 70.0 to 130 | 2.50 | 20.0 |
| BD04078 | Calcium, Total | mg/L | -0.0229 | 0.152 | 5.00 | 296 | 308 | 4.80 | 4.25 to 5.75 | -20.0 | 70.0 to 130 | 3.97 | 20.0 |
| BD04078 | Chloride | mg/L | 0.0274 | 1.00 | 10.0 | 13.1 | 13.0 | 10.1 | 9.00 to 11.0 | 102 | 80.0 to 120 | 0.766 | 20.0 |
| BD04079 | Chromium, Dissolved | mg/L | -0.0000558 | 0.000440 | 0.100 | 0.0917 | 0.0975 | 0.0989 | 0.0850 to 0.115 | 91.7 | 70.0 to 130 | 6.13 | 20.0 |
| BD04078 | Chromium, Total | mg/L | 0.0000667 | 0.000440 | 0.100 | 0.102 | 0.103 | 0.106 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BD04079 | Cobalt, Dissolved | mg/L | -0.0000015 | 0.000147 | 0.100 | 0.0979 | 0.102 | 0.0995 | 0.0850 to 0.115 | 89.1 | 70.0 to 130 | 4.10 | 20.0 |
| BD04078 | Cobalt, Total | mg/L | 0.0000023 | 0.000147 | 0.100 | 0.116 | 0.114 | 0.112 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 1.74 | 20.0 |
| BD04078 | Fluoride | mg/L | 0.0384 | 0.125 | 2.50 | 2.72 | 2.79 | 2.59 | 2.25 to 2.75 | 102 | 80.0 to 120 | 2.54 | 20.0 |
| BD04079 | Iron, Dissolved | mg/L | -0.000232 | 0.0176 | 0.2 | 2.65 | 2.63 | 0.202 | 0.170 to 0.230 | 95.0 | 70.0 to 130 | 0.758 | 20.0 |
| BD04078 | Iron, Total | mg/L | 0.000927 | 0.0176 | 0.2 | 2.70 | 2.68 | 0.200 | 0.170 to 0.230 | 90.0 | 70.0 to 130 | 0.743 | 20.0 |

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

Batch QC Summary

Customer Account: WMWGORLF
Sample Date: 2/20/23 13:17
Customer ID:
Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-15

Laboratory ID Number: BD04077

| Sample | Analysis | Units | MB | | | | Standard | Limit | Rec | Limit | Prec | Limit | |
|---------|------------------------|-------|------------|----------|-------|---------|----------|---------|--------------------|-------|-------------|-------|------|
| | | | MB | Limit | Spike | MS | | | | | | | |
| BD04079 | Lead, Dissolved | mg/L | 0.0000017 | 0.000147 | 0.100 | 0.0928 | 0.101 | 0.100 | 0.0850 to 0.115 | 92.8 | 70.0 to 130 | 8.46 | 20.0 |
| BD04078 | Lead, Total | mg/L | 0.000011 | 0.000147 | 0.100 | 0.107 | 0.108 | 0.112 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.930 | 20.0 |
| BD04079 | Lithium, Dissolved | mg/L | 0.000766 | 0.0154 | 0.200 | 0.228 | 0.225 | 0.194 | 0.170 to 0.230 | 106 | 70.0 to 130 | 1.32 | 20.0 |
| BD04078 | Lithium, Total | mg/L | -0.000337 | 0.0154 | 0.200 | 0.233 | 0.227 | 0.198 | 0.170 to 0.230 | 108 | 70.0 to 130 | 2.61 | 20.0 |
| BD04079 | Magnesium, Dissolved | mg/L | -0.0245 | 0.0462 | 5.00 | 279 | 285 | 5.09 | 4.25 to 5.75 | -240 | 70.0 to 130 | 2.13 | 20.0 |
| BD04078 | Magnesium, Total | mg/L | -0.00494 | 0.0462 | 5.00 | 253 | 252 | 5.01 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.396 | 20.0 |
| BD04079 | Manganese, Dissolved | mg/L | 0.0000252 | 0.00033 | 0.100 | 2.64 | 2.71 | 0.0997 | 0.0850 to 0.115 | 20.0 | 70.0 to 130 | 2.62 | 20.0 |
| BD04078 | Manganese, Total | mg/L | -0.0000306 | 0.00033 | 0.100 | 2.74 | 2.72 | 0.107 | 0.0850 to 0.115 | 10.0 | 70.0 to 130 | 0.733 | 20.0 |
| BD04079 | Mercury, Total by CVAA | mg/L | -1.000E-05 | 0.000500 | 0.004 | 0.00376 | 0.00369 | 0.00348 | 0.00340 to 0.00460 | 94.0 | 70.0 to 130 | 1.88 | 20.0 |
| BD04079 | Molybdenum, Dissolved | mg/L | 0.0000079 | 0.0002 | 0.100 | 0.0959 | 0.0992 | 0.0972 | 0.0850 to 0.115 | 95.4 | 70.0 to 130 | 3.38 | 20.0 |
| BD04078 | Molybdenum, Total | mg/L | 0.000028 | 0.0002 | 0.100 | 0.104 | 0.104 | 0.103 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BD04079 | Potassium, Dissolved | mg/L | -0.00373 | 0.367 | 10.0 | 15.8 | 17.1 | 9.85 | 8.50 to 11.5 | 87.2 | 70.0 to 130 | 7.90 | 20.0 |
| BD04078 | Potassium, Total | mg/L | 0.0259 | 0.367 | 10.0 | 17.7 | 18.2 | 10.3 | 8.50 to 11.5 | 96.7 | 70.0 to 130 | 2.79 | 20.0 |
| BD04079 | Selenium, Dissolved | mg/L | -0.0000434 | 0.00100 | 0.100 | 0.110 | 0.115 | 0.101 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 4.44 | 20.0 |
| BD04078 | Selenium, Total | mg/L | 0.0000768 | 0.00100 | 0.100 | 0.103 | 0.103 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BD04079 | Silicon, Dissolved | mg/L | -0.000019 | 0.0440 | 1.00 | 6.89 | 6.88 | 1.01 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.145 | 20.0 |
| BD04078 | Silicon, Total | mg/L | 0.000121 | 0.0440 | 1.00 | 6.85 | 6.81 | 0.995 | 0.850 to 1.15 | 93.0 | 70.0 to 130 | 0.586 | 20.0 |
| BD04079 | Sodium, Dissolved | mg/L | -0.00164 | 0.0880 | 5.00 | 31.9 | 31.6 | 4.91 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.945 | 20.0 |
| BD04078 | Sodium, Total | mg/L | -0.000766 | 0.0880 | 5.00 | 31.7 | 31.2 | 4.88 | 4.25 to 5.75 | 112 | 70.0 to 130 | 1.59 | 20.0 |
| BD04078 | Sulfate | mg/L | 0.0571 | 2.0 | 1600 | 2960 | 3050 | 19.3 | 18.0 to 22.0 | 101 | 80.0 to 120 | 3.00 | 20.0 |
| BD04079 | Thallium, Dissolved | mg/L | -0.0000047 | 0.000147 | 0.100 | 0.0942 | 0.101 | 0.101 | 0.0850 to 0.115 | 94.2 | 70.0 to 130 | 6.97 | 20.0 |
| BD04078 | Thallium, Total | mg/L | 0.0000046 | 0.000147 | 0.100 | 0.111 | 0.107 | 0.110 | 0.0850 to 0.115 | 111 | 70.0 to 130 | 3.67 | 20.0 |
| BD04078 | Total Organic Carbon | mg/L | 0.0924 | 1.00 | 10.0 | 11.5 | 13.9 | 25.5 | | 104 | 80.0 to 120 | 18.9 | 20.0 |

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

Batch QC Summary

Customer Account: WMWGORLF

Sample Date: 2/20/23 13:17

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-15

Laboratory ID Number: BD04077

| Sample | Analysis | Units | MB | MB | | | Sample Duplicate | Standard Standard | Standard | | | Rec Rec | Prec Prec | Prec Limit |
|---------|---------------------------|-------------------------|------|-------|-------|------|------------------|-------------------|--------------|-----|-------------|---------|-----------|------------|
| | | | | Limit | Spike | MS | | | Limit | Rec | Limit | | | |
| BD04082 | Alkalinity to pH 4.5 | mg CaCO ₃ /L | | | | | 144 | 49.9 | 45.0 to 55.0 | | | 0.00 | 10.0 | |
| BD04078 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.00 | 0.200 | 2.00 | 2.23 | 0.022 | 1.83 | 1.80 to 2.20 | 112 | 90.0 to 110 | 0.00 | 15.0 | |
| BD04078 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 2260 | 50.0 | 40.0 to 60.0 | | | 3.05 | 10.0 | |

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

Certificate Of Analysis

Description: Gorgas Landfill - MW-16

Location Code: WMWGORLF
Collected: 2/20/23 14:45
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04078

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|----------|-------|--------------|-------|----------|------------|----|
| Analytical Method: EPA 200.7 | | | | | | | | | |
| * Boron, Total | 2/24/23 13:19 | 2/27/23 15:32 | | 1.015 | 0.0416 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 2/24/23 13:19 | 2/28/23 14:18 | | 10.15 | 297 | mg/L | 0.70035 | 4.06 | RA |
| * Iron, Total | 2/24/23 13:19 | 2/27/23 15:32 | | 1.015 | 2.52 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 2/24/23 13:19 | 2/27/23 15:32 | | 1.015 | 0.0166 | mg/L | 0.007105 | 0.01999956 | J |
| * Magnesium, Total | 2/24/23 13:19 | 3/2/23 13:13 | | 10.15 | 248 | mg/L | 0.21315 | 4.06 | |
| * Silica, Total (calc.) | 2/24/23 13:19 | 2/27/23 15:32 | | 1 | 12.7 | mg/L | | | |
| * Silicon, Total | 2/24/23 13:19 | 2/27/23 15:32 | | 1.015 | 5.92 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/24/23 13:19 | 2/27/23 15:32 | | 1.015 | 26.1 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | | | | | | | | |
| * Boron, Dissolved | 2/23/23 13:36 | 2/27/23 11:44 | | 1.015 | 0.0418 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 2/23/23 13:36 | 2/27/23 13:32 | | 10.15 | 306 | mg/L | 0.70035 | 4.06 | |
| * Iron, Dissolved | 2/23/23 13:36 | 2/27/23 11:44 | | 1.015 | 2.49 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 2/23/23 13:36 | 2/27/23 11:44 | | 1.015 | 0.0169 | mg/L | 0.007105 | 0.01999956 | J |
| * Magnesium, Dissolved | 2/23/23 13:36 | 2/27/23 13:32 | | 10.15 | 268 | mg/L | 0.21315 | 4.06 | |
| * Silica, Dissolved (calc.) | 2/23/23 13:36 | 2/27/23 11:44 | | 1 | 12.6 | mg/L | | | |
| * Silicon, Dissolved | 2/23/23 13:36 | 2/27/23 11:44 | | 1.015 | 5.91 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/23/23 13:36 | 2/27/23 11:44 | | 1.015 | 26.4 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | | | | | | | | |
| * Antimony, Total | 2/24/23 13:19 | 2/27/23 17:16 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/24/23 13:19 | 2/27/23 17:16 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.05075 | U |
| * Arsenic, Total | 2/24/23 13:19 | 2/27/23 17:16 | | 1.015 | 0.00216 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 2/24/23 13:19 | 2/27/23 17:16 | | 1.015 | 0.0128 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 2/24/23 13:19 | 2/27/23 17:16 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/24/23 13:19 | 2/27/23 17:16 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/24/23 13:19 | 2/27/23 17:16 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Total | 2/24/23 13:19 | 2/27/23 17:16 | | 1.015 | 0.0103 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 2/24/23 13:19 | 2/27/23 17:16 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/24/23 13:19 | 2/27/23 19:10 | | 5.075 | 2.73 | mg/L | 0.000761 | 0.005075 | RA |
| * Molybdenum, Total | 2/24/23 13:19 | 2/27/23 17:16 | | 1.015 | 0.000466 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 2/24/23 13:19 | 2/27/23 17:16 | | 1.015 | 8.03 | 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.

Total Organic Carbon & Nitrate-Nitrite matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.

Certificate Of Analysis

Description: Gorgas Landfill - MW-16

Location Code: WMWGORLF
Collected: 2/20/23 14:45
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04078

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------|----------|-------|--------------|-------------------------|----------|----------|---|
| * Selenium, Total | 2/24/23 13:19 | 2/27/23 17:16 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/24/23 13:19 | 2/27/23 17:16 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | | | | | | | | |
| <i>Analyst: DLJ</i> | | | | | | | | | |
| * Antimony, Dissolved | 2/23/23 13:36 | 2/23/23 15:35 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/23/23 13:36 | 2/23/23 15:35 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.05075 | U |
| * Arsenic, Dissolved | 2/23/23 13:36 | 2/23/23 15:35 | | 1.015 | 0.00211 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 2/23/23 13:36 | 2/23/23 15:35 | | 1.015 | 0.0111 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 2/23/23 13:36 | 2/28/23 10:13 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/23/23 13:36 | 2/23/23 15:35 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/23/23 13:36 | 2/23/23 15:35 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/23/23 13:36 | 2/23/23 15:35 | | 1.015 | 0.00888 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 2/23/23 13:36 | 2/23/23 15:35 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/23/23 13:36 | 2/28/23 11:45 | | 5.075 | 2.63 | mg/L | 0.000761 | 0.005075 | |
| * Molybdenum, Dissolved | 2/23/23 13:36 | 2/23/23 15:35 | | 1.015 | 0.000846 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 2/23/23 13:36 | 2/23/23 15:35 | | 1.015 | 7.03 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/23/23 13:36 | 2/23/23 15:35 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/23/23 13:36 | 2/23/23 15:35 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | | | | | | | | |
| <i>Analyst: ELH</i> | | | | | | | | | |
| * Mercury, Total by CVAA | 2/27/23 19:37 | 2/28/23 02:35 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | | | | | | | | |
| <i>Analyst: SC</i> | | | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/24/23 11:15 | 2/24/23 11:15 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | | | | | | | | |
| <i>Analyst: ALH</i> | | | | | | | | | |
| * Alkalinity to pH 4.5 | 3/3/23 14:10 | 3/3/23 15:40 | | 1 | 370 | mg CaCO ₃ /L | | | |
| Analytical Method: SM 2540C | | | | | | | | | |
| <i>Analyst: CNJ</i> | | | | | | | | | |
| * Solids, Dissolved | 2/23/23 13:45 | 2/24/23 13:45 | | 1 | 2330 | mg/L | | 147.1 | |
| Analytical Method: SM 4500CO2 D | | | | | | | | | |
| <i>Analyst: ALH</i> | | | | | | | | | |
| * Bicarbonate Alkalinity, (calc.) | 3/3/23 14:10 | 3/3/23 15:40 | | 1 | 370 | mg CaCO ₃ /L | | 1 | A |
| * Carbonate Alkalinity, (calc.) | 3/3/23 14:10 | 3/3/23 15:40 | | 1 | Not Detected | mg CaCO ₃ /L | | 0.5 | A |
| Analytical Method: SM 5310 B | | | | | | | | | |
| <i>Analyst: SC</i> | | | | | | | | | |
| * Total Organic Carbon | 2/23/23 20:43 | 2/23/23 20:43 | | 1 | 1.10 | 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.

Total Organic Carbon & Nitrate-Nitrite matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.

Certificate Of Analysis

Description: Gorgas Landfill - MW-16

Location Code: WMWGORLF
Collected: 2/20/23 14:45
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04078

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E <i>Analyst: JCC</i> | | | | | | | | | |
| * Chloride | 2/24/23 14:16 | 2/24/23 14:16 | | 1 | 2.85 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 <i>Analyst: JCC</i> | | | | | | | | | |
| * Fluoride | 2/27/23 12:42 | 2/27/23 12:42 | | 1 | 0.165 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 <i>Analyst: JCC</i> | | | | | | | | | |
| * Sulfate | 3/1/23 14:03 | 3/1/23 14:03 | | 80 | 1350 | mg/L | 48.0 | 160 | |
| Analytical Method: Field Measurements <i>Analyst: DKG</i> | | | | | | | | | |
| Conductivity | 2/20/23 14:43 | 2/20/23 14:43 | | | 2593.82 | uS/cm | | | FA |
| pH | 2/20/23 14:43 | 2/20/23 14:43 | | | 6.53 | SU | | | FA |
| Temperature | 2/20/23 14:43 | 2/20/23 14:43 | | | 19.63 | C | | | FA |
| Turbidity | 2/20/23 14:43 | 2/20/23 14:43 | | | 1.66 | NTU | | | FA |
| Sulfide | 2/20/23 14:43 | 2/20/23 14:43 | | | 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.

Total Organic Carbon & Nitrate-Nitrite matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.

Batch QC Summary

Customer Account: WMWGORLF

Sample Date: 2/20/23 14:45

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-16

Laboratory ID Number: BD04078

| Sample | Analysis | Units | MB | | | | Standard | Limit | Rec | Limit | Prec | Limit | |
|---------|----------------------|-------|------------|----------|-------|--------|----------|--------|-----------------|-------|-------------|-------|------|
| | | | MB | Limit | Spike | MS | | | | | | | |
| BD04079 | Aluminum, Dissolved | mg/L | -0.000276 | 0.0198 | 0.100 | 0.0898 | 0.0939 | 0.0965 | 0.0850 to 0.115 | 89.8 | 70.0 to 130 | 4.46 | 20.0 |
| BD04078 | Aluminum, Total | mg/L | 0.000405 | 0.0198 | 0.100 | 0.101 | 0.102 | 0.104 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BD04079 | Antimony, Dissolved | mg/L | 0.000346 | 0.00100 | 0.100 | 0.0869 | 0.0903 | 0.0904 | 0.0850 to 0.115 | 86.9 | 70.0 to 130 | 3.84 | 20.0 |
| BD04078 | Antimony, Total | mg/L | 0.000397 | 0.00100 | 0.100 | 0.110 | 0.110 | 0.0988 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 0.00 | 20.0 |
| BD04079 | Arsenic, Dissolved | mg/L | -0.0000191 | 0.000200 | 0.100 | 0.100 | 0.106 | 0.0960 | 0.0850 to 0.115 | 98.2 | 70.0 to 130 | 5.83 | 20.0 |
| BD04078 | Arsenic, Total | mg/L | 0.0000097 | 0.000200 | 0.100 | 0.103 | 0.104 | 0.0999 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.966 | 20.0 |
| BD04079 | Barium, Dissolved | mg/L | -0.0000092 | 0.00100 | 0.100 | 0.105 | 0.108 | 0.0954 | 0.0850 to 0.115 | 94.3 | 70.0 to 130 | 2.82 | 20.0 |
| BD04078 | Barium, Total | mg/L | -0.0000132 | 0.00100 | 0.100 | 0.120 | 0.123 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.47 | 20.0 |
| BD04079 | Beryllium, Dissolved | mg/L | 0.0000161 | 0.000880 | 0.100 | 0.104 | 0.102 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BD04078 | Beryllium, Total | mg/L | 0.0000113 | 0.000880 | 0.100 | 0.0915 | 0.0912 | 0.0997 | 0.0850 to 0.115 | 91.5 | 70.0 to 130 | 0.328 | 20.0 |
| BD04079 | Boron, Dissolved | mg/L | -0.00311 | 0.0650 | 1.00 | 1.09 | 1.08 | 1.01 | 0.850 to 1.15 | 105 | 70.0 to 130 | 0.922 | 20.0 |
| BD04078 | Boron, Total | mg/L | -0.00347 | 0.0650 | 1.00 | 1.08 | 1.07 | 1.00 | 0.850 to 1.15 | 104 | 70.0 to 130 | 0.930 | 20.0 |
| BD04079 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0905 | 0.0950 | 0.0975 | 0.0850 to 0.115 | 90.5 | 70.0 to 130 | 4.85 | 20.0 |
| BD04078 | Cadmium, Total | mg/L | 0.0000042 | 0.000147 | 0.100 | 0.0993 | 0.0984 | 0.104 | 0.0850 to 0.115 | 99.3 | 70.0 to 130 | 0.910 | 20.0 |
| BD04079 | Calcium, Dissolved | mg/L | -0.0143 | 0.152 | 5.00 | 316 | 324 | 5.07 | 4.25 to 5.75 | -360 | 70.0 to 130 | 2.50 | 20.0 |
| BD04078 | Calcium, Total | mg/L | -0.0229 | 0.152 | 5.00 | 296 | 308 | 4.80 | 4.25 to 5.75 | -20.0 | 70.0 to 130 | 3.97 | 20.0 |
| BD04078 | Chloride | mg/L | 0.0274 | 1.00 | 10.0 | 13.1 | 13.0 | 10.1 | 9.00 to 11.0 | 102 | 80.0 to 120 | 0.766 | 20.0 |
| BD04079 | Chromium, Dissolved | mg/L | -0.0000558 | 0.000440 | 0.100 | 0.0917 | 0.0975 | 0.0989 | 0.0850 to 0.115 | 91.7 | 70.0 to 130 | 6.13 | 20.0 |
| BD04078 | Chromium, Total | mg/L | 0.0000667 | 0.000440 | 0.100 | 0.102 | 0.103 | 0.106 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BD04079 | Cobalt, Dissolved | mg/L | -0.0000015 | 0.000147 | 0.100 | 0.0979 | 0.102 | 0.0995 | 0.0850 to 0.115 | 89.1 | 70.0 to 130 | 4.10 | 20.0 |
| BD04078 | Cobalt, Total | mg/L | 0.0000023 | 0.000147 | 0.100 | 0.116 | 0.114 | 0.112 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 1.74 | 20.0 |
| BD04078 | Fluoride | mg/L | 0.0384 | 0.125 | 2.50 | 2.72 | 2.79 | 2.59 | 2.25 to 2.75 | 102 | 80.0 to 120 | 2.54 | 20.0 |
| BD04079 | Iron, Dissolved | mg/L | -0.000232 | 0.0176 | 0.2 | 2.65 | 2.63 | 0.202 | 0.170 to 0.230 | 95.0 | 70.0 to 130 | 0.758 | 20.0 |
| BD04078 | Iron, Total | mg/L | 0.000927 | 0.0176 | 0.2 | 2.70 | 2.68 | 0.200 | 0.170 to 0.230 | 90.0 | 70.0 to 130 | 0.743 | 20.0 |

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

Total Organic Carbon & Nitrate-Nitrite matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.

Batch QC Summary

Customer Account: WMWGORLF

Sample Date: 2/20/23 14:45

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-16

Laboratory ID Number: BD04078

| Sample | Analysis | Units | MB | | | | Standard | Limit | Rec | Limit | Prec | Limit | |
|---------|------------------------|-------|------------|----------|-------|---------|----------|---------|--------------------|-------|-------------|-------|------|
| | | | MB | Limit | Spike | MS | | | | | | | |
| BD04079 | Lead, Dissolved | mg/L | 0.0000017 | 0.000147 | 0.100 | 0.0928 | 0.101 | 0.100 | 0.0850 to 0.115 | 92.8 | 70.0 to 130 | 8.46 | 20.0 |
| BD04078 | Lead, Total | mg/L | 0.000011 | 0.000147 | 0.100 | 0.107 | 0.108 | 0.112 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.930 | 20.0 |
| BD04079 | Lithium, Dissolved | mg/L | 0.000766 | 0.0154 | 0.200 | 0.228 | 0.225 | 0.194 | 0.170 to 0.230 | 106 | 70.0 to 130 | 1.32 | 20.0 |
| BD04078 | Lithium, Total | mg/L | -0.000337 | 0.0154 | 0.200 | 0.233 | 0.227 | 0.198 | 0.170 to 0.230 | 108 | 70.0 to 130 | 2.61 | 20.0 |
| BD04079 | Magnesium, Dissolved | mg/L | -0.0245 | 0.0462 | 5.00 | 279 | 285 | 5.09 | 4.25 to 5.75 | -240 | 70.0 to 130 | 2.13 | 20.0 |
| BD04078 | Magnesium, Total | mg/L | -0.00494 | 0.0462 | 5.00 | 253 | 252 | 5.01 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.396 | 20.0 |
| BD04079 | Manganese, Dissolved | mg/L | 0.0000252 | 0.00033 | 0.100 | 2.64 | 2.71 | 0.0997 | 0.0850 to 0.115 | 20.0 | 70.0 to 130 | 2.62 | 20.0 |
| BD04078 | Manganese, Total | mg/L | -0.0000306 | 0.00033 | 0.100 | 2.74 | 2.72 | 0.107 | 0.0850 to 0.115 | 10.0 | 70.0 to 130 | 0.733 | 20.0 |
| BD04079 | Mercury, Total by CVAA | mg/L | -1.000E-05 | 0.000500 | 0.004 | 0.00376 | 0.00369 | 0.00348 | 0.00340 to 0.00460 | 94.0 | 70.0 to 130 | 1.88 | 20.0 |
| BD04079 | Molybdenum, Dissolved | mg/L | 0.0000079 | 0.0002 | 0.100 | 0.0959 | 0.0992 | 0.0972 | 0.0850 to 0.115 | 95.4 | 70.0 to 130 | 3.38 | 20.0 |
| BD04078 | Molybdenum, Total | mg/L | 0.000028 | 0.0002 | 0.100 | 0.104 | 0.104 | 0.103 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BD04079 | Potassium, Dissolved | mg/L | -0.00373 | 0.367 | 10.0 | 15.8 | 17.1 | 9.85 | 8.50 to 11.5 | 87.2 | 70.0 to 130 | 7.90 | 20.0 |
| BD04078 | Potassium, Total | mg/L | 0.0259 | 0.367 | 10.0 | 17.7 | 18.2 | 10.3 | 8.50 to 11.5 | 96.7 | 70.0 to 130 | 2.79 | 20.0 |
| BD04079 | Selenium, Dissolved | mg/L | -0.0000434 | 0.00100 | 0.100 | 0.110 | 0.115 | 0.101 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 4.44 | 20.0 |
| BD04078 | Selenium, Total | mg/L | 0.0000768 | 0.00100 | 0.100 | 0.103 | 0.103 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BD04079 | Silicon, Dissolved | mg/L | -0.000019 | 0.0440 | 1.00 | 6.89 | 6.88 | 1.01 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.145 | 20.0 |
| BD04078 | Silicon, Total | mg/L | 0.000121 | 0.0440 | 1.00 | 6.85 | 6.81 | 0.995 | 0.850 to 1.15 | 93.0 | 70.0 to 130 | 0.586 | 20.0 |
| BD04079 | Sodium, Dissolved | mg/L | -0.00164 | 0.0880 | 5.00 | 31.9 | 31.6 | 4.91 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.945 | 20.0 |
| BD04078 | Sodium, Total | mg/L | -0.000766 | 0.0880 | 5.00 | 31.7 | 31.2 | 4.88 | 4.25 to 5.75 | 112 | 70.0 to 130 | 1.59 | 20.0 |
| BD04078 | Sulfate | mg/L | 0.0571 | 2.0 | 1600 | 2960 | 3050 | 19.3 | 18.0 to 22.0 | 101 | 80.0 to 120 | 3.00 | 20.0 |
| BD04079 | Thallium, Dissolved | mg/L | -0.0000047 | 0.000147 | 0.100 | 0.0942 | 0.101 | 0.101 | 0.0850 to 0.115 | 94.2 | 70.0 to 130 | 6.97 | 20.0 |
| BD04078 | Thallium, Total | mg/L | 0.0000046 | 0.000147 | 0.100 | 0.111 | 0.107 | 0.110 | 0.0850 to 0.115 | 111 | 70.0 to 130 | 3.67 | 20.0 |
| BD04078 | Total Organic Carbon | mg/L | 0.0924 | 1.00 | 10.0 | 11.5 | 13.9 | 25.5 | | 104 | 80.0 to 120 | 18.9 | 20.0 |

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

Total Organic Carbon & Nitrate-Nitrite matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.

Batch QC Summary

Customer Account: WMWGORLF

Sample Date: 2/20/23 14:45

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-16

Laboratory ID Number: BD04078

| Sample | Analysis | Units | MB | MB | | | Sample Duplicate | Standard Standard | Standard | | | Rec Rec | Prec Prec | Prec Limit |
|---------|---------------------------|-------------------------|------|-------|-------|------|------------------|-------------------|--------------|-----|-------------|---------|-----------|------------|
| | | | | Limit | Spike | MS | | | Limit | Rec | Limit | | | |
| BD04082 | Alkalinity to pH 4.5 | mg CaCO ₃ /L | | | | | 144 | 49.9 | 45.0 to 55.0 | | | 0.00 | 10.0 | |
| BD04078 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.00 | 0.200 | 2.00 | 2.23 | 0.022 | 1.83 | 1.80 to 2.20 | 112 | 90.0 to 110 | 0.00 | 15.0 | |
| BD04078 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 2260 | 50.0 | 40.0 to 60.0 | | | 3.05 | 10.0 | |

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

Total Organic Carbon & Nitrate-Nitrite matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.

Certificate Of Analysis

Description: Gorgas Landfill - MW-16 Dup

Location Code: WMWGORLF
Collected: 2/20/23 14:45
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04079

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|----------|-------|--------------|-------|----------|------------|----|
| Analytical Method: EPA 200.7 | | | | | | | | | |
| * Boron, Total | 2/24/23 13:19 | 2/28/23 11:17 | | 1.015 | 0.0450 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 2/24/23 13:19 | 2/28/23 14:33 | | 10.15 | 315 | mg/L | 0.70035 | 4.06 | |
| * Iron, Total | 2/24/23 13:19 | 2/28/23 11:17 | | 1.015 | 2.51 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 2/24/23 13:19 | 2/28/23 11:17 | | 1.015 | 0.0166 | mg/L | 0.007105 | 0.01999956 | J |
| * Magnesium, Total | 2/24/23 13:19 | 2/28/23 14:33 | | 10.15 | 269 | mg/L | 0.21315 | 4.06 | |
| * Silica, Total (calc.) | 2/24/23 13:19 | 2/28/23 11:17 | | 1 | 12.7 | mg/L | | | |
| * Silicon, Total | 2/24/23 13:19 | 2/28/23 11:17 | | 1.015 | 5.93 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/24/23 13:19 | 2/28/23 11:17 | | 1.015 | 25.9 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | | | | | | | | |
| * Boron, Dissolved | 2/23/23 13:36 | 2/27/23 11:47 | | 1.015 | 0.0416 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 2/23/23 13:36 | 2/27/23 13:35 | | 10.15 | 334 | mg/L | 0.70035 | 4.06 | RA |
| * Iron, Dissolved | 2/23/23 13:36 | 2/27/23 11:47 | | 1.015 | 2.46 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 2/23/23 13:36 | 2/27/23 11:47 | | 1.015 | 0.0164 | mg/L | 0.007105 | 0.01999956 | J |
| * Magnesium, Dissolved | 2/23/23 13:36 | 2/27/23 13:35 | | 10.15 | 291 | mg/L | 0.21315 | 4.06 | RA |
| * Silica, Dissolved (calc.) | 2/23/23 13:36 | 2/27/23 11:47 | | 1 | 12.6 | mg/L | | | |
| * Silicon, Dissolved | 2/23/23 13:36 | 2/27/23 11:47 | | 1.015 | 5.88 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/23/23 13:36 | 2/27/23 11:47 | | 1.015 | 26.5 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | | | | | | | | |
| * Antimony, Total | 2/24/23 13:19 | 2/27/23 17:38 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/24/23 13:19 | 2/27/23 17:38 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.05075 | |
| * Arsenic, Total | 2/24/23 13:19 | 2/27/23 17:38 | | 1.015 | 0.00206 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 2/24/23 13:19 | 2/27/23 17:38 | | 1.015 | 0.0126 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 2/24/23 13:19 | 2/27/23 17:38 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/24/23 13:19 | 2/27/23 17:38 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/24/23 13:19 | 2/27/23 17:38 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Total | 2/24/23 13:19 | 2/27/23 17:38 | | 1.015 | 0.0103 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 2/24/23 13:19 | 2/27/23 17:38 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/24/23 13:19 | 2/27/23 19:31 | | 5.075 | 2.59 | mg/L | 0.000761 | 0.005075 | |
| * Molybdenum, Total | 2/24/23 13:19 | 2/27/23 17:38 | | 1.015 | 0.000429 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 2/24/23 13:19 | 2/27/23 17:38 | | 1.015 | 7.81 | 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: Gorgas Landfill - MW-16 Dup | | Location Code: | WMWGORLF | | | | | | |
|---|---------------|------------------------|---------------------|-------|--------------|-------------------------|----------|----------|----|
| | | Collected: | 2/20/23 14:45 | | | | | | |
| | | Customer ID: | | | | | | | |
| | | Submittal Date: | 2/23/23 11:07 | | | | | | |
| Laboratory ID Number: BD04079 | | | | | | | | | |
| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
| * Selenium, Total | 2/24/23 13:19 | 2/27/23 17:38 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/24/23 13:19 | 2/27/23 17:38 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | | | | | |
| * Antimony, Dissolved | 2/23/23 13:36 | 2/23/23 15:39 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/23/23 13:36 | 2/23/23 15:39 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.05075 | U |
| * Arsenic, Dissolved | 2/23/23 13:36 | 2/23/23 15:39 | | 1.015 | 0.00182 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 2/23/23 13:36 | 2/23/23 15:39 | | 1.015 | 0.0107 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 2/23/23 13:36 | 2/28/23 10:17 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/23/23 13:36 | 2/23/23 15:39 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/23/23 13:36 | 2/23/23 15:39 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/23/23 13:36 | 2/23/23 15:39 | | 1.015 | 0.00880 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 2/23/23 13:36 | 2/23/23 15:39 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/23/23 13:36 | 2/28/23 11:49 | | 5.075 | 2.62 | mg/L | 0.000761 | 0.005075 | RA |
| * Molybdenum, Dissolved | 2/23/23 13:36 | 2/23/23 15:39 | | 1.015 | 0.000528 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 2/23/23 13:36 | 2/23/23 15:39 | | 1.015 | 7.08 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/23/23 13:36 | 2/23/23 15:39 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/23/23 13:36 | 2/23/23 15:39 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | | Analyst: ELH | | | | | | |
| * Mercury, Total by CVAA | 2/27/23 19:37 | 2/28/23 02:39 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | | Analyst: SC | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/24/23 11:20 | 2/24/23 11:20 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | | Analyst: ALH | | | | | | |
| * Alkalinity to pH 4.5 | 3/3/23 14:10 | 3/3/23 15:40 | | 1 | 357 | mg CaCO ₃ /L | | | |
| Analytical Method: SM 2540C | | | Analyst: CNJ | | | | | | |
| * Solids, Dissolved | 2/23/23 13:45 | 2/24/23 13:45 | | 1 | 2320 | mg/L | | 147.1 | |
| Analytical Method: SM 4500CO₂ D | | | Analyst: ALH | | | | | | |
| * Bicarbonate Alkalinity, (calc.) | 3/3/23 14:10 | 3/3/23 15:40 | | 1 | 357 | mg CaCO ₃ /L | | 1 | A |
| * Carbonate Alkalinity, (calc.) | 3/3/23 14:10 | 3/3/23 15:40 | | 1 | Not Detected | mg CaCO ₃ /L | | 0.5 | A |
| Analytical Method: SM 5310 B | | | Analyst: SC | | | | | | |
| * Total Organic Carbon | 2/23/23 21:58 | 2/23/23 21:58 | | 1 | 1.02 | 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: Gorgas Landfill - MW-16 Dup

Location Code: WMWGORLF
Collected: 2/20/23 14:45
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04079

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E <i>Analyst: JCC</i> | | | | | | | | | |
| * Chloride | 2/24/23 14:29 | 2/24/23 14:29 | | 1 | 2.82 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 <i>Analyst: JCC</i> | | | | | | | | | |
| * Fluoride | 2/27/23 12:53 | 2/27/23 12:53 | | 1 | 0.183 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 <i>Analyst: JCC</i> | | | | | | | | | |
| * Sulfate | 3/1/23 14:16 | 3/1/23 14:16 | | 50 | 1350 | mg/L | 30.0 | 100 | |
| Analytical Method: Field Measurements <i>Analyst: DKG</i> | | | | | | | | | |
| Conductivity | 2/20/23 14:43 | 2/20/23 14:43 | | | 2593.82 | uS/cm | | | FA |
| pH | 2/20/23 14:43 | 2/20/23 14:43 | | | 6.53 | SU | | | FA |
| Temperature | 2/20/23 14:43 | 2/20/23 14:43 | | | 19.63 | C | | | FA |
| Turbidity | 2/20/23 14:43 | 2/20/23 14:43 | | | 1.66 | NTU | | | FA |
| Sulfide | 2/20/23 14:43 | 2/20/23 14:43 | | | 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: WMWGORLF

Sample Date: 2/20/23 14:45

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-16 Dup

Laboratory ID Number: BD04079

| Sample | Analysis | Units | MB | | | | Standard | Limit | Rec | Limit | Prec | Limit | |
|---------|----------------------|-------|------------|----------|-------|--------|----------|--------|-----------------|-------|-------------|-------|------|
| | | | MB | Limit | Spike | MS | | | | | | | |
| BD04079 | Aluminum, Dissolved | mg/L | -0.000276 | 0.0198 | 0.100 | 0.0898 | 0.0939 | 0.0965 | 0.0850 to 0.115 | 89.8 | 70.0 to 130 | 4.46 | 20.0 |
| BD04088 | Aluminum, Total | mg/L | 0.000405 | 0.0198 | 0.100 | 0.102 | 0.105 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.90 | 20.0 |
| BD04079 | Antimony, Dissolved | mg/L | 0.000346 | 0.00100 | 0.100 | 0.0869 | 0.0903 | 0.0904 | 0.0850 to 0.115 | 86.9 | 70.0 to 130 | 3.84 | 20.0 |
| BD04088 | Antimony, Total | mg/L | 0.000397 | 0.00100 | 0.100 | 0.108 | 0.117 | 0.0988 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 8.00 | 20.0 |
| BD04079 | Arsenic, Dissolved | mg/L | -0.0000191 | 0.000200 | 0.100 | 0.100 | 0.106 | 0.0960 | 0.0850 to 0.115 | 98.2 | 70.0 to 130 | 5.83 | 20.0 |
| BD04088 | Arsenic, Total | mg/L | 0.0000097 | 0.000200 | 0.100 | 0.104 | 0.111 | 0.0999 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 6.51 | 20.0 |
| BD04079 | Barium, Dissolved | mg/L | -0.0000092 | 0.00100 | 0.100 | 0.105 | 0.108 | 0.0954 | 0.0850 to 0.115 | 94.3 | 70.0 to 130 | 2.82 | 20.0 |
| BD04088 | Barium, Total | mg/L | -0.0000132 | 0.00100 | 0.100 | 0.127 | 0.136 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 6.84 | 20.0 |
| BD04079 | Beryllium, Dissolved | mg/L | 0.0000161 | 0.000880 | 0.100 | 0.104 | 0.102 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BD04088 | Beryllium, Total | mg/L | 0.0000113 | 0.000880 | 0.100 | 0.0983 | 0.101 | 0.0997 | 0.0850 to 0.115 | 98.3 | 70.0 to 130 | 2.71 | 20.0 |
| BD04079 | Boron, Dissolved | mg/L | -0.00311 | 0.0650 | 1.00 | 1.09 | 1.08 | 1.01 | 0.850 to 1.15 | 105 | 70.0 to 130 | 0.922 | 20.0 |
| BD04088 | Boron, Total | mg/L | -0.00347 | 0.0650 | 1.00 | 1.18 | 1.17 | 1.00 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.851 | 20.0 |
| BD04079 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0905 | 0.0950 | 0.0975 | 0.0850 to 0.115 | 90.5 | 70.0 to 130 | 4.85 | 20.0 |
| BD04088 | Cadmium, Total | mg/L | 0.0000042 | 0.000147 | 0.100 | 0.0992 | 0.106 | 0.104 | 0.0850 to 0.115 | 99.2 | 70.0 to 130 | 6.63 | 20.0 |
| BD04079 | Calcium, Dissolved | mg/L | -0.0143 | 0.152 | 5.00 | 316 | 324 | 5.07 | 4.25 to 5.75 | -360 | 70.0 to 130 | 2.50 | 20.0 |
| BD04088 | Calcium, Total | mg/L | -0.0229 | 0.152 | 5.00 | 312 | 300 | 4.80 | 4.25 to 5.75 | 300 | 70.0 to 130 | 3.92 | 20.0 |
| BD04088 | Chloride | mg/L | 0.0239 | 1.00 | 80.0 | 121 | 114 | 10.0 | 9.00 to 11.0 | 108 | 80.0 to 120 | 5.96 | 20.0 |
| BD04079 | Chromium, Dissolved | mg/L | -0.0000558 | 0.000440 | 0.100 | 0.0917 | 0.0975 | 0.0989 | 0.0850 to 0.115 | 91.7 | 70.0 to 130 | 6.13 | 20.0 |
| BD04088 | Chromium, Total | mg/L | 0.0000667 | 0.000440 | 0.100 | 0.100 | 0.104 | 0.106 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 3.92 | 20.0 |
| BD04079 | Cobalt, Dissolved | mg/L | -0.0000015 | 0.000147 | 0.100 | 0.0979 | 0.102 | 0.0995 | 0.0850 to 0.115 | 89.1 | 70.0 to 130 | 4.10 | 20.0 |
| BD04088 | Cobalt, Total | mg/L | 0.0000023 | 0.000147 | 0.100 | 0.104 | 0.109 | 0.112 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 4.69 | 20.0 |
| BD04088 | Fluoride | mg/L | 0.0375 | 0.125 | 2.50 | 2.77 | 2.78 | 2.62 | 2.25 to 2.75 | 103 | 80.0 to 120 | 0.360 | 20.0 |
| BD04079 | Iron, Dissolved | mg/L | -0.000232 | 0.0176 | 0.2 | 2.65 | 2.63 | 0.202 | 0.170 to 0.230 | 95.0 | 70.0 to 130 | 0.758 | 20.0 |
| BD04088 | Iron, Total | mg/L | 0.000927 | 0.0176 | 0.2 | 4.48 | 4.16 | 0.200 | 0.170 to 0.230 | 220 | 70.0 to 130 | 7.41 | 20.0 |

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

Batch QC Summary

Customer Account: WMWGORLF

Sample Date: 2/20/23 14:45

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-16 Dup

Laboratory ID Number: BD04079

| Sample | Analysis | Units | MB | | | | Standard | Limit | Rec | Limit | Prec | Limit | |
|---------|------------------------|-------|------------|----------|-------|---------|----------|---------|--------------------|-------|-------------|-------|------|
| | | | MB | Limit | Spike | MS | | | | | | | |
| BD04079 | Lead, Dissolved | mg/L | 0.0000017 | 0.000147 | 0.100 | 0.0928 | 0.101 | 0.100 | 0.0850 to 0.115 | 92.8 | 70.0 to 130 | 8.46 | 20.0 |
| BD04088 | Lead, Total | mg/L | 0.000011 | 0.000147 | 0.100 | 0.109 | 0.112 | 0.112 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 2.71 | 20.0 |
| BD04079 | Lithium, Dissolved | mg/L | 0.000766 | 0.0154 | 0.200 | 0.228 | 0.225 | 0.194 | 0.170 to 0.230 | 106 | 70.0 to 130 | 1.32 | 20.0 |
| BD04088 | Lithium, Total | mg/L | -0.000337 | 0.0154 | 0.200 | 0.483 | 0.481 | 0.198 | 0.170 to 0.230 | 102 | 70.0 to 130 | 0.415 | 20.0 |
| BD04079 | Magnesium, Dissolved | mg/L | -0.0245 | 0.0462 | 5.00 | 279 | 285 | 5.09 | 4.25 to 5.75 | -240 | 70.0 to 130 | 2.13 | 20.0 |
| BD04088 | Magnesium, Total | mg/L | -0.00494 | 0.0462 | 5.00 | 203 | 196 | 5.01 | 4.25 to 5.75 | 240 | 70.0 to 130 | 3.51 | 20.0 |
| BD04079 | Manganese, Dissolved | mg/L | 0.0000252 | 0.00033 | 0.100 | 2.64 | 2.71 | 0.0997 | 0.0850 to 0.115 | 20.0 | 70.0 to 130 | 2.62 | 20.0 |
| BD04088 | Manganese, Total | mg/L | -0.0000306 | 0.00033 | 0.100 | 0.570 | 0.596 | 0.107 | 0.0850 to 0.115 | 92.0 | 70.0 to 130 | 4.46 | 20.0 |
| BD04079 | Mercury, Total by CVAA | mg/L | -1.000E-05 | 0.000500 | 0.004 | 0.00376 | 0.00369 | 0.00348 | 0.00340 to 0.00460 | 94.0 | 70.0 to 130 | 1.88 | 20.0 |
| BD04079 | Molybdenum, Dissolved | mg/L | 0.0000079 | 0.0002 | 0.100 | 0.0959 | 0.0992 | 0.0972 | 0.0850 to 0.115 | 95.4 | 70.0 to 130 | 3.38 | 20.0 |
| BD04088 | Molybdenum, Total | mg/L | 0.000028 | 0.0002 | 0.100 | 0.105 | 0.112 | 0.103 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 6.45 | 20.0 |
| BD04079 | Potassium, Dissolved | mg/L | -0.00373 | 0.367 | 10.0 | 15.8 | 17.1 | 9.85 | 8.50 to 11.5 | 87.2 | 70.0 to 130 | 7.90 | 20.0 |
| BD04088 | Potassium, Total | mg/L | 0.0259 | 0.367 | 10.0 | 17.5 | 17.8 | 10.3 | 8.50 to 11.5 | 102 | 70.0 to 130 | 1.70 | 20.0 |
| BD04079 | Selenium, Dissolved | mg/L | -0.0000434 | 0.00100 | 0.100 | 0.110 | 0.115 | 0.101 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 4.44 | 20.0 |
| BD04088 | Selenium, Total | mg/L | 0.0000768 | 0.00100 | 0.100 | 0.0994 | 0.106 | 0.103 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 6.43 | 20.0 |
| BD04079 | Silicon, Dissolved | mg/L | -0.000019 | 0.0440 | 1.00 | 6.89 | 6.88 | 1.01 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.145 | 20.0 |
| BD04088 | Silicon, Total | mg/L | 0.000121 | 0.0440 | 1.00 | 8.10 | 8.05 | 0.995 | 0.850 to 1.15 | 99.0 | 70.0 to 130 | 0.619 | 20.0 |
| BD04079 | Sodium, Dissolved | mg/L | -0.00164 | 0.0880 | 5.00 | 31.9 | 31.6 | 4.91 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.945 | 20.0 |
| BD04088 | Sodium, Total | mg/L | -0.000766 | 0.0880 | 5.00 | 162 | 157 | 4.88 | 4.25 to 5.75 | 200 | 70.0 to 130 | 3.13 | 20.0 |
| BD04088 | Sulfate | mg/L | 0.0257 | 2.0 | 1600 | 2980 | 3210 | 18.9 | 18.0 to 22.0 | 102 | 80.0 to 120 | 7.43 | 20.0 |
| BD04079 | Thallium, Dissolved | mg/L | -0.0000047 | 0.000147 | 0.100 | 0.0942 | 0.101 | 0.101 | 0.0850 to 0.115 | 94.2 | 70.0 to 130 | 6.97 | 20.0 |
| BD04088 | Thallium, Total | mg/L | 0.0000046 | 0.000147 | 0.100 | 0.109 | 0.113 | 0.110 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 3.60 | 20.0 |
| BD04088 | Total Organic Carbon | mg/L | 0.0453 | 1.00 | 10.0 | 14.8 | 15.2 | 27.1 | | 100 | 80.0 to 120 | 2.67 | 20.0 |

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

Batch QC Summary

Customer Account: WMWGORLF

Sample Date: 2/20/23 14:45

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-16 Dup

Laboratory ID Number: BD04079

| Sample | Analysis | Units | MB | MB | | | Sample Duplicate | Standard Standard | Standard | | | Rec Rec | Limit Limit | Prec Prec | Limit Limit |
|---------|---------------------------|-------------------------|-------|-------|-------|------|------------------|-------------------|--------------|------|-------------|---------|-------------|-----------|-------------|
| | | | | Limit | Spike | MS | | | Limit | Rec | Prec | | | | |
| BD04082 | Alkalinity to pH 4.5 | mg CaCO ₃ /L | | | | | 144 | 49.9 | 45.0 to 55.0 | | | 0.00 | 10.0 | | |
| BD04088 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.02 | 0.200 | 2.00 | 1.97 | 0.005 | 1.88 | 1.80 to 2.20 | 98.5 | 90.0 to 110 | 0.00 | 15.0 | | |
| BD04088 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 2260 | 50.0 | 40.0 to 60.0 | | | 0.889 | 10.0 | | |

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

Certificate Of Analysis

Description: Gorgas Landfill Field Blank-1

Location Code: WMWGORLFFB
Collected: 2/20/23 15:10
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04080

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|----------|-------|--------------|-----------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | | | | | | | |
| * Boron, Total | 2/24/23 13:19 | 2/28/23 11:20 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Total | 2/24/23 13:19 | 2/28/23 11:20 | | 1.015 | Not Detected | mg/L | 0.070035 | 0.406 | U |
| * Iron, Total | 2/24/23 13:19 | 2/28/23 11:20 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U |
| * Lithium, Total | 2/24/23 13:19 | 2/28/23 11:20 | | 1.015 | Not Detected | mg/L | 0.007105 | 0.01999956 | U |
| * Magnesium, Total | 2/24/23 13:19 | 2/28/23 11:20 | | 1.015 | 0.0359 | mg/L | 0.021315 | 0.406 | J |
| * Silica, Total (calc.) | 2/24/23 13:19 | 2/28/23 11:20 | | 1 | Not Detected | mg/L | | | |
| * Silicon, Total | 2/24/23 13:19 | 2/28/23 11:20 | | 1.015 | Not Detected | mg/L | 0.02030 | 0.25375 | U |
| * Sodium, Total | 2/24/23 13:19 | 2/28/23 11:20 | | 1.015 | Not Detected | mg/L | 0.03045 | 0.406 | U |
| Analytical Method: EPA 200.8 | | | | | | | | | |
| * Antimony, Total | 2/24/23 13:19 | 2/27/23 17:41 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/24/23 13:19 | 2/27/23 17:41 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.05075 | U |
| * Arsenic, Total | 2/24/23 13:19 | 2/27/23 17:41 | | 1.015 | Not Detected | mg/L | 0.000081 | 0.000203 | U |
| * Barium, Total | 2/24/23 13:19 | 2/27/23 17:41 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Beryllium, Total | 2/24/23 13:19 | 2/27/23 17:41 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/24/23 13:19 | 2/27/23 17:41 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/24/23 13:19 | 2/27/23 17:41 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Total | 2/24/23 13:19 | 2/27/23 17:41 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 2/24/23 13:19 | 2/27/23 17:41 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/24/23 13:19 | 2/27/23 17:41 | | 1.015 | 0.000204 | mg/L | 0.000152 | 0.001015 | J |
| * Molybdenum, Total | 2/24/23 13:19 | 2/27/23 17:41 | | 1.015 | Not Detected | mg/L | 0.000102 | 0.000203 | U |
| * Potassium, Total | 2/24/23 13:19 | 2/27/23 17:41 | | 1.015 | Not Detected | mg/L | 0.169505 | 0.5075 | U |
| * Selenium, Total | 2/24/23 13:19 | 2/27/23 17:41 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/24/23 13:19 | 2/27/23 17:41 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | | | | | | | | |
| * Mercury, Total by CVAA | 2/27/23 19:37 | 2/28/23 02:59 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/24/23 11:22 | 2/24/23 11:22 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2540C | | | | | | | | | |
| * Solids, Dissolved | 2/23/23 13:45 | 2/24/23 13:45 | | 1 | Not Detected | mg/L | | 25 | U |

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

Comments:

Certificate Of Analysis

Description: Gorgas Landfill Field Blank-1

Location Code: WMWGORLFFB
Collected: 2/20/23 15:10
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04080

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------|----------|----|--------------|-------|------|-------|---|
| Analytical Method: SM 5310 B Analyst: SC | | | | | | | | | |
| * Total Organic Carbon | 2/23/23 22:14 | 2/23/23 22:14 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |
| Analytical Method: SM4500Cl E Analyst: JCC | | | | | | | | | |
| * Chloride | 2/24/23 14:30 | 2/24/23 14:30 | | 1 | Not Detected | mg/L | 0.50 | 1 | U |
| Analytical Method: SM4500F G 2017 Analyst: JCC | | | | | | | | | |
| * Fluoride | 2/27/23 12:54 | 2/27/23 12:54 | | 1 | Not Detected | mg/L | 0.06 | 0.125 | U |
| Analytical Method: SM4500SO4 E 2011 Analyst: JCC | | | | | | | | | |
| * Sulfate | 3/1/23 14:17 | 3/1/23 14:17 | | 1 | Not Detected | mg/L | 0.6 | 2 | U |

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

Comments:

Batch QC Summary

Customer Account: WMWGORLFFB

Sample Date: 2/20/23 15:10

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill Field Blank-1

Laboratory ID Number: BD04080

| Sample | Analysis | Units | MB | | | | Standard | Limit | Standard | | | Rec | Limit | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|----------|---------|--------------------|----------|-------------|-------|-------|------|-------|
| | | | MB | Limit | Spike | MS | | | MSD | Standard | Limit | | | | |
| BD04088 | Aluminum, Total | mg/L | 0.000405 | 0.0198 | 0.100 | 0.102 | 0.105 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.90 | 20.0 | | |
| BD04088 | Antimony, Total | mg/L | 0.000397 | 0.00100 | 0.100 | 0.108 | 0.117 | 0.0988 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 8.00 | 20.0 | | |
| BD04088 | Arsenic, Total | mg/L | 0.0000097 | 0.000200 | 0.100 | 0.104 | 0.111 | 0.0999 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 6.51 | 20.0 | | |
| BD04088 | Barium, Total | mg/L | -0.0000132 | 0.00100 | 0.100 | 0.127 | 0.136 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 6.84 | 20.0 | | |
| BD04088 | Beryllium, Total | mg/L | 0.0000113 | 0.000880 | 0.100 | 0.0983 | 0.101 | 0.0997 | 0.0850 to 0.115 | 98.3 | 70.0 to 130 | 2.71 | 20.0 | | |
| BD04088 | Boron, Total | mg/L | -0.00347 | 0.0650 | 1.00 | 1.18 | 1.17 | 1.00 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.851 | 20.0 | | |
| BD04088 | Cadmium, Total | mg/L | 0.0000042 | 0.000147 | 0.100 | 0.0992 | 0.106 | 0.104 | 0.0850 to 0.115 | 99.2 | 70.0 to 130 | 6.63 | 20.0 | | |
| BD04088 | Calcium, Total | mg/L | -0.0229 | 0.152 | 5.00 | 312 | 300 | 4.80 | 4.25 to 5.75 | 300 | 70.0 to 130 | 3.92 | 20.0 | | |
| BD04088 | Chloride | mg/L | 0.0239 | 1.00 | 80.0 | 121 | 114 | 10.0 | 9.00 to 11.0 | 108 | 80.0 to 120 | 5.96 | 20.0 | | |
| BD04088 | Chromium, Total | mg/L | 0.0000667 | 0.000440 | 0.100 | 0.100 | 0.104 | 0.106 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 3.92 | 20.0 | | |
| BD04088 | Cobalt, Total | mg/L | 0.0000023 | 0.000147 | 0.100 | 0.104 | 0.109 | 0.112 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 4.69 | 20.0 | | |
| BD04088 | Fluoride | mg/L | 0.0375 | 0.125 | 2.50 | 2.77 | 2.78 | 2.62 | 2.25 to 2.75 | 103 | 80.0 to 120 | 0.360 | 20.0 | | |
| BD04088 | Iron, Total | mg/L | 0.000927 | 0.0176 | 0.2 | 4.48 | 4.16 | 0.200 | 0.170 to 0.230 | 220 | 70.0 to 130 | 7.41 | 20.0 | | |
| BD04088 | Lead, Total | mg/L | 0.000011 | 0.000147 | 0.100 | 0.109 | 0.112 | 0.112 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 2.71 | 20.0 | | |
| BD04088 | Lithium, Total | mg/L | -0.000337 | 0.0154 | 0.200 | 0.483 | 0.481 | 0.198 | 0.170 to 0.230 | 102 | 70.0 to 130 | 0.415 | 20.0 | | |
| BD04088 | Magnesium, Total | mg/L | -0.00494 | 0.0462 | 5.00 | 203 | 196 | 5.01 | 4.25 to 5.75 | 240 | 70.0 to 130 | 3.51 | 20.0 | | |
| BD04088 | Manganese, Total | mg/L | -0.0000306 | 0.00033 | 0.100 | 0.570 | 0.596 | 0.107 | 0.0850 to 0.115 | 92.0 | 70.0 to 130 | 4.46 | 20.0 | | |
| BD04089 | Mercury, Total by CVAA | mg/L | -1.000E-05 | 0.000500 | 0.004 | 0.00367 | 0.00372 | 0.00348 | 0.00340 to 0.00460 | 91.8 | 70.0 to 130 | 1.35 | 20.0 | | |
| BD04088 | Molybdenum, Total | mg/L | 0.000028 | 0.0002 | 0.100 | 0.105 | 0.112 | 0.103 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 6.45 | 20.0 | | |
| BD04088 | Potassium, Total | mg/L | 0.0259 | 0.367 | 10.0 | 17.5 | 17.8 | 10.3 | 8.50 to 11.5 | 102 | 70.0 to 130 | 1.70 | 20.0 | | |
| BD04088 | Selenium, Total | mg/L | 0.0000768 | 0.00100 | 0.100 | 0.0994 | 0.106 | 0.103 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 6.43 | 20.0 | | |
| BD04088 | Silicon, Total | mg/L | 0.000121 | 0.0440 | 1.00 | 8.10 | 8.05 | 0.995 | 0.850 to 1.15 | 99.0 | 70.0 to 130 | 0.619 | 20.0 | | |
| BD04088 | Sodium, Total | mg/L | -0.000766 | 0.0880 | 5.00 | 162 | 157 | 4.88 | 4.25 to 5.75 | 200 | 70.0 to 130 | 3.13 | 20.0 | | |
| BD04088 | Sulfate | mg/L | 0.0257 | 2.0 | 1600 | 2980 | 3210 | 18.9 | 18.0 to 22.0 | 102 | 80.0 to 120 | 7.43 | 20.0 | | |

Comments:

Batch QC Summary

Customer Account: WMWGORLFFB

Sample Date: 2/20/23 15:10

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill Field Blank-1

Laboratory ID Number: BD04080

| Sample | Analysis | Units | MB | | | | Standard | Limit | Rec | Limit | Prec | Limit | |
|---------|----------------------|-------|-----------|----------|-------|-------|----------|-------|-----------------|-------|-------------|-------|------|
| | | | MB | Limit | Spike | MS | | | | | | | |
| BD04088 | Thallium, Total | mg/L | 0.0000046 | 0.000147 | 0.100 | 0.109 | 0.113 | 0.110 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 3.60 | 20.0 |
| BD04088 | Total Organic Carbon | mg/L | 0.0453 | 1.00 | 10.0 | 14.8 | 15.2 | 27.1 | | 100 | 80.0 to 120 | 2.67 | 20.0 |

Comments:

Batch QC Summary

Customer Account: WMWGORLFFB

Sample Date: 2/20/23 15:10

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill Field Blank-1

Laboratory ID Number: BD04080

| Sample | Analysis | Units | MB | | | Sample Duplicate | Standard | | Rec Limit | Prec Limit | Rec | Prec | |
|---------|---------------------------|-----------|-------|-------|-------|------------------|----------|-------|--------------|------------|-------------|-------|------|
| | | | MB | Limit | Spike | | Standard | Limit | | | | | |
| BD04088 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.02 | 0.200 | 2.00 | 1.97 | 0.005 | 1.88 | 1.80 to 2.20 | 98.5 | 90.0 to 110 | 0.00 | 15.0 |
| BD04088 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 2260 | 50.0 | 40.0 to 60.0 | | | 0.889 | 10.0 |

Comments:

Certificate Of Analysis

Description: Gorgas Landfill - MW-17R

Location Code: WMWGORLF
Collected: 2/21/23 10:38
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04081

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|----------|--------|--------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | | | | | | | |
| * Boron, Total | 2/24/23 13:19 | 2/28/23 11:23 | | 1.015 | 0.0469 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 2/24/23 13:19 | 2/28/23 14:37 | | 101.5 | 352 | mg/L | 7.0035 | 40.6 | |
| * Iron, Total | 2/24/23 13:19 | 2/28/23 14:37 | | 101.5 | 18.2 | mg/L | 0.8120 | 4.06 | |
| * Lithium, Total | 2/24/23 13:19 | 2/28/23 11:23 | | 1.015 | 0.0412 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/24/23 13:19 | 2/28/23 14:37 | | 101.5 | 382 | mg/L | 2.1315 | 40.6 | |
| * Silica, Total (calc.) | 2/24/23 13:19 | 2/28/23 11:23 | | 1 | 16.9 | mg/L | | | |
| * Silicon, Total | 2/24/23 13:19 | 2/28/23 11:23 | | 1.015 | 7.92 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/24/23 13:19 | 2/28/23 11:23 | | 1.015 | 36.7 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | | | | | | | | |
| * Boron, Dissolved | 2/23/23 13:36 | 2/27/23 12:03 | | 1.015 | 0.0423 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 2/23/23 13:36 | 2/27/23 13:51 | | 101.5 | 378 | mg/L | 7.0035 | 40.6 | |
| * Iron, Dissolved | 2/23/23 13:36 | 2/27/23 13:51 | | 101.5 | 15.8 | mg/L | 0.8120 | 4.06 | |
| * Lithium, Dissolved | 2/23/23 13:36 | 2/27/23 12:03 | | 1.015 | 0.0428 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/23/23 13:36 | 2/27/23 13:51 | | 101.5 | 419 | mg/L | 2.1315 | 40.6 | |
| * Silica, Dissolved (calc.) | 2/23/23 13:36 | 2/27/23 12:03 | | 1 | 16.8 | mg/L | | | |
| * Silicon, Dissolved | 2/23/23 13:36 | 2/27/23 12:03 | | 1.015 | 7.87 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/23/23 13:36 | 2/27/23 12:03 | | 1.015 | 37.2 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | | | | | | | | |
| * Antimony, Total | 2/24/23 13:19 | 2/27/23 17:45 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/24/23 13:19 | 2/27/23 17:45 | | 1.015 | 0.00723 | mg/L | 0.006090 | 0.05075 | J |
| * Arsenic, Total | 2/24/23 13:19 | 2/27/23 17:45 | | 1.015 | 0.00134 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 2/24/23 13:19 | 2/27/23 17:45 | | 1.015 | 0.0135 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 2/24/23 13:19 | 2/27/23 17:45 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/24/23 13:19 | 2/27/23 17:45 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/24/23 13:19 | 2/27/23 17:45 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Total | 2/24/23 13:19 | 2/27/23 17:45 | | 1.015 | 0.325 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 2/24/23 13:19 | 2/27/23 17:45 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/24/23 13:19 | 2/27/23 19:35 | | 92.365 | 17.7 | mg/L | 0.013855 | 0.092365 | |
| * Molybdenum, Total | 2/24/23 13:19 | 2/27/23 17:45 | | 1.015 | 0.000181 | mg/L | 0.000102 | 0.000203 | J |
| * Potassium, Total | 2/24/23 13:19 | 2/27/23 17:45 | | 1.015 | 7.12 | 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: Gorgas Landfill - MW-17R

Location Code: WMWGORLF
Collected: 2/21/23 10:38
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04081

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------|----------|--------|--------------|-------------------------|----------|----------|---|
| * Selenium, Total | 2/24/23 13:19 | 2/27/23 17:45 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/24/23 13:19 | 2/27/23 17:45 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | | | | | | | | |
| <i>Analyst: DLJ</i> | | | | | | | | | |
| * Antimony, Dissolved | 2/23/23 13:36 | 2/23/23 16:02 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/23/23 13:36 | 2/23/23 16:02 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.05075 | U |
| * Arsenic, Dissolved | 2/23/23 13:36 | 2/23/23 16:02 | | 1.015 | 0.00143 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 2/23/23 13:36 | 2/23/23 16:02 | | 1.015 | 0.0117 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 2/23/23 13:36 | 2/28/23 10:38 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/23/23 13:36 | 2/23/23 16:02 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/23/23 13:36 | 2/23/23 16:02 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/23/23 13:36 | 2/23/23 16:02 | | 1.015 | 0.251 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 2/23/23 13:36 | 2/23/23 16:02 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/23/23 13:36 | 2/28/23 11:59 | | 92.365 | 16.5 | mg/L | 0.013855 | 0.092365 | |
| * Molybdenum, Dissolved | 2/23/23 13:36 | 2/23/23 16:02 | | 1.015 | 0.00130 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 2/23/23 13:36 | 2/23/23 16:02 | | 1.015 | 6.51 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/23/23 13:36 | 2/23/23 16:02 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/23/23 13:36 | 2/23/23 16:02 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | | | | | | | | |
| <i>Analyst: ELH</i> | | | | | | | | | |
| * Mercury, Total by CVAA | 2/27/23 19:37 | 2/28/23 03:02 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | | | | | | | | |
| <i>Analyst: SC</i> | | | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/24/23 11:24 | 2/24/23 11:24 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | | | | | | | | |
| <i>Analyst: ALH</i> | | | | | | | | | |
| * Alkalinity to pH 4.5 | 3/3/23 14:10 | 3/3/23 15:40 | | 1 | 178 | mg CaCO ₃ /L | | | |
| Analytical Method: SM 2540C | | | | | | | | | |
| <i>Analyst: CNJ</i> | | | | | | | | | |
| * Solids, Dissolved | 2/23/23 13:45 | 2/24/23 13:45 | | 1 | 3740 | mg/L | | 227.3 | |
| Analytical Method: SM 4500CO2 D | | | | | | | | | |
| <i>Analyst: ALH</i> | | | | | | | | | |
| * Bicarbonate Alkalinity, (calc.) | 3/3/23 14:10 | 3/3/23 15:40 | | 1 | 178 | mg CaCO ₃ /L | | 1 | A |
| * Carbonate Alkalinity, (calc.) | 3/3/23 14:10 | 3/3/23 15:40 | | 1 | Not Detected | mg CaCO ₃ /L | | 0.5 | A |
| Analytical Method: SM 5310 B | | | | | | | | | |
| <i>Analyst: SC</i> | | | | | | | | | |
| * Total Organic Carbon | 2/23/23 22:31 | 2/23/23 22:31 | | 1 | 1.82 | 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: Gorgas Landfill - MW-17R

Location Code: WMWGORLF
Collected: 2/21/23 10:38
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04081

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E <i>Analyst: JCC</i> | | | | | | | | | |
| * Chloride | 2/24/23 14:31 | 2/24/23 14:31 | | 1 | 2.20 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 <i>Analyst: JCC</i> | | | | | | | | | |
| * Fluoride | 2/27/23 12:56 | 2/27/23 12:56 | | 1 | 0.198 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 <i>Analyst: JCC</i> | | | | | | | | | |
| * Sulfate | 3/1/23 14:19 | 3/1/23 14:19 | | 80 | 2460 | mg/L | 48.0 | 160 | |
| Analytical Method: Field Measurements <i>Analyst: DKG</i> | | | | | | | | | |
| Conductivity | 2/21/23 10:35 | 2/21/23 10:35 | | | 3602.75 | uS/cm | | | FA |
| pH | 2/21/23 10:35 | 2/21/23 10:35 | | | 6.07 | SU | | | FA |
| Temperature | 2/21/23 10:35 | 2/21/23 10:35 | | | 20.41 | C | | | FA |
| Turbidity | 2/21/23 10:35 | 2/21/23 10:35 | | | 1.8 | NTU | | | FA |
| Sulfide | 2/21/23 10:35 | 2/21/23 10:35 | | | 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: WMWGORLF

Sample Date: 2/21/23 10:38

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-17R

Laboratory ID Number: BD04081

| Sample | Analysis | Units | MB | | | | Standard | Limit | Rec | Limit | Prec | Limit | |
|---------|----------------------|-------|------------|----------|-------|--------|----------|--------|-----------------|-------|-------------|-------|------|
| | | | MB | Limit | Spike | MS | | | | | | | |
| BD04089 | Aluminum, Dissolved | mg/L | -0.000276 | 0.0198 | 0.100 | 0.0922 | 0.0981 | 0.0965 | 0.0850 to 0.115 | 92.2 | 70.0 to 130 | 6.20 | 20.0 |
| BD04088 | Aluminum, Total | mg/L | 0.000405 | 0.0198 | 0.100 | 0.102 | 0.105 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.90 | 20.0 |
| BD04089 | Antimony, Dissolved | mg/L | 0.000346 | 0.00100 | 0.100 | 0.0972 | 0.101 | 0.0904 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 3.83 | 20.0 |
| BD04088 | Antimony, Total | mg/L | 0.000397 | 0.00100 | 0.100 | 0.108 | 0.117 | 0.0988 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 8.00 | 20.0 |
| BD04089 | Arsenic, Dissolved | mg/L | -0.0000191 | 0.000200 | 0.100 | 0.167 | 0.164 | 0.0960 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 1.81 | 20.0 |
| BD04088 | Arsenic, Total | mg/L | 0.0000097 | 0.000200 | 0.100 | 0.104 | 0.111 | 0.0999 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 6.51 | 20.0 |
| BD04089 | Barium, Dissolved | mg/L | -0.0000092 | 0.00100 | 0.100 | 0.105 | 0.109 | 0.0954 | 0.0850 to 0.115 | 94.5 | 70.0 to 130 | 3.74 | 20.0 |
| BD04088 | Barium, Total | mg/L | -0.0000132 | 0.00100 | 0.100 | 0.127 | 0.136 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 6.84 | 20.0 |
| BD04089 | Beryllium, Dissolved | mg/L | 0.0000161 | 0.000880 | 0.100 | 0.0944 | 0.0957 | 0.108 | 0.0850 to 0.115 | 94.4 | 70.0 to 130 | 1.37 | 20.0 |
| BD04088 | Beryllium, Total | mg/L | 0.0000113 | 0.000880 | 0.100 | 0.0983 | 0.101 | 0.0997 | 0.0850 to 0.115 | 98.3 | 70.0 to 130 | 2.71 | 20.0 |
| BD04089 | Boron, Dissolved | mg/L | -0.00311 | 0.0650 | 1.00 | 1.18 | 1.18 | 1.01 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BD04088 | Boron, Total | mg/L | -0.00347 | 0.0650 | 1.00 | 1.18 | 1.17 | 1.00 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.851 | 20.0 |
| BD04089 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0912 | 0.0945 | 0.0975 | 0.0850 to 0.115 | 91.2 | 70.0 to 130 | 3.55 | 20.0 |
| BD04088 | Cadmium, Total | mg/L | 0.0000042 | 0.000147 | 0.100 | 0.0992 | 0.106 | 0.104 | 0.0850 to 0.115 | 99.2 | 70.0 to 130 | 6.63 | 20.0 |
| BD04089 | Calcium, Dissolved | mg/L | -0.0143 | 0.152 | 5.00 | 312 | 312 | 5.07 | 4.25 to 5.75 | -260 | 70.0 to 130 | 0.00 | 20.0 |
| BD04088 | Calcium, Total | mg/L | -0.0229 | 0.152 | 5.00 | 312 | 300 | 4.80 | 4.25 to 5.75 | 300 | 70.0 to 130 | 3.92 | 20.0 |
| BD04088 | Chloride | mg/L | 0.0239 | 1.00 | 80.0 | 121 | 114 | 10.0 | 9.00 to 11.0 | 108 | 80.0 to 120 | 5.96 | 20.0 |
| BD04089 | Chromium, Dissolved | mg/L | -0.0000558 | 0.000440 | 0.100 | 0.0928 | 0.0973 | 0.0989 | 0.0850 to 0.115 | 92.8 | 70.0 to 130 | 4.73 | 20.0 |
| BD04088 | Chromium, Total | mg/L | 0.0000667 | 0.000440 | 0.100 | 0.100 | 0.104 | 0.106 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 3.92 | 20.0 |
| BD04089 | Cobalt, Dissolved | mg/L | -0.0000015 | 0.000147 | 0.100 | 0.139 | 0.146 | 0.0995 | 0.0850 to 0.115 | 95.2 | 70.0 to 130 | 4.91 | 20.0 |
| BD04088 | Cobalt, Total | mg/L | 0.0000023 | 0.000147 | 0.100 | 0.104 | 0.109 | 0.112 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 4.69 | 20.0 |
| BD04088 | Fluoride | mg/L | 0.0375 | 0.125 | 2.50 | 2.77 | 2.78 | 2.62 | 2.25 to 2.75 | 103 | 80.0 to 120 | 0.360 | 20.0 |
| BD04089 | Iron, Dissolved | mg/L | -0.000232 | 0.0176 | 0.2 | 163 | 167 | 0.202 | 0.170 to 0.230 | 2500 | 70.0 to 130 | 2.42 | 20.0 |
| BD04088 | Iron, Total | mg/L | 0.000927 | 0.0176 | 0.2 | 4.48 | 4.16 | 0.200 | 0.170 to 0.230 | 220 | 70.0 to 130 | 7.41 | 20.0 |

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

Batch QC Summary

Customer Account: WMWGORLF
Sample Date: 2/21/23 10:38
Customer ID:
Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-17R

Laboratory ID Number: BD04081

| Sample | Analysis | Units | MB | | | | Standard | Limit | Rec | Limit | Prec | Limit | |
|---------|------------------------|-------|------------|----------|-------|---------|----------|---------|--------------------|-------|-------------|-------|------|
| | | | MB | Limit | Spike | MS | | | | | | | |
| BD04089 | Lead, Dissolved | mg/L | 0.0000017 | 0.000147 | 0.100 | 0.102 | 0.104 | 0.100 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.94 | 20.0 |
| BD04088 | Lead, Total | mg/L | 0.000011 | 0.000147 | 0.100 | 0.109 | 0.112 | 0.112 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 2.71 | 20.0 |
| BD04089 | Lithium, Dissolved | mg/L | 0.000766 | 0.0154 | 0.200 | 0.280 | 0.277 | 0.194 | 0.170 to 0.230 | 109 | 70.0 to 130 | 1.08 | 20.0 |
| BD04088 | Lithium, Total | mg/L | -0.000337 | 0.0154 | 0.200 | 0.483 | 0.481 | 0.198 | 0.170 to 0.230 | 102 | 70.0 to 130 | 0.415 | 20.0 |
| BD04089 | Magnesium, Dissolved | mg/L | -0.0245 | 0.0462 | 5.00 | 359 | 358 | 5.09 | 4.25 to 5.75 | -400 | 70.0 to 130 | 0.279 | 20.0 |
| BD04088 | Magnesium, Total | mg/L | -0.00494 | 0.0462 | 5.00 | 203 | 196 | 5.01 | 4.25 to 5.75 | 240 | 70.0 to 130 | 3.51 | 20.0 |
| BD04089 | Manganese, Dissolved | mg/L | 0.0000252 | 0.00033 | 0.100 | 21.2 | 20.9 | 0.0997 | 0.0850 to 0.115 | 500 | 70.0 to 130 | 1.43 | 20.0 |
| BD04088 | Manganese, Total | mg/L | -0.0000306 | 0.00033 | 0.100 | 0.570 | 0.596 | 0.107 | 0.0850 to 0.115 | 92.0 | 70.0 to 130 | 4.46 | 20.0 |
| BD04089 | Mercury, Total by CVAA | mg/L | -1.000E-05 | 0.000500 | 0.004 | 0.00367 | 0.00372 | 0.00348 | 0.00340 to 0.00460 | 91.8 | 70.0 to 130 | 1.35 | 20.0 |
| BD04089 | Molybdenum, Dissolved | mg/L | 0.0000079 | 0.0002 | 0.100 | 0.0939 | 0.0976 | 0.0972 | 0.0850 to 0.115 | 93.4 | 70.0 to 130 | 3.86 | 20.0 |
| BD04088 | Molybdenum, Total | mg/L | 0.0000028 | 0.0002 | 0.100 | 0.105 | 0.112 | 0.103 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 6.45 | 20.0 |
| BD04089 | Potassium, Dissolved | mg/L | -0.00373 | 0.367 | 10.0 | 29.3 | 31.0 | 9.85 | 8.50 to 11.5 | 111 | 70.0 to 130 | 5.64 | 20.0 |
| BD04088 | Potassium, Total | mg/L | 0.0259 | 0.367 | 10.0 | 17.5 | 17.8 | 10.3 | 8.50 to 11.5 | 102 | 70.0 to 130 | 1.70 | 20.0 |
| BD04089 | Selenium, Dissolved | mg/L | -0.0000434 | 0.00100 | 0.100 | 0.111 | 0.107 | 0.101 | 0.0850 to 0.115 | 111 | 70.0 to 130 | 3.67 | 20.0 |
| BD04088 | Selenium, Total | mg/L | 0.0000768 | 0.00100 | 0.100 | 0.0994 | 0.106 | 0.103 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 6.43 | 20.0 |
| BD04089 | Silicon, Dissolved | mg/L | -0.0000019 | 0.0440 | 1.00 | 15.2 | 15.2 | 1.01 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 0.00 | 20.0 |
| BD04088 | Silicon, Total | mg/L | 0.000121 | 0.0440 | 1.00 | 8.10 | 8.05 | 0.995 | 0.850 to 1.15 | 99.0 | 70.0 to 130 | 0.619 | 20.0 |
| BD04089 | Sodium, Dissolved | mg/L | -0.00164 | 0.0880 | 5.00 | 44.2 | 48.6 | 4.91 | 4.25 to 5.75 | -132 | 70.0 to 130 | 9.48 | 20.0 |
| BD04088 | Sodium, Total | mg/L | -0.000766 | 0.0880 | 5.00 | 162 | 157 | 4.88 | 4.25 to 5.75 | 200 | 70.0 to 130 | 3.13 | 20.0 |
| BD04088 | Sulfate | mg/L | 0.0257 | 2.0 | 1600 | 2980 | 3210 | 18.9 | 18.0 to 22.0 | 102 | 80.0 to 120 | 7.43 | 20.0 |
| BD04089 | Thallium, Dissolved | mg/L | -0.0000047 | 0.000147 | 0.100 | 0.101 | 0.105 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 3.88 | 20.0 |
| BD04088 | Thallium, Total | mg/L | 0.0000046 | 0.000147 | 0.100 | 0.109 | 0.113 | 0.110 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 3.60 | 20.0 |
| BD04088 | Total Organic Carbon | mg/L | 0.0453 | 1.00 | 10.0 | 14.8 | 15.2 | 27.1 | | 100 | 80.0 to 120 | 2.67 | 20.0 |

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

Batch QC Summary

Customer Account: WMWGORLF

Sample Date: 2/21/23 10:38

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-17R

Laboratory ID Number: BD04081

| Sample | Analysis | Units | MB | MB | | | Sample Duplicate | Standard Standard | Standard | | | Rec Rec | Limit Limit | Prec Prec | Limit Limit |
|---------|---------------------------|-------------------------|-------|-------|-------|------|------------------|-------------------|--------------|------|-------------|---------|-------------|-----------|-------------|
| | | | | Limit | Spike | MS | | | Limit | Rec | Prec | | | | |
| BD04082 | Alkalinity to pH 4.5 | mg CaCO ₃ /L | | | | | 144 | 49.9 | 45.0 to 55.0 | | | 0.00 | 10.0 | | |
| BD04088 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.02 | 0.200 | 2.00 | 1.97 | 0.005 | 1.88 | 1.80 to 2.20 | 98.5 | 90.0 to 110 | 0.00 | 15.0 | | |
| BD04088 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 2260 | 50.0 | 40.0 to 60.0 | | | 0.889 | 10.0 | | |

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

Certificate Of Analysis

Description: Gorgas Landfill - MW-18

Location Code: WMWGORLF
Collected: 2/21/23 11:40
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04082

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|----------|-------|--------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | | | | | | | |
| * Boron, Total | 2/24/23 13:19 | 2/28/23 11:27 | | 1.015 | 0.0316 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 2/24/23 13:19 | 2/28/23 14:40 | | 10.15 | 283 | mg/L | 0.70035 | 4.06 | |
| * Iron, Total | 2/24/23 13:19 | 2/28/23 11:27 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U |
| * Lithium, Total | 2/24/23 13:19 | 2/28/23 11:27 | | 1.015 | 0.0473 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/24/23 13:19 | 2/28/23 14:40 | | 10.15 | 283 | mg/L | 0.21315 | 4.06 | |
| * Silica, Total (calc.) | 2/24/23 13:19 | 2/28/23 11:27 | | 1 | 13.4 | mg/L | | | |
| * Silicon, Total | 2/24/23 13:19 | 2/28/23 11:27 | | 1.015 | 6.28 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/24/23 13:19 | 2/28/23 11:27 | | 1.015 | 28.1 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | | | | | | | | |
| * Boron, Dissolved | 2/23/23 13:36 | 2/27/23 12:06 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Dissolved | 2/23/23 13:36 | 2/27/23 13:54 | | 10.15 | 288 | mg/L | 0.70035 | 4.06 | |
| * Iron, Dissolved | 2/23/23 13:36 | 2/27/23 12:06 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U |
| * Lithium, Dissolved | 2/23/23 13:36 | 2/27/23 12:06 | | 1.015 | 0.0476 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/23/23 13:36 | 2/27/23 13:54 | | 10.15 | 300 | mg/L | 0.21315 | 4.06 | |
| * Silica, Dissolved (calc.) | 2/23/23 13:36 | 2/27/23 12:06 | | 1 | 13.4 | mg/L | | | |
| * Silicon, Dissolved | 2/23/23 13:36 | 2/27/23 12:06 | | 1.015 | 6.28 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/23/23 13:36 | 2/27/23 12:06 | | 1.015 | 28.1 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | | | | | | | | |
| * Antimony, Total | 2/24/23 13:19 | 2/27/23 17:48 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/24/23 13:19 | 2/27/23 17:48 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.05075 | U |
| * Arsenic, Total | 2/24/23 13:19 | 2/27/23 17:48 | | 1.015 | Not Detected | mg/L | 0.000081 | 0.000203 | U |
| * Barium, Total | 2/24/23 13:19 | 2/27/23 17:48 | | 1.015 | 0.0112 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 2/24/23 13:19 | 2/27/23 17:48 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/24/23 13:19 | 2/27/23 17:48 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/24/23 13:19 | 2/27/23 17:48 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Total | 2/24/23 13:19 | 2/27/23 17:48 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 2/24/23 13:19 | 2/27/23 17:48 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/24/23 13:19 | 2/27/23 17:48 | | 1.015 | 0.000829 | mg/L | 0.000152 | 0.001015 | J |
| * Molybdenum, Total | 2/24/23 13:19 | 2/27/23 17:48 | | 1.015 | Not Detected | mg/L | 0.000102 | 0.000203 | U |
| * Potassium, Total | 2/24/23 13:19 | 2/27/23 17:48 | | 1.015 | 6.71 | 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: Gorgas Landfill - MW-18

Location Code: WMWGORLF
Collected: 2/21/23 11:40
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04082

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------|----------|-------|--------------|-------------------------|----------|----------|---|
| * Selenium, Total | 2/24/23 13:19 | 2/27/23 17:48 | | 1.015 | 0.00436 | mg/L | 0.000508 | 0.001015 | |
| * Thallium, Total | 2/24/23 13:19 | 2/27/23 17:48 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | | | | | | | | |
| <i>Analyst: DLJ</i> | | | | | | | | | |
| * Antimony, Dissolved | 2/23/23 13:36 | 2/23/23 16:06 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/23/23 13:36 | 2/23/23 16:06 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.05075 | U |
| * Arsenic, Dissolved | 2/23/23 13:36 | 2/23/23 16:06 | | 1.015 | Not Detected | mg/L | 0.000081 | 0.000203 | U |
| * Barium, Dissolved | 2/23/23 13:36 | 2/23/23 16:06 | | 1.015 | 0.00893 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 2/23/23 13:36 | 2/28/23 10:41 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/23/23 13:36 | 2/23/23 16:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/23/23 13:36 | 2/23/23 16:06 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/23/23 13:36 | 2/23/23 16:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/23/23 13:36 | 2/23/23 16:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/23/23 13:36 | 2/23/23 16:06 | | 1.015 | 0.000415 | mg/L | 0.000152 | 0.001015 | J |
| * Molybdenum, Dissolved | 2/23/23 13:36 | 2/23/23 16:06 | | 1.015 | 0.00123 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 2/23/23 13:36 | 2/23/23 16:06 | | 1.015 | 5.95 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/23/23 13:36 | 2/23/23 16:06 | | 1.015 | 0.00408 | mg/L | 0.000508 | 0.001015 | |
| * Thallium, Dissolved | 2/23/23 13:36 | 2/23/23 16:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | | | | | | | | |
| <i>Analyst: ELH</i> | | | | | | | | | |
| * Mercury, Total by CVAA | 2/27/23 19:37 | 2/28/23 03:06 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | | | | | | | | |
| <i>Analyst: SC</i> | | | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/24/23 11:26 | 2/24/23 11:26 | | 1 | 0.473 | mg/L as N | 0.20 | 0.3 | |
| Analytical Method: SM 2320 B | | | | | | | | | |
| <i>Analyst: ALH</i> | | | | | | | | | |
| * Alkalinity to pH 4.5 | 3/3/23 14:10 | 3/3/23 15:40 | | 1 | 144 | mg CaCO ₃ /L | | | |
| Analytical Method: SM 2540C | | | | | | | | | |
| <i>Analyst: CNJ</i> | | | | | | | | | |
| * Solids, Dissolved | 2/23/23 13:45 | 2/24/23 13:45 | | 1 | 2480 | mg/L | | 147.1 | |
| Analytical Method: SM 4500CO2 D | | | | | | | | | |
| <i>Analyst: ALH</i> | | | | | | | | | |
| * Bicarbonate Alkalinity, (calc.) | 3/3/23 14:10 | 3/3/23 15:40 | | 1 | 144 | mg CaCO ₃ /L | | 1 | A |
| * Carbonate Alkalinity, (calc.) | 3/3/23 14:10 | 3/3/23 15:40 | | 1 | Not Detected | mg CaCO ₃ /L | | 0.5 | A |
| Analytical Method: SM 5310 B | | | | | | | | | |
| <i>Analyst: SC</i> | | | | | | | | | |
| * Total Organic Carbon | 2/23/23 22:46 | 2/23/23 22:46 | | 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: Gorgas Landfill - MW-18

Location Code: WMWGORLF
Collected: 2/21/23 11:40
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04082

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E Analyst: JCC | | | | | | | | | |
| * Chloride | 2/24/23 14:32 | 2/24/23 14:32 | | 1 | 1.30 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 Analyst: JCC | | | | | | | | | |
| * Fluoride | 2/27/23 12:57 | 2/27/23 12:57 | | 1 | 0.317 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 Analyst: JCC | | | | | | | | | |
| * Sulfate | 3/1/23 14:20 | 3/1/23 14:20 | | 50 | 1610 | mg/L | 30.0 | 100 | |
| Analytical Method: Field Measurements Analyst: DKG | | | | | | | | | |
| Conductivity | 2/21/23 11:37 | 2/21/23 11:37 | | | 2625.69 | uS/cm | | | FA |
| pH | 2/21/23 11:37 | 2/21/23 11:37 | | | 6.63 | SU | | | FA |
| Temperature | 2/21/23 11:37 | 2/21/23 11:37 | | | 19.76 | C | | | FA |
| Turbidity | 2/21/23 11:37 | 2/21/23 11:37 | | | 0.87 | NTU | | | FA |
| Sulfide | 2/21/23 11:37 | 2/21/23 11:37 | | | 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: WMWGORLF

Sample Date: 2/21/23 11:40

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-18

Laboratory ID Number: BD04082

| Sample | Analysis | Units | MB | | | | Standard | Limit | Rec | Limit | Prec | Limit | |
|---------|----------------------|-------|------------|----------|-------|--------|----------|--------|-----------------|-------|-------------|-------|------|
| | | | MB | Limit | Spike | MS | | | | | | | |
| BD04089 | Aluminum, Dissolved | mg/L | -0.000276 | 0.0198 | 0.100 | 0.0922 | 0.0981 | 0.0965 | 0.0850 to 0.115 | 92.2 | 70.0 to 130 | 6.20 | 20.0 |
| BD04088 | Aluminum, Total | mg/L | 0.000405 | 0.0198 | 0.100 | 0.102 | 0.105 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.90 | 20.0 |
| BD04089 | Antimony, Dissolved | mg/L | 0.000346 | 0.00100 | 0.100 | 0.0972 | 0.101 | 0.0904 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 3.83 | 20.0 |
| BD04088 | Antimony, Total | mg/L | 0.000397 | 0.00100 | 0.100 | 0.108 | 0.117 | 0.0988 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 8.00 | 20.0 |
| BD04089 | Arsenic, Dissolved | mg/L | -0.0000191 | 0.000200 | 0.100 | 0.167 | 0.164 | 0.0960 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 1.81 | 20.0 |
| BD04088 | Arsenic, Total | mg/L | 0.0000097 | 0.000200 | 0.100 | 0.104 | 0.111 | 0.0999 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 6.51 | 20.0 |
| BD04089 | Barium, Dissolved | mg/L | -0.0000092 | 0.00100 | 0.100 | 0.105 | 0.109 | 0.0954 | 0.0850 to 0.115 | 94.5 | 70.0 to 130 | 3.74 | 20.0 |
| BD04088 | Barium, Total | mg/L | -0.0000132 | 0.00100 | 0.100 | 0.127 | 0.136 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 6.84 | 20.0 |
| BD04089 | Beryllium, Dissolved | mg/L | 0.0000161 | 0.000880 | 0.100 | 0.0944 | 0.0957 | 0.108 | 0.0850 to 0.115 | 94.4 | 70.0 to 130 | 1.37 | 20.0 |
| BD04088 | Beryllium, Total | mg/L | 0.0000113 | 0.000880 | 0.100 | 0.0983 | 0.101 | 0.0997 | 0.0850 to 0.115 | 98.3 | 70.0 to 130 | 2.71 | 20.0 |
| BD04089 | Boron, Dissolved | mg/L | -0.00311 | 0.0650 | 1.00 | 1.18 | 1.18 | 1.01 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BD04088 | Boron, Total | mg/L | -0.00347 | 0.0650 | 1.00 | 1.18 | 1.17 | 1.00 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.851 | 20.0 |
| BD04089 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0912 | 0.0945 | 0.0975 | 0.0850 to 0.115 | 91.2 | 70.0 to 130 | 3.55 | 20.0 |
| BD04088 | Cadmium, Total | mg/L | 0.0000042 | 0.000147 | 0.100 | 0.0992 | 0.106 | 0.104 | 0.0850 to 0.115 | 99.2 | 70.0 to 130 | 6.63 | 20.0 |
| BD04089 | Calcium, Dissolved | mg/L | -0.0143 | 0.152 | 5.00 | 312 | 312 | 5.07 | 4.25 to 5.75 | -260 | 70.0 to 130 | 0.00 | 20.0 |
| BD04088 | Calcium, Total | mg/L | -0.0229 | 0.152 | 5.00 | 312 | 300 | 4.80 | 4.25 to 5.75 | 300 | 70.0 to 130 | 3.92 | 20.0 |
| BD04088 | Chloride | mg/L | 0.0239 | 1.00 | 80.0 | 121 | 114 | 10.0 | 9.00 to 11.0 | 108 | 80.0 to 120 | 5.96 | 20.0 |
| BD04089 | Chromium, Dissolved | mg/L | -0.0000558 | 0.000440 | 0.100 | 0.0928 | 0.0973 | 0.0989 | 0.0850 to 0.115 | 92.8 | 70.0 to 130 | 4.73 | 20.0 |
| BD04088 | Chromium, Total | mg/L | 0.0000667 | 0.000440 | 0.100 | 0.100 | 0.104 | 0.106 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 3.92 | 20.0 |
| BD04089 | Cobalt, Dissolved | mg/L | -0.0000015 | 0.000147 | 0.100 | 0.139 | 0.146 | 0.0995 | 0.0850 to 0.115 | 95.2 | 70.0 to 130 | 4.91 | 20.0 |
| BD04088 | Cobalt, Total | mg/L | 0.0000023 | 0.000147 | 0.100 | 0.104 | 0.109 | 0.112 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 4.69 | 20.0 |
| BD04088 | Fluoride | mg/L | 0.0375 | 0.125 | 2.50 | 2.77 | 2.78 | 2.62 | 2.25 to 2.75 | 103 | 80.0 to 120 | 0.360 | 20.0 |
| BD04089 | Iron, Dissolved | mg/L | -0.000232 | 0.0176 | 0.2 | 163 | 167 | 0.202 | 0.170 to 0.230 | 2500 | 70.0 to 130 | 2.42 | 20.0 |
| BD04088 | Iron, Total | mg/L | 0.000927 | 0.0176 | 0.2 | 4.48 | 4.16 | 0.200 | 0.170 to 0.230 | 220 | 70.0 to 130 | 7.41 | 20.0 |

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

Batch QC Summary

Customer Account: WMWGORLF

Sample Date: 2/21/23 11:40

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-18

Laboratory ID Number: BD04082

| Sample | Analysis | Units | MB | | | | Standard | Limit | Rec | Limit | Prec | Limit | |
|---------|------------------------|-------|------------|----------|-------|---------|----------|---------|--------------------|-------|-------------|-------|------|
| | | | MB | Limit | Spike | MS | | | | | | | |
| BD04089 | Lead, Dissolved | mg/L | 0.0000017 | 0.000147 | 0.100 | 0.102 | 0.104 | 0.100 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.94 | 20.0 |
| BD04088 | Lead, Total | mg/L | 0.000011 | 0.000147 | 0.100 | 0.109 | 0.112 | 0.112 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 2.71 | 20.0 |
| BD04089 | Lithium, Dissolved | mg/L | 0.000766 | 0.0154 | 0.200 | 0.280 | 0.277 | 0.194 | 0.170 to 0.230 | 109 | 70.0 to 130 | 1.08 | 20.0 |
| BD04088 | Lithium, Total | mg/L | -0.000337 | 0.0154 | 0.200 | 0.483 | 0.481 | 0.198 | 0.170 to 0.230 | 102 | 70.0 to 130 | 0.415 | 20.0 |
| BD04089 | Magnesium, Dissolved | mg/L | -0.0245 | 0.0462 | 5.00 | 359 | 358 | 5.09 | 4.25 to 5.75 | -400 | 70.0 to 130 | 0.279 | 20.0 |
| BD04088 | Magnesium, Total | mg/L | -0.00494 | 0.0462 | 5.00 | 203 | 196 | 5.01 | 4.25 to 5.75 | 240 | 70.0 to 130 | 3.51 | 20.0 |
| BD04089 | Manganese, Dissolved | mg/L | 0.0000252 | 0.00033 | 0.100 | 21.2 | 20.9 | 0.0997 | 0.0850 to 0.115 | 500 | 70.0 to 130 | 1.43 | 20.0 |
| BD04088 | Manganese, Total | mg/L | -0.0000306 | 0.00033 | 0.100 | 0.570 | 0.596 | 0.107 | 0.0850 to 0.115 | 92.0 | 70.0 to 130 | 4.46 | 20.0 |
| BD04089 | Mercury, Total by CVAA | mg/L | -1.000E-05 | 0.000500 | 0.004 | 0.00367 | 0.00372 | 0.00348 | 0.00340 to 0.00460 | 91.8 | 70.0 to 130 | 1.35 | 20.0 |
| BD04089 | Molybdenum, Dissolved | mg/L | 0.0000079 | 0.0002 | 0.100 | 0.0939 | 0.0976 | 0.0972 | 0.0850 to 0.115 | 93.4 | 70.0 to 130 | 3.86 | 20.0 |
| BD04088 | Molybdenum, Total | mg/L | 0.000028 | 0.0002 | 0.100 | 0.105 | 0.112 | 0.103 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 6.45 | 20.0 |
| BD04089 | Potassium, Dissolved | mg/L | -0.00373 | 0.367 | 10.0 | 29.3 | 31.0 | 9.85 | 8.50 to 11.5 | 111 | 70.0 to 130 | 5.64 | 20.0 |
| BD04088 | Potassium, Total | mg/L | 0.0259 | 0.367 | 10.0 | 17.5 | 17.8 | 10.3 | 8.50 to 11.5 | 102 | 70.0 to 130 | 1.70 | 20.0 |
| BD04089 | Selenium, Dissolved | mg/L | -0.0000434 | 0.00100 | 0.100 | 0.111 | 0.107 | 0.101 | 0.0850 to 0.115 | 111 | 70.0 to 130 | 3.67 | 20.0 |
| BD04088 | Selenium, Total | mg/L | 0.0000768 | 0.00100 | 0.100 | 0.0994 | 0.106 | 0.103 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 6.43 | 20.0 |
| BD04089 | Silicon, Dissolved | mg/L | -0.000019 | 0.0440 | 1.00 | 15.2 | 15.2 | 1.01 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 0.00 | 20.0 |
| BD04088 | Silicon, Total | mg/L | 0.000121 | 0.0440 | 1.00 | 8.10 | 8.05 | 0.995 | 0.850 to 1.15 | 99.0 | 70.0 to 130 | 0.619 | 20.0 |
| BD04089 | Sodium, Dissolved | mg/L | -0.00164 | 0.0880 | 5.00 | 44.2 | 48.6 | 4.91 | 4.25 to 5.75 | -132 | 70.0 to 130 | 9.48 | 20.0 |
| BD04088 | Sodium, Total | mg/L | -0.000766 | 0.0880 | 5.00 | 162 | 157 | 4.88 | 4.25 to 5.75 | 200 | 70.0 to 130 | 3.13 | 20.0 |
| BD04088 | Sulfate | mg/L | 0.0257 | 2.0 | 1600 | 2980 | 3210 | 18.9 | 18.0 to 22.0 | 102 | 80.0 to 120 | 7.43 | 20.0 |
| BD04089 | Thallium, Dissolved | mg/L | -0.0000047 | 0.000147 | 0.100 | 0.101 | 0.105 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 3.88 | 20.0 |
| BD04088 | Thallium, Total | mg/L | 0.0000046 | 0.000147 | 0.100 | 0.109 | 0.113 | 0.110 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 3.60 | 20.0 |
| BD04088 | Total Organic Carbon | mg/L | 0.0453 | 1.00 | 10.0 | 14.8 | 15.2 | 27.1 | | 100 | 80.0 to 120 | 2.67 | 20.0 |

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

Batch QC Summary

Customer Account: WMWGORLF

Sample Date: 2/21/23 11:40

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-18

Laboratory ID Number: BD04082

| Sample | Analysis | Units | MB | MB | | | Sample Duplicate | Standard Standard | Standard | | | Rec Rec | Limit Limit | Prec Prec | Limit Limit |
|---------|---------------------------|-------------------------|-------|-------|-------|------|------------------|-------------------|--------------|------|-------------|---------|-------------|-----------|-------------|
| | | | | Limit | Spike | MS | | | Limit | Rec | Prec | | | | |
| BD04082 | Alkalinity to pH 4.5 | mg CaCO ₃ /L | | | | | 144 | 49.9 | 45.0 to 55.0 | | | 0.00 | 10.0 | | |
| BD04088 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.02 | 0.200 | 2.00 | 1.97 | 0.005 | 1.88 | 1.80 to 2.20 | 98.5 | 90.0 to 110 | 0.00 | 15.0 | | |
| BD04088 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 2260 | 50.0 | 40.0 to 60.0 | | | 0.889 | 10.0 | | |

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

Certificate Of Analysis

Description: Gorgas Landfill - MW-19

Location Code: WMWGORLF
Collected: 2/21/23 12:46
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04083

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|----------|-------|--------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | | | | | | | |
| * Boron, Total | 2/24/23 13:19 | 2/28/23 11:30 | | 1.015 | 0.0376 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 2/24/23 13:19 | 2/28/23 14:43 | | 101.5 | 292 | mg/L | 7.0035 | 40.6 | |
| * Iron, Total | 2/24/23 13:19 | 2/28/23 11:30 | | 1.015 | 3.87 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 2/24/23 13:19 | 2/28/23 11:30 | | 1.015 | 0.0508 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/24/23 13:19 | 2/28/23 14:43 | | 101.5 | 299 | mg/L | 2.1315 | 40.6 | |
| * Silica, Total (calc.) | 2/24/23 13:19 | 2/28/23 11:30 | | 1 | 17.5 | mg/L | | | |
| * Silicon, Total | 2/24/23 13:19 | 2/28/23 11:30 | | 1.015 | 8.18 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/24/23 13:19 | 2/28/23 11:30 | | 1.015 | 32.5 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | | | | | | | | |
| * Boron, Dissolved | 2/23/23 13:36 | 2/27/23 12:10 | | 1.015 | 0.0331 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 2/23/23 13:36 | 2/27/23 13:57 | | 101.5 | 297 | mg/L | 7.0035 | 40.6 | |
| * Iron, Dissolved | 2/23/23 13:36 | 2/27/23 12:10 | | 1.015 | 1.81 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 2/23/23 13:36 | 2/27/23 12:10 | | 1.015 | 0.0523 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/23/23 13:36 | 2/27/23 13:57 | | 101.5 | 309 | mg/L | 2.1315 | 40.6 | |
| * Silica, Dissolved (calc.) | 2/23/23 13:36 | 2/27/23 12:10 | | 1 | 16.9 | mg/L | | | |
| * Silicon, Dissolved | 2/23/23 13:36 | 2/27/23 12:10 | | 1.015 | 7.90 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/23/23 13:36 | 2/27/23 12:10 | | 1.015 | 32.9 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | | | | | | | | |
| * Antimony, Total | 2/24/23 13:19 | 2/27/23 17:52 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/24/23 13:19 | 2/27/23 17:52 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.05075 | U |
| * Arsenic, Total | 2/24/23 13:19 | 2/27/23 17:52 | | 1.015 | 0.000311 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 2/24/23 13:19 | 2/27/23 17:52 | | 1.015 | 0.0100 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 2/24/23 13:19 | 2/27/23 17:52 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/24/23 13:19 | 2/27/23 17:52 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/24/23 13:19 | 2/27/23 17:52 | | 1.015 | 0.000246 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 2/24/23 13:19 | 2/27/23 17:52 | | 1.015 | 0.0440 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 2/24/23 13:19 | 2/27/23 17:52 | | 1.015 | 0.0000751 | mg/L | 0.000068 | 0.000203 | J |
| * Manganese, Total | 2/24/23 13:19 | 2/27/23 19:38 | | 5.075 | 2.84 | mg/L | 0.000761 | 0.005075 | |
| * Molybdenum, Total | 2/24/23 13:19 | 2/27/23 17:52 | | 1.015 | 0.000229 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 2/24/23 13:19 | 2/27/23 17:52 | | 1.015 | 5.77 | 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: Gorgas Landfill - MW-19

Location Code: WMWGORLF
Collected: 2/21/23 12:46
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04083

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------|----------|-------|--------------|-------------------------|----------|----------|---|
| * Selenium, Total | 2/24/23 13:19 | 2/27/23 17:52 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/24/23 13:19 | 2/27/23 17:52 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | | | | | | | | |
| <i>Analyst: DLJ</i> | | | | | | | | | |
| * Antimony, Dissolved | 2/23/23 13:36 | 2/23/23 16:09 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/23/23 13:36 | 2/23/23 16:09 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.05075 | U |
| * Arsenic, Dissolved | 2/23/23 13:36 | 2/23/23 16:09 | | 1.015 | Not Detected | mg/L | 0.000081 | 0.000203 | U |
| * Barium, Dissolved | 2/23/23 13:36 | 2/23/23 16:09 | | 1.015 | 0.00835 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 2/23/23 13:36 | 2/28/23 10:45 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/23/23 13:36 | 2/23/23 16:09 | | 1.015 | 0.0000953 | mg/L | 0.000068 | 0.000203 | J |
| * Chromium, Dissolved | 2/23/23 13:36 | 2/23/23 16:09 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/23/23 13:36 | 2/23/23 16:09 | | 1.015 | 0.0376 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 2/23/23 13:36 | 2/23/23 16:09 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/23/23 13:36 | 2/28/23 12:03 | | 5.075 | 2.81 | mg/L | 0.000761 | 0.005075 | |
| * Molybdenum, Dissolved | 2/23/23 13:36 | 2/23/23 16:09 | | 1.015 | 0.000328 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 2/23/23 13:36 | 2/23/23 16:09 | | 1.015 | 5.27 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/23/23 13:36 | 2/23/23 16:09 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/23/23 13:36 | 2/23/23 16:09 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | | | | | | | | |
| <i>Analyst: ELH</i> | | | | | | | | | |
| * Mercury, Total by CVAA | 2/27/23 19:37 | 2/28/23 03:10 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | | | | | | | | |
| <i>Analyst: SC</i> | | | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/24/23 11:28 | 2/24/23 11:28 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | | | | | | | | |
| <i>Analyst: ALH</i> | | | | | | | | | |
| * Alkalinity to pH 4.5 | 3/6/23 13:15 | 3/6/23 14:40 | | 1 | 200 | mg CaCO ₃ /L | | | |
| Analytical Method: SM 2540C | | | | | | | | | |
| <i>Analyst: CNJ</i> | | | | | | | | | |
| * Solids, Dissolved | 2/23/23 13:45 | 2/24/23 13:45 | | 1 | 2910 | mg/L | | 178.6 | |
| Analytical Method: SM 4500CO2 D | | | | | | | | | |
| <i>Analyst: ALH</i> | | | | | | | | | |
| * Bicarbonate Alkalinity, (calc.) | 3/6/23 13:15 | 3/6/23 14:40 | | 1 | 200 | mg CaCO ₃ /L | | 1 | A |
| * Carbonate Alkalinity, (calc.) | 3/6/23 13:15 | 3/6/23 14:40 | | 1 | Not Detected | mg CaCO ₃ /L | | 0.5 | A |
| Analytical Method: SM 5310 B | | | | | | | | | |
| <i>Analyst: SC</i> | | | | | | | | | |
| * Total Organic Carbon | 2/23/23 23:05 | 2/23/23 23:05 | | 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: Gorgas Landfill - MW-19

Location Code: WMWGORLF
Collected: 2/21/23 12:46
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04083

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E <i>Analyst: JCC</i> | | | | | | | | | |
| * Chloride | 2/24/23 14:33 | 2/24/23 14:33 | | 1 | 2.19 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 <i>Analyst: JCC</i> | | | | | | | | | |
| * Fluoride | 2/27/23 12:58 | 2/27/23 12:58 | | 1 | 0.381 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 <i>Analyst: JCC</i> | | | | | | | | | |
| * Sulfate | 3/1/23 14:21 | 3/1/23 14:21 | | 64 | 1960 | mg/L | 38.4 | 128 | |
| Analytical Method: Field Measurements <i>Analyst: DKG</i> | | | | | | | | | |
| Conductivity | 2/21/23 12:43 | 2/21/23 12:43 | | | 2971.83 | uS/cm | | | FA |
| pH | 2/21/23 12:43 | 2/21/23 12:43 | | | 6.32 | SU | | | FA |
| Temperature | 2/21/23 12:43 | 2/21/23 12:43 | | | 19.22 | C | | | FA |
| Turbidity | 2/21/23 12:43 | 2/21/23 12:43 | | | 2.24 | NTU | | | FA |
| Sulfide | 2/21/23 12:43 | 2/21/23 12:43 | | | 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: WMWGORLF

Sample Date: 2/21/23 12:46

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-19

Laboratory ID Number: BD04083

| Sample | Analysis | Units | MB | | | | Standard | Limit | Rec | Limit | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|----------|--------|-----------------|-------|-------------|-------|
| | | | MB | Limit | Spike | MS | | | | | | |
| BD04089 | Aluminum, Dissolved | mg/L | -0.000276 | 0.0198 | 0.100 | 0.0922 | 0.0981 | 0.0965 | 0.0850 to 0.115 | 92.2 | 70.0 to 130 | 6.20 |
| BD04088 | Aluminum, Total | mg/L | 0.000405 | 0.0198 | 0.100 | 0.102 | 0.105 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.90 |
| BD04089 | Antimony, Dissolved | mg/L | 0.000346 | 0.00100 | 0.100 | 0.0972 | 0.101 | 0.0904 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 3.83 |
| BD04088 | Antimony, Total | mg/L | 0.000397 | 0.00100 | 0.100 | 0.108 | 0.117 | 0.0988 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 8.00 |
| BD04089 | Arsenic, Dissolved | mg/L | -0.0000191 | 0.000200 | 0.100 | 0.167 | 0.164 | 0.0960 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 1.81 |
| BD04088 | Arsenic, Total | mg/L | 0.0000097 | 0.000200 | 0.100 | 0.104 | 0.111 | 0.0999 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 6.51 |
| BD04089 | Barium, Dissolved | mg/L | -0.0000092 | 0.00100 | 0.100 | 0.105 | 0.109 | 0.0954 | 0.0850 to 0.115 | 94.5 | 70.0 to 130 | 3.74 |
| BD04088 | Barium, Total | mg/L | -0.0000132 | 0.00100 | 0.100 | 0.127 | 0.136 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 6.84 |
| BD04089 | Beryllium, Dissolved | mg/L | 0.0000161 | 0.000880 | 0.100 | 0.0944 | 0.0957 | 0.108 | 0.0850 to 0.115 | 94.4 | 70.0 to 130 | 1.37 |
| BD04088 | Beryllium, Total | mg/L | 0.0000113 | 0.000880 | 0.100 | 0.0983 | 0.101 | 0.0997 | 0.0850 to 0.115 | 98.3 | 70.0 to 130 | 2.71 |
| BD04089 | Boron, Dissolved | mg/L | -0.00311 | 0.0650 | 1.00 | 1.18 | 1.18 | 1.01 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.00 |
| BD04088 | Boron, Total | mg/L | -0.00347 | 0.0650 | 1.00 | 1.18 | 1.17 | 1.00 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.851 |
| BD04089 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0912 | 0.0945 | 0.0975 | 0.0850 to 0.115 | 91.2 | 70.0 to 130 | 3.55 |
| BD04088 | Cadmium, Total | mg/L | 0.0000042 | 0.000147 | 0.100 | 0.0992 | 0.106 | 0.104 | 0.0850 to 0.115 | 99.2 | 70.0 to 130 | 6.63 |
| BD04089 | Calcium, Dissolved | mg/L | -0.0143 | 0.152 | 5.00 | 312 | 312 | 5.07 | 4.25 to 5.75 | -260 | 70.0 to 130 | 0.00 |
| BD04088 | Calcium, Total | mg/L | -0.0229 | 0.152 | 5.00 | 312 | 300 | 4.80 | 4.25 to 5.75 | 300 | 70.0 to 130 | 3.92 |
| BD04088 | Chloride | mg/L | 0.0239 | 1.00 | 80.0 | 121 | 114 | 10.0 | 9.00 to 11.0 | 108 | 80.0 to 120 | 5.96 |
| BD04089 | Chromium, Dissolved | mg/L | -0.0000558 | 0.000440 | 0.100 | 0.0928 | 0.0973 | 0.0989 | 0.0850 to 0.115 | 92.8 | 70.0 to 130 | 4.73 |
| BD04088 | Chromium, Total | mg/L | 0.0000667 | 0.000440 | 0.100 | 0.100 | 0.104 | 0.106 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 3.92 |
| BD04089 | Cobalt, Dissolved | mg/L | -0.0000015 | 0.000147 | 0.100 | 0.139 | 0.146 | 0.0995 | 0.0850 to 0.115 | 95.2 | 70.0 to 130 | 4.91 |
| BD04088 | Cobalt, Total | mg/L | 0.0000023 | 0.000147 | 0.100 | 0.104 | 0.109 | 0.112 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 4.69 |
| BD04088 | Fluoride | mg/L | 0.0375 | 0.125 | 2.50 | 2.77 | 2.78 | 2.62 | 2.25 to 2.75 | 103 | 80.0 to 120 | 0.360 |
| BD04089 | Iron, Dissolved | mg/L | -0.000232 | 0.0176 | 0.2 | 163 | 167 | 0.202 | 0.170 to 0.230 | 2500 | 70.0 to 130 | 2.42 |
| BD04088 | Iron, Total | mg/L | 0.000927 | 0.0176 | 0.2 | 4.48 | 4.16 | 0.200 | 0.170 to 0.230 | 220 | 70.0 to 130 | 7.41 |

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

Batch QC Summary

Customer Account: WMWGORLF

Sample Date: 2/21/23 12:46

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-19

Laboratory ID Number: BD04083

| Sample | Analysis | Units | MB | | | | Standard | Limit | Rec | Limit | Prec | Limit | |
|---------|------------------------|-------|------------|----------|-------|---------|----------|---------|--------------------|-------|-------------|-------|------|
| | | | MB | Limit | Spike | MS | | | | | | | |
| BD04089 | Lead, Dissolved | mg/L | 0.0000017 | 0.000147 | 0.100 | 0.102 | 0.104 | 0.100 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.94 | 20.0 |
| BD04088 | Lead, Total | mg/L | 0.000011 | 0.000147 | 0.100 | 0.109 | 0.112 | 0.112 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 2.71 | 20.0 |
| BD04089 | Lithium, Dissolved | mg/L | 0.000766 | 0.0154 | 0.200 | 0.280 | 0.277 | 0.194 | 0.170 to 0.230 | 109 | 70.0 to 130 | 1.08 | 20.0 |
| BD04088 | Lithium, Total | mg/L | -0.000337 | 0.0154 | 0.200 | 0.483 | 0.481 | 0.198 | 0.170 to 0.230 | 102 | 70.0 to 130 | 0.415 | 20.0 |
| BD04089 | Magnesium, Dissolved | mg/L | -0.0245 | 0.0462 | 5.00 | 359 | 358 | 5.09 | 4.25 to 5.75 | -400 | 70.0 to 130 | 0.279 | 20.0 |
| BD04088 | Magnesium, Total | mg/L | -0.00494 | 0.0462 | 5.00 | 203 | 196 | 5.01 | 4.25 to 5.75 | 240 | 70.0 to 130 | 3.51 | 20.0 |
| BD04089 | Manganese, Dissolved | mg/L | 0.0000252 | 0.00033 | 0.100 | 21.2 | 20.9 | 0.0997 | 0.0850 to 0.115 | 500 | 70.0 to 130 | 1.43 | 20.0 |
| BD04088 | Manganese, Total | mg/L | -0.0000306 | 0.00033 | 0.100 | 0.570 | 0.596 | 0.107 | 0.0850 to 0.115 | 92.0 | 70.0 to 130 | 4.46 | 20.0 |
| BD04089 | Mercury, Total by CVAA | mg/L | -1.000E-05 | 0.000500 | 0.004 | 0.00367 | 0.00372 | 0.00348 | 0.00340 to 0.00460 | 91.8 | 70.0 to 130 | 1.35 | 20.0 |
| BD04089 | Molybdenum, Dissolved | mg/L | 0.0000079 | 0.0002 | 0.100 | 0.0939 | 0.0976 | 0.0972 | 0.0850 to 0.115 | 93.4 | 70.0 to 130 | 3.86 | 20.0 |
| BD04088 | Molybdenum, Total | mg/L | 0.000028 | 0.0002 | 0.100 | 0.105 | 0.112 | 0.103 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 6.45 | 20.0 |
| BD04089 | Potassium, Dissolved | mg/L | -0.00373 | 0.367 | 10.0 | 29.3 | 31.0 | 9.85 | 8.50 to 11.5 | 111 | 70.0 to 130 | 5.64 | 20.0 |
| BD04088 | Potassium, Total | mg/L | 0.0259 | 0.367 | 10.0 | 17.5 | 17.8 | 10.3 | 8.50 to 11.5 | 102 | 70.0 to 130 | 1.70 | 20.0 |
| BD04089 | Selenium, Dissolved | mg/L | -0.0000434 | 0.00100 | 0.100 | 0.111 | 0.107 | 0.101 | 0.0850 to 0.115 | 111 | 70.0 to 130 | 3.67 | 20.0 |
| BD04088 | Selenium, Total | mg/L | 0.0000768 | 0.00100 | 0.100 | 0.0994 | 0.106 | 0.103 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 6.43 | 20.0 |
| BD04089 | Silicon, Dissolved | mg/L | -0.000019 | 0.0440 | 1.00 | 15.2 | 15.2 | 1.01 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 0.00 | 20.0 |
| BD04088 | Silicon, Total | mg/L | 0.000121 | 0.0440 | 1.00 | 8.10 | 8.05 | 0.995 | 0.850 to 1.15 | 99.0 | 70.0 to 130 | 0.619 | 20.0 |
| BD04089 | Sodium, Dissolved | mg/L | -0.00164 | 0.0880 | 5.00 | 44.2 | 48.6 | 4.91 | 4.25 to 5.75 | -132 | 70.0 to 130 | 9.48 | 20.0 |
| BD04088 | Sodium, Total | mg/L | -0.000766 | 0.0880 | 5.00 | 162 | 157 | 4.88 | 4.25 to 5.75 | 200 | 70.0 to 130 | 3.13 | 20.0 |
| BD04088 | Sulfate | mg/L | 0.0257 | 2.0 | 1600 | 2980 | 3210 | 18.9 | 18.0 to 22.0 | 102 | 80.0 to 120 | 7.43 | 20.0 |
| BD04089 | Thallium, Dissolved | mg/L | -0.0000047 | 0.000147 | 0.100 | 0.101 | 0.105 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 3.88 | 20.0 |
| BD04088 | Thallium, Total | mg/L | 0.0000046 | 0.000147 | 0.100 | 0.109 | 0.113 | 0.110 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 3.60 | 20.0 |
| BD04088 | Total Organic Carbon | mg/L | 0.0453 | 1.00 | 10.0 | 14.8 | 15.2 | 27.1 | | 100 | 80.0 to 120 | 2.67 | 20.0 |

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

Batch QC Summary

Customer Account: WMWGORLF

Sample Date: 2/21/23 12:46

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-19

Laboratory ID Number: BD04083

| Sample | Analysis | Units | MB | MB | | | Sample Duplicate | Standard Standard | Standard | | | Rec Rec | Prec Prec | Prec Limit |
|---------|---------------------------|-------------------------|-------|-------|-------|------|------------------|-------------------|--------------|------|-------------|---------|-----------|------------|
| | | | | Limit | Spike | MS | | | Limit | Rec | Limit | | | |
| BD04089 | Alkalinity to pH 4.5 | mg CaCO ₃ /L | | | | | 214 | 50.4 | 45.0 to 55.0 | | | 0.00 | 10.0 | |
| BD04088 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.02 | 0.200 | 2.00 | 1.97 | 0.005 | 1.88 | 1.80 to 2.20 | 98.5 | 90.0 to 110 | 0.00 | 15.0 | |
| BD04088 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 2260 | 50.0 | 40.0 to 60.0 | | | 0.889 | 10.0 | |

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

Certificate Of Analysis

Description: Gorgas Landfill - MW-19 Dup

Location Code: WMWGORLF
Collected: 2/21/23 12:46
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04084

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|----------|-------|--------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | | | | | | | |
| * Boron, Total | 2/24/23 13:19 | 2/28/23 11:33 | | 1.015 | 0.0371 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 2/24/23 13:19 | 2/28/23 14:46 | | 101.5 | 298 | mg/L | 7.0035 | 40.6 | |
| * Iron, Total | 2/24/23 13:19 | 2/28/23 11:33 | | 1.015 | 3.23 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 2/24/23 13:19 | 2/28/23 11:33 | | 1.015 | 0.0512 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/24/23 13:19 | 2/28/23 14:46 | | 101.5 | 298 | mg/L | 2.1315 | 40.6 | |
| * Silica, Total (calc.) | 2/24/23 13:19 | 2/28/23 11:33 | | 1 | 17.3 | mg/L | | | |
| * Silicon, Total | 2/24/23 13:19 | 2/28/23 11:33 | | 1.015 | 8.07 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/24/23 13:19 | 2/28/23 11:33 | | 1.015 | 32.4 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | | | | | | | | |
| * Boron, Dissolved | 2/23/23 13:36 | 2/27/23 12:13 | | 1.015 | 0.0332 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 2/23/23 13:36 | 2/27/23 14:00 | | 101.5 | 300 | mg/L | 7.0035 | 40.6 | |
| * Iron, Dissolved | 2/23/23 13:36 | 2/27/23 12:13 | | 1.015 | 1.81 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 2/23/23 13:36 | 2/27/23 12:13 | | 1.015 | 0.0522 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/23/23 13:36 | 2/27/23 14:00 | | 101.5 | 314 | mg/L | 2.1315 | 40.6 | |
| * Silica, Dissolved (calc.) | 2/23/23 13:36 | 2/27/23 12:13 | | 1 | 17.0 | mg/L | | | |
| * Silicon, Dissolved | 2/23/23 13:36 | 2/27/23 12:13 | | 1.015 | 7.94 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/23/23 13:36 | 2/27/23 12:13 | | 1.015 | 32.8 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | | | | | | | | |
| * Antimony, Total | 2/24/23 13:19 | 2/27/23 17:55 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/24/23 13:19 | 2/27/23 17:55 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.05075 | U |
| * Arsenic, Total | 2/24/23 13:19 | 2/27/23 17:55 | | 1.015 | 0.000266 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 2/24/23 13:19 | 2/27/23 17:55 | | 1.015 | 0.00993 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 2/24/23 13:19 | 2/27/23 17:55 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/24/23 13:19 | 2/27/23 17:55 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/24/23 13:19 | 2/27/23 17:55 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Total | 2/24/23 13:19 | 2/27/23 17:55 | | 1.015 | 0.0445 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 2/24/23 13:19 | 2/27/23 17:55 | | 1.015 | 0.0000696 | mg/L | 0.000068 | 0.000203 | J |
| * Manganese, Total | 2/24/23 13:19 | 2/27/23 19:42 | | 5.075 | 2.80 | mg/L | 0.000761 | 0.005075 | |
| * Molybdenum, Total | 2/24/23 13:19 | 2/27/23 17:55 | | 1.015 | 0.000167 | mg/L | 0.000102 | 0.000203 | J |
| * Potassium, Total | 2/24/23 13:19 | 2/27/23 17:55 | | 1.015 | 5.97 | 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: Gorgas Landfill - MW-19 Dup | | Location Code: | WMWGORLF | | | | | | |
|---|---------------|------------------------|---------------------|-------|--------------|-------------------------|----------|----------|---|
| | | Collected: | 2/21/23 12:46 | | | | | | |
| | | Customer ID: | | | | | | | |
| | | Submittal Date: | 2/23/23 11:07 | | | | | | |
| Laboratory ID Number: BD04084 | | | | | | | | | |
| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
| * Selenium, Total | 2/24/23 13:19 | 2/27/23 17:55 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/24/23 13:19 | 2/27/23 17:55 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | | | | | |
| * Antimony, Dissolved | 2/23/23 13:36 | 2/23/23 16:13 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/23/23 13:36 | 2/23/23 16:13 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.05075 | U |
| * Arsenic, Dissolved | 2/23/23 13:36 | 2/23/23 16:13 | | 1.015 | 0.0000987 | mg/L | 0.000081 | 0.000203 | J |
| * Barium, Dissolved | 2/23/23 13:36 | 2/23/23 16:13 | | 1.015 | 0.00882 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 2/23/23 13:36 | 2/28/23 10:48 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/23/23 13:36 | 2/23/23 16:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/23/23 13:36 | 2/23/23 16:13 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/23/23 13:36 | 2/23/23 16:13 | | 1.015 | 0.0380 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 2/23/23 13:36 | 2/23/23 16:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/23/23 13:36 | 2/28/23 12:06 | | 5.075 | 2.83 | mg/L | 0.000761 | 0.005075 | |
| * Molybdenum, Dissolved | 2/23/23 13:36 | 2/23/23 16:13 | | 1.015 | 0.000591 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 2/23/23 13:36 | 2/23/23 16:13 | | 1.015 | 5.34 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/23/23 13:36 | 2/23/23 16:13 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/23/23 13:36 | 2/23/23 16:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | | Analyst: ELH | | | | | | |
| * Mercury, Total by CVAA | 2/27/23 19:37 | 2/28/23 03:14 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | | Analyst: SC | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/24/23 11:30 | 2/24/23 11:30 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | | Analyst: ALH | | | | | | |
| * Alkalinity to pH 4.5 | 3/6/23 13:15 | 3/6/23 14:40 | | 1 | 200 | mg CaCO ₃ /L | | | |
| Analytical Method: SM 2540C | | | Analyst: CNJ | | | | | | |
| * Solids, Dissolved | 2/23/23 13:45 | 2/24/23 13:45 | | 1 | 2900 | mg/L | | 178.6 | |
| Analytical Method: SM 4500CO₂ D | | | Analyst: ALH | | | | | | |
| * Bicarbonate Alkalinity, (calc.) | 3/6/23 13:15 | 3/6/23 14:40 | | 1 | 200 | mg CaCO ₃ /L | | 1 | A |
| * Carbonate Alkalinity, (calc.) | 3/6/23 13:15 | 3/6/23 14:40 | | 1 | Not Detected | mg CaCO ₃ /L | | 0.5 | A |
| Analytical Method: SM 5310 B | | | Analyst: SC | | | | | | |
| * Total Organic Carbon | 2/23/23 23:18 | 2/23/23 23:18 | | 1 | 4.90 | mg/L | 1.00 | 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: Gorgas Landfill - MW-19 Dup

Location Code: WMWGORLF
Collected: 2/21/23 12:46
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04084

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E Analyst: JCC | | | | | | | | | |
| * Chloride | 2/24/23 14:35 | 2/24/23 14:35 | | 1 | 2.17 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 Analyst: JCC | | | | | | | | | |
| * Fluoride | 2/27/23 12:59 | 2/27/23 12:59 | | 1 | 0.382 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 Analyst: JCC | | | | | | | | | |
| * Sulfate | 3/1/23 14:22 | 3/1/23 14:22 | | 64 | 1920 | mg/L | 38.4 | 128 | |
| Analytical Method: Field Measurements Analyst: DKG | | | | | | | | | |
| Conductivity | 2/21/23 12:43 | 2/21/23 12:43 | | | 2971.83 | uS/cm | | | FA |
| pH | 2/21/23 12:43 | 2/21/23 12:43 | | | 6.32 | SU | | | FA |
| Temperature | 2/21/23 12:43 | 2/21/23 12:43 | | | 19.22 | C | | | FA |
| Turbidity | 2/21/23 12:43 | 2/21/23 12:43 | | | 2.24 | NTU | | | FA |
| Sulfide | 2/21/23 12:43 | 2/21/23 12:43 | | | 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: WMWGORLF

Sample Date: 2/21/23 12:46

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-19 Dup

Laboratory ID Number: BD04084

| Sample | Analysis | Units | MB | | | | Standard | Limit | Rec | Limit | Prec | Limit | |
|---------|----------------------|-------|------------|----------|-------|--------|----------|--------|-----------------|-------|-------------|-------|------|
| | | | MB | Limit | Spike | MS | | | | | | | |
| BD04089 | Aluminum, Dissolved | mg/L | -0.000276 | 0.0198 | 0.100 | 0.0922 | 0.0981 | 0.0965 | 0.0850 to 0.115 | 92.2 | 70.0 to 130 | 6.20 | 20.0 |
| BD04088 | Aluminum, Total | mg/L | 0.000405 | 0.0198 | 0.100 | 0.102 | 0.105 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.90 | 20.0 |
| BD04089 | Antimony, Dissolved | mg/L | 0.000346 | 0.00100 | 0.100 | 0.0972 | 0.101 | 0.0904 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 3.83 | 20.0 |
| BD04088 | Antimony, Total | mg/L | 0.000397 | 0.00100 | 0.100 | 0.108 | 0.117 | 0.0988 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 8.00 | 20.0 |
| BD04089 | Arsenic, Dissolved | mg/L | -0.0000191 | 0.000200 | 0.100 | 0.167 | 0.164 | 0.0960 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 1.81 | 20.0 |
| BD04088 | Arsenic, Total | mg/L | 0.0000097 | 0.000200 | 0.100 | 0.104 | 0.111 | 0.0999 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 6.51 | 20.0 |
| BD04089 | Barium, Dissolved | mg/L | -0.0000092 | 0.00100 | 0.100 | 0.105 | 0.109 | 0.0954 | 0.0850 to 0.115 | 94.5 | 70.0 to 130 | 3.74 | 20.0 |
| BD04088 | Barium, Total | mg/L | -0.0000132 | 0.00100 | 0.100 | 0.127 | 0.136 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 6.84 | 20.0 |
| BD04089 | Beryllium, Dissolved | mg/L | 0.0000161 | 0.000880 | 0.100 | 0.0944 | 0.0957 | 0.108 | 0.0850 to 0.115 | 94.4 | 70.0 to 130 | 1.37 | 20.0 |
| BD04088 | Beryllium, Total | mg/L | 0.0000113 | 0.000880 | 0.100 | 0.0983 | 0.101 | 0.0997 | 0.0850 to 0.115 | 98.3 | 70.0 to 130 | 2.71 | 20.0 |
| BD04089 | Boron, Dissolved | mg/L | -0.00311 | 0.0650 | 1.00 | 1.18 | 1.18 | 1.01 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BD04088 | Boron, Total | mg/L | -0.00347 | 0.0650 | 1.00 | 1.18 | 1.17 | 1.00 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.851 | 20.0 |
| BD04089 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0912 | 0.0945 | 0.0975 | 0.0850 to 0.115 | 91.2 | 70.0 to 130 | 3.55 | 20.0 |
| BD04088 | Cadmium, Total | mg/L | 0.0000042 | 0.000147 | 0.100 | 0.0992 | 0.106 | 0.104 | 0.0850 to 0.115 | 99.2 | 70.0 to 130 | 6.63 | 20.0 |
| BD04089 | Calcium, Dissolved | mg/L | -0.0143 | 0.152 | 5.00 | 312 | 312 | 5.07 | 4.25 to 5.75 | -260 | 70.0 to 130 | 0.00 | 20.0 |
| BD04088 | Calcium, Total | mg/L | -0.0229 | 0.152 | 5.00 | 312 | 300 | 4.80 | 4.25 to 5.75 | 300 | 70.0 to 130 | 3.92 | 20.0 |
| BD04088 | Chloride | mg/L | 0.0239 | 1.00 | 80.0 | 121 | 114 | 10.0 | 9.00 to 11.0 | 108 | 80.0 to 120 | 5.96 | 20.0 |
| BD04089 | Chromium, Dissolved | mg/L | -0.0000558 | 0.000440 | 0.100 | 0.0928 | 0.0973 | 0.0989 | 0.0850 to 0.115 | 92.8 | 70.0 to 130 | 4.73 | 20.0 |
| BD04088 | Chromium, Total | mg/L | 0.0000667 | 0.000440 | 0.100 | 0.100 | 0.104 | 0.106 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 3.92 | 20.0 |
| BD04089 | Cobalt, Dissolved | mg/L | -0.0000015 | 0.000147 | 0.100 | 0.139 | 0.146 | 0.0995 | 0.0850 to 0.115 | 95.2 | 70.0 to 130 | 4.91 | 20.0 |
| BD04088 | Cobalt, Total | mg/L | 0.0000023 | 0.000147 | 0.100 | 0.104 | 0.109 | 0.112 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 4.69 | 20.0 |
| BD04088 | Fluoride | mg/L | 0.0375 | 0.125 | 2.50 | 2.77 | 2.78 | 2.62 | 2.25 to 2.75 | 103 | 80.0 to 120 | 0.360 | 20.0 |
| BD04089 | Iron, Dissolved | mg/L | -0.000232 | 0.0176 | 0.2 | 163 | 167 | 0.202 | 0.170 to 0.230 | 2500 | 70.0 to 130 | 2.42 | 20.0 |
| BD04088 | Iron, Total | mg/L | 0.000927 | 0.0176 | 0.2 | 4.48 | 4.16 | 0.200 | 0.170 to 0.230 | 220 | 70.0 to 130 | 7.41 | 20.0 |

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

Batch QC Summary

Customer Account: WMWGORLF

Sample Date: 2/21/23 12:46

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-19 Dup

Laboratory ID Number: BD04084

| Sample | Analysis | Units | MB | | | | Standard | Limit | Rec | Limit | Prec | Limit | |
|---------|------------------------|-------|------------|----------|-------|---------|----------|---------|--------------------|-------|-------------|-------|------|
| | | | MB | Limit | Spike | MS | | | | | | | |
| BD04089 | Lead, Dissolved | mg/L | 0.0000017 | 0.000147 | 0.100 | 0.102 | 0.104 | 0.100 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.94 | 20.0 |
| BD04088 | Lead, Total | mg/L | 0.000011 | 0.000147 | 0.100 | 0.109 | 0.112 | 0.112 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 2.71 | 20.0 |
| BD04089 | Lithium, Dissolved | mg/L | 0.000766 | 0.0154 | 0.200 | 0.280 | 0.277 | 0.194 | 0.170 to 0.230 | 109 | 70.0 to 130 | 1.08 | 20.0 |
| BD04088 | Lithium, Total | mg/L | -0.000337 | 0.0154 | 0.200 | 0.483 | 0.481 | 0.198 | 0.170 to 0.230 | 102 | 70.0 to 130 | 0.415 | 20.0 |
| BD04089 | Magnesium, Dissolved | mg/L | -0.0245 | 0.0462 | 5.00 | 359 | 358 | 5.09 | 4.25 to 5.75 | -400 | 70.0 to 130 | 0.279 | 20.0 |
| BD04088 | Magnesium, Total | mg/L | -0.00494 | 0.0462 | 5.00 | 203 | 196 | 5.01 | 4.25 to 5.75 | 240 | 70.0 to 130 | 3.51 | 20.0 |
| BD04089 | Manganese, Dissolved | mg/L | 0.0000252 | 0.00033 | 0.100 | 21.2 | 20.9 | 0.0997 | 0.0850 to 0.115 | 500 | 70.0 to 130 | 1.43 | 20.0 |
| BD04088 | Manganese, Total | mg/L | -0.0000306 | 0.00033 | 0.100 | 0.570 | 0.596 | 0.107 | 0.0850 to 0.115 | 92.0 | 70.0 to 130 | 4.46 | 20.0 |
| BD04089 | Mercury, Total by CVAA | mg/L | -1.000E-05 | 0.000500 | 0.004 | 0.00367 | 0.00372 | 0.00348 | 0.00340 to 0.00460 | 91.8 | 70.0 to 130 | 1.35 | 20.0 |
| BD04089 | Molybdenum, Dissolved | mg/L | 0.0000079 | 0.0002 | 0.100 | 0.0939 | 0.0976 | 0.0972 | 0.0850 to 0.115 | 93.4 | 70.0 to 130 | 3.86 | 20.0 |
| BD04088 | Molybdenum, Total | mg/L | 0.000028 | 0.0002 | 0.100 | 0.105 | 0.112 | 0.103 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 6.45 | 20.0 |
| BD04089 | Potassium, Dissolved | mg/L | -0.00373 | 0.367 | 10.0 | 29.3 | 31.0 | 9.85 | 8.50 to 11.5 | 111 | 70.0 to 130 | 5.64 | 20.0 |
| BD04088 | Potassium, Total | mg/L | 0.0259 | 0.367 | 10.0 | 17.5 | 17.8 | 10.3 | 8.50 to 11.5 | 102 | 70.0 to 130 | 1.70 | 20.0 |
| BD04089 | Selenium, Dissolved | mg/L | -0.0000434 | 0.00100 | 0.100 | 0.111 | 0.107 | 0.101 | 0.0850 to 0.115 | 111 | 70.0 to 130 | 3.67 | 20.0 |
| BD04088 | Selenium, Total | mg/L | 0.0000768 | 0.00100 | 0.100 | 0.0994 | 0.106 | 0.103 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 6.43 | 20.0 |
| BD04089 | Silicon, Dissolved | mg/L | -0.000019 | 0.0440 | 1.00 | 15.2 | 15.2 | 1.01 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 0.00 | 20.0 |
| BD04088 | Silicon, Total | mg/L | 0.000121 | 0.0440 | 1.00 | 8.10 | 8.05 | 0.995 | 0.850 to 1.15 | 99.0 | 70.0 to 130 | 0.619 | 20.0 |
| BD04089 | Sodium, Dissolved | mg/L | -0.00164 | 0.0880 | 5.00 | 44.2 | 48.6 | 4.91 | 4.25 to 5.75 | -132 | 70.0 to 130 | 9.48 | 20.0 |
| BD04088 | Sodium, Total | mg/L | -0.000766 | 0.0880 | 5.00 | 162 | 157 | 4.88 | 4.25 to 5.75 | 200 | 70.0 to 130 | 3.13 | 20.0 |
| BD04088 | Sulfate | mg/L | 0.0257 | 2.0 | 1600 | 2980 | 3210 | 18.9 | 18.0 to 22.0 | 102 | 80.0 to 120 | 7.43 | 20.0 |
| BD04089 | Thallium, Dissolved | mg/L | -0.0000047 | 0.000147 | 0.100 | 0.101 | 0.105 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 3.88 | 20.0 |
| BD04088 | Thallium, Total | mg/L | 0.0000046 | 0.000147 | 0.100 | 0.109 | 0.113 | 0.110 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 3.60 | 20.0 |
| BD04088 | Total Organic Carbon | mg/L | 0.0453 | 1.00 | 10.0 | 14.8 | 15.2 | 27.1 | | 100 | 80.0 to 120 | 2.67 | 20.0 |

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

Batch QC Summary

Customer Account: WMWGORLF

Sample Date: 2/21/23 12:46

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-19 Dup

Laboratory ID Number: BD04084

| Sample | Analysis | Units | MB | MB | | | Sample Duplicate | Standard Standard | Standard | | | Rec Rec | Prec Prec | Prec Limit |
|---------|---------------------------|-------------------------|-------|-------|-------|------|------------------|-------------------|--------------|------|-------------|---------|-----------|------------|
| | | | | Limit | Spike | MS | | | Limit | Rec | Prec | | | |
| BD04089 | Alkalinity to pH 4.5 | mg CaCO ₃ /L | | | | | 214 | 50.4 | 45.0 to 55.0 | | | 0.00 | 10.0 | |
| BD04088 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.02 | 0.200 | 2.00 | 1.97 | 0.005 | 1.88 | 1.80 to 2.20 | 98.5 | 90.0 to 110 | 0.00 | 15.0 | |
| BD04088 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 2260 | 50.0 | 40.0 to 60.0 | | | 0.889 | 10.0 | |

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

Certificate Of Analysis

Description: Gorgas Landfill - MW-20

Location Code: WMWGORLF
Collected: 2/21/23 14:00
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04085

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|--------------|-------------------------------------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | | | | | | | |
| | | Analyst: ABB | | | | Preparation Method: EPA 1638 | | | |
| * Boron, Total | 2/24/23 13:19 | 2/28/23 11:36 | | 1.015 | 0.104 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Total | 2/24/23 13:19 | 2/28/23 14:49 | | 10.15 | 310 | mg/L | 0.70035 | 4.06 | |
| * Iron, Total | 2/24/23 13:19 | 2/28/23 14:49 | | 10.15 | 6.84 | mg/L | 0.08120 | 0.406 | |
| * Lithium, Total | 2/24/23 13:19 | 2/28/23 11:36 | | 1.015 | 0.190 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/24/23 13:19 | 2/28/23 14:49 | | 10.15 | 165 | mg/L | 0.21315 | 4.06 | |
| * Silica, Total (calc.) | 2/24/23 13:19 | 2/28/23 11:36 | | 1 | 21.2 | mg/L | | | |
| * Silicon, Total | 2/24/23 13:19 | 2/28/23 11:36 | | 1.015 | 9.89 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/24/23 13:19 | 2/28/23 14:49 | | 10.15 | 130 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | | | | | | | | |
| | | Analyst: ABB | | | | Preparation Method: EPA 1638 | | | |
| * Boron, Dissolved | 2/23/23 13:36 | 2/27/23 12:16 | | 1.015 | 0.100 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 2/23/23 13:36 | 2/27/23 14:03 | | 10.15 | 324 | mg/L | 0.70035 | 4.06 | |
| * Iron, Dissolved | 2/23/23 13:36 | 2/27/23 14:03 | | 10.15 | 6.91 | mg/L | 0.08120 | 0.406 | |
| * Lithium, Dissolved | 2/23/23 13:36 | 2/27/23 12:16 | | 1.015 | 0.192 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/23/23 13:36 | 2/27/23 14:03 | | 10.15 | 176 | mg/L | 0.21315 | 4.06 | |
| * Silica, Dissolved (calc.) | 2/23/23 13:36 | 2/27/23 12:16 | | 1 | 20.8 | mg/L | | | |
| * Silicon, Dissolved | 2/23/23 13:36 | 2/27/23 12:16 | | 1.015 | 9.74 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/23/23 13:36 | 2/27/23 14:03 | | 10.15 | 137 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | | | | | | | | |
| | | Analyst: DLJ | | | | Preparation Method: EPA 1638 | | | |
| * Antimony, Total | 2/24/23 13:19 | 2/27/23 17:59 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/24/23 13:19 | 2/27/23 17:59 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.05075 | U |
| * Arsenic, Total | 2/24/23 13:19 | 2/27/23 17:59 | | 1.015 | 0.000706 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 2/24/23 13:19 | 2/27/23 17:59 | | 1.015 | 0.0164 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 2/24/23 13:19 | 2/27/23 17:59 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/24/23 13:19 | 2/27/23 17:59 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/24/23 13:19 | 2/27/23 17:59 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Total | 2/24/23 13:19 | 2/27/23 17:59 | | 1.015 | 0.000330 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 2/24/23 13:19 | 2/27/23 17:59 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/24/23 13:19 | 2/27/23 17:59 | | 1.015 | 1.11 | mg/L | 0.000152 | 0.001015 | |
| * Molybdenum, Total | 2/24/23 13:19 | 2/27/23 17:59 | | 1.015 | 0.000949 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 2/24/23 13:19 | 2/27/23 17:59 | | 1.015 | 6.06 | 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: Gorgas Landfill - MW-20

Location Code: WMWGORLF
Collected: 2/21/23 14:00
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04085

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|---|---------------|---------------|----------|-------|--------------|-------------------------|----------|----------|---|
| * Selenium, Total | 2/24/23 13:19 | 2/27/23 17:59 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/24/23 13:19 | 2/27/23 17:59 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | | | | | | | | |
| <i>Analyst: DLJ</i> | | | | | | | | | |
| * Antimony, Dissolved | 2/23/23 13:36 | 2/23/23 16:17 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/23/23 13:36 | 2/23/23 16:17 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.05075 | U |
| * Arsenic, Dissolved | 2/23/23 13:36 | 2/23/23 16:17 | | 1.015 | 0.000634 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 2/23/23 13:36 | 2/23/23 16:17 | | 1.015 | 0.0158 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 2/23/23 13:36 | 2/28/23 10:52 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/23/23 13:36 | 2/23/23 16:17 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/23/23 13:36 | 2/23/23 16:17 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/23/23 13:36 | 2/23/23 16:17 | | 1.015 | 0.000270 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 2/23/23 13:36 | 2/23/23 16:17 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/23/23 13:36 | 2/23/23 16:17 | | 1.015 | 1.00 | mg/L | 0.000152 | 0.001015 | |
| * Molybdenum, Dissolved | 2/23/23 13:36 | 2/23/23 16:17 | | 1.015 | 0.00188 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 2/23/23 13:36 | 2/23/23 16:17 | | 1.015 | 5.45 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/23/23 13:36 | 2/23/23 16:17 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/23/23 13:36 | 2/23/23 16:17 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | | | | | | | | |
| <i>Analyst: ELH</i> | | | | | | | | | |
| * Mercury, Total by CVAA | 2/27/23 19:37 | 2/28/23 03:18 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | | | | | | | | |
| <i>Analyst: SC</i> | | | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/24/23 11:32 | 2/24/23 11:32 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | | | | | | | | |
| <i>Analyst: ALH</i> | | | | | | | | | |
| * Alkalinity to pH 4.5 | 3/6/23 13:15 | 3/6/23 14:40 | | 1 | 258 | mg CaCO ₃ /L | | | |
| Analytical Method: SM 2540C | | | | | | | | | |
| <i>Analyst: CNJ</i> | | | | | | | | | |
| * Solids, Dissolved | 2/23/23 13:45 | 2/24/23 13:45 | | 1 | 2220 | mg/L | | 147.1 | |
| Analytical Method: SM 4500CO₂ D | | | | | | | | | |
| <i>Analyst: ALH</i> | | | | | | | | | |
| * Bicarbonate Alkalinity, (calc.) | 3/6/23 13:15 | 3/6/23 14:40 | | 1 | 258 | mg CaCO ₃ /L | | 1 | A |
| * Carbonate Alkalinity, (calc.) | 3/6/23 13:15 | 3/6/23 14:40 | | 1 | Not Detected | mg CaCO ₃ /L | | 0.5 | A |
| Analytical Method: SM 5310 B | | | | | | | | | |
| <i>Analyst: SC</i> | | | | | | | | | |
| * Total Organic Carbon | 2/23/23 23:33 | 2/23/23 23:33 | | 1 | 3.40 | mg/L | 1.00 | 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: Gorgas Landfill - MW-20

Location Code: WMWGORLF
Collected: 2/21/23 14:00
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04085

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E <i>Analyst: JCC</i> | | | | | | | | | |
| * Chloride | 2/24/23 14:43 | 2/24/23 14:43 | | 5 | 58.9 | mg/L | 2.50 | 5 | |
| Analytical Method: SM4500F G 2017 <i>Analyst: JCC</i> | | | | | | | | | |
| * Fluoride | 2/27/23 13:00 | 2/27/23 13:00 | | 1 | 0.148 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 <i>Analyst: JCC</i> | | | | | | | | | |
| * Sulfate | 3/1/23 14:23 | 3/1/23 14:23 | | 50 | 1390 | mg/L | 30.0 | 100 | |
| Analytical Method: Field Measurements <i>Analyst: DKG</i> | | | | | | | | | |
| Conductivity | 2/21/23 13:56 | 2/21/23 13:56 | | | 2686.59 | uS/cm | | | FA |
| pH | 2/21/23 13:56 | 2/21/23 13:56 | | | 6.81 | SU | | | FA |
| Temperature | 2/21/23 13:56 | 2/21/23 13:56 | | | 19.48 | C | | | FA |
| Turbidity | 2/21/23 13:56 | 2/21/23 13:56 | | | 0.84 | NTU | | | FA |
| Sulfide | 2/21/23 13:56 | 2/21/23 13:56 | | | 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: WMWGORLF

Sample Date: 2/21/23 14:00

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-20

Laboratory ID Number: BD04085

| Sample | Analysis | Units | MB | | | | Standard | Limit | Rec | Limit | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|----------|--------|-----------------|-------|-------------|-------|
| | | | MB | Limit | Spike | MS | | | | | | |
| BD04089 | Aluminum, Dissolved | mg/L | -0.000276 | 0.0198 | 0.100 | 0.0922 | 0.0981 | 0.0965 | 0.0850 to 0.115 | 92.2 | 70.0 to 130 | 6.20 |
| BD04088 | Aluminum, Total | mg/L | 0.000405 | 0.0198 | 0.100 | 0.102 | 0.105 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.90 |
| BD04089 | Antimony, Dissolved | mg/L | 0.000346 | 0.00100 | 0.100 | 0.0972 | 0.101 | 0.0904 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 3.83 |
| BD04088 | Antimony, Total | mg/L | 0.000397 | 0.00100 | 0.100 | 0.108 | 0.117 | 0.0988 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 8.00 |
| BD04089 | Arsenic, Dissolved | mg/L | -0.0000191 | 0.000200 | 0.100 | 0.167 | 0.164 | 0.0960 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 1.81 |
| BD04088 | Arsenic, Total | mg/L | 0.0000097 | 0.000200 | 0.100 | 0.104 | 0.111 | 0.0999 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 6.51 |
| BD04089 | Barium, Dissolved | mg/L | -0.0000092 | 0.00100 | 0.100 | 0.105 | 0.109 | 0.0954 | 0.0850 to 0.115 | 94.5 | 70.0 to 130 | 3.74 |
| BD04088 | Barium, Total | mg/L | -0.0000132 | 0.00100 | 0.100 | 0.127 | 0.136 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 6.84 |
| BD04089 | Beryllium, Dissolved | mg/L | 0.0000161 | 0.000880 | 0.100 | 0.0944 | 0.0957 | 0.108 | 0.0850 to 0.115 | 94.4 | 70.0 to 130 | 1.37 |
| BD04088 | Beryllium, Total | mg/L | 0.0000113 | 0.000880 | 0.100 | 0.0983 | 0.101 | 0.0997 | 0.0850 to 0.115 | 98.3 | 70.0 to 130 | 2.71 |
| BD04089 | Boron, Dissolved | mg/L | -0.00311 | 0.0650 | 1.00 | 1.18 | 1.18 | 1.01 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.00 |
| BD04088 | Boron, Total | mg/L | -0.00347 | 0.0650 | 1.00 | 1.18 | 1.17 | 1.00 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.851 |
| BD04089 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0912 | 0.0945 | 0.0975 | 0.0850 to 0.115 | 91.2 | 70.0 to 130 | 3.55 |
| BD04088 | Cadmium, Total | mg/L | 0.0000042 | 0.000147 | 0.100 | 0.0992 | 0.106 | 0.104 | 0.0850 to 0.115 | 99.2 | 70.0 to 130 | 6.63 |
| BD04089 | Calcium, Dissolved | mg/L | -0.0143 | 0.152 | 5.00 | 312 | 312 | 5.07 | 4.25 to 5.75 | -260 | 70.0 to 130 | 0.00 |
| BD04088 | Calcium, Total | mg/L | -0.0229 | 0.152 | 5.00 | 312 | 300 | 4.80 | 4.25 to 5.75 | 300 | 70.0 to 130 | 3.92 |
| BD04088 | Chloride | mg/L | 0.0239 | 1.00 | 80.0 | 121 | 114 | 10.0 | 9.00 to 11.0 | 108 | 80.0 to 120 | 5.96 |
| BD04089 | Chromium, Dissolved | mg/L | -0.0000558 | 0.000440 | 0.100 | 0.0928 | 0.0973 | 0.0989 | 0.0850 to 0.115 | 92.8 | 70.0 to 130 | 4.73 |
| BD04088 | Chromium, Total | mg/L | 0.0000667 | 0.000440 | 0.100 | 0.100 | 0.104 | 0.106 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 3.92 |
| BD04089 | Cobalt, Dissolved | mg/L | -0.0000015 | 0.000147 | 0.100 | 0.139 | 0.146 | 0.0995 | 0.0850 to 0.115 | 95.2 | 70.0 to 130 | 4.91 |
| BD04088 | Cobalt, Total | mg/L | 0.0000023 | 0.000147 | 0.100 | 0.104 | 0.109 | 0.112 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 4.69 |
| BD04088 | Fluoride | mg/L | 0.0375 | 0.125 | 2.50 | 2.77 | 2.78 | 2.62 | 2.25 to 2.75 | 103 | 80.0 to 120 | 0.360 |
| BD04089 | Iron, Dissolved | mg/L | -0.000232 | 0.0176 | 0.2 | 163 | 167 | 0.202 | 0.170 to 0.230 | 2500 | 70.0 to 130 | 2.42 |
| BD04088 | Iron, Total | mg/L | 0.000927 | 0.0176 | 0.2 | 4.48 | 4.16 | 0.200 | 0.170 to 0.230 | 220 | 70.0 to 130 | 7.41 |

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

Batch QC Summary

Customer Account: WMWGORLF
Sample Date: 2/21/23 14:00
Customer ID:
Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-20

Laboratory ID Number: BD04085

| Sample | Analysis | Units | MB | | | | Standard | Limit | Rec | Limit | Prec | Limit | |
|---------|------------------------|-------|------------|----------|-------|---------|----------|---------|--------------------|-------|-------------|-------|------|
| | | | MB | Limit | Spike | MS | | | | | | | |
| BD04089 | Lead, Dissolved | mg/L | 0.0000017 | 0.000147 | 0.100 | 0.102 | 0.104 | 0.100 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.94 | 20.0 |
| BD04088 | Lead, Total | mg/L | 0.000011 | 0.000147 | 0.100 | 0.109 | 0.112 | 0.112 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 2.71 | 20.0 |
| BD04089 | Lithium, Dissolved | mg/L | 0.000766 | 0.0154 | 0.200 | 0.280 | 0.277 | 0.194 | 0.170 to 0.230 | 109 | 70.0 to 130 | 1.08 | 20.0 |
| BD04088 | Lithium, Total | mg/L | -0.000337 | 0.0154 | 0.200 | 0.483 | 0.481 | 0.198 | 0.170 to 0.230 | 102 | 70.0 to 130 | 0.415 | 20.0 |
| BD04089 | Magnesium, Dissolved | mg/L | -0.0245 | 0.0462 | 5.00 | 359 | 358 | 5.09 | 4.25 to 5.75 | -400 | 70.0 to 130 | 0.279 | 20.0 |
| BD04088 | Magnesium, Total | mg/L | -0.00494 | 0.0462 | 5.00 | 203 | 196 | 5.01 | 4.25 to 5.75 | 240 | 70.0 to 130 | 3.51 | 20.0 |
| BD04089 | Manganese, Dissolved | mg/L | 0.0000252 | 0.00033 | 0.100 | 21.2 | 20.9 | 0.0997 | 0.0850 to 0.115 | 500 | 70.0 to 130 | 1.43 | 20.0 |
| BD04088 | Manganese, Total | mg/L | -0.0000306 | 0.00033 | 0.100 | 0.570 | 0.596 | 0.107 | 0.0850 to 0.115 | 92.0 | 70.0 to 130 | 4.46 | 20.0 |
| BD04089 | Mercury, Total by CVAA | mg/L | -1.000E-05 | 0.000500 | 0.004 | 0.00367 | 0.00372 | 0.00348 | 0.00340 to 0.00460 | 91.8 | 70.0 to 130 | 1.35 | 20.0 |
| BD04089 | Molybdenum, Dissolved | mg/L | 0.0000079 | 0.0002 | 0.100 | 0.0939 | 0.0976 | 0.0972 | 0.0850 to 0.115 | 93.4 | 70.0 to 130 | 3.86 | 20.0 |
| BD04088 | Molybdenum, Total | mg/L | 0.000028 | 0.0002 | 0.100 | 0.105 | 0.112 | 0.103 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 6.45 | 20.0 |
| BD04089 | Potassium, Dissolved | mg/L | -0.00373 | 0.367 | 10.0 | 29.3 | 31.0 | 9.85 | 8.50 to 11.5 | 111 | 70.0 to 130 | 5.64 | 20.0 |
| BD04088 | Potassium, Total | mg/L | 0.0259 | 0.367 | 10.0 | 17.5 | 17.8 | 10.3 | 8.50 to 11.5 | 102 | 70.0 to 130 | 1.70 | 20.0 |
| BD04089 | Selenium, Dissolved | mg/L | -0.0000434 | 0.00100 | 0.100 | 0.111 | 0.107 | 0.101 | 0.0850 to 0.115 | 111 | 70.0 to 130 | 3.67 | 20.0 |
| BD04088 | Selenium, Total | mg/L | 0.0000768 | 0.00100 | 0.100 | 0.0994 | 0.106 | 0.103 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 6.43 | 20.0 |
| BD04089 | Silicon, Dissolved | mg/L | -0.000019 | 0.0440 | 1.00 | 15.2 | 15.2 | 1.01 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 0.00 | 20.0 |
| BD04088 | Silicon, Total | mg/L | 0.000121 | 0.0440 | 1.00 | 8.10 | 8.05 | 0.995 | 0.850 to 1.15 | 99.0 | 70.0 to 130 | 0.619 | 20.0 |
| BD04089 | Sodium, Dissolved | mg/L | -0.00164 | 0.0880 | 5.00 | 44.2 | 48.6 | 4.91 | 4.25 to 5.75 | -132 | 70.0 to 130 | 9.48 | 20.0 |
| BD04088 | Sodium, Total | mg/L | -0.000766 | 0.0880 | 5.00 | 162 | 157 | 4.88 | 4.25 to 5.75 | 200 | 70.0 to 130 | 3.13 | 20.0 |
| BD04088 | Sulfate | mg/L | 0.0257 | 2.0 | 1600 | 2980 | 3210 | 18.9 | 18.0 to 22.0 | 102 | 80.0 to 120 | 7.43 | 20.0 |
| BD04089 | Thallium, Dissolved | mg/L | -0.0000047 | 0.000147 | 0.100 | 0.101 | 0.105 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 3.88 | 20.0 |
| BD04088 | Thallium, Total | mg/L | 0.0000046 | 0.000147 | 0.100 | 0.109 | 0.113 | 0.110 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 3.60 | 20.0 |
| BD04088 | Total Organic Carbon | mg/L | 0.0453 | 1.00 | 10.0 | 14.8 | 15.2 | 27.1 | | 100 | 80.0 to 120 | 2.67 | 20.0 |

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

Batch QC Summary

Customer Account: WMWGORLF

Sample Date: 2/21/23 14:00

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-20

Laboratory ID Number: BD04085

| Sample | Analysis | Units | MB | MB | | | Sample Duplicate | Standard Standard | Standard | | | Rec Rec | Limit Limit | Prec Prec | Limit Limit |
|---------|---------------------------|-------------------------|-------|-------|-------|------|------------------|-------------------|--------------|------|-------------|---------|-------------|-----------|-------------|
| | | | | Limit | Spike | MS | | | Limit | Rec | Prec | | | | |
| BD04089 | Alkalinity to pH 4.5 | mg CaCO ₃ /L | | | | | 214 | 50.4 | 45.0 to 55.0 | | | 0.00 | 10.0 | | |
| BD04088 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.02 | 0.200 | 2.00 | 1.97 | 0.005 | 1.88 | 1.80 to 2.20 | 98.5 | 90.0 to 110 | 0.00 | 15.0 | | |
| BD04088 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 2260 | 50.0 | 40.0 to 60.0 | | | 0.889 | 10.0 | | |

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

Certificate Of Analysis

Description: Gorgas Landfill Equipment Blank-1

Location Code: WMWGORLFEB
Collected: 2/21/23 14:35
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04086

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|----------|-------|--------------|-----------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | | | | | | | |
| * Boron, Total | 2/24/23 13:19 | 2/28/23 11:39 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Total | 2/24/23 13:19 | 2/28/23 11:39 | | 1.015 | Not Detected | mg/L | 0.070035 | 0.406 | U |
| * Iron, Total | 2/24/23 13:19 | 2/28/23 11:39 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U |
| * Lithium, Total | 2/24/23 13:19 | 2/28/23 11:39 | | 1.015 | Not Detected | mg/L | 0.007105 | 0.01999956 | U |
| * Magnesium, Total | 2/24/23 13:19 | 2/28/23 11:39 | | 1.015 | Not Detected | mg/L | 0.021315 | 0.406 | U |
| * Silica, Total (calc.) | 2/24/23 13:19 | 2/28/23 11:39 | | 1 | Not Detected | mg/L | | | |
| * Silicon, Total | 2/24/23 13:19 | 2/28/23 11:39 | | 1.015 | Not Detected | mg/L | 0.02030 | 0.25375 | U |
| * Sodium, Total | 2/24/23 13:19 | 2/28/23 11:39 | | 1.015 | Not Detected | mg/L | 0.03045 | 0.406 | U |
| Analytical Method: EPA 200.8 | | | | | | | | | |
| * Antimony, Total | 2/24/23 13:19 | 2/27/23 18:02 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/24/23 13:19 | 2/27/23 18:02 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.05075 | U |
| * Arsenic, Total | 2/24/23 13:19 | 2/27/23 18:02 | | 1.015 | Not Detected | mg/L | 0.000081 | 0.000203 | U |
| * Barium, Total | 2/24/23 13:19 | 2/27/23 18:02 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Beryllium, Total | 2/24/23 13:19 | 2/27/23 18:02 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/24/23 13:19 | 2/27/23 18:02 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/24/23 13:19 | 2/27/23 18:02 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Total | 2/24/23 13:19 | 2/27/23 18:02 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 2/24/23 13:19 | 2/27/23 18:02 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/24/23 13:19 | 2/27/23 18:02 | | 1.015 | 0.000307 | mg/L | 0.000152 | 0.001015 | J |
| * Molybdenum, Total | 2/24/23 13:19 | 2/27/23 18:02 | | 1.015 | Not Detected | mg/L | 0.000102 | 0.000203 | U |
| * Potassium, Total | 2/24/23 13:19 | 2/27/23 18:02 | | 1.015 | Not Detected | mg/L | 0.169505 | 0.5075 | U |
| * Selenium, Total | 2/24/23 13:19 | 2/27/23 18:02 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/24/23 13:19 | 2/27/23 18:02 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | | | | | | | | |
| * Mercury, Total by CVAA | 2/27/23 19:37 | 2/28/23 03:22 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/24/23 11:37 | 2/24/23 11:37 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2540C | | | | | | | | | |
| * Solids, Dissolved | 2/23/23 13:45 | 2/24/23 13:45 | | 1 | Not Detected | mg/L | | 25 | U |

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

Comments:

Certificate Of Analysis

Description: Gorgas Landfill Equipment Blank-1

Location Code: WMWGORLFEB
Collected: 2/21/23 14:35
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04086

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------|----------|----|--------------|-------|------|-------|---|
| Analytical Method: SM 5310 B Analyst: SC | | | | | | | | | |
| * Total Organic Carbon | 2/23/23 23:48 | 2/23/23 23:48 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |
| Analytical Method: SM4500Cl E Analyst: JCC | | | | | | | | | |
| * Chloride | 2/24/23 14:37 | 2/24/23 14:37 | | 1 | Not Detected | mg/L | 0.50 | 1 | U |
| Analytical Method: SM4500F G 2017 Analyst: JCC | | | | | | | | | |
| * Fluoride | 2/27/23 13:02 | 2/27/23 13:02 | | 1 | Not Detected | mg/L | 0.06 | 0.125 | U |
| Analytical Method: SM4500SO4 E 2011 Analyst: JCC | | | | | | | | | |
| * Sulfate | 3/1/23 14:25 | 3/1/23 14:25 | | 1 | Not Detected | mg/L | 0.6 | 2 | U |

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

Comments:

Batch QC Summary

Customer Account: WMWGORLFEB

Sample Date: 2/21/23 14:35

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill Equipment Blank-1

Laboratory ID Number: BD04086

| Sample | Analysis | Units | MB | | | | Standard | Limit | Rec | Limit | Prec | Limit | |
|---------|------------------------|-------|------------|----------|-------|---------|----------|---------|--------------------|-------|-------------|-------|------|
| | | | MB | Limit | Spike | MS | | | | | | | |
| BD04088 | Aluminum, Total | mg/L | 0.000405 | 0.0198 | 0.100 | 0.102 | 0.105 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.90 | 20.0 |
| BD04088 | Antimony, Total | mg/L | 0.000397 | 0.00100 | 0.100 | 0.108 | 0.117 | 0.0988 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 8.00 | 20.0 |
| BD04088 | Arsenic, Total | mg/L | 0.0000097 | 0.000200 | 0.100 | 0.104 | 0.111 | 0.0999 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 6.51 | 20.0 |
| BD04088 | Barium, Total | mg/L | -0.0000132 | 0.00100 | 0.100 | 0.127 | 0.136 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 6.84 | 20.0 |
| BD04088 | Beryllium, Total | mg/L | 0.0000113 | 0.000880 | 0.100 | 0.0983 | 0.101 | 0.0997 | 0.0850 to 0.115 | 98.3 | 70.0 to 130 | 2.71 | 20.0 |
| BD04088 | Boron, Total | mg/L | -0.00347 | 0.0650 | 1.00 | 1.18 | 1.17 | 1.00 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.851 | 20.0 |
| BD04088 | Cadmium, Total | mg/L | 0.0000042 | 0.000147 | 0.100 | 0.0992 | 0.106 | 0.104 | 0.0850 to 0.115 | 99.2 | 70.0 to 130 | 6.63 | 20.0 |
| BD04088 | Calcium, Total | mg/L | -0.0229 | 0.152 | 5.00 | 312 | 300 | 4.80 | 4.25 to 5.75 | 300 | 70.0 to 130 | 3.92 | 20.0 |
| BD04088 | Chloride | mg/L | 0.0239 | 1.00 | 80.0 | 121 | 114 | 10.0 | 9.00 to 11.0 | 108 | 80.0 to 120 | 5.96 | 20.0 |
| BD04088 | Chromium, Total | mg/L | 0.0000667 | 0.000440 | 0.100 | 0.100 | 0.104 | 0.106 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 3.92 | 20.0 |
| BD04088 | Cobalt, Total | mg/L | 0.0000023 | 0.000147 | 0.100 | 0.104 | 0.109 | 0.112 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 4.69 | 20.0 |
| BD04088 | Fluoride | mg/L | 0.0375 | 0.125 | 2.50 | 2.77 | 2.78 | 2.62 | 2.25 to 2.75 | 103 | 80.0 to 120 | 0.360 | 20.0 |
| BD04088 | Iron, Total | mg/L | 0.000927 | 0.0176 | 0.2 | 4.48 | 4.16 | 0.200 | 0.170 to 0.230 | 220 | 70.0 to 130 | 7.41 | 20.0 |
| BD04088 | Lead, Total | mg/L | 0.000011 | 0.000147 | 0.100 | 0.109 | 0.112 | 0.112 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 2.71 | 20.0 |
| BD04088 | Lithium, Total | mg/L | -0.000337 | 0.0154 | 0.200 | 0.483 | 0.481 | 0.198 | 0.170 to 0.230 | 102 | 70.0 to 130 | 0.415 | 20.0 |
| BD04088 | Magnesium, Total | mg/L | -0.00494 | 0.0462 | 5.00 | 203 | 196 | 5.01 | 4.25 to 5.75 | 240 | 70.0 to 130 | 3.51 | 20.0 |
| BD04088 | Manganese, Total | mg/L | -0.0000306 | 0.00033 | 0.100 | 0.570 | 0.596 | 0.107 | 0.0850 to 0.115 | 92.0 | 70.0 to 130 | 4.46 | 20.0 |
| BD04089 | Mercury, Total by CVAA | mg/L | -1.000E-05 | 0.000500 | 0.004 | 0.00367 | 0.00372 | 0.00348 | 0.00340 to 0.00460 | 91.8 | 70.0 to 130 | 1.35 | 20.0 |
| BD04088 | Molybdenum, Total | mg/L | 0.000028 | 0.0002 | 0.100 | 0.105 | 0.112 | 0.103 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 6.45 | 20.0 |
| BD04088 | Potassium, Total | mg/L | 0.0259 | 0.367 | 10.0 | 17.5 | 17.8 | 10.3 | 8.50 to 11.5 | 102 | 70.0 to 130 | 1.70 | 20.0 |
| BD04088 | Selenium, Total | mg/L | 0.0000768 | 0.00100 | 0.100 | 0.0994 | 0.106 | 0.103 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 6.43 | 20.0 |
| BD04088 | Silicon, Total | mg/L | 0.000121 | 0.0440 | 1.00 | 8.10 | 8.05 | 0.995 | 0.850 to 1.15 | 99.0 | 70.0 to 130 | 0.619 | 20.0 |
| BD04088 | Sodium, Total | mg/L | -0.000766 | 0.0880 | 5.00 | 162 | 157 | 4.88 | 4.25 to 5.75 | 200 | 70.0 to 130 | 3.13 | 20.0 |
| BD04088 | Sulfate | mg/L | 0.0257 | 2.0 | 1600 | 2980 | 3210 | 18.9 | 18.0 to 22.0 | 102 | 80.0 to 120 | 7.43 | 20.0 |

Comments:

Batch QC Summary

Customer Account: WMWGOLFEB

Sample Date: 2/21/23 14:35

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill Equipment Blank-1

Laboratory ID Number: BD04086

| Sample | Analysis | Units | MB | | | | Standard | Limit | Rec | Limit | Prec | Limit | |
|---------|----------------------|-------|-----------|----------|-------|-------|----------|-------|-----------------|-------|-------------|-------|------|
| | | | MB | Limit | Spike | MS | | | | | | | |
| BD04088 | Thallium, Total | mg/L | 0.0000046 | 0.000147 | 0.100 | 0.109 | 0.113 | 0.110 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 3.60 | 20.0 |
| BD04088 | Total Organic Carbon | mg/L | 0.0453 | 1.00 | 10.0 | 14.8 | 15.2 | 27.1 | | 100 | 80.0 to 120 | 2.67 | 20.0 |

Comments:

Batch QC Summary

Customer Account: WMWGORLFEB

Sample Date: 2/21/23 14:35

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill Equipment Blank-1

Laboratory ID Number: BD04086

| Sample | Analysis | Units | MB | | | Sample Duplicate | Standard | | Rec Limit | Prec Limit | Rec | Prec | |
|---------|---------------------------|-----------|-------|-------|-------|------------------|----------|-------|--------------|------------|-------------|-------|------|
| | | | MB | Limit | Spike | | Standard | Limit | | | | | |
| BD04088 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.02 | 0.200 | 2.00 | 1.97 | 0.005 | 1.88 | 1.80 to 2.20 | 98.5 | 90.0 to 110 | 0.00 | 15.0 |
| BD04088 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 2260 | 50.0 | 40.0 to 60.0 | | | 0.889 | 10.0 |

Comments:

Certificate Of Analysis

Description: Gorgas Landfill - MW-11

Location Code: WMWGORLF
Collected: 2/21/23 15:25
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04087

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|----------|-------|--------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | | | | | | | |
| * Boron, Total | 2/24/23 13:19 | 2/28/23 11:43 | | 1.015 | 0.104 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Total | 2/24/23 13:19 | 2/28/23 14:52 | | 10.15 | 314 | mg/L | 0.70035 | 4.06 | |
| * Iron, Total | 2/24/23 13:19 | 2/28/23 11:43 | | 1.015 | 3.94 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 2/24/23 13:19 | 2/28/23 11:43 | | 1.015 | 0.204 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/24/23 13:19 | 2/28/23 14:52 | | 10.15 | 165 | mg/L | 0.21315 | 4.06 | |
| * Silica, Total (calc.) | 2/24/23 13:19 | 2/28/23 11:43 | | 1 | 21.4 | mg/L | | | |
| * Silicon, Total | 2/24/23 13:19 | 2/28/23 11:43 | | 1.015 | 9.99 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/24/23 13:19 | 2/28/23 14:52 | | 10.15 | 139 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | | | | | | | | |
| * Boron, Dissolved | 2/23/23 13:36 | 2/27/23 12:19 | | 1.015 | 0.101 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 2/23/23 13:36 | 2/27/23 14:07 | | 10.15 | 327 | mg/L | 0.70035 | 4.06 | |
| * Iron, Dissolved | 2/23/23 13:36 | 2/27/23 12:19 | | 1.015 | 3.86 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 2/23/23 13:36 | 2/27/23 12:19 | | 1.015 | 0.206 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/23/23 13:36 | 2/27/23 14:07 | | 10.15 | 178 | mg/L | 0.21315 | 4.06 | |
| * Silica, Dissolved (calc.) | 2/23/23 13:36 | 2/27/23 12:19 | | 1 | 21.2 | mg/L | | | |
| * Silicon, Dissolved | 2/23/23 13:36 | 2/27/23 12:19 | | 1.015 | 9.91 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/23/23 13:36 | 2/27/23 14:07 | | 10.15 | 147 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | | | | | | | | |
| * Antimony, Total | 2/24/23 13:19 | 2/27/23 18:06 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/24/23 13:19 | 2/27/23 18:06 | | 1.015 | 0.00821 | mg/L | 0.006090 | 0.05075 | J |
| * Arsenic, Total | 2/24/23 13:19 | 2/27/23 18:06 | | 1.015 | 0.000859 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 2/24/23 13:19 | 2/27/23 18:06 | | 1.015 | 0.0167 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 2/24/23 13:19 | 2/27/23 18:06 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/24/23 13:19 | 2/27/23 18:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/24/23 13:19 | 2/27/23 18:06 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Total | 2/24/23 13:19 | 2/27/23 18:06 | | 1.015 | 0.000889 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 2/24/23 13:19 | 2/27/23 18:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/24/23 13:19 | 2/27/23 19:45 | | 5.075 | 1.46 | mg/L | 0.000761 | 0.005075 | |
| * Molybdenum, Total | 2/24/23 13:19 | 2/27/23 18:06 | | 1.015 | 0.00138 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 2/24/23 13:19 | 2/27/23 18:06 | | 1.015 | 6.25 | 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: Gorgas Landfill - MW-11

Location Code: WMWGORLF
Collected: 2/21/23 15:25
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04087

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|---|---------------|---------------|----------|-------|--------------|-------------------------|----------|----------|---|
| * Selenium, Total | 2/24/23 13:19 | 2/27/23 18:06 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/24/23 13:19 | 2/27/23 18:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | | | | | | | | |
| <i>Analyst: DLJ</i> | | | | | | | | | |
| * Antimony, Dissolved | 2/23/23 13:36 | 2/23/23 16:21 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/23/23 13:36 | 2/23/23 16:21 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.05075 | U |
| * Arsenic, Dissolved | 2/23/23 13:36 | 2/23/23 16:21 | | 1.015 | 0.000801 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 2/23/23 13:36 | 2/23/23 16:21 | | 1.015 | 0.0144 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 2/23/23 13:36 | 2/28/23 10:55 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/23/23 13:36 | 2/23/23 16:21 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/23/23 13:36 | 2/23/23 16:21 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/23/23 13:36 | 2/23/23 16:21 | | 1.015 | 0.000846 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 2/23/23 13:36 | 2/23/23 16:21 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/23/23 13:36 | 2/28/23 12:21 | | 5.075 | 1.52 | mg/L | 0.000761 | 0.005075 | |
| * Molybdenum, Dissolved | 2/23/23 13:36 | 2/23/23 16:21 | | 1.015 | 0.00164 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 2/23/23 13:36 | 2/23/23 16:21 | | 1.015 | 5.70 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/23/23 13:36 | 2/23/23 16:21 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/23/23 13:36 | 2/23/23 16:21 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | | | | | | | | |
| <i>Analyst: ELH</i> | | | | | | | | | |
| * Mercury, Total by CVAA | 2/27/23 19:37 | 2/28/23 03:26 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | | | | | | | | |
| <i>Analyst: SC</i> | | | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/24/23 11:39 | 2/24/23 11:39 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | | | | | | | | |
| <i>Analyst: ALH</i> | | | | | | | | | |
| * Alkalinity to pH 4.5 | 3/6/23 13:15 | 3/6/23 14:40 | | 1 | 270 | mg CaCO ₃ /L | | | |
| Analytical Method: SM 2540C | | | | | | | | | |
| <i>Analyst: CNJ</i> | | | | | | | | | |
| * Solids, Dissolved | 2/23/23 13:45 | 2/24/23 13:45 | | 1 | 2160 | mg/L | | 147.1 | |
| Analytical Method: SM 4500CO₂ D | | | | | | | | | |
| <i>Analyst: ALH</i> | | | | | | | | | |
| * Bicarbonate Alkalinity, (calc.) | 3/6/23 13:15 | 3/6/23 14:40 | | 1 | 269 | mg CaCO ₃ /L | | 1 | A |
| * Carbonate Alkalinity, (calc.) | 3/6/23 13:15 | 3/6/23 14:40 | | 1 | 0.517 | mg CaCO ₃ /L | | 0.5 | A |
| Analytical Method: SM 5310 B | | | | | | | | | |
| <i>Analyst: SC</i> | | | | | | | | | |
| * Total Organic Carbon | 2/24/23 00:03 | 2/24/23 00:03 | | 1 | 4.96 | mg/L | 1.00 | 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: Gorgas Landfill - MW-11

Location Code: WMWGORLF
Collected: 2/21/23 15:25
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04087

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E Analyst: JCC | | | | | | | | | |
| * Chloride | 2/24/23 14:44 | 2/24/23 14:44 | | 4 | 50.4 | mg/L | 2.00 | 4 | |
| Analytical Method: SM4500F G 2017 Analyst: JCC | | | | | | | | | |
| * Fluoride | 2/27/23 13:03 | 2/27/23 13:03 | | 1 | 0.129 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 Analyst: JCC | | | | | | | | | |
| * Sulfate | 3/1/23 14:26 | 3/1/23 14:26 | | 50 | 1290 | mg/L | 30.0 | 100 | |
| Analytical Method: Field Measurements Analyst: DKG | | | | | | | | | |
| Conductivity | 2/21/23 15:22 | 2/21/23 15:22 | | | 2597.79 | uS/cm | | | FA |
| pH | 2/21/23 15:22 | 2/21/23 15:22 | | | 6.77 | SU | | | FA |
| Temperature | 2/21/23 15:22 | 2/21/23 15:22 | | | 20.11 | C | | | FA |
| Turbidity | 2/21/23 15:22 | 2/21/23 15:22 | | | 0.8 | NTU | | | FA |
| Sulfide | 2/21/23 15:22 | 2/21/23 15:22 | | | 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: WMWGORLF

Sample Date: 2/21/23 15:25

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-11

Laboratory ID Number: BD04087

| Sample | Analysis | Units | MB | | | | Standard | Limit | Rec | Limit | Prec | Limit | |
|---------|----------------------|-------|------------|----------|-------|--------|----------|--------|-----------------|-------|-------------|-------|------|
| | | | MB | Limit | Spike | MS | | | | | | | |
| BD04089 | Aluminum, Dissolved | mg/L | -0.000276 | 0.0198 | 0.100 | 0.0922 | 0.0981 | 0.0965 | 0.0850 to 0.115 | 92.2 | 70.0 to 130 | 6.20 | 20.0 |
| BD04088 | Aluminum, Total | mg/L | 0.000405 | 0.0198 | 0.100 | 0.102 | 0.105 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.90 | 20.0 |
| BD04089 | Antimony, Dissolved | mg/L | 0.000346 | 0.00100 | 0.100 | 0.0972 | 0.101 | 0.0904 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 3.83 | 20.0 |
| BD04088 | Antimony, Total | mg/L | 0.000397 | 0.00100 | 0.100 | 0.108 | 0.117 | 0.0988 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 8.00 | 20.0 |
| BD04089 | Arsenic, Dissolved | mg/L | -0.0000191 | 0.000200 | 0.100 | 0.167 | 0.164 | 0.0960 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 1.81 | 20.0 |
| BD04088 | Arsenic, Total | mg/L | 0.0000097 | 0.000200 | 0.100 | 0.104 | 0.111 | 0.0999 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 6.51 | 20.0 |
| BD04089 | Barium, Dissolved | mg/L | -0.0000092 | 0.00100 | 0.100 | 0.105 | 0.109 | 0.0954 | 0.0850 to 0.115 | 94.5 | 70.0 to 130 | 3.74 | 20.0 |
| BD04088 | Barium, Total | mg/L | -0.0000132 | 0.00100 | 0.100 | 0.127 | 0.136 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 6.84 | 20.0 |
| BD04089 | Beryllium, Dissolved | mg/L | 0.0000161 | 0.000880 | 0.100 | 0.0944 | 0.0957 | 0.108 | 0.0850 to 0.115 | 94.4 | 70.0 to 130 | 1.37 | 20.0 |
| BD04088 | Beryllium, Total | mg/L | 0.0000113 | 0.000880 | 0.100 | 0.0983 | 0.101 | 0.0997 | 0.0850 to 0.115 | 98.3 | 70.0 to 130 | 2.71 | 20.0 |
| BD04089 | Boron, Dissolved | mg/L | -0.00311 | 0.0650 | 1.00 | 1.18 | 1.18 | 1.01 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BD04088 | Boron, Total | mg/L | -0.00347 | 0.0650 | 1.00 | 1.18 | 1.17 | 1.00 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.851 | 20.0 |
| BD04089 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0912 | 0.0945 | 0.0975 | 0.0850 to 0.115 | 91.2 | 70.0 to 130 | 3.55 | 20.0 |
| BD04088 | Cadmium, Total | mg/L | 0.0000042 | 0.000147 | 0.100 | 0.0992 | 0.106 | 0.104 | 0.0850 to 0.115 | 99.2 | 70.0 to 130 | 6.63 | 20.0 |
| BD04089 | Calcium, Dissolved | mg/L | -0.0143 | 0.152 | 5.00 | 312 | 312 | 5.07 | 4.25 to 5.75 | -260 | 70.0 to 130 | 0.00 | 20.0 |
| BD04088 | Calcium, Total | mg/L | -0.0229 | 0.152 | 5.00 | 312 | 300 | 4.80 | 4.25 to 5.75 | 300 | 70.0 to 130 | 3.92 | 20.0 |
| BD04088 | Chloride | mg/L | 0.0239 | 1.00 | 80.0 | 121 | 114 | 10.0 | 9.00 to 11.0 | 108 | 80.0 to 120 | 5.96 | 20.0 |
| BD04089 | Chromium, Dissolved | mg/L | -0.0000558 | 0.000440 | 0.100 | 0.0928 | 0.0973 | 0.0989 | 0.0850 to 0.115 | 92.8 | 70.0 to 130 | 4.73 | 20.0 |
| BD04088 | Chromium, Total | mg/L | 0.0000667 | 0.000440 | 0.100 | 0.100 | 0.104 | 0.106 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 3.92 | 20.0 |
| BD04089 | Cobalt, Dissolved | mg/L | -0.0000015 | 0.000147 | 0.100 | 0.139 | 0.146 | 0.0995 | 0.0850 to 0.115 | 95.2 | 70.0 to 130 | 4.91 | 20.0 |
| BD04088 | Cobalt, Total | mg/L | 0.0000023 | 0.000147 | 0.100 | 0.104 | 0.109 | 0.112 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 4.69 | 20.0 |
| BD04088 | Fluoride | mg/L | 0.0375 | 0.125 | 2.50 | 2.77 | 2.78 | 2.62 | 2.25 to 2.75 | 103 | 80.0 to 120 | 0.360 | 20.0 |
| BD04089 | Iron, Dissolved | mg/L | -0.000232 | 0.0176 | 0.2 | 163 | 167 | 0.202 | 0.170 to 0.230 | 2500 | 70.0 to 130 | 2.42 | 20.0 |
| BD04088 | Iron, Total | mg/L | 0.000927 | 0.0176 | 0.2 | 4.48 | 4.16 | 0.200 | 0.170 to 0.230 | 220 | 70.0 to 130 | 7.41 | 20.0 |

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

Batch QC Summary

Customer Account: WMWGORLF

Sample Date: 2/21/23 15:25

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-11

Laboratory ID Number: BD04087

| Sample | Analysis | Units | MB | | | | Standard | Limit | Rec | Limit | Prec | Limit | |
|---------|------------------------|-------|------------|----------|-------|---------|----------|---------|--------------------|-------|-------------|-------|------|
| | | | MB | Limit | Spike | MS | | | | | | | |
| BD04089 | Lead, Dissolved | mg/L | 0.0000017 | 0.000147 | 0.100 | 0.102 | 0.104 | 0.100 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.94 | 20.0 |
| BD04088 | Lead, Total | mg/L | 0.000011 | 0.000147 | 0.100 | 0.109 | 0.112 | 0.112 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 2.71 | 20.0 |
| BD04089 | Lithium, Dissolved | mg/L | 0.000766 | 0.0154 | 0.200 | 0.280 | 0.277 | 0.194 | 0.170 to 0.230 | 109 | 70.0 to 130 | 1.08 | 20.0 |
| BD04088 | Lithium, Total | mg/L | -0.000337 | 0.0154 | 0.200 | 0.483 | 0.481 | 0.198 | 0.170 to 0.230 | 102 | 70.0 to 130 | 0.415 | 20.0 |
| BD04089 | Magnesium, Dissolved | mg/L | -0.0245 | 0.0462 | 5.00 | 359 | 358 | 5.09 | 4.25 to 5.75 | -400 | 70.0 to 130 | 0.279 | 20.0 |
| BD04088 | Magnesium, Total | mg/L | -0.00494 | 0.0462 | 5.00 | 203 | 196 | 5.01 | 4.25 to 5.75 | 240 | 70.0 to 130 | 3.51 | 20.0 |
| BD04089 | Manganese, Dissolved | mg/L | 0.0000252 | 0.00033 | 0.100 | 21.2 | 20.9 | 0.0997 | 0.0850 to 0.115 | 500 | 70.0 to 130 | 1.43 | 20.0 |
| BD04088 | Manganese, Total | mg/L | -0.0000306 | 0.00033 | 0.100 | 0.570 | 0.596 | 0.107 | 0.0850 to 0.115 | 92.0 | 70.0 to 130 | 4.46 | 20.0 |
| BD04089 | Mercury, Total by CVAA | mg/L | -1.000E-05 | 0.000500 | 0.004 | 0.00367 | 0.00372 | 0.00348 | 0.00340 to 0.00460 | 91.8 | 70.0 to 130 | 1.35 | 20.0 |
| BD04089 | Molybdenum, Dissolved | mg/L | 0.0000079 | 0.0002 | 0.100 | 0.0939 | 0.0976 | 0.0972 | 0.0850 to 0.115 | 93.4 | 70.0 to 130 | 3.86 | 20.0 |
| BD04088 | Molybdenum, Total | mg/L | 0.000028 | 0.0002 | 0.100 | 0.105 | 0.112 | 0.103 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 6.45 | 20.0 |
| BD04089 | Potassium, Dissolved | mg/L | -0.00373 | 0.367 | 10.0 | 29.3 | 31.0 | 9.85 | 8.50 to 11.5 | 111 | 70.0 to 130 | 5.64 | 20.0 |
| BD04088 | Potassium, Total | mg/L | 0.0259 | 0.367 | 10.0 | 17.5 | 17.8 | 10.3 | 8.50 to 11.5 | 102 | 70.0 to 130 | 1.70 | 20.0 |
| BD04089 | Selenium, Dissolved | mg/L | -0.0000434 | 0.00100 | 0.100 | 0.111 | 0.107 | 0.101 | 0.0850 to 0.115 | 111 | 70.0 to 130 | 3.67 | 20.0 |
| BD04088 | Selenium, Total | mg/L | 0.0000768 | 0.00100 | 0.100 | 0.0994 | 0.106 | 0.103 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 6.43 | 20.0 |
| BD04089 | Silicon, Dissolved | mg/L | -0.000019 | 0.0440 | 1.00 | 15.2 | 15.2 | 1.01 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 0.00 | 20.0 |
| BD04088 | Silicon, Total | mg/L | 0.000121 | 0.0440 | 1.00 | 8.10 | 8.05 | 0.995 | 0.850 to 1.15 | 99.0 | 70.0 to 130 | 0.619 | 20.0 |
| BD04089 | Sodium, Dissolved | mg/L | -0.00164 | 0.0880 | 5.00 | 44.2 | 48.6 | 4.91 | 4.25 to 5.75 | -132 | 70.0 to 130 | 9.48 | 20.0 |
| BD04088 | Sodium, Total | mg/L | -0.000766 | 0.0880 | 5.00 | 162 | 157 | 4.88 | 4.25 to 5.75 | 200 | 70.0 to 130 | 3.13 | 20.0 |
| BD04088 | Sulfate | mg/L | 0.0257 | 2.0 | 1600 | 2980 | 3210 | 18.9 | 18.0 to 22.0 | 102 | 80.0 to 120 | 7.43 | 20.0 |
| BD04089 | Thallium, Dissolved | mg/L | -0.0000047 | 0.000147 | 0.100 | 0.101 | 0.105 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 3.88 | 20.0 |
| BD04088 | Thallium, Total | mg/L | 0.0000046 | 0.000147 | 0.100 | 0.109 | 0.113 | 0.110 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 3.60 | 20.0 |
| BD04088 | Total Organic Carbon | mg/L | 0.0453 | 1.00 | 10.0 | 14.8 | 15.2 | 27.1 | | 100 | 80.0 to 120 | 2.67 | 20.0 |

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

Batch QC Summary

Customer Account: WMWGORLF

Sample Date: 2/21/23 15:25

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-11

Laboratory ID Number: BD04087

| Sample | Analysis | Units | MB | MB | | | Sample Duplicate | Standard Standard | Standard | | | Rec Rec | Limit Limit | Prec Prec | Limit Limit |
|---------|---------------------------|-------------------------|-------|-------|-------|------|------------------|-------------------|--------------|------|-------------|---------|-------------|-----------|-------------|
| | | | | Limit | Spike | MS | | | Limit | Rec | Prec | | | | |
| BD04089 | Alkalinity to pH 4.5 | mg CaCO ₃ /L | | | | | 214 | 50.4 | 45.0 to 55.0 | | | 0.00 | 10.0 | | |
| BD04088 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.02 | 0.200 | 2.00 | 1.97 | 0.005 | 1.88 | 1.80 to 2.20 | 98.5 | 90.0 to 110 | 0.00 | 15.0 | | |
| BD04088 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 2260 | 50.0 | 40.0 to 60.0 | | | 0.889 | 10.0 | | |

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

Certificate Of Analysis

Description: Gorgas Landfill - MW-12V

Location Code: WMWGORLF
Collected: 2/22/23 12:35
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04088

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|----------|-------|--------------|-------|----------|------------|----|
| Analytical Method: EPA 200.7 | | | | | | | | | |
| * Boron, Total | 2/24/23 13:19 | 2/28/23 11:46 | | 1.015 | 0.152 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Total | 2/24/23 13:19 | 2/28/23 14:56 | | 10.15 | 297 | mg/L | 0.70035 | 4.06 | RA |
| * Iron, Total | 2/24/23 13:19 | 2/28/23 14:56 | | 10.15 | 4.04 | mg/L | 0.08120 | 0.406 | RA |
| * Lithium, Total | 2/24/23 13:19 | 2/28/23 11:46 | | 1.015 | 0.279 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/24/23 13:19 | 2/28/23 14:56 | | 10.15 | 191 | mg/L | 0.21315 | 4.06 | RA |
| * Silica, Total (calc.) | 2/24/23 13:19 | 2/28/23 11:46 | | 1 | 15.2 | mg/L | | | |
| * Silicon, Total | 2/24/23 13:19 | 2/28/23 11:46 | | 1.015 | 7.11 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/24/23 13:19 | 2/28/23 14:56 | | 10.15 | 152 | mg/L | 0.3045 | 4.06 | RA |
| Analytical Method: EPA 200.7 | | | | | | | | | |
| * Boron, Dissolved | 2/23/23 13:36 | 2/27/23 12:22 | | 1.015 | 0.151 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Dissolved | 2/23/23 13:36 | 2/27/23 14:10 | | 10.15 | 277 | mg/L | 0.70035 | 4.06 | |
| * Iron, Dissolved | 2/23/23 13:36 | 2/27/23 12:22 | | 1.015 | 3.54 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 2/23/23 13:36 | 2/27/23 12:22 | | 1.015 | 0.287 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/23/23 13:36 | 2/27/23 14:10 | | 10.15 | 187 | mg/L | 0.21315 | 4.06 | |
| * Silica, Dissolved (calc.) | 2/23/23 13:36 | 2/27/23 12:22 | | 1 | 15.1 | mg/L | | | |
| * Silicon, Dissolved | 2/23/23 13:36 | 2/27/23 12:22 | | 1.015 | 7.05 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/23/23 13:36 | 2/27/23 14:10 | | 10.15 | 146 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | | | | | | | | |
| * Antimony, Total | 2/24/23 13:19 | 2/27/23 18:09 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/24/23 13:19 | 2/27/23 18:09 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.05075 | U |
| * Arsenic, Total | 2/24/23 13:19 | 2/27/23 18:09 | | 1.015 | 0.00455 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 2/24/23 13:19 | 2/27/23 18:09 | | 1.015 | 0.0198 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 2/24/23 13:19 | 2/27/23 18:09 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/24/23 13:19 | 2/27/23 18:09 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/24/23 13:19 | 2/27/23 18:09 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Total | 2/24/23 13:19 | 2/27/23 18:09 | | 1.015 | 0.000114 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Total | 2/24/23 13:19 | 2/27/23 18:09 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/24/23 13:19 | 2/27/23 18:09 | | 1.015 | 0.478 | mg/L | 0.000152 | 0.001015 | |
| * Molybdenum, Total | 2/24/23 13:19 | 2/27/23 18:09 | | 1.015 | 0.00304 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 2/24/23 13:19 | 2/27/23 18:09 | | 1.015 | 7.31 | 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: Gorgas Landfill - MW-12V

Location Code: WMWGORLF
Collected: 2/22/23 12:35
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04088

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|---|---------------|---------------|----------|-------|--------------|-------------------------|----------|----------|---|
| * Selenium, Total | 2/24/23 13:19 | 2/27/23 18:09 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/24/23 13:19 | 2/27/23 18:09 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | | | | | | | | |
| <i>Analyst: DLJ</i> | | | | | | | | | |
| * Antimony, Dissolved | 2/23/23 13:36 | 2/23/23 16:25 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/23/23 13:36 | 2/23/23 16:25 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.05075 | U |
| * Arsenic, Dissolved | 2/23/23 13:36 | 2/23/23 16:25 | | 1.015 | 0.00423 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 2/23/23 13:36 | 2/23/23 16:25 | | 1.015 | 0.0174 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 2/23/23 13:36 | 2/28/23 10:59 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/23/23 13:36 | 2/23/23 16:25 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/23/23 13:36 | 2/23/23 16:25 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/23/23 13:36 | 2/23/23 16:25 | | 1.015 | 0.0000949 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Dissolved | 2/23/23 13:36 | 2/23/23 16:25 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/23/23 13:36 | 2/23/23 16:25 | | 1.015 | 0.425 | mg/L | 0.000152 | 0.001015 | |
| * Molybdenum, Dissolved | 2/23/23 13:36 | 2/23/23 16:25 | | 1.015 | 0.00288 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 2/23/23 13:36 | 2/23/23 16:25 | | 1.015 | 6.49 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/23/23 13:36 | 2/23/23 16:25 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/23/23 13:36 | 2/23/23 16:25 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | | | | | | | | |
| <i>Analyst: ELH</i> | | | | | | | | | |
| * Mercury, Total by CVAA | 2/27/23 19:37 | 2/28/23 03:30 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | | | | | | | | |
| <i>Analyst: SC</i> | | | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/24/23 11:40 | 2/24/23 11:40 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | | | | | | | | |
| <i>Analyst: ALH</i> | | | | | | | | | |
| * Alkalinity to pH 4.5 | 3/6/23 13:15 | 3/6/23 14:40 | | 1 | 293 | mg CaCO ₃ /L | | | |
| Analytical Method: SM 2540C | | | | | | | | | |
| <i>Analyst: CNJ</i> | | | | | | | | | |
| * Solids, Dissolved | 2/23/23 13:45 | 2/24/23 13:45 | | 1 | 2240 | mg/L | | 147.1 | |
| Analytical Method: SM 4500CO₂ D | | | | | | | | | |
| <i>Analyst: ALH</i> | | | | | | | | | |
| * Bicarbonate Alkalinity, (calc.) | 3/6/23 13:15 | 3/6/23 14:40 | | 1 | 292 | mg CaCO ₃ /L | | 1 | A |
| * Carbonate Alkalinity, (calc.) | 3/6/23 13:15 | 3/6/23 14:40 | | 1 | 0.615 | mg CaCO ₃ /L | | 0.5 | A |
| Analytical Method: SM 5310 B | | | | | | | | | |
| <i>Analyst: SC</i> | | | | | | | | | |
| * Total Organic Carbon | 2/24/23 00:19 | 2/24/23 00:19 | | 1 | 4.80 | mg/L | 1.00 | 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: Gorgas Landfill - MW-12V

Location Code: WMWGORLF
Collected: 2/22/23 12:35
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04088

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E <i>Analyst: JCC</i> | | | | | | | | | |
| * Chloride | 2/24/23 14:55 | 2/24/23 14:55 | | 8 | 34.3 | mg/L | 4.00 | 8 | |
| Analytical Method: SM4500F G 2017 <i>Analyst: JCC</i> | | | | | | | | | |
| * Fluoride | 2/27/23 13:04 | 2/27/23 13:04 | | 1 | 0.199 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 <i>Analyst: JCC</i> | | | | | | | | | |
| * Sulfate | 3/1/23 14:27 | 3/1/23 14:27 | | 80 | 1340 | mg/L | 48.0 | 160 | |
| Analytical Method: Field Measurements <i>Analyst: DKG</i> | | | | | | | | | |
| Conductivity | 2/22/23 12:32 | 2/22/23 12:32 | | | 2671.70 | uS/cm | | | FA |
| pH | 2/22/23 12:32 | 2/22/23 12:32 | | | 6.95 | SU | | | FA |
| Temperature | 2/22/23 12:32 | 2/22/23 12:32 | | | 22.78 | C | | | FA |
| Turbidity | 2/22/23 12:32 | 2/22/23 12:32 | | | 1.96 | NTU | | | FA |
| Sulfide | 2/22/23 12:32 | 2/22/23 12:32 | | | 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: WMWGORLF
Sample Date: 2/22/23 12:35
Customer ID:
Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-12V

Laboratory ID Number: BD04088

| Sample | Analysis | Units | MB | | | | Standard | Limit | Rec | Limit | Prec | Limit | |
|---------|----------------------|-------|------------|----------|-------|--------|----------|--------|-----------------|-------|-------------|-------|------|
| | | | MB | Limit | Spike | MS | | | | | | | |
| BD04089 | Aluminum, Dissolved | mg/L | -0.000276 | 0.0198 | 0.100 | 0.0922 | 0.0981 | 0.0965 | 0.0850 to 0.115 | 92.2 | 70.0 to 130 | 6.20 | 20.0 |
| BD04088 | Aluminum, Total | mg/L | 0.000405 | 0.0198 | 0.100 | 0.102 | 0.105 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.90 | 20.0 |
| BD04089 | Antimony, Dissolved | mg/L | 0.000346 | 0.00100 | 0.100 | 0.0972 | 0.101 | 0.0904 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 3.83 | 20.0 |
| BD04088 | Antimony, Total | mg/L | 0.000397 | 0.00100 | 0.100 | 0.108 | 0.117 | 0.0988 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 8.00 | 20.0 |
| BD04089 | Arsenic, Dissolved | mg/L | -0.0000191 | 0.000200 | 0.100 | 0.167 | 0.164 | 0.0960 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 1.81 | 20.0 |
| BD04088 | Arsenic, Total | mg/L | 0.0000097 | 0.000200 | 0.100 | 0.104 | 0.111 | 0.0999 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 6.51 | 20.0 |
| BD04089 | Barium, Dissolved | mg/L | -0.0000092 | 0.00100 | 0.100 | 0.105 | 0.109 | 0.0954 | 0.0850 to 0.115 | 94.5 | 70.0 to 130 | 3.74 | 20.0 |
| BD04088 | Barium, Total | mg/L | -0.0000132 | 0.00100 | 0.100 | 0.127 | 0.136 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 6.84 | 20.0 |
| BD04089 | Beryllium, Dissolved | mg/L | 0.0000161 | 0.000880 | 0.100 | 0.0944 | 0.0957 | 0.108 | 0.0850 to 0.115 | 94.4 | 70.0 to 130 | 1.37 | 20.0 |
| BD04088 | Beryllium, Total | mg/L | 0.0000113 | 0.000880 | 0.100 | 0.0983 | 0.101 | 0.0997 | 0.0850 to 0.115 | 98.3 | 70.0 to 130 | 2.71 | 20.0 |
| BD04089 | Boron, Dissolved | mg/L | -0.00311 | 0.0650 | 1.00 | 1.18 | 1.18 | 1.01 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BD04088 | Boron, Total | mg/L | -0.00347 | 0.0650 | 1.00 | 1.18 | 1.17 | 1.00 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.851 | 20.0 |
| BD04089 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0912 | 0.0945 | 0.0975 | 0.0850 to 0.115 | 91.2 | 70.0 to 130 | 3.55 | 20.0 |
| BD04088 | Cadmium, Total | mg/L | 0.0000042 | 0.000147 | 0.100 | 0.0992 | 0.106 | 0.104 | 0.0850 to 0.115 | 99.2 | 70.0 to 130 | 6.63 | 20.0 |
| BD04089 | Calcium, Dissolved | mg/L | -0.0143 | 0.152 | 5.00 | 312 | 312 | 5.07 | 4.25 to 5.75 | -260 | 70.0 to 130 | 0.00 | 20.0 |
| BD04088 | Calcium, Total | mg/L | -0.0229 | 0.152 | 5.00 | 312 | 300 | 4.80 | 4.25 to 5.75 | 300 | 70.0 to 130 | 3.92 | 20.0 |
| BD04088 | Chloride | mg/L | 0.0239 | 1.00 | 80.0 | 121 | 114 | 10.0 | 9.00 to 11.0 | 108 | 80.0 to 120 | 5.96 | 20.0 |
| BD04089 | Chromium, Dissolved | mg/L | -0.0000558 | 0.000440 | 0.100 | 0.0928 | 0.0973 | 0.0989 | 0.0850 to 0.115 | 92.8 | 70.0 to 130 | 4.73 | 20.0 |
| BD04088 | Chromium, Total | mg/L | 0.0000667 | 0.000440 | 0.100 | 0.100 | 0.104 | 0.106 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 3.92 | 20.0 |
| BD04089 | Cobalt, Dissolved | mg/L | -0.0000015 | 0.000147 | 0.100 | 0.139 | 0.146 | 0.0995 | 0.0850 to 0.115 | 95.2 | 70.0 to 130 | 4.91 | 20.0 |
| BD04088 | Cobalt, Total | mg/L | 0.0000023 | 0.000147 | 0.100 | 0.104 | 0.109 | 0.112 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 4.69 | 20.0 |
| BD04088 | Fluoride | mg/L | 0.0375 | 0.125 | 2.50 | 2.77 | 2.78 | 2.62 | 2.25 to 2.75 | 103 | 80.0 to 120 | 0.360 | 20.0 |
| BD04089 | Iron, Dissolved | mg/L | -0.000232 | 0.0176 | 0.2 | 163 | 167 | 0.202 | 0.170 to 0.230 | 2500 | 70.0 to 130 | 2.42 | 20.0 |
| BD04088 | Iron, Total | mg/L | 0.000927 | 0.0176 | 0.2 | 4.48 | 4.16 | 0.200 | 0.170 to 0.230 | 220 | 70.0 to 130 | 7.41 | 20.0 |

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

Batch QC Summary

Customer Account: WMWGORLF
Sample Date: 2/22/23 12:35
Customer ID:
Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-12V

Laboratory ID Number: BD04088

| Sample | Analysis | Units | MB | | | | Standard | Limit | Rec | Limit | Prec | Limit | |
|---------|------------------------|-------|------------|----------|-------|---------|----------|---------|--------------------|-------|-------------|-------|------|
| | | | MB | Limit | Spike | MS | | | | | | | |
| BD04089 | Lead, Dissolved | mg/L | 0.0000017 | 0.000147 | 0.100 | 0.102 | 0.104 | 0.100 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.94 | 20.0 |
| BD04088 | Lead, Total | mg/L | 0.000011 | 0.000147 | 0.100 | 0.109 | 0.112 | 0.112 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 2.71 | 20.0 |
| BD04089 | Lithium, Dissolved | mg/L | 0.000766 | 0.0154 | 0.200 | 0.280 | 0.277 | 0.194 | 0.170 to 0.230 | 109 | 70.0 to 130 | 1.08 | 20.0 |
| BD04088 | Lithium, Total | mg/L | -0.000337 | 0.0154 | 0.200 | 0.483 | 0.481 | 0.198 | 0.170 to 0.230 | 102 | 70.0 to 130 | 0.415 | 20.0 |
| BD04089 | Magnesium, Dissolved | mg/L | -0.0245 | 0.0462 | 5.00 | 359 | 358 | 5.09 | 4.25 to 5.75 | -400 | 70.0 to 130 | 0.279 | 20.0 |
| BD04088 | Magnesium, Total | mg/L | -0.00494 | 0.0462 | 5.00 | 203 | 196 | 5.01 | 4.25 to 5.75 | 240 | 70.0 to 130 | 3.51 | 20.0 |
| BD04089 | Manganese, Dissolved | mg/L | 0.0000252 | 0.00033 | 0.100 | 21.2 | 20.9 | 0.0997 | 0.0850 to 0.115 | 500 | 70.0 to 130 | 1.43 | 20.0 |
| BD04088 | Manganese, Total | mg/L | -0.0000306 | 0.00033 | 0.100 | 0.570 | 0.596 | 0.107 | 0.0850 to 0.115 | 92.0 | 70.0 to 130 | 4.46 | 20.0 |
| BD04089 | Mercury, Total by CVAA | mg/L | -1.000E-05 | 0.000500 | 0.004 | 0.00367 | 0.00372 | 0.00348 | 0.00340 to 0.00460 | 91.8 | 70.0 to 130 | 1.35 | 20.0 |
| BD04089 | Molybdenum, Dissolved | mg/L | 0.0000079 | 0.0002 | 0.100 | 0.0939 | 0.0976 | 0.0972 | 0.0850 to 0.115 | 93.4 | 70.0 to 130 | 3.86 | 20.0 |
| BD04088 | Molybdenum, Total | mg/L | 0.000028 | 0.0002 | 0.100 | 0.105 | 0.112 | 0.103 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 6.45 | 20.0 |
| BD04089 | Potassium, Dissolved | mg/L | -0.00373 | 0.367 | 10.0 | 29.3 | 31.0 | 9.85 | 8.50 to 11.5 | 111 | 70.0 to 130 | 5.64 | 20.0 |
| BD04088 | Potassium, Total | mg/L | 0.0259 | 0.367 | 10.0 | 17.5 | 17.8 | 10.3 | 8.50 to 11.5 | 102 | 70.0 to 130 | 1.70 | 20.0 |
| BD04089 | Selenium, Dissolved | mg/L | -0.0000434 | 0.00100 | 0.100 | 0.111 | 0.107 | 0.101 | 0.0850 to 0.115 | 111 | 70.0 to 130 | 3.67 | 20.0 |
| BD04088 | Selenium, Total | mg/L | 0.0000768 | 0.00100 | 0.100 | 0.0994 | 0.106 | 0.103 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 6.43 | 20.0 |
| BD04089 | Silicon, Dissolved | mg/L | -0.000019 | 0.0440 | 1.00 | 15.2 | 15.2 | 1.01 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 0.00 | 20.0 |
| BD04088 | Silicon, Total | mg/L | 0.000121 | 0.0440 | 1.00 | 8.10 | 8.05 | 0.995 | 0.850 to 1.15 | 99.0 | 70.0 to 130 | 0.619 | 20.0 |
| BD04089 | Sodium, Dissolved | mg/L | -0.00164 | 0.0880 | 5.00 | 44.2 | 48.6 | 4.91 | 4.25 to 5.75 | -132 | 70.0 to 130 | 9.48 | 20.0 |
| BD04088 | Sodium, Total | mg/L | -0.000766 | 0.0880 | 5.00 | 162 | 157 | 4.88 | 4.25 to 5.75 | 200 | 70.0 to 130 | 3.13 | 20.0 |
| BD04088 | Sulfate | mg/L | 0.0257 | 2.0 | 1600 | 2980 | 3210 | 18.9 | 18.0 to 22.0 | 102 | 80.0 to 120 | 7.43 | 20.0 |
| BD04089 | Thallium, Dissolved | mg/L | -0.0000047 | 0.000147 | 0.100 | 0.101 | 0.105 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 3.88 | 20.0 |
| BD04088 | Thallium, Total | mg/L | 0.0000046 | 0.000147 | 0.100 | 0.109 | 0.113 | 0.110 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 3.60 | 20.0 |
| BD04088 | Total Organic Carbon | mg/L | 0.0453 | 1.00 | 10.0 | 14.8 | 15.2 | 27.1 | | 100 | 80.0 to 120 | 2.67 | 20.0 |

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

Batch QC Summary

Customer Account: WMWGORLF

Sample Date: 2/22/23 12:35

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-12V

Laboratory ID Number: BD04088

| Sample | Analysis | Units | MB | MB | | | Sample Duplicate | Standard Standard | Standard | | | Rec Rec | Prec Prec | Prec Limit |
|---------|---------------------------|-------------------------|-------|-------|-------|------|------------------|-------------------|--------------|------|-------------|---------|-----------|------------|
| | | | | Limit | Spike | MS | | | Limit | Rec | Prec | | | |
| BD04089 | Alkalinity to pH 4.5 | mg CaCO ₃ /L | | | | | 214 | 50.4 | 45.0 to 55.0 | | | 0.00 | 10.0 | |
| BD04088 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.02 | 0.200 | 2.00 | 1.97 | 0.005 | 1.88 | 1.80 to 2.20 | 98.5 | 90.0 to 110 | 0.00 | 15.0 | |
| BD04088 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 2260 | 50.0 | 40.0 to 60.0 | | | 0.889 | 10.0 | |

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

Certificate Of Analysis

Description: Gorgas Landfill - MW-12

Location Code: WMWGORLF
Collected: 2/22/23 13:47
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04089

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|----------|--------|--------------|-------|----------|------------|----|
| Analytical Method: EPA 200.7 | | | | | | | | | |
| * Boron, Total | 2/24/23 13:19 | 2/28/23 12:08 | | 1.015 | 0.153 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Total | 2/24/23 13:19 | 2/28/23 15:05 | | 101.5 | 304 | mg/L | 7.0035 | 40.6 | RA |
| * Iron, Total | 2/24/23 13:19 | 2/28/23 15:05 | | 101.5 | 164 | mg/L | 0.8120 | 4.06 | RA |
| * Lithium, Total | 2/24/23 13:19 | 2/28/23 12:08 | | 1.015 | 0.0615 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/24/23 13:19 | 2/28/23 15:05 | | 101.5 | 342 | mg/L | 2.1315 | 40.6 | RA |
| * Silica, Total (calc.) | 2/24/23 13:19 | 2/28/23 12:08 | | 1 | 30.8 | mg/L | | | |
| * Silicon, Total | 2/24/23 13:19 | 2/28/23 12:08 | | 1.015 | 14.4 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/24/23 13:19 | 2/28/23 15:05 | | 101.5 | 44.8 | mg/L | 3.045 | 40.6 | RA |
| Analytical Method: EPA 200.7 | | | | | | | | | |
| * Boron, Dissolved | 2/23/23 13:36 | 2/27/23 12:25 | | 1.015 | 0.148 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Dissolved | 2/23/23 13:36 | 2/27/23 14:13 | | 101.5 | 325 | mg/L | 7.0035 | 40.6 | RA |
| * Iron, Dissolved | 2/23/23 13:36 | 2/27/23 14:13 | | 101.5 | 158 | mg/L | 0.8120 | 4.06 | RA |
| * Lithium, Dissolved | 2/23/23 13:36 | 2/27/23 12:25 | | 1.015 | 0.0613 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/23/23 13:36 | 2/27/23 14:13 | | 101.5 | 379 | mg/L | 2.1315 | 40.6 | RA |
| * Silica, Dissolved (calc.) | 2/23/23 13:36 | 2/27/23 12:25 | | 1 | 30.6 | mg/L | | | |
| * Silicon, Dissolved | 2/23/23 13:36 | 2/27/23 12:25 | | 1.015 | 14.3 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/23/23 13:36 | 2/27/23 14:13 | | 101.5 | 50.8 | mg/L | 3.045 | 40.6 | RA |
| Analytical Method: EPA 200.8 | | | | | | | | | |
| * Antimony, Total | 2/24/23 13:19 | 2/27/23 18:38 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/24/23 13:19 | 2/27/23 18:38 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.05075 | U |
| * Arsenic, Total | 2/24/23 13:19 | 2/27/23 18:38 | | 1.015 | 0.0651 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 2/24/23 13:19 | 2/27/23 18:38 | | 1.015 | 0.0131 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 2/24/23 13:19 | 2/27/23 18:38 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/24/23 13:19 | 2/27/23 18:38 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/24/23 13:19 | 2/27/23 18:38 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Total | 2/24/23 13:19 | 2/27/23 18:38 | | 1.015 | 0.0535 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 2/24/23 13:19 | 2/27/23 18:38 | | 1.015 | 0.000214 | mg/L | 0.000068 | 0.000203 | |
| * Manganese, Total | 2/24/23 13:19 | 2/27/23 19:49 | | 92.365 | 17.2 | mg/L | 0.013855 | 0.092365 | RA |
| * Molybdenum, Total | 2/24/23 13:19 | 2/27/23 18:38 | | 1.015 | 0.000131 | mg/L | 0.000102 | 0.000203 | J |
| * Potassium, Total | 2/24/23 13:19 | 2/27/23 18:38 | | 1.015 | 22.8 | 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.

Nitrate-Nitrite precision, matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.

Certificate Of Analysis

Description: Gorgas Landfill - MW-12

Location Code: WMWGORLF
Collected: 2/22/23 13:47
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04089

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------|----------|--------|--------------|-------------------------|----------|----------|----|
| * Selenium, Total | 2/24/23 13:19 | 2/27/23 18:38 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/24/23 13:19 | 2/27/23 18:38 | | 1.015 | 0.000112 | mg/L | 0.000068 | 0.000203 | J |
| Analytical Method: EPA 200.8 | | | | | | | | | |
| <i>Analyst: DLJ</i> | | | | | | | | | |
| * Antimony, Dissolved | 2/23/23 13:36 | 2/23/23 16:28 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/23/23 13:36 | 2/23/23 16:28 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.05075 | U |
| * Arsenic, Dissolved | 2/23/23 13:36 | 2/23/23 16:28 | | 1.015 | 0.0599 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 2/23/23 13:36 | 2/23/23 16:28 | | 1.015 | 0.0105 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 2/23/23 13:36 | 2/28/23 11:02 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/23/23 13:36 | 2/23/23 16:28 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/23/23 13:36 | 2/23/23 16:28 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/23/23 13:36 | 2/23/23 16:28 | | 1.015 | 0.0438 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 2/23/23 13:36 | 2/23/23 16:28 | | 1.015 | 0.0000924 | mg/L | 0.000068 | 0.000203 | J |
| * Manganese, Dissolved | 2/23/23 13:36 | 2/28/23 12:24 | | 92.365 | 20.7 | mg/L | 0.013855 | 0.092365 | RA |
| * Molybdenum, Dissolved | 2/23/23 13:36 | 2/23/23 16:28 | | 1.015 | 0.000455 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 2/23/23 13:36 | 2/23/23 16:28 | | 1.015 | 18.2 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/23/23 13:36 | 2/23/23 16:28 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/23/23 13:36 | 2/23/23 16:28 | | 1.015 | 0.000107 | mg/L | 0.000068 | 0.000203 | J |
| Analytical Method: EPA 245.1 | | | | | | | | | |
| <i>Analyst: ELH</i> | | | | | | | | | |
| * Mercury, Total by CVAA | 2/27/23 19:37 | 2/28/23 03:34 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | | | | | | | | |
| <i>Analyst: SC</i> | | | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/24/23 11:42 | 2/24/23 11:42 | | 1 | 0.298 | mg/L as N | 0.20 | 0.3 | J |
| Analytical Method: SM 2320 B | | | | | | | | | |
| <i>Analyst: ALH</i> | | | | | | | | | |
| * Alkalinity to pH 4.5 | 3/6/23 13:15 | 3/6/23 14:40 | | 1 | 214 | mg CaCO ₃ /L | | | |
| Analytical Method: SM 2540C | | | | | | | | | |
| <i>Analyst: CNJ</i> | | | | | | | | | |
| * Solids, Dissolved | 2/24/23 10:25 | 2/27/23 13:48 | | 1 | 3880 | mg/L | | 208.3 | |
| Analytical Method: SM 4500CO2 D | | | | | | | | | |
| <i>Analyst: ALH</i> | | | | | | | | | |
| * Bicarbonate Alkalinity, (calc.) | 3/6/23 13:15 | 3/6/23 14:40 | | 1 | 214 | mg CaCO ₃ /L | | 1 | A |
| * Carbonate Alkalinity, (calc.) | 3/6/23 13:15 | 3/6/23 14:40 | | 1 | Not Detected | mg CaCO ₃ /L | | 0.5 | A |
| Analytical Method: SM 5310 B | | | | | | | | | |
| <i>Analyst: SC</i> | | | | | | | | | |
| * Total Organic Carbon | 2/24/23 01:38 | 2/24/23 01:38 | | 1 | 15.6 | mg/L | 1.00 | 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.

Nitrate-Nitrite precision, matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.

Certificate Of Analysis

Description: Gorgas Landfill - MW-12

Location Code: WMWGORLF
Collected: 2/22/23 13:47
Customer ID:
Submittal Date: 2/23/23 11:07

Laboratory ID Number: BD04089

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------|----------|-----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E <i>Analyst: JCC</i> | | | | | | | | | |
| * Chloride | 2/24/23 15:07 | 2/24/23 15:07 | | 1 | 10.9 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 <i>Analyst: JCC</i> | | | | | | | | | |
| * Fluoride | 2/27/23 13:15 | 2/27/23 13:15 | | 1 | 0.239 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 <i>Analyst: JCC</i> | | | | | | | | | |
| * Sulfate | 3/1/23 14:39 | 3/1/23 14:39 | | 100 | 2440 | mg/L | 60.0 | 200 | |
| Analytical Method: Field Measurements <i>Analyst: DKG</i> | | | | | | | | | |
| Conductivity | 2/22/23 13:44 | 2/22/23 13:44 | | | 3585.09 | uS/cm | | | FA |
| pH | 2/22/23 13:44 | 2/22/23 13:44 | | | 5.72 | SU | | | FA |
| Temperature | 2/22/23 13:44 | 2/22/23 13:44 | | | 21.83 | C | | | FA |
| Turbidity | 2/22/23 13:44 | 2/22/23 13:44 | | | 3.81 | NTU | | | FA |
| Sulfide | 2/22/23 13:44 | 2/22/23 13:44 | | | 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.

Nitrate-Nitrite precision, matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.

Batch QC Summary

Customer Account: WMWGORLF

Sample Date: 2/22/23 13:47

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-12

Laboratory ID Number: BD04089

| Sample | Analysis | Units | MB | | | | Standard | Limit | Rec | Limit | Prec | Limit | |
|---------|----------------------|-------|------------|----------|-------|--------|----------|--------|-----------------|-------|-------------|-------|------|
| | | | MB | Limit | Spike | MS | | | | | | | |
| BD04089 | Aluminum, Dissolved | mg/L | -0.000276 | 0.0198 | 0.100 | 0.0922 | 0.0981 | 0.0965 | 0.0850 to 0.115 | 92.2 | 70.0 to 130 | 6.20 | 20.0 |
| BD04089 | Aluminum, Total | mg/L | 0.000636 | 0.0198 | 0.100 | 0.105 | 0.103 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 |
| BD04089 | Antimony, Dissolved | mg/L | 0.000346 | 0.00100 | 0.100 | 0.0972 | 0.101 | 0.0904 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 3.83 | 20.0 |
| BD04089 | Antimony, Total | mg/L | 0.000349 | 0.00100 | 0.100 | 0.108 | 0.109 | 0.0963 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.922 | 20.0 |
| BD04089 | Arsenic, Dissolved | mg/L | -0.0000191 | 0.000200 | 0.100 | 0.167 | 0.164 | 0.0960 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 1.81 | 20.0 |
| BD04089 | Arsenic, Total | mg/L | 0.0000129 | 0.000200 | 0.100 | 0.168 | 0.165 | 0.0992 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.80 | 20.0 |
| BD04089 | Barium, Dissolved | mg/L | -0.0000092 | 0.00100 | 0.100 | 0.105 | 0.109 | 0.0954 | 0.0850 to 0.115 | 94.5 | 70.0 to 130 | 3.74 | 20.0 |
| BD04089 | Barium, Total | mg/L | -0.0000013 | 0.00100 | 0.100 | 0.118 | 0.120 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.68 | 20.0 |
| BD04089 | Beryllium, Dissolved | mg/L | 0.0000161 | 0.000880 | 0.100 | 0.0944 | 0.0957 | 0.108 | 0.0850 to 0.115 | 94.4 | 70.0 to 130 | 1.37 | 20.0 |
| BD04089 | Beryllium, Total | mg/L | 0.0000082 | 0.000880 | 0.100 | 0.0951 | 0.0984 | 0.104 | 0.0850 to 0.115 | 95.1 | 70.0 to 130 | 3.41 | 20.0 |
| BD04089 | Boron, Dissolved | mg/L | -0.00311 | 0.0650 | 1.00 | 1.18 | 1.18 | 1.01 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BD04089 | Boron, Total | mg/L | 0.000025 | 0.0650 | 1.00 | 1.13 | 1.14 | 0.992 | 0.850 to 1.15 | 97.7 | 70.0 to 130 | 0.881 | 20.0 |
| BD04089 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0912 | 0.0945 | 0.0975 | 0.0850 to 0.115 | 91.2 | 70.0 to 130 | 3.55 | 20.0 |
| BD04089 | Cadmium, Total | mg/L | 0.0000068 | 0.000147 | 0.100 | 0.102 | 0.102 | 0.103 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BD04089 | Calcium, Dissolved | mg/L | -0.0143 | 0.152 | 5.00 | 312 | 312 | 5.07 | 4.25 to 5.75 | -260 | 70.0 to 130 | 0.00 | 20.0 |
| BD04089 | Calcium, Total | mg/L | -0.0162 | 0.152 | 5.00 | 310 | 315 | 4.84 | 4.25 to 5.75 | 120 | 70.0 to 130 | 1.60 | 20.0 |
| BD04089 | Chloride | mg/L | 0.0485 | 1.00 | 10.0 | 19.9 | 20.1 | 9.94 | 9.00 to 11.0 | 90.0 | 80.0 to 120 | 1.00 | 20.0 |
| BD04089 | Chromium, Dissolved | mg/L | -0.0000558 | 0.000440 | 0.100 | 0.0928 | 0.0973 | 0.0989 | 0.0850 to 0.115 | 92.8 | 70.0 to 130 | 4.73 | 20.0 |
| BD04089 | Chromium, Total | mg/L | 0.0000069 | 0.000440 | 0.100 | 0.102 | 0.0992 | 0.103 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.78 | 20.0 |
| BD04089 | Cobalt, Dissolved | mg/L | -0.0000015 | 0.000147 | 0.100 | 0.139 | 0.146 | 0.0995 | 0.0850 to 0.115 | 95.2 | 70.0 to 130 | 4.91 | 20.0 |
| BD04089 | Cobalt, Total | mg/L | 0.0000003 | 0.000147 | 0.100 | 0.161 | 0.157 | 0.108 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 2.52 | 20.0 |
| BD04089 | Fluoride | mg/L | 0.0293 | 0.125 | 2.50 | 2.69 | 2.71 | 2.51 | 2.25 to 2.75 | 98.0 | 80.0 to 120 | 0.741 | 20.0 |
| BD04089 | Iron, Dissolved | mg/L | -0.000232 | 0.0176 | 0.2 | 163 | 167 | 0.202 | 0.170 to 0.230 | 2500 | 70.0 to 130 | 2.42 | 20.0 |
| BD04089 | Iron, Total | mg/L | 0.000997 | 0.0176 | 0.2 | 164 | 165 | 0.202 | 0.170 to 0.230 | 0.00 | 70.0 to 130 | 0.608 | 20.0 |

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

Nitrate-Nitrite precision, matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.

Batch QC Summary

Customer Account: WMWGORLF
Sample Date: 2/22/23 13:47
Customer ID:
Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-12

Laboratory ID Number: BD04089

| Sample | Analysis | Units | MB | | | | Standard | Limit | Rec | Limit | Prec | Limit | |
|---------|------------------------|-------|------------|----------|-------|---------|----------|---------|--------------------|-------|-------------|-------|------|
| | | | MB | Limit | Spike | MS | | | | | | | |
| BD04089 | Lead, Dissolved | mg/L | 0.0000017 | 0.000147 | 0.100 | 0.102 | 0.104 | 0.100 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.94 | 20.0 |
| BD04089 | Lead, Total | mg/L | 0.0000059 | 0.000147 | 0.100 | 0.108 | 0.108 | 0.111 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.00 | 20.0 |
| BD04089 | Lithium, Dissolved | mg/L | 0.000766 | 0.0154 | 0.200 | 0.280 | 0.277 | 0.194 | 0.170 to 0.230 | 109 | 70.0 to 130 | 1.08 | 20.0 |
| BD04089 | Lithium, Total | mg/L | -0.000372 | 0.0154 | 0.200 | 0.277 | 0.275 | 0.202 | 0.170 to 0.230 | 108 | 70.0 to 130 | 0.725 | 20.0 |
| BD04089 | Magnesium, Dissolved | mg/L | -0.0245 | 0.0462 | 5.00 | 359 | 358 | 5.09 | 4.25 to 5.75 | -400 | 70.0 to 130 | 0.279 | 20.0 |
| BD04089 | Magnesium, Total | mg/L | -0.00153 | 0.0462 | 5.00 | 344 | 348 | 5.01 | 4.25 to 5.75 | 40.0 | 70.0 to 130 | 1.16 | 20.0 |
| BD04089 | Manganese, Dissolved | mg/L | 0.0000252 | 0.00033 | 0.100 | 21.2 | 20.9 | 0.0997 | 0.0850 to 0.115 | 500 | 70.0 to 130 | 1.43 | 20.0 |
| BD04089 | Manganese, Total | mg/L | 0.0000492 | 0.00033 | 0.100 | 20.6 | 19.4 | 0.103 | 0.0850 to 0.115 | 3400 | 70.0 to 130 | 6.00 | 20.0 |
| BD04089 | Mercury, Total by CVAA | mg/L | -1.000E-05 | 0.000500 | 0.004 | 0.00367 | 0.00372 | 0.00348 | 0.00340 to 0.00460 | 91.8 | 70.0 to 130 | 1.35 | 20.0 |
| BD04089 | Molybdenum, Dissolved | mg/L | 0.0000079 | 0.0002 | 0.100 | 0.0939 | 0.0976 | 0.0972 | 0.0850 to 0.115 | 93.4 | 70.0 to 130 | 3.86 | 20.0 |
| BD04089 | Molybdenum, Total | mg/L | 0.0000215 | 0.0002 | 0.100 | 0.105 | 0.105 | 0.102 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BD04089 | Potassium, Dissolved | mg/L | -0.00373 | 0.367 | 10.0 | 29.3 | 31.0 | 9.85 | 8.50 to 11.5 | 111 | 70.0 to 130 | 5.64 | 20.0 |
| BD04089 | Potassium, Total | mg/L | 0.0422 | 0.367 | 10.0 | 34.9 | 34.6 | 10.3 | 8.50 to 11.5 | 121 | 70.0 to 130 | 0.863 | 20.0 |
| BD04089 | Selenium, Dissolved | mg/L | -0.0000434 | 0.00100 | 0.100 | 0.111 | 0.107 | 0.101 | 0.0850 to 0.115 | 111 | 70.0 to 130 | 3.67 | 20.0 |
| BD04089 | Selenium, Total | mg/L | 0.000111 | 0.00100 | 0.100 | 0.105 | 0.103 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 |
| BD04089 | Silicon, Dissolved | mg/L | -0.000019 | 0.0440 | 1.00 | 15.2 | 15.2 | 1.01 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 0.00 | 20.0 |
| BD04089 | Silicon, Total | mg/L | -0.000001 | 0.0440 | 1.00 | 15.4 | 15.3 | 1.00 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.651 | 20.0 |
| BD04089 | Sodium, Dissolved | mg/L | -0.00164 | 0.0880 | 5.00 | 44.2 | 48.6 | 4.91 | 4.25 to 5.75 | -132 | 70.0 to 130 | 9.48 | 20.0 |
| BD04089 | Sodium, Total | mg/L | -0.000232 | 0.0880 | 5.00 | 47.2 | 47.8 | 5.08 | 4.25 to 5.75 | 48.0 | 70.0 to 130 | 1.26 | 20.0 |
| BD04089 | Sulfate | mg/L | 0.221 | 2.0 | 2000 | 4490 | 4440 | 18.9 | 18.0 to 22.0 | 102 | 80.0 to 120 | 1.12 | 20.0 |
| BD04089 | Thallium, Dissolved | mg/L | -0.0000047 | 0.000147 | 0.100 | 0.101 | 0.105 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 3.88 | 20.0 |
| BD04089 | Thallium, Total | mg/L | 0.0000032 | 0.000147 | 0.100 | 0.107 | 0.107 | 0.111 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BD04089 | Total Organic Carbon | mg/L | 0.0531 | 1.00 | 10.0 | 26.1 | 25.6 | 25.8 | | 105 | 80.0 to 120 | 1.93 | 20.0 |

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

Nitrate-Nitrite precision, matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.

Batch QC Summary

Customer Account: WMWGORLF

Sample Date: 2/22/23 13:47

Customer ID:

Delivery Date: 2/23/23 11:07

Description: Gorgas Landfill - MW-12

Laboratory ID Number: BD04089

| Sample | Analysis | Units | MB | MB | | | Sample Duplicate | Standard Standard | Standard | | | Rec Rec | Prec Prec | Prec Limit |
|---------|---------------------------|-------------------------|-------|-------|-------|------|------------------|-------------------|--------------|------|-------------|---------|-----------|------------|
| | | | | Limit | Spike | MS | | | Limit | Rec | Limit | | | |
| BD04089 | Alkalinity to pH 4.5 | mg CaCO ₃ /L | | | | | 214 | 50.4 | 45.0 to 55.0 | | | 0.00 | 10.0 | |
| BD04089 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.02 | 0.200 | 2.00 | 1.81 | 0.378 | 1.88 | 1.80 to 2.20 | 75.6 | 90.0 to 110 | 23.7 | 15.0 | |
| BD04089 | Solids, Dissolved | mg/L | 2.00 | 25.0 | | | 3860 | 54.0 | 40.0 to 60.0 | | | 0.517 | 10.0 | |

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

Nitrate-Nitrite precision, matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.

Definitions

Project Number: WMWGORLF_1399

| 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 |
|-----------|--|
| A | Bicarbonate alkalinity, carbonate alkalinity, hydroxide alkalinity, free carbon dioxide, and/or total carbon dioxide calculations are estimates due to pH>10SU and/or TDS>500mg/L. |
| C | Analyte was verified by re-analysis. |
| 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 Collector | Routine TJ Daugherty | Results To Requested By Location | Dustin Brooks, Greg Dyer Greg Dyer Gorgas Landfill | | | | | | | | | | | | | | | | | | | | | | | |
| | Bottles | <table border="1"> <tr> <td>1</td> <td>Metals</td> <td>500 mL</td> <td>3</td> <td>Hg</td> <td>250 mL</td> <td>5</td> <td>TDS/Alkalinity</td> <td>500 mL</td> <td>7</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>2</td> <td>Dissolved Metals</td> <td>500 mL</td> <td>4</td> <td>Nitrite, Nitrate; TOC</td> <td>250 mL</td> <td>6</td> <td>Anions</td> <td>500 mL</td> <td>8</td> <td>N/A</td> <td>N/A</td> </tr> </table> | 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 |
| 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 | | | | | | | | | | | | | | | |

Relinquished By

Received By

Date/Time

| | | |
|---|--|------------------|
|  |  | 02/22/2023 16:30 |
|  |  | 02/23/2023 08:38 |
| | | |

| | |
|--------------|----------------|
| SmarTroll ID | 7586-41445-5-4 |
| Turbidity ID | 4677-23343-4-2 |
| Sample Event | 1399 |

| | |
|----------------|------------------|
| Cooler Temp | 1.1 °C |
| Thermometer ID | 10614-61208-2-1 |
| pH Strip ID | 10429-60252-10-8 |



Chain of Custody

Groundwater

APC General Testing Laboratory

 Field Complete Outside Lab Lab Complete

Lab ETA

| | | | | | | | | | | | | |
|-------------------------|---|------------------|--------|--------------|--------------------------|--------|---|----------------|--------|---|-----|-----|
| Requested Complete Date | Routine | | | Results To | Dustin Brooks, Greg Dyer | | | | | | | |
| Collector | Dallas Gentry | | | Requested By | Greg Dyer | | | | | | | |
| | | | | Location | Gorgas Landfill | | | | | | | |
| 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 | Changed collection time from 1510 to 1435 on EB-1 per sample container. BC 02/23/23 | | | | | | | | | | | |

| Sample # | Date | Time | Bottle Count | Description | Lab Filter | Lab Id | pH Check |
|-----------|------------|-------|--------------|------------------|------------|---------|-------------------------------------|
| MW-13 | 02/20/2023 | 11:02 | 6 | Groundwater | | BD04075 | <input checked="" type="checkbox"/> |
| MW-14 | 02/20/2023 | 12:02 | 6 | Groundwater | | BD04076 | <input checked="" type="checkbox"/> |
| MW-15 | 02/20/2023 | 13:17 | 6 | Groundwater | | BD04077 | <input checked="" type="checkbox"/> |
| MW-16 | 02/20/2023 | 14:45 | 6 | Groundwater | | BD04078 | <input checked="" type="checkbox"/> |
| MW-16 dup | 02/20/2023 | 14:45 | 6 | Sample Duplicate | | BD04079 | <input checked="" type="checkbox"/> |
| FB-1 | 02/20/2023 | 15:10 | 5 | Field Blank | | BD04080 | <input checked="" type="checkbox"/> |
| MW-17R | 02/21/2023 | 10:38 | 6 | Groundwater | | BD04081 | <input checked="" type="checkbox"/> |
| MW-18 | 02/21/2023 | 11:40 | 6 | Groundwater | | BD04082 | <input checked="" type="checkbox"/> |
| MW-19 | 02/21/2023 | 12:46 | 6 | Groundwater | | BD04083 | <input checked="" type="checkbox"/> |
| MW-19 dup | 02/21/2023 | 12:46 | 6 | Sample Duplicate | | BD04084 | <input checked="" type="checkbox"/> |
| MW-20 | 02/21/2023 | 14:00 | 6 | Groundwater | | BD04085 | <input checked="" type="checkbox"/> |
| EB-1 | 02/21/2023 | 14:35 | 5 | Equipment Blank | | BD04086 | <input checked="" type="checkbox"/> |
| MW-11 | 02/21/2023 | 15:25 | 6 | Groundwater | | BD04087 | <input checked="" type="checkbox"/> |
| MW-12V | 02/22/2023 | 12:35 | 6 | Groundwater | | BD04088 | <input checked="" type="checkbox"/> |
| MW-12 | 02/22/2023 | 13:47 | 6 | Groundwater | | BD04089 | <input checked="" type="checkbox"/> |
| | | | | | | | <input type="checkbox"/> |
| | | | | | | | <input type="checkbox"/> |
| | | | | | | | <input type="checkbox"/> |
| | | | | | | | <input type="checkbox"/> |
| | | | | | | | <input type="checkbox"/> |
| | | | | | | | <input type="checkbox"/> |

Relinquished By

Received By

Date/Time

02/23/2023 08:37

| | | | |
|--------------|----------------|----------------|------------------|
| SmarTroll ID | 7586-41443-5-2 | Cooler Temp | 1.1 °C |
| Turbidity ID | 9901-57263-1-1 | Thermometer ID | 10614-61208-2-1 |
| Sample Event | 1399 | 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 | Greg Dyer | | | | | | | | | |
| | | | Location | Gorgas Landfill | | | | | | | | | |
| Bottles | 1 | Radium | 1 L | | 3 | N/A | N/A | 5 | N/A | N/A | 7 | N/A | N/A |
| | 2 | N/A | N/A | | 4 | N/A | N/A | 6 | N/A | N/A | 8 | N/A | N/A |
| Comments | Rad MS/MSD @ MW-10 | | | | | | | | | | | | |

Relinquished By

Received By

Date/Time

| | | |
|---|--|------------------|
|  |  | 02/22/2023 16:30 |
|  |  | 02/23/2023 08:38 |
| | | |

| | |
|--------------|----------------|
| SmarTroll ID | 7586-41445-5-4 |
| Turbidity ID | 4677-23343-4-2 |
| Sample Event | 1399 |

| | |
|----------------|------------------|
| Cooler Temp | N/A |
| Thermometer ID | N/A |
| pH Strip ID | 10429-60252-10-8 |



Chain of Custody

Groundwater

APC General Testing Laboratory

 Field Complete Outside Lab Lab Complete

Lab ETA

| | | | | | |
|-------------------------|---|--------------|--------------------------|-----------|--|
| Requested Complete Date | Routine | Results To | Dustin Brooks, Greg Dyer | | |
| Collector | Dallas Gentry | Requested By | Greg Dyer | | |
| | | Location | Gorgas Landfill | | |
| 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-14 Changed collection time from 1510 to 1435 on EB-1 per sample container. BC 02/23/23 | | | | |

| Sample # | Date | Time | Bottle Count | Description | Lab Filter | Lab Id | pH Check |
|-----------|------------|-------|--------------|------------------|------------|---------|-------------------------------------|
| MW-13 | 02/20/2023 | 11:02 | 1 | Groundwater | | BD04096 | <input checked="" type="checkbox"/> |
| MW-14 | 02/20/2023 | 12:02 | 3 | Groundwater | | BD04097 | <input checked="" type="checkbox"/> |
| MW-15 | 02/20/2023 | 13:17 | 1 | Groundwater | | BD04098 | <input checked="" type="checkbox"/> |
| MW-16 | 02/20/2023 | 14:45 | 1 | Groundwater | | BD04099 | <input checked="" type="checkbox"/> |
| MW-16 dup | 02/20/2023 | 14:45 | 1 | Sample Duplicate | | BD04100 | <input checked="" type="checkbox"/> |
| FB-1 | 02/20/2023 | 15:10 | 1 | Field Blank | | BD04101 | <input checked="" type="checkbox"/> |
| MW-17R | 02/21/2023 | 10:38 | 1 | Groundwater | | BD04102 | <input checked="" type="checkbox"/> |
| MW-18 | 02/21/2023 | 11:40 | 1 | Groundwater | | BD04103 | <input checked="" type="checkbox"/> |
| MW-19 | 02/21/2023 | 12:46 | 1 | Groundwater | | BD04104 | <input checked="" type="checkbox"/> |
| MW-19 dup | 02/21/2023 | 12:46 | 1 | Sample Duplicate | | BD04105 | <input checked="" type="checkbox"/> |
| MW-20 | 02/21/2023 | 14:00 | 1 | Groundwater | | BD04106 | <input checked="" type="checkbox"/> |
| EB-1 | 02/21/2023 | 14:35 | 1 | Equipment Blank | | BD04107 | <input checked="" type="checkbox"/> |
| MW-11 | 02/21/2023 | 15:25 | 1 | Groundwater | | BD04108 | <input checked="" type="checkbox"/> |
| MW-12V | 02/22/2023 | 12:35 | 1 | Groundwater | | BD04109 | <input checked="" type="checkbox"/> |
| MW-12 | 02/22/2023 | 13:47 | 1 | Groundwater | | BD04110 | <input checked="" type="checkbox"/> |
| | | | | | | | <input type="checkbox"/> |
| | | | | | | | <input type="checkbox"/> |
| | | | | | | | <input type="checkbox"/> |
| | | | | | | | <input type="checkbox"/> |
| | | | | | | | <input type="checkbox"/> |
| | | | | | | | <input type="checkbox"/> |

Relinquished By

Received By

Date/Time

02/23/2023 08:37

| | | | |
|--------------|----------------|----------------|------------------|
| SmarTroll ID | 7586-41443-5-2 | Cooler Temp | N/A |
| Turbidity ID | 9901-57263-1-1 | Thermometer ID | N/A |
| Sample Event | 1399 | 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

April 18, 2023

Brooke Caton
Alabama Power
744 Highway 87
Calera, AL 35040

RE: Project: WMWGORLF_1399
Pace Project No.: 30566801

Dear Brooke Caton:

Enclosed are the analytical results for sample(s) received by the laboratory on March 02, 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

Greensburg, PA - Revision 1 - This report replaces the April 17, 2023 report. This project was revised on April 18, 2023 to add Rad QC sheets to the report.

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: WMWGORLF_1399

Pace Project No.: 30566801

Pace Analytical Services Pennsylvania

| | |
|--|--|
| 1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601 | Missouri Certification #: 235 |
| ANAB DOD-ELAP Rad Accreditation #: L2417 | Montana Certification #: Cert0082 |
| Alabama Certification #: 41590 | Nebraska Certification #: NE-OS-29-14 |
| Arizona Certification #: AZ0734 | Nevada Certification #: PA014572018-1 |
| Arkansas Certification | New Hampshire/TNI Certification #: 297617 |
| California Certification #: 04222CA | New Jersey/TNI Certification #: PA051 |
| Colorado Certification #: PA01547 | New Mexico Certification #: PA01457 |
| Connecticut Certification #: PH-0694 | New York/TNI Certification #: 10888 |
| Delaware Certification | North Carolina Certification #: 42706 |
| EPA Region 4 DW Rad | North Dakota Certification #: R-190 |
| Florida/TNI Certification #: E87683 | Ohio EPA Rad Approval: #41249 |
| Georgia Certification #: C040 | Oregon/TNI Certification #: PA200002-010 |
| Florida: Cert E871149 SEKS WET | Pennsylvania/TNI Certification #: 65-00282 |
| Guam Certification | Puerto Rico Certification #: PA01457 |
| Hawaii Certification | Rhode Island Certification #: 65-00282 |
| Idaho Certification | South Dakota Certification |
| Illinois Certification | Tennessee Certification #: 02867 |
| Indiana Certification | Texas/TNI Certification #: T104704188-17-3 |
| Iowa Certification #: 391 | Utah/TNI Certification #: PA014572017-9 |
| Kansas/TNI Certification #: E-10358 | USDA Soil Permit #: P330-17-00091 |
| Kentucky Certification #: KY90133 | Vermont Dept. of Health: ID# VT-0282 |
| KY WW Permit #: KY0098221 | Virgin Island/PADEP Certification |
| KY WW Permit #: KY0000221 | Virginia/VELAP Certification #: 460198 |
| Louisiana DHH/TNI Certification #: LA180012 | Washington Certification #: C868 |
| Louisiana DEQ/TNI Certification #: 4086 | West Virginia DEP Certification #: 143 |
| Maine Certification #: 2017020 | West Virginia DHHR Certification #: 9964C |
| Maryland Certification #: 308 | Wisconsin Approve List for Rad |
| Massachusetts Certification #: M-PA1457 | Wyoming Certification #: 8TMS-L |
| Michigan/PADEP Certification #: 9991 | |

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: WMWGORLF_1399
Pace Project No.: 30566801

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|--------------------------|--------|----------------|----------------|
| 30566801001 | BD04090 MW-5 | Water | 02/21/23 12:22 | 03/02/23 11:00 |
| 30566801002 | BD04091 MW-7 | Water | 02/21/23 14:25 | 03/02/23 11:00 |
| 30566801003 | BD04092 MW-8 | Water | 02/21/23 15:40 | 03/02/23 11:00 |
| 30566801004 | BD04093 MW-6 | Water | 02/22/23 13:20 | 03/02/23 11:00 |
| 30566801005 | BD04094 FB-2 | Water | 02/22/23 14:10 | 03/02/23 11:00 |
| 30566801006 | BD04095 MW-10 | Water | 02/22/23 14:30 | 03/02/23 11:00 |
| 30566801007 | BD04095 MW-10 MS | Water | 02/22/23 14:30 | 03/02/23 11:00 |
| 30566801008 | BD04095 MW-10 MSD | Water | 02/22/23 14:30 | 03/02/23 11:00 |
| 30566801009 | BD04096 MW-13 | Water | 02/20/23 11:02 | 03/02/23 11:00 |
| 30566801010 | BD04097 MW-14 | Water | 02/20/23 12:02 | 03/02/23 11:00 |
| 30566801011 | BD04097 MW-14 MS | Water | 02/20/23 12:02 | 03/02/23 11:00 |
| 30566801012 | BD04097 MW-14 MSD | Water | 02/20/23 12:02 | 03/02/23 11:00 |
| 30566801013 | BD04098 MW-15 | Water | 02/20/23 13:17 | 03/02/23 11:00 |
| 30566801014 | BD04099 MW-16 | Water | 02/20/23 14:45 | 03/02/23 11:00 |
| 30566801015 | BD04100 MW-16 Dup | Water | 02/20/23 14:45 | 03/02/23 11:00 |
| 30566801016 | BD04101 FB-1 | Water | 02/20/23 15:10 | 03/02/23 11:00 |
| 30566801017 | BD04102 MW-17R | Water | 02/21/23 10:38 | 03/02/23 11:00 |
| 30566801018 | BD04103 MW-18 | Water | 02/21/23 11:40 | 03/02/23 11:00 |
| 30566801019 | BD04104 MW-19 | Water | 02/21/23 12:46 | 03/02/23 11:00 |
| 30566801020 | BD04105 MW-19 Dup | Water | 02/21/23 12:46 | 03/02/23 11:00 |
| 30566801021 | BD04106 MW-20 | Water | 02/21/23 14:00 | 03/02/23 11:00 |
| 30566801022 | BD04107 EB-1 | Water | 02/21/23 14:35 | 03/02/23 11:00 |
| 30566801023 | BD04108 MW-11 | Water | 02/21/23 15:25 | 03/02/23 11:00 |
| 30566801024 | BD04109 MW-12V | Water | 02/22/23 12:35 | 03/02/23 11:00 |
| 30566801025 | BD04110 MW-12 | Water | 02/22/23 13:47 | 03/02/23 11:00 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWGORLF_1399
Pace Project No.: 30566801

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-------------------|--------------------------|----------|-------------------|------------|
| 30566801001 | BD04090 MW-5 | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30566801002 | BD04091 MW-7 | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30566801003 | BD04092 MW-8 | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30566801004 | BD04093 MW-6 | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30566801005 | BD04094 FB-2 | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30566801006 | BD04095 MW-10 | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30566801007 | BD04095 MW-10 MS | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30566801008 | BD04095 MW-10 MSD | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30566801009 | BD04096 MW-13 | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30566801010 | BD04097 MW-14 | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30566801011 | BD04097 MW-14 MS | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30566801012 | BD04097 MW-14 MSD | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30566801013 | BD04098 MW-15 | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30566801014 | BD04099 MW-16 | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |

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SAMPLE ANALYTE COUNT

Project: WMWGORLF_1399
Pace Project No.: 30566801

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|--------------------------|--------------------------|----------|-------------------|------------|
| 30566801015 | BD04100 MW-16 Dup | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| 30566801016 | BD04101 FB-1 | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| 30566801017 | BD04102 MW-17R | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| 30566801018 | BD04103 MW-18 | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| 30566801019 | BD04104 MW-19 | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| 30566801020 | BD04105 MW-19 Dup | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| 30566801021 | BD04106 MW-20 | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| 30566801022 | BD04107 EB-1 | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| 30566801023 | BD04108 MW-11 | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| 30566801024 | BD04109 MW-12V | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| 30566801025 | BD04110 MW-12 | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |

PASI-PA = Pace Analytical Services - Greensburg

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PROJECT NARRATIVE

Project: WMWGORLF_1399
Pace Project No.: 30566801

Method: EPA 9315
Description: 9315 Total Radium
Client: Alabama Power
Date: April 18, 2023

General Information:

25 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: WMWGORLF_1399
Pace Project No.: 30566801

Method: EPA 9320
Description: 9320 Radium 228
Client: Alabama Power
Date: April 18, 2023

General Information:

25 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: WMWGORLF_1399
Pace Project No.: 30566801

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: Alabama Power

Date: April 18, 2023

General Information:

21 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: WMWGORLF_1399

Pace Project No.: 30566801

Sample: BD04090 MW-5 Lab ID: **30566801001** Collected: 02/21/23 12:22 Received: 03/02/23 11:00 Matrix: Water

PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.184U ± 0.138 (0.230) C:97% T:NA | pCi/L | 03/29/23 20:49 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.0909U ± 0.313 (0.709) C:79% T:88% | pCi/L | 03/10/23 16:05 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.275U ± 0.451 (0.939) | pCi/L | 03/30/23 14:59 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORLF_1399

Pace Project No.: 30566801

Sample: BD04091 MW-7 **Lab ID: 30566801002** Collected: 02/21/23 14:25 Received: 03/02/23 11:00 Matrix: Water

PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.108U ± 0.156 (0.339) C:99% T:NA | pCi/L | 03/29/23 20:49 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.681U ± 0.402 (0.732) C:80% T:79% | pCi/L | 03/10/23 16:05 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.789U ± 0.558 (1.07) | pCi/L | 03/30/23 14:59 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORLF_1399

Pace Project No.: 30566801

Sample: BD04092 MW-8 **Lab ID: 30566801003** Collected: 02/21/23 15:40 Received: 03/02/23 11:00 Matrix: Water

PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.0337U ± 0.0976 (0.240) C:97% T:NA | pCi/L | 03/29/23 20:49 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 2.16 ± 0.607 (0.678) C:78% T:96% | pCi/L | 03/10/23 16:05 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 2.19 ± 0.705 (0.918) | pCi/L | 03/30/23 14:59 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORLF_1399

Pace Project No.: 30566801

Sample: BD04093 MW-6 Lab ID: 30566801004 Collected: 02/22/23 13:20 Received: 03/02/23 11:00 Matrix: Water

PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.250U ± 0.167 (0.263) C:98% T:NA | pCi/L | 03/29/23 20:49 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 3.50 ± 0.841 (0.673) C:78% T:89% | pCi/L | 03/10/23 16:05 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 3.75 ± 1.01 (0.936) | pCi/L | 03/30/23 14:59 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORLF_1399

Pace Project No.: 30566801

Sample: BD04094 FB-2 **Lab ID: 30566801005** Collected: 02/22/23 14:10 Received: 03/02/23 11:00 Matrix: Water

PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.0570U ± 0.132 (0.312) C:95% T:NA | pCi/L | 03/29/23 20:49 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 1.57 ± 0.509 (0.654) C:78% T:91% | pCi/L | 03/10/23 16:05 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 1.63 ± 0.641 (0.966) | pCi/L | 03/30/23 14:59 | 7440-14-4 | |

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORLF_1399

Pace Project No.: 30566801

Sample: BD04095 MW-10 **Lab ID:** 30566801006 **Collected:** 02/22/23 14:30 **Received:** 03/02/23 11:00 **Matrix:** Water

PWS: Site ID: Sample Type

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.0867U ± 0.126 (0.273) C:91% T:NA | pCi/L | 03/29/23 20:49 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.717 ± 0.378 (0.667) C:78% T:92% | pCi/L | 03/10/23 16:06 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.804U ± 0.504 (0.940) | pCi/L | 03/30/23 14:59 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORLF_1399
 Pace Project No.: 30566801

Sample: BD04095 MW-10 MS Lab ID: **30566801007** Collected: 02/22/23 14:30 Received: 03/02/23 11:00 Matrix: Water

PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|----------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 97.53 %REC ± NA (NA) C:NA T:NA | pCi/L | 03/29/23 20:49 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 77.04 %REC ± NA (NA) C:NA T:NA | pCi/L | 03/10/23 16:06 | 15262-20-1 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORLF_1399

Pace Project No.: 30566801

Sample: BD04095 MW-10 MSD **Lab ID: 30566801008** Collected: 02/22/23 14:30 Received: 03/02/23 11:00 Matrix: Water

PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|----------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 104.24 %REC 6.66RPD ± NA (NA) C:NA T:NA | pCi/L | 03/29/23 20:49 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 86.03 %REC 11.02RPD ± NA (NA) C:NA T:NA | pCi/L | 03/10/23 16:06 | 15262-20-1 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORLF_1399

Pace Project No.: 30566801

Sample: BD04096 MW-13 Lab ID: **30566801009** Collected: 02/20/23 11:02 Received: 03/02/23 11:00 Matrix: Water

PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.138U ± 0.166 (0.349) C:96% T:NA | pCi/L | 03/29/23 20:11 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 1.09 ± 0.450 (0.703) C:75% T:88% | pCi/L | 03/10/23 16:06 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 1.23 ± 0.616 (1.05) | pCi/L | 03/30/23 14:59 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORLF_1399

Pace Project No.: 30566801

Sample: BD04097 MW-14 Lab ID: **30566801010** Collected: 02/20/23 12:02 Received: 03/02/23 11:00 Matrix: Water

PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | -0.0892U ± 0.0623 (0.287) C:95% T:NA | pCi/L | 03/30/23 09:42 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.625 ± 0.332 (0.577) C:80% T:89% | pCi/L | 03/13/23 13:13 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.625U ± 0.394 (0.864) | pCi/L | 03/30/23 15:00 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORLF_1399
 Pace Project No.: 30566801

Sample: BD04097 MW-14 MS Lab ID: **30566801011** Collected: 02/20/23 12:02 Received: 03/02/23 11:00 Matrix: Water

PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|----------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 88.31 %REC ± NA (NA) C:NA T:NA | pCi/L | 03/30/23 09:42 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 80.65 %REC ± NA (NA) C:NA T:NA | pCi/L | 03/13/23 13:13 | 15262-20-1 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORLF_1399

Pace Project No.: 30566801

Sample: BD04097 MW-14 MSD Lab ID: **30566801012** Collected: 02/20/23 12:02 Received: 03/02/23 11:00 Matrix: Water

PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|----------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 103.42 %REC 15.76RPD ± NA (NA) C:NA T:NA | pCi/L | 03/30/23 09:42 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 65.1 %REC 21.34RPD ± NA (NA) C:NA T:NA | pCi/L | 03/13/23 13:13 | 15262-20-1 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORLF_1399

Pace Project No.: 30566801

Sample: BD04098 MW-15 Lab ID: **30566801013** Collected: 02/20/23 13:17 Received: 03/02/23 11:00 Matrix: Water

PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.0764U ± 0.131 (0.296) C:99% T:NA | pCi/L | 03/29/23 20:10 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.739 ± 0.392 (0.693) C:75% T:94% | pCi/L | 03/10/23 16:07 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.815U ± 0.523 (0.989) | pCi/L | 03/30/23 14:59 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORLF_1399

Pace Project No.: 30566801

Sample: BD04099 MW-16 Lab ID: **30566801014** Collected: 02/20/23 14:45 Received: 03/02/23 11:00 Matrix: Water

PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.0563U ± 0.0906 (0.198) C:98% T:NA | pCi/L | 03/29/23 19:33 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.164U ± 0.336 (0.742) C:73% T:92% | pCi/L | 03/10/23 16:07 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.220U ± 0.427 (0.940) | pCi/L | 03/30/23 14:59 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORLF_1399

Pace Project No.: 30566801

Sample: BD04100 MW-16 Dup Lab ID: **30566801015** Collected: 02/20/23 14:45 Received: 03/02/23 11:00 Matrix: Water

PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.155U ± 0.132 (0.232) C:99% T:NA | pCi/L | 03/29/23 20:21 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.344U ± 0.329 (0.668) C:80% T:89% | pCi/L | 03/10/23 16:08 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.499U ± 0.461 (0.900) | pCi/L | 03/30/23 14:59 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORLF_1399

Pace Project No.: 30566801

Sample: BD04101 FB-1 Lab ID: **30566801016** Collected: 02/20/23 15:10 Received: 03/02/23 11:00 Matrix: Water

PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.0664U ± 0.124 (0.283) C:99% T:NA | pCi/L | 03/29/23 21:36 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.285U ± 0.301 (0.621) C:78% T:92% | pCi/L | 03/10/23 16:08 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.351U ± 0.425 (0.904) | pCi/L | 03/30/23 14:59 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORLF_1399

Pace Project No.: 30566801

Sample: BD04102 MW-17R Lab ID: **30566801017** Collected: 02/21/23 10:38 Received: 03/02/23 11:00 Matrix: Water

PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.121U ± 0.141 (0.286) C:99% T:NA | pCi/L | 03/29/23 21:35 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.286U ± 0.283 (0.581) C:76% T:107% | pCi/L | 03/10/23 16:08 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.407U ± 0.424 (0.867) | pCi/L | 03/30/23 14:59 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORLF_1399

Pace Project No.: 30566801

Sample: BD04103 MW-18 Lab ID: **30566801018** Collected: 02/21/23 11:40 Received: 03/02/23 11:00 Matrix: Water

PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.187U ± 0.164 (0.299) C:98% T:NA | pCi/L | 03/29/23 21:35 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.416U ± 0.341 (0.671) C:72% T:90% | pCi/L | 03/10/23 16:11 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.603U ± 0.505 (0.970) | pCi/L | 03/30/23 14:59 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORLF_1399

Pace Project No.: 30566801

Sample: BD04104 MW-19 Lab ID: **30566801019** Collected: 02/21/23 12:46 Received: 03/02/23 11:00 Matrix: Water

PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | -0.0227U ± 0.0771 (0.248) C:100% T:NA | pCi/L | 03/29/23 20:23 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.535U ± 0.342 (0.631) C:76% T:90% | pCi/L | 03/10/23 16:11 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.535U ± 0.419 (0.879) | pCi/L | 03/30/23 14:59 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORLF_1399
 Pace Project No.: 30566801

Sample: BD04105 MW-19 Dup Lab ID: **30566801020** Collected: 02/21/23 12:46 Received: 03/02/23 11:00 Matrix: Water

PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.181U ± 0.151 (0.263) C:95% T:NA | pCi/L | 03/30/23 09:42 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.319U ± 0.330 (0.679) C:75% T:87% | pCi/L | 03/10/23 16:11 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.500U ± 0.481 (0.942) | pCi/L | 03/30/23 14:59 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORLF_1399

Pace Project No.: 30566801

Sample: BD04106 MW-20 Lab ID: **30566801021** Collected: 02/21/23 14:00 Received: 03/02/23 11:00 Matrix: Water

PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.328 ± 0.205 (0.312) C:97% T:NA | pCi/L | 03/30/23 09:42 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.830 ± 0.395 (0.669) C:77% T:98% | pCi/L | 03/10/23 16:11 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 1.16 ± 0.600 (0.981) | pCi/L | 03/30/23 14:59 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORLF_1399
 Pace Project No.: 30566801

| | | | | |
|-----------------------------|----------------------------|---------------------------|--------------------------|---------------|
| Sample: BD04107 EB-1 | Lab ID: 30566801022 | Collected: 02/21/23 14:35 | Received: 03/02/23 11:00 | Matrix: Water |
| PWS: | Site ID: | Sample Type: | | |

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.167U ± 0.140 (0.247) C:98% T:NA | pCi/L | 03/30/23 09:42 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.0881U ± 0.345 (0.783) C:75% T:88% | pCi/L | 03/10/23 16:11 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.255U ± 0.485 (1.03) | pCi/L | 03/30/23 14:59 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORLF_1399

Pace Project No.: 30566801

Sample: BD04108 MW-11 Lab ID: **30566801023** Collected: 02/21/23 15:25 Received: 03/02/23 11:00 Matrix: Water

PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.280U ± 0.194 (0.324) C:91% T:NA | pCi/L | 03/30/23 09:42 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.419U ± 0.402 (0.823) C:72% T:87% | pCi/L | 03/10/23 16:11 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.699U ± 0.596 (1.15) | pCi/L | 03/30/23 14:59 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORLF_1399

Pace Project No.: 30566801

Sample: BD04109 MW-12V Lab ID: **30566801024** Collected: 02/22/23 12:35 Received: 03/02/23 11:00 Matrix: Water

PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.139U ± 0.169 (0.354) C:97% T:NA | pCi/L | 03/30/23 08:33 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.643 ± 0.329 (0.571) C:82% T:94% | pCi/L | 03/13/23 13:13 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.782U ± 0.498 (0.925) | pCi/L | 03/30/23 15:00 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORLF_1399

Pace Project No.: 30566801

Sample: BD04110 MW-12 Lab ID: **30566801025** Collected: 02/22/23 13:47 Received: 03/02/23 11:00 Matrix: Water

PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.186U ± 0.158 (0.291) C:98% T:NA | pCi/L | 03/30/23 08:29 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.864 ± 0.387 (0.619) C:79% T:92% | pCi/L | 03/13/23 17:07 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 1.05 ± 0.545 (0.910) | pCi/L | 03/30/23 15:00 | 7440-14-4 | |

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGORLF_1399

Pace Project No.: 30566801

QC Batch: 571662

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30566801010, 30566801011, 30566801012, 30566801024, 30566801025

METHOD BLANK: 2775793

Matrix: Water

Associated Lab Samples: 30566801010, 30566801011, 30566801012, 30566801024, 30566801025

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|------------------------------------|-------|----------------|------------|
| Radium-226 | 0.0310 ± 0.0800 (0.192) C:94% T:NA | pCi/L | 03/30/23 09:42 | |

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGORLF_1399

Pace Project No.: 30566801

QC Batch: 571663

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30566801010, 30566801011, 30566801012, 30566801024, 30566801025

METHOD BLANK: 2775794

Matrix: Water

Associated Lab Samples: 30566801010, 30566801011, 30566801012, 30566801024, 30566801025

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|-------------------------------------|-------|----------------|------------|
| Radium-228 | -0.0779 ± 0.273 (0.657) C:80% T:89% | pCi/L | 03/13/23 13:13 | |

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGORLF_1399

Pace Project No.: 30566801

| | | | |
|-------------------------|--|-----------------------|---------------------------------------|
| QC Batch: | 571658 | Analysis Method: | EPA 9315 |
| QC Batch Method: | EPA 9315 | Analysis Description: | 9315 Total Radium |
| | | Laboratory: | Pace Analytical Services - Greensburg |
| Associated Lab Samples: | 30566801001, 30566801002, 30566801003, 30566801004, 30566801005, 30566801006, 30566801007, 30566801008, 30566801009, 30566801013, 30566801014, 30566801015, 30566801016, 30566801017, 30566801018, 30566801019, 30566801020, 30566801021, 30566801022, 30566801023 | | |

METHOD BLANK: 2775780 Matrix: Water

Associated Lab Samples: 30566801001, 30566801002, 30566801003, 30566801004, 30566801005, 30566801006, 30566801007,
30566801008, 30566801009, 30566801013, 30566801014, 30566801015, 30566801016, 30566801017,
30566801018, 30566801019, 30566801020, 30566801021, 30566801022, 30566801023

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|--------------------------------------|-------|----------------|------------|
| Radium-226 | -0.0242 ± 0.0393 (0.143) C:100% T:NA | pCi/L | 03/29/23 20:49 | |

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGORLF_1399
Pace Project No.: 30566801

| | | | |
|-------------------------|--|-----------------------|---------------------------------------|
| QC Batch: | 571660 | Analysis Method: | EPA 9320 |
| QC Batch Method: | EPA 9320 | Analysis Description: | 9320 Radium 228 |
| | | Laboratory: | Pace Analytical Services - Greensburg |
| Associated Lab Samples: | 30566801001, 30566801002, 30566801003, 30566801004, 30566801005, 30566801006, 30566801007, 30566801008, 30566801009, 30566801013, 30566801014, 30566801015, 30566801016, 30566801017, 30566801018, 30566801019, 30566801020, 30566801021, 30566801022, 30566801023 | | |

METHOD BLANK: 2775784 Matrix: Water

Associated Lab Samples: 30566801001, 30566801002, 30566801003, 30566801004, 30566801005, 30566801006, 30566801007,
30566801008, 30566801009, 30566801013, 30566801014, 30566801015, 30566801016, 30566801017,
30566801018, 30566801019, 30566801020, 30566801021, 30566801022, 30566801023

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|-----------------------------------|-------|----------------|------------|
| Radium-228 | 0.369 ± 0.302 (0.596) C:79% T:94% | pCi/L | 03/10/23 16:05 | |

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QUALIFIERS

Project: WMWGORLF_1399

Pace Project No.: 30566801

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGORLF_1399

Pace Project No.: 30566801

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-------------------|-----------------|----------|-------------------|------------------|
| 30566801001 | BD04090 MW-5 | EPA 9315 | 571658 | | |
| 30566801002 | BD04091 MW-7 | EPA 9315 | 571658 | | |
| 30566801003 | BD04092 MW-8 | EPA 9315 | 571658 | | |
| 30566801004 | BD04093 MW-6 | EPA 9315 | 571658 | | |
| 30566801005 | BD04094 FB-2 | EPA 9315 | 571658 | | |
| 30566801006 | BD04095 MW-10 | EPA 9315 | 571658 | | |
| 30566801007 | BD04095 MW-10 MS | EPA 9315 | 571658 | | |
| 30566801008 | BD04095 MW-10 MSD | EPA 9315 | 571658 | | |
| 30566801009 | BD04096 MW-13 | EPA 9315 | 571658 | | |
| 30566801010 | BD04097 MW-14 | EPA 9315 | 571662 | | |
| 30566801011 | BD04097 MW-14 MS | EPA 9315 | 571662 | | |
| 30566801012 | BD04097 MW-14 MSD | EPA 9315 | 571662 | | |
| 30566801013 | BD04098 MW-15 | EPA 9315 | 571658 | | |
| 30566801014 | BD04099 MW-16 | EPA 9315 | 571658 | | |
| 30566801015 | BD04100 MW-16 Dup | EPA 9315 | 571658 | | |
| 30566801016 | BD04101 FB-1 | EPA 9315 | 571658 | | |
| 30566801017 | BD04102 MW-17R | EPA 9315 | 571658 | | |
| 30566801018 | BD04103 MW-18 | EPA 9315 | 571658 | | |
| 30566801019 | BD04104 MW-19 | EPA 9315 | 571658 | | |
| 30566801020 | BD04105 MW-19 Dup | EPA 9315 | 571658 | | |
| 30566801021 | BD04106 MW-20 | EPA 9315 | 571658 | | |
| 30566801022 | BD04107 EB-1 | EPA 9315 | 571658 | | |
| 30566801023 | BD04108 MW-11 | EPA 9315 | 571658 | | |
| 30566801024 | BD04109 MW-12V | EPA 9315 | 571662 | | |
| 30566801025 | BD04110 MW-12 | EPA 9315 | 571662 | | |
| 30566801001 | BD04090 MW-5 | EPA 9320 | 571660 | | |
| 30566801002 | BD04091 MW-7 | EPA 9320 | 571660 | | |
| 30566801003 | BD04092 MW-8 | EPA 9320 | 571660 | | |
| 30566801004 | BD04093 MW-6 | EPA 9320 | 571660 | | |
| 30566801005 | BD04094 FB-2 | EPA 9320 | 571660 | | |
| 30566801006 | BD04095 MW-10 | EPA 9320 | 571660 | | |
| 30566801007 | BD04095 MW-10 MS | EPA 9320 | 571660 | | |
| 30566801008 | BD04095 MW-10 MSD | EPA 9320 | 571660 | | |
| 30566801009 | BD04096 MW-13 | EPA 9320 | 571660 | | |
| 30566801010 | BD04097 MW-14 | EPA 9320 | 571663 | | |
| 30566801011 | BD04097 MW-14 MS | EPA 9320 | 571663 | | |
| 30566801012 | BD04097 MW-14 MSD | EPA 9320 | 571663 | | |
| 30566801013 | BD04098 MW-15 | EPA 9320 | 571660 | | |
| 30566801014 | BD04099 MW-16 | EPA 9320 | 571660 | | |
| 30566801015 | BD04100 MW-16 Dup | EPA 9320 | 571660 | | |
| 30566801016 | BD04101 FB-1 | EPA 9320 | 571660 | | |
| 30566801017 | BD04102 MW-17R | EPA 9320 | 571660 | | |
| 30566801018 | BD04103 MW-18 | EPA 9320 | 571660 | | |
| 30566801019 | BD04104 MW-19 | EPA 9320 | 571660 | | |
| 30566801020 | BD04105 MW-19 Dup | EPA 9320 | 571660 | | |
| 30566801021 | BD04106 MW-20 | EPA 9320 | 571660 | | |

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGORLF_1399

Pace Project No.: 30566801

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-------------------|--------------------------|----------|-------------------|------------------|
| 30566801022 | BD04107 EB-1 | EPA 9320 | 571660 | | |
| 30566801023 | BD04108 MW-11 | EPA 9320 | 571660 | | |
| 30566801024 | BD04109 MW-12V | EPA 9320 | 571663 | | |
| 30566801025 | BD04110 MW-12 | EPA 9320 | 571663 | | |
| 30566801001 | BD04090 MW-5 | Total Radium Calculation | 577499 | | |
| 30566801002 | BD04091 MW-7 | Total Radium Calculation | 577499 | | |
| 30566801003 | BD04092 MW-8 | Total Radium Calculation | 577499 | | |
| 30566801004 | BD04093 MW-6 | Total Radium Calculation | 577499 | | |
| 30566801005 | BD04094 FB-2 | Total Radium Calculation | 577499 | | |
| 30566801006 | BD04095 MW-10 | Total Radium Calculation | 577499 | | |
| 30566801009 | BD04096 MW-13 | Total Radium Calculation | 577499 | | |
| 30566801010 | BD04097 MW-14 | Total Radium Calculation | 577500 | | |
| 30566801013 | BD04098 MW-15 | Total Radium Calculation | 577499 | | |
| 30566801014 | BD04099 MW-16 | Total Radium Calculation | 577499 | | |
| 30566801015 | BD04100 MW-16 Dup | Total Radium Calculation | 577499 | | |
| 30566801016 | BD04101 FB-1 | Total Radium Calculation | 577499 | | |
| 30566801017 | BD04102 MW-17R | Total Radium Calculation | 577499 | | |
| 30566801018 | BD04103 MW-18 | Total Radium Calculation | 577499 | | |
| 30566801019 | BD04104 MW-19 | Total Radium Calculation | 577499 | | |
| 30566801020 | BD04105 MW-19 Dup | Total Radium Calculation | 577499 | | |
| 30566801021 | BD04106 MW-20 | Total Radium Calculation | 577499 | | |
| 30566801022 | BD04107 EB-1 | Total Radium Calculation | 577499 | | |
| 30566801023 | BD04108 MW-11 | Total Radium Calculation | 577499 | | |
| 30566801024 | BD04109 MW-12V | Total Radium Calculation | 577500 | | |
| 30566801025 | BD04110 MW-12 | Total Radium Calculation | 577500 | | |

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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: Renee Jernigan & Blaine Denton | Company Name: Alabama Power Co. | Brooke Caton | Page: 1 Of 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040 | Copy To: APCO10755638 | Address: 744 Highway 87 GSC Bldg #8 CCR | Pace Quote: Project Name: Plant Gorgas CCB Landfills | 744 Highway 87 GSC Bldg #8 Pace Project Manager: Skyler Richmond | Regulatory Agency: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Email To: thwill@southerncc.com | Purchase Order #: 205-684-6247 | Pace Quote: Project Number: WMNGORLF_1399 | Pace Profile #: 167383 | | State / Location: AL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phone: Requested Due Date: Normal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th colspan="2">SAMPLE ID</th> <th colspan="2">COLLECTED</th> <th colspan="2">Preservatives</th> </tr> <tr> <th>#</th> <th>Description</th> <th>Station Name</th> <th>Location_Code</th> <th>Sample Duplicate</th> <th>Preservative</th> </tr> </thead> <tbody> <tr><td>1</td><td>BD04090</td><td>MW-5</td><td>APCO-GS-CCB-MW-5</td><td>Matrix Spike/Matrix Spike Duplicate</td><td></td></tr> <tr><td>2</td><td>BD04091</td><td>MW-7</td><td>APCO-GS-CCB-MW-7</td><td>Matrix Spike/Matrix Spike Duplicate</td><td></td></tr> <tr><td>3</td><td>BD04092</td><td>MW-8</td><td>APCO-GS-CCB-MW-8</td><td>Matrix Spike/Matrix Spike Duplicate</td><td></td></tr> <tr><td>4</td><td>BD04093</td><td>MW-6</td><td>APCO-GS-CCB-MW-6</td><td>Matrix Spike/Matrix Spike Duplicate</td><td></td></tr> <tr><td>5</td><td>BD04094</td><td>FB-2</td><td>APCO-GS-CCB-FB-Q2</td><td>Matrix Spike/Matrix Spike Duplicate</td><td></td></tr> <tr><td>6</td><td>BD04095</td><td>MW-10</td><td>APCO-GS-CCB-MW-10</td><td>Matrix Spike/Matrix Spike Duplicate</td><td></td></tr> <tr><td>7</td><td>BD04096</td><td>MW-13</td><td>APCO-GS-CCB-MW-13</td><td>Matrix Spike/Matrix Spike Duplicate</td><td></td></tr> <tr><td>8</td><td>BD04097</td><td>MW-14</td><td>APCO-GS-CCB-MW-14</td><td>Matrix Spike/Matrix Spike Duplicate</td><td></td></tr> <tr><td>9</td><td>BD04098</td><td>MW-15</td><td>APCO-GS-CCB-MW-15</td><td>Matrix Spike/Matrix Spike Duplicate</td><td></td></tr> <tr><td>10</td><td>BD04099</td><td>MW-16</td><td>APCO-GS-CCB-MW-16</td><td>Matrix Spike/Matrix Spike Duplicate</td><td></td></tr> <tr><td>11</td><td>BD04100</td><td>MW-16 Dup</td><td>APCO-GS-CCB-MW-16</td><td>Matrix Spike/Matrix Spike Duplicate</td><td></td></tr> <tr><td>12</td><td>BD04101</td><td>FB-1</td><td>APCO-GS-CCB-FB-01</td><td>Matrix Spike/Matrix Spike Duplicate</td><td></td></tr> </tbody> </table> | | | | | | SAMPLE ID | | COLLECTED | | Preservatives | | # | Description | Station Name | Location_Code | Sample Duplicate | Preservative | 1 | BD04090 | MW-5 | APCO-GS-CCB-MW-5 | Matrix Spike/Matrix Spike Duplicate | | 2 | BD04091 | MW-7 | APCO-GS-CCB-MW-7 | Matrix Spike/Matrix Spike Duplicate | | 3 | BD04092 | MW-8 | APCO-GS-CCB-MW-8 | Matrix Spike/Matrix Spike Duplicate | | 4 | BD04093 | MW-6 | APCO-GS-CCB-MW-6 | Matrix Spike/Matrix Spike Duplicate | | 5 | BD04094 | FB-2 | APCO-GS-CCB-FB-Q2 | Matrix Spike/Matrix Spike Duplicate | | 6 | BD04095 | MW-10 | APCO-GS-CCB-MW-10 | Matrix Spike/Matrix Spike Duplicate | | 7 | BD04096 | MW-13 | APCO-GS-CCB-MW-13 | Matrix Spike/Matrix Spike Duplicate | | 8 | BD04097 | MW-14 | APCO-GS-CCB-MW-14 | Matrix Spike/Matrix Spike Duplicate | | 9 | BD04098 | MW-15 | APCO-GS-CCB-MW-15 | Matrix Spike/Matrix Spike Duplicate | | 10 | BD04099 | MW-16 | APCO-GS-CCB-MW-16 | Matrix Spike/Matrix Spike Duplicate | | 11 | BD04100 | MW-16 Dup | APCO-GS-CCB-MW-16 | Matrix Spike/Matrix Spike Duplicate | | 12 | BD04101 | FB-1 | APCO-GS-CCB-FB-01 | Matrix Spike/Matrix Spike Duplicate | |
| SAMPLE ID | | COLLECTED | | Preservatives | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| # | Description | Station Name | Location_Code | Sample Duplicate | Preservative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | BD04090 | MW-5 | APCO-GS-CCB-MW-5 | Matrix Spike/Matrix Spike Duplicate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | BD04091 | MW-7 | APCO-GS-CCB-MW-7 | Matrix Spike/Matrix Spike Duplicate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | BD04092 | MW-8 | APCO-GS-CCB-MW-8 | Matrix Spike/Matrix Spike Duplicate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | BD04093 | MW-6 | APCO-GS-CCB-MW-6 | Matrix Spike/Matrix Spike Duplicate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | BD04094 | FB-2 | APCO-GS-CCB-FB-Q2 | Matrix Spike/Matrix Spike Duplicate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | BD04095 | MW-10 | APCO-GS-CCB-MW-10 | Matrix Spike/Matrix Spike Duplicate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | BD04096 | MW-13 | APCO-GS-CCB-MW-13 | Matrix Spike/Matrix Spike Duplicate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | BD04097 | MW-14 | APCO-GS-CCB-MW-14 | Matrix Spike/Matrix Spike Duplicate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | BD04098 | MW-15 | APCO-GS-CCB-MW-15 | Matrix Spike/Matrix Spike Duplicate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | BD04099 | MW-16 | APCO-GS-CCB-MW-16 | Matrix Spike/Matrix Spike Duplicate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | BD04100 | MW-16 Dup | APCO-GS-CCB-MW-16 | Matrix Spike/Matrix Spike Duplicate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | BD04101 | FB-1 | APCO-GS-CCB-FB-01 | Matrix Spike/Matrix Spike Duplicate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th colspan="2">REINCUISHED BY / AFFILIATION</th> <th colspan="2">ACCEPTED BY / AFFILIATION</th> <th colspan="2">SAMPLE CONDITIONS</th> </tr> <tr> <th>DATE</th> <th>TIME</th> <th>DATE</th> <th>TIME</th> <th>DATE</th> <th>TIME</th> </tr> </thead> <tbody> <tr> <td>2/24/2023</td> <td>9:46</td> <td>3/23/2023</td> <td>3:28</td> <td>3/23/2023</td> <td>3:28</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | | | | | REINCUISHED BY / AFFILIATION | | ACCEPTED BY / AFFILIATION | | SAMPLE CONDITIONS | | DATE | TIME | DATE | TIME | DATE | TIME | 2/24/2023 | 9:46 | 3/23/2023 | 3:28 | 3/23/2023 | 3:28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REINCUISHED BY / AFFILIATION | | ACCEPTED BY / AFFILIATION | | SAMPLE CONDITIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DATE | TIME | DATE | TIME | DATE | TIME | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2/24/2023 | 9:46 | 3/23/2023 | 3:28 | 3/23/2023 | 3:28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| ADDITIONAL COMMENTS | | ADDITIONAL COMMENTS | | ADDITIONAL COMMENTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SAMPLE NAME AND SIGNATURE | PRINT Name of SAMPLER: | SAMPLE NAME AND SIGNATURE | PRINT Name of SAMPLER: | SAMPLE NAME AND SIGNATURE | PRINT Name of SAMPLER: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brooke Caton/ APC GTL | | 3/23/2023 | 3/23/2023 | 3/23/2023 | 3/23/2023 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| WO# : 30566801  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TEMP IN C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Received on Name (NY) Custody Seal or Signature Date Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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 | Company Name: Alabama Power Co. | State / Location: AL | Residual Chlorine (Y/N) |
| Address: 744 Highway 87 GSC Bldg #8 | Copy To: Renee Jernigan & Blaine Denton | Address: 744 Highway 87 GSC Bldg #8 | | | |
| Calera, AL 35040 | | | | | |
| Email To: thwill@southernrc.com | Purchase Order #: APC10755638 | Date Quota: CCR | | | |
| Phone: 205-664-6101 | Project Name: Plant Gorgas CCB Landfills | Page Project Manager: Skyley Richmond | | | |
| Requested Due Date: Normal | Project Number: WMM/GORLF_1399 | Page Profile #: 16783 | | | |
| SAMPLE ID <small>One Character per box. [A-Z, 0-9] . - Sample Ids must be unique</small> | | | | | |
| # | Description | Station Name Location_Code | Site Name Facility_ID | DATE | TIME |
| 1 | BDD4102 | APCO-GS-CCB-MW-17R | APCO_Gorgas_CCBLandfills | GW | G 2/21/2023 10:38 |
| 2 | BDD4103 | MW-18 | APCO_Gorgas_CCBLandfills | GW | G 2/21/2023 11:40 |
| 3 | BDD4104 | MW-19 | APCO_Gorgas_CCBLandfills | GW | G 2/21/2023 12:46 |
| 4 | BDD4105 | MW-19 Dup | APCO_Gorgas_CCBLandfills | GW | G 2/21/2023 12:46 |
| 5 | BDD4106 | MW-20 | APCO_Gorgas_CCBLandfills | GW | G 2/21/2023 14:00 |
| 6 | BDD4107 | EB-1 | APCO_Gorgas_CCB_EB-01 | GW | G 2/21/2023 14:35 |
| 7 | BDD4108 | MW-11 | APCO_Gorgas_CCB-MW-11 | GW | G 2/21/2023 15:25 |
| 8 | BDD4109 | MW-12V | APCO_Gorgas_CCB-MW-12V | GW | G 2/22/2023 12:35 |
| 9 | BDD4110 | MW-12 | APCO_Gorgas_CCB-MW-12 | GW | G 2/22/2023 13:47 |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| ADDITIONAL COMMENTS | | | | | |
| | | REQUISITIONED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION |
| | | Brooke Caton/ APC GTL | 2/24/2023 | 9:46 | <i>By J. J. Shaffer</i> |
| WO#: 30566801 | | | | | |
| PM: SCR Due Date: 03/30/23 | | SAMPLER NAME AND SIGNATURE <small>PRINT Name of SAMPLER:</small> <small>SIGNATURE of SAMPLER:</small> | | TEMP IN C <small>Received on _____</small> <small>Custody Seal Date _____</small> <small>Sampled Date _____</small> <small>Interpreted Date _____</small> <small>Revised Date _____</small> <small>See (Y/N)</small> | |
| SAMPLE CONDITIONS <small>DATE TIME</small> <small>DATE TIME</small> <small>DATE TIME</small> <small>DATE TIME</small> | | | | | |
| 3-2-23 11:00 | | | | | |

|  ANALYTICAL SERVICES | DC#_Title: ENV-FRM-GBUR-0088 v04_Sample Condition Upon Receipt-Pittsburgh | | |
|--|---|---|---|
| | WO# : 30566801 Effective Date: 02/03/2023 PM: SCR Due Date: 03/30/23 CLIENT: ALABAMA PWR | | |
| Client Name: <u>Alabama Power Company</u> | | | |
| Courier: <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Client <input type="checkbox"/> Commercial <input type="checkbox"/> Pace <input type="checkbox"/> Other | | | |
| Tracking Number: <u>615402546805</u> | | | |
| Custody Seal on Cooler/Box Present: | | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Thermometer Used: | | Type of Ice: Wet Blue <u>None</u> | Labeled By <u>TH</u> Tempted By <u>-</u> |
| Cooler Temperature: Observed Temp <u>-</u> °C | | Correction Factor: <u>-</u> °C | Final Temp: <u>-</u> °C |
| Temp should be above freezing to 6°C | | | |
| Comments: | Yes | No | NA |
| Chain of Custody Present | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Chain of Custody Filled Out: -Were client corrections present on COC | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Chain of Custody Relinquished | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample Labels match COC: -Includes date/time/ID Matrix: <u>WT</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Short Hold Time Analysis (<72hr remaining): | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Rush Turn Around Time Requested: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sufficient Volume: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Correct Containers Used: -Pace Containers Used | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Containers Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Orthophosphate field filtered: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Hex Cr Aqueous samples field filtered: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Organic Samples checked for dechlorination | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Filtered volume received for dissolved tests: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| All containers checked for preservation: exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| All containers meet method preservation requirements: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8260C/D: Headspace in VOA Vials (> 6mm) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 624.1: Headspace in VOA Vials (0mm) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Trip Blank Present: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Rad Samples Screened <0.5 mrem/hr. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 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 Pilot Geogas Off Lands
 Site 16788

Page 1 of 2

Profile Number
16788
 Notes

| Sample Line Item | Matrix | Amber Glass | Plastic | Vials | Other |
|------------------|--------|-------------|---------|-------|-------|
| 1 | WT | AG1H | BP2U | DG9S | BGU |
| 2 | | AG3U | BP1U | VG9T | GN |
| 3 | | AG5U | BP2S | VG9H | GCUB |
| 4 | | AG3S | BP3C | BP3U | ZPLC |
| 5 | | AG5T | BP1N | WGKU | WG FU |
| 6 | | | | VOK | |
| 7 | | | | VG9U | |
| 8 | | | | VG9T | |
| 9 | | | | VG9H | |
| 10 | | | | BP3S | |
| 11 | | | | BP3N | |
| 12 | | | | BP3U | |

Container Codes

WO# : 30566801

PN: SCR Due Date: 03/30/23
 CLIENT: ALABAMA PWR

| | | | | |
|------|------|------|------|--------------------|
| GCUB | 12GN | GN | EZI | 5g Encore |
| 12GN | SP5T | SP5T | VOAK | Kit Volatile Solid |
| SP5T | BP1N | BP1N | I | Wipe/Swab |
| BP1N | BP1U | BP1U | ZPLC | Siploc Bag |
| BP1U | BP3S | BP3N | WT | Water |
| BP3S | BP3N | BP3U | SL | Solid |
| BP3N | BP3U | BP3C | OL | Non-Aq Liquid |
| BP3U | BP3C | BP2S | WP | Wipe |
| BP3C | BP2S | BP2U | | |

| Glass | | | | |
|-------|----------------------------------|------|------------------------------------|------|
| GIN | 1 Gallon Jug with HNO3 | DG9S | 40mL amber VOA vial H2SO4 | GCUB |
| AG5U | 100mL amber glass unpreserved | VG9U | 40mL clear VOA vial | 12GN |
| AG5T | 100mL amber glass Na Thiosulfate | VG9T | 40mL clear VOA vial Na Thiosulfate | SP5T |
| GJN | 1 Gallon Jug | VG9H | 40mL clear VOA vial HCl | BP1N |
| AG1S | 1L amber glass H2SO4 | JGFU | 1L plastic unpreserved | BP1U |
| AG1H | 1L amber glass HCl | VGFU | 250mL plastic H2SO4 | BP3S |
| AG1T | 1L amber glass Na Thiosulfate | BG2U | 250mL plastic HNO3 | BP3N |
| BG1U | 1L clear glass unpreserved | AG2U | 250mL plastic unpreserved | BP3U |
| AG3S | 250mL amber glass H2SO4 | WGKU | 250mL plastic NAOH | BP3C |
| AG3U | 250mL amber glass unpreserved | GN | 500mL plastic H2SO4 | BP2S |
| | | | 500mL plastic unpreserved | BP2U |

Client Pace® Georges Offshore
 Site WWT Profile Number 16788
 Page 2 of 2 Notes

| Sample Line Item | Matrix | Amber Glass | Plastic | Vials | Other |
|------------------|--------|-------------|---------|-------|-------|
| 13 | WT | AG5U | BP1N | VG9T | VOAK |
| 14 | WT | AG3H | BP1U | VG9H | VG9U |
| 15 | | AG3S | BP2S | BP3U | BP3S |
| 16 | | AG5T | BP3C | BP3N | BP3U |
| 17 | | | | | |
| 18 | | | | | |
| 19 | | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |

Container Codes

| 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 |

| 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 |
| BC1U | 1L clear glass unpreserved |
| AG3S | 250mL amber glass H2SO4 |
| AG3U | 250mL amber glass unpreserved |
| DG9S | 40mL amber VOA via H2SO4 |
| VG9U | 40mL clear VOA via |
| VG9T | 40mL clear VOA via Na Thiosulfate |
| VG9H | 40mL clear VOA via HCl |
| JGFU | 4oz amber wide jar |
| VWGFU | 4oz wide jar unpreserved |
| BG2U | 500mL clear glass unpreserved |
| AG2U | 500mL amber glass unpreserved |
| VWGKU | 8oz wide jar unpreserved |
| GN | General |

DC#_Title: ENV-FRM-GBUR-0072 v02_Sample Container Count Offshore Projects
Effective Date: 1/11/2023

16788

Profile Number
Notes

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Client Site

iant Georges CUBIARDIN

Profile Number

Notes

WO# : 30566801

PM: SCR Due Date: 03/30/23

CLIENT: ALABAMA PWR

Plastic/Misc.

| | | | |
|------|-------------------------------|------|--------------------|
| GCUB | 1 gallon cubitainer | EZI | 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 | | |

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 | VGGT | 40mL clear VOA vial Na Thiosulfate |
| GJN | 1 Gallon Jug | VGGH | 40mL clear VOA vial HCl |
| AG1S | 1L amber glass H2SO4 | JGFU | 4oz amber wide jar |
| AG1H | 1L amber glass HCl | WG FU | 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 |



Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

| | | | | |
|---|--|--|---|--|
| Method Blank Assessment | MB Sample ID: 2775794 MB Concentration: -0.078 MB 2 Sigma CSU: 0.273 MB MDC: 0.857 MB Numerical Performance Indicator: -0.56 MB Status vs Numerical Indicator: Pass MB Status vs MDC: Pass | Sample Matrix Spike Control Assessment Sample Collection Date: 2/20/2023 Sample I.D.: 30566801010 Sample MS I.D.: 30566801011 Sample MSD I.D.: 30566801012 Spike I.D.: 22-040 MS/MSD Decay Corrected Spike Concentration (pCi/mL): 33.489 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): 8.356 MSD Aliquot (L, g, F): 0.801 MSD Target Conc. (pCi/L, g, F): 8.359 MS Spike Uncertainty (calculated): 0.408 MSD Spike Uncertainty (calculated): 0.410 | MS/MSD 1 2/21/2023 30566812005 30566812006 30566812007 22-040 33.489 0.20 0.20 0.805 8.318 0.801 8.353 0.408 0.410 | |
| Laboratory Control Sample Assessment | LCS71855 Count Date: 3/3/2023 Spike I.D.: 22-040 Decay Corrected Spike Concentration (pCi/mL): 33.255 Volume Used (mL): 0.10 Aliquot Volume (L, g, F): 0.801 Target Conc. (pCi/L, g, F): 4.151 Uncertainty (Calculated): 0.203 Result (pCi/L, g, F): 4.630 LCS/LCSD 2 Sigma CSU (pCi/L, g, F): 1.057 Numerical Performance Indicator: 0.87 Percent Recovery: 111.54% Status vs Numerical Indicator: N/A Status vs Recovery: Pass Upper % Recovery Limit: 135% Lower % Recovery Limit: 60% | Sample Result 2 Sigma CSU (pCi/L, g, F): 0.332 Sample Matrix Spike Result: 7.354 Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): 1.484 Sample Matrix Spike Duplicate Result: 6.067 Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): 1.264 MS Numerical Performance Indicator: -1.994 MSD Numerical Performance Indicator: -4.174 MS Percent Recovery: 80.65% MSD Percent Recovery: 65.10% MS Status vs Numerical Indicator: Pass MSD Status vs Numerical Indicator: Fail*** MS Status vs Recovery: Pass MS/MSD Upper % Recovery Limits: 135% MS/MSD Lower % Recovery Limits: 60% | 0.332 7.354 1.484 6.067 1.264 -1.994 -4.174 80.65% 65.10% Pass Fail*** Pass Pass 135% 60% | |
| Duplicate Sample Assessment | Sample I.D.: 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 Recovery: Upper % Recovery Limit: Lower % Recovery Limit: | Enter Duplicate sample I.D.s if other than LCS/LCSD in the space below. See Below ## Duplicate Numerical Performance Indicator: Duplicate RPD: Duplicate Status vs Numerical Indicator: Duplicate Status vs Recovery: Upper % Recovery Limit: Lower % Recovery Limit: | Sample I.D.: 30566801010 Sample MS I.D.: 30566801011 Sample MSD I.D.: 30566801012 Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): 1.499 Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): 1.264 Duplicate Numerical Performance Indicator: 1.296 (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs Recovery: % RPD Limit: | 30566801010 30566801011 30566801012 7.364 1.499 6.067 1.264 1.296 21.34% Pass Pass 36% 36% |

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

VAC 3/14/23



Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

| | | | | |
|---|--|-----------|---|-----------------------|
| Test: | | Ra-226 | Sample Collection Date: | MS/MSD 1 2/22/2023 |
| Analyst: | | SLC | Sample I.D.: 30566801006 | |
| Date: | | 3/6/2023 | Sample MS I.D.: 30566801007 | |
| Worklist: | | 71852 | Sample MSD I.D.: 30566801008 | |
| Matrix: | | DW | Spike I.D.: 19-033 | |
| Method Blank Assessment | | | 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); MSD Spike Uncertainty (calculated); MSD Spike Uncertainty (calculated); | |
| MB Sample ID | | 2775780 | MSD Spike Uncertainty (calculated); MSD Spike Uncertainty (calculated); | |
| MB concentration: | | -0.024 | 0.20 | |
| M/B Counting Uncertainty: | | 0.039 | 0.20 | |
| MB MDC: | | 0.143 | 0.309 | |
| MB Numerical Performance Indicator: | | -1.21 | 15.572 | |
| MB Status vs Numerical Indicator: | | N/A | | |
| MB Status vs. MDC: | | Pass | | |
| Laboratory Control Sample Assessment | | | Sample Result Counting Uncertainty (pCi/L, g, F); Sample Matrix Spike Result; Matrix Spike Result Counting Uncertainty (pCi/L, g, F); Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F); MSD Numerical Performance Indicator; | |
| Count Date: | | LCSD71852 | 15.273 | |
| Spike I.D.: | | LCSD71852 | 0.126 | |
| 3/30/2023 | | 3/30/2023 | Sample Result Spike Result; | |
| Decay Corrected Spike Concentration (pCi/ml): | | 19-033 | 1.022 | |
| 24.018 | | 24.018 | 18.292 | |
| Volume Used (ml): | | 0.10 | 0.10 | |
| Aliquot Volume (L, g, F): | | 0.500 | 0.501 | |
| Target Conc. (pCi/L, g, F): | | 4.800 | 4.792 | |
| Uncertainty (Calculated): | | 0.058 | 0.058 | |
| Result (pCi/L, g, F): | | 4.635 | 4.831 | |
| LCS/LCSD Counting Uncertainty (pCi/L, g, F): | | 0.453 | 0.457 | |
| Numerical Performance Indicator: | | -0.71 | 0.17 | |
| Percent Recovery: | | 96.56% | 100.81% | |
| Status vs Numerical Indicator: | | N/A | N/A | |
| Status vs Recovery: | | Pass | Pass | |
| Upper % Recovery Limits: | | 125% | 125% | |
| Lower % Recovery Limits: | | 75% | 75% | |
| Duplicate Sample Assessment | | | Sample I.D.: 30566801006 Sample MS I.D.: 30566801007 Sample MSD I.D.: 30566801008 | |
| Sample I.D.: | | LCS71852 | Sample I.D.: 30566801006 Sample MS I.D.: 30566801007 Sample MSD I.D.: 30566801008 | |
| Duplicate Sample I.D.: | | LCSD71852 | Sample I.D.: 30566801006 Sample MS I.D.: 30566801007 Sample MSD I.D.: 30566801008 | |
| Sample Result (pCi/L, g, F): | | 4.635 | Sample Spike Result Counting Uncertainty (pCi/L, g, F); Sample Spike Duplicate Result Counting Uncertainty (pCi/L, g, F); MS/MSD Duplicate Status vs Numerical Indicator; (Based on the Percent Recoveries) MS/MSD Duplicate RD; MS/MSD Duplicate Status vs RPD; | |
| Sample Result Counting Uncertainty (pCi/L, g, F): | | 0.453 | 15.273 | |
| Sample Duplicate Result (pCi/L, g, F): | | 4.831 | 1.022 | |
| Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): | | 0.457 | 18.292 | |
| Are sample and/or duplicate results below RL? | | NO | 1.183 | |
| Duplicate Numerical Performance Indicator: | | -0.597 | -3.785 | |
| (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: | | 4.31% | 6.66% | |
| Duplicate Status vs Numerical Indicator: | | N/A | N/A | |
| Duplicate Status vs Recovery: | | Pass | Pass | |
| % RPD Limit: | | 25% | 25% | |

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:



Quality Control Sample Performance Assessment

Analyt Must Manually Enter All Fields Highlighted in Yellow.

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---------|-------------------|-------|-----------------|-------|---------|-------|-------------------------------------|------|-----------------------------------|-----|--------------------|------|---|----------------|---|-----------|-----------|-------------|-----------|-------------|--------|---|--------|-------------------|------|----------------------------|-------|-----------------------------|-------|---------------------------|-------|-----------------------|-------|--------------------------------------|-------|----------------------------------|------|-------------------|---------|--------------------------------|-----|---------------------|------|-------------------------|------|-------------------------|-----|---|--------------|---|------------------------|--|------------------------------|--|--|--|--|--|--|--|---|-------------|--|--|----------------|--|--|--|--------------------------|--|--------------|--|--|--------------|-------------|-----------------|-------------|------------------|-------------|-----------------------------|-------|---------------------------------------|-------|--|-------|--|-------|--|--------|---|--------|---|------|---------------------------------|------|--------------|-----|
| Method Blank Assessment <table border="1"> <tr> <td>MB Sample ID</td> <td>2775784</td> </tr> <tr> <td>MB concentration:</td> <td>0.369</td> </tr> <tr> <td>MB 2 Sigma CSU:</td> <td>0.302</td> </tr> <tr> <td>MB MDC:</td> <td>0.596</td> </tr> <tr> <td>MB Numerical Performance Indicator:</td> <td>2.40</td> </tr> <tr> <td>MB Status vs Numerical Indicator:</td> <td>N/A</td> </tr> <tr> <td>MB Status vs. MDC:</td> <td>Pass</td> </tr> </table> | MB Sample ID | 2775784 | MB concentration: | 0.369 | MB 2 Sigma CSU: | 0.302 | MB MDC: | 0.596 | MB Numerical Performance Indicator: | 2.40 | MB Status vs Numerical Indicator: | N/A | MB Status vs. MDC: | Pass | Laboratory Control Sample Assessment <table border="1"> <tr> <td>LCSD (Y or N)?</td> <td>N</td> </tr> <tr> <td>LCSD71853</td> <td>LCSD71853</td> </tr> <tr> <td>Count Date:</td> <td>3/10/2023</td> </tr> <tr> <td>Spike I.D.:</td> <td>22-040</td> </tr> <tr> <td>Decay Corrected Spike Concentration (pCi/mL):</td> <td>33.289</td> </tr> <tr> <td>Volume Used (mL):</td> <td>0.10</td> </tr> <tr> <td>Alliquot Volume (L, g, F):</td> <td>0.803</td> </tr> <tr> <td>Target Conc. (pCi/L, g, F):</td> <td>4.147</td> </tr> <tr> <td>Uncertainty (Calculated):</td> <td>0.203</td> </tr> <tr> <td>Result (pCi/L, g, F):</td> <td>4.599</td> </tr> <tr> <td>LCSD/LCSD 2 Sigma CSU (pCi/L, g, F):</td> <td>1.066</td> </tr> <tr> <td>Numerical Performance Indicator:</td> <td>0.82</td> </tr> <tr> <td>Percent Recovery:</td> <td>110.89%</td> </tr> <tr> <td>Status vs Numerical Indicator:</td> <td>N/A</td> </tr> <tr> <td>Status vs Recovery:</td> <td>Pass</td> </tr> <tr> <td>Upper % Recovery Limit:</td> <td>133%</td> </tr> <tr> <td>Lower % Recovery Limit:</td> <td>60%</td> </tr> </table> | LCSD (Y or N)? | N | LCSD71853 | LCSD71853 | Count Date: | 3/10/2023 | Spike I.D.: | 22-040 | Decay Corrected Spike Concentration (pCi/mL): | 33.289 | Volume Used (mL): | 0.10 | Alliquot Volume (L, g, F): | 0.803 | Target Conc. (pCi/L, g, F): | 4.147 | Uncertainty (Calculated): | 0.203 | Result (pCi/L, g, F): | 4.599 | LCSD/LCSD 2 Sigma CSU (pCi/L, g, F): | 1.066 | Numerical Performance Indicator: | 0.82 | Percent Recovery: | 110.89% | Status vs Numerical Indicator: | N/A | Status vs Recovery: | Pass | Upper % Recovery Limit: | 133% | Lower % Recovery Limit: | 60% | Duplicate Sample Assessment <table border="1"> <tr> <td>Sample I.D.:</td> <td>Enter Duplicate sample IDs if other than LCS/LCSD in the space below.</td> </tr> <tr> <td>Duplicate Sample I.D.:</td> <td></td> </tr> <tr> <td>Sample Result (pCi/L, g, F):</td> <td></td> </tr> <tr> <td>Sample Result 2 Sigma CSU (pCi/L, g, F):</td> <td></td> </tr> <tr> <td>Sample Duplicate Result (pCi/L, g, F):</td> <td></td> </tr> <tr> <td>Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):</td> <td></td> </tr> <tr> <td>Are sample and/or duplicate results below RL?</td> <td>See Below##</td> </tr> <tr> <td>Duplicate Numerical Performance Indicator:</td> <td></td> </tr> <tr> <td>Duplicate RPD:</td> <td></td> </tr> <tr> <td>Duplicate Status vs Numerical Indicator:</td> <td></td> </tr> <tr> <td>Duplicate Status vs RPD:</td> <td></td> </tr> <tr> <td>% RPD Limit:</td> <td></td> </tr> </table> | 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 <table border="1"> <tr> <td>Sample I.D.:</td> <td>30566801006</td> </tr> <tr> <td>Sample MS I.D.:</td> <td>30566801007</td> </tr> <tr> <td>Sample MSD I.D.:</td> <td>30566801008</td> </tr> <tr> <td>Sample Matrix Spike Result:</td> <td>7.149</td> </tr> <tr> <td>Sample Matrix Spike Duplicate Result:</td> <td>1.505</td> </tr> <tr> <td>Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):</td> <td>7.908</td> </tr> <tr> <td>Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):</td> <td>1.594</td> </tr> <tr> <td>Duplicate Numerical Performance Indicator:</td> <td>-0.679</td> </tr> <tr> <td>(Based on the Percent Recoveries) MS/MSD Duplicate RPD:</td> <td>11.02%</td> </tr> <tr> <td>MS/MSD Duplicate Status vs Numerical Indicator:</td> <td>Pass</td> </tr> <tr> <td>MS/MSD Duplicate Status vs RPD:</td> <td>Pass</td> </tr> <tr> <td>% RPD Limit:</td> <td>36%</td> </tr> </table> | Sample I.D.: | 30566801006 | Sample MS I.D.: | 30566801007 | Sample MSD I.D.: | 30566801008 | Sample Matrix Spike Result: | 7.149 | Sample Matrix Spike Duplicate Result: | 1.505 | Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): | 7.908 | Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 1.594 | Duplicate Numerical Performance Indicator: | -0.679 | (Based on the Percent Recoveries) MS/MSD Duplicate RPD: | 11.02% | MS/MSD Duplicate Status vs Numerical Indicator: | Pass | MS/MSD Duplicate Status vs RPD: | Pass | % RPD Limit: | 36% |
| MB Sample ID | 2775784 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MB concentration: | 0.369 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MB 2 Sigma CSU: | 0.302 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MB MDC: | 0.596 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MB Numerical Performance Indicator: | 2.40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MB Status vs Numerical Indicator: | N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MB Status vs. MDC: | Pass | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LCSD (Y or N)? | N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LCSD71853 | LCSD71853 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Count Date: | 3/10/2023 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spike I.D.: | 22-040 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Decay Corrected Spike Concentration (pCi/mL): | 33.289 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Volume Used (mL): | 0.10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alliquot Volume (L, g, F): | 0.803 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Target Conc. (pCi/L, g, F): | 4.147 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Uncertainty (Calculated): | 0.203 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Result (pCi/L, g, F): | 4.599 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LCSD/LCSD 2 Sigma CSU (pCi/L, g, F): | 1.066 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Numerical Performance Indicator: | 0.82 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Recovery: | 110.89% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Status vs Numerical Indicator: | N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Status vs Recovery: | Pass | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Upper % Recovery Limit: | 133% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lower % Recovery Limit: | 60% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sample I.D.: | 30566801006 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sample MS I.D.: | 30566801007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sample MSD I.D.: | 30566801008 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sample Matrix Spike Result: | 7.149 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sample Matrix Spike Duplicate Result: | 1.505 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): | 7.908 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 1.594 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Duplicate Numerical Performance Indicator: | -0.679 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Based on the Percent Recoveries) MS/MSD Duplicate RPD: | 11.02% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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:

VAT
3/13/23



Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

| | | | |
|--|--|--|---|
| Test: Analyst: Date: Worklist: Matrix: | | Ra-226 SLC 3/6/2023 71854 DW | MS/MSD 1 2/20/2023 30566801010 30566801011 30566801012 19-033 |
| Method Blank Assessment | MB Sample ID MB concentration: M/B Counting Uncertainty: MB MDC: MB Numerical Performance Indicator: MB Status vs Numerical Indicator: MB Status vs. MDC: | 2775793 0.031 0.080 0.192 0.76 N/A Pass | MS/MSD Decay Corrected Spike Concentration (pCi/mL); Spike Volume Used in MS (mL); Spike Volume Used in MSD (mL); MS Aliquot (L, g, F); MS Target Conc. (pCi/L, g, F); MSD Aliquot (L, g, F); MSD Target Conc. (pCi/L, g, F); MS Spike Uncertainty (calculated); MSD Spike Uncertainty (calculated); Sample Result: -0.089 0.028 |
| Laboratory Control Sample Assessment | LCSD (Y or N)? LCS71854 3/30/2023 | N LCS71854 19-033 | Sample Result Counting Uncertainty (pCi/L, g, F); Sample Matrix Spike Result: 13.990 0.061 0.131 Matrix Spike Result Counting Uncertainty (pCi/L, g, F); Sample Matrix Spike Duplicate Result: 18.258 0.986 13.986 Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F); MSD Numerical Performance Indicator: -3.546 1.010 13.511 MSD Numerical Performance Indicator: 0.972 88.31% 103.42% MSD Percent Recovery: N/A MS Status vs Numerical Indicator: N/A MS Status vs Numerical Indicator: Pass MS Status vs Recovery: Pass MS/MSD Upper % Recovery Limits: 125% MS/MSD Lower % Recovery Limits: 75% |
| Duplicate Sample Assessment | Sample I.D.: Duplicate Sample I.D.: Sample Result (pCi/L, g, F); Sample Result Counting Uncertainty (pCi/L, g, F); Sample Duplicate Result (pCi/L, g, F); Sample Duplicate Result Counting Uncertainty (pCi/L, g, F); Are Sample and/or duplicate results below RL? See Below #### | Sample I.D.: Sample I.D.: Sample MSD I.D.: Sample Matrix Spike Result: 13.990 0.986 13.511 Sample Matrix Spike Duplicate Result: 18.258 1.010 13.086 Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F); Duplicate Numerical Performance Indicator: -5.322 15.76% MS/MSD Duplicate Status vs Numerical Indicator: N/A MS/MSD Duplicate Status vs Recovery: Pass MS/MSD Upper % RPD Limit: 25% | Sample I.D.: Sample I.D.: Sample MSD I.D.: Sample Matrix Spike Result: 13.990 0.986 13.511 Sample Matrix Spike Duplicate Result: 18.258 1.010 13.086 Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F); Duplicate Numerical Performance Indicator: -5.322 15.76% MS/MSD Duplicate Status vs Numerical Indicator: N/A MS/MSD Duplicate Status vs Recovery: Pass MS/MSD Upper % RPD Limit: 25% |

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDL.

Comments:

Appendix D



Appendix D. Horizontal Groundwater Flow Velocity Calculations

Plant Gorgas Landfills

| 2023 First-Annual Monitoring Event | | | | | | | | |
|------------------------------------|---------------------|---------------------|----------|--------------------|------------------------|--------------------|---|--|
| Date of Measurement | MW-2 | MW-20 | Distance | Hydraulic Gradient | Hydraulic Conductivity | Effective Porosity | Calculated Groundwater Flow Velocity (ft/d) | Calculated Groundwater Flow Velocity (ft/yr) |
| | h ₁ (ft) | h ₂ (ft) | Δl (ft) | Δh/Δl (ft/ft) | K | n | | |
| 2/20/2023 | 419.04 | 314.45 | 3507.0 | 0.030 | 8.01 | 0.15 | 1.59 | 581.28 |
| | | | | | | | | |
| Date of Measurement | MW-3 | MW-6 | Distance | Hydraulic Gradient | Hydraulic Conductivity | Effective Porosity | Calculated Groundwater Flow Velocity (ft/d) | Calculated Groundwater Flow Velocity (ft/yr) |
| | h ₁ (ft) | h ₂ (ft) | Δl (ft) | Δh/Δl (ft/ft) | K | n | | |
| 2/20/2023 | 419.16 | 320.13 | 2970.0 | 0.033 | 8.01 | 0.15 | 1.78 | 649.90 |
| | | | | | | | | |
| Date of Measurement | MW-14 | MW-19 | Distance | Hydraulic Gradient | Hydraulic Conductivity | Effective Porosity | Calculated Groundwater Flow Velocity (ft/d) | Calculated Groundwater Flow Velocity (ft/yr) |
| | h ₁ (ft) | h ₂ (ft) | Δl (ft) | Δh/Δl (ft/ft) | K | n | | |
| 2/20/2023 | 341.59 | 300.73 | 1890.0 | 0.022 | 8.01 | 0.15 | 1.15 | 421.38 |

Notes:

ft=feet

ft/d = feet/day

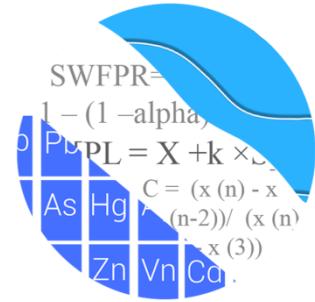
ft/ft = feet per foot

ft/yr = feet per year

ft/yr = feet per year

Appendix E

GROUNDWATER STATS
CONSULTING



May 24, 2023

Southern Company Services
Attn: Mr. Greg Dyer
3535 Colonnade Parkway
Birmingham, AL 35243

Re: Plant Gorgas CCR Landfill
1st Semi-Annual Statistical Analysis – February 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 February 2023 1st semi-annual sample event for Alabama Power Company's Plant Gorgas CCR Landfill. 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 this site for the CCR program in 2016. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** MW-1, MW-2, MW-3, and MW-4
- **Downgradient wells:** MW-5, MW-6, MW-7, and MW-8

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was prepared according to the Statistical Analysis Plan approved by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance, and Senior Advisor to Groundwater Stats Consulting. The analysis was reviewed by Kristina Rayner, Founder and Senior Statistician to Groundwater Stats Consulting.

The CCR program consists of the constituents listed below. The terms "parameters" and "constituents" are used interchangeably.

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). A substitution of the most recent reporting limit is used for non-detect data. Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells.

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on analysis of the spatial variability of groundwater quality data among wells upgradient of the facility; and 4) eligibility of downgradient wells when introwell 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): 15
- # Background Samples (Interwell): 108
- # Constituents: 7
- # Downgradient wells: 4

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 boron, calcium, fluoride, sulfate, and TDS
- Interwell prediction limits, combined with a 1-of-2 resample plan for chloride 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 (USEPA, 2009), data are analyzed using either parametric or non-parametric prediction limits as appropriate. Non-detects are handled as follows:

- 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 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 Summaries

Fall 2019

Intrawell prediction limits, which compare the most recent compliance sample from a given well to historical data from the same well, are periodically 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 boron, calcium, fluoride, sulfate, and TDS at all wells due to natural spatial variation for these parameters. In September 2019, historical data were evaluated for updating with newer data through May 2019 through the use of time series graphs and Tukey's outlier test to identify potential outliers, when necessary, as well as the Mann Whitney test for equality of medians. This process is described below for the 2021 update and requires a minimum of four new data points. During the 2019 screening, all background data sets for constituents using intrawell prediction limits were updated through May 2019 and a summary of these results was included with the Mann Whitney test section in that report.

Interwell prediction limits are used to compare the most recent sample from each downgradient well to statistical limits constructed from pooled upgradient well data for chloride and pH. As mentioned above, these limits are updated following each sampling event after screening for new outliers in upgradient wells. Data from upgradient wells are also periodically re-screened for newly developing trends, which may require adjustment of the background period to eliminate the trend. No adjustments were required in upgradient wells for constituents evaluated using interwell prediction limits.

Fall 2021

Outlier Analysis

Prior to constructing prediction limits, proposed background data--through February 2021 for constituents evaluated with intrawell prediction limits and through July 2021 for

constituents evaluated with interwell prediction limits--were reviewed through visual screening to identify any newly suspected outliers at all wells for boron, calcium, fluoride, sulfate, and TDS and at upgradient wells for chloride and pH. When identified as outliers, values were flagged with "o" and excluded to reduce variation, better represent background conditions, and provide limits that are conservative from a regulatory perspective.

High non-detect values for boron in upgradient well MW-4 and downgradient well MW-5, as well as a low non-detect value for fluoride in downgradient well MW-6 were flagged as outliers. Additionally, a low detected value of pH in upgradient well MW-3, high detected values of sulfate at upgradient well MW-1 and downgradient wells MW-7 and MW-8, and a high detected value TDS in upgradient well MW-1 were also 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 outliers follows this report (Figure C).

Intrawell – Mann-Whitney Evaluation

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 February 2021. When no statistically significant difference in medians between the two groups is found at a 99% confidence level, background data may be updated with 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:

Increasing

- Boron: MW-2 (upgradient)

Decreasing

- Fluoride: MW-8

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 Mann-Whitney test identified a statistically significant increase in median concentrations for boron in well MW-2, the difference resulted from reported non-detect or trace values in the most recent data. The test also identified a statistically significant decrease in the median concentration for fluoride in downgradient well MW-8; however, the magnitude of the decrease was marginal compared to the historical concentrations. Therefore, all background data sets for CCR Appendix III constituents that use introwell methods were updated. All records will be re-evaluated during the next background update.

Interwell – Trend Test Evaluation

The Sen's Slope/Mann Kendall trend test was used to evaluate the entire record of data through July 2021 from upgradient wells for parameters utilizing interwell prediction limits. When statistically significant increasing trends are identified in upgradient wells, the earlier portion of data may require deselection prior to construction of interwell statistical limits if the trending data would result in statistical limits that are not conservative from a regulatory perspective. No statistically significant trends were noted in upgradient wells; therefore, no adjustments were required.

Evaluation of Appendix III Parameters – February 2023

Prediction Limits

Introwell prediction limits, combined with a 1-of-2 resample plan, were constructed for boron, calcium, fluoride, sulfate, and TDS at each well using screened background data through February 2021 (Figure D). Introwell limits constructed from 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. This statistical method removes the element of variation across wells and eliminates the chance of mistaking natural spatial variation for a release from the facility. The February 2023 observation is compared to its respective background from the same well to determine whether initial exceedances are present. Note that the reporting limit for boron at wells MW-1, MW-2, and MW-3 increased from 0.05075 mg/L to 0.1015 mg/L, which increased the introwell prediction limit to the reporting limit. No significant changes occurred as a result of the reporting limit increase.

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed for chloride and pH (Figure E). Interwell prediction limits pool upgradient well data through February 2023 to establish a background limit for an individual constituent. The February

2023 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

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.

Complete prediction limits results and a summary of exceedances follow this letter (pages 13-16). Exceedances were identified for the following well/constituent pairs:

Intrawell:

- Fluoride: MW-1, MW-2 (both upgradient), MW-6, and MW-7

Interwell:

- Chloride: MW-5, MW-7, and MW-8
- pH: MW-5, MW-7, and MW-8

Trend Test Evaluation – Appendix III

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. The existence of similar trends in both upgradient and downgradient wells is an indication of natural variability in groundwater that is unrelated to practices at the site. A summary of the trend test results follows this letter (pages 17-18). Statistically significant trends were identified for the following well/constituent pairs:

Increasing

- Fluoride: MW-2 (upgradient)
- pH: MW-2 (upgradient) and MW-8

Decreasing

- Chloride: MW-8
- pH: MW-1 (upgradient)

Evaluation of Appendix IV Parameters – February 2023

Data from upgradient wells for Appendix IV parameters were assessed for outliers during previous analyses. No new outliers were flagged during this analysis.

During the previous update, high values for cobalt and lead in upgradient well MW-3 were flagged in order to construct statistical limits that are conservative (i.e., lower) from a regulatory perspective. Also, a previously flagged value of selenium (0.0209 mg/L) was unflagged in well MW-3. A summary of flagged outliers follows this report (Figure C).

In accordance with Alabama Department of Environmental Management, the Groundwater Protection Standards (GWPS) were updated during the 2021 2nd semi-annual statistical analysis. The GWPS will be updated again during the 2023 2nd semi-annual statistical analysis. The methodology used to create these GWPS is described below.

Interwell Upper Tolerance Limits

First, background limits were determined using tolerance limits constructed from pooled upgradient well data through July 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 report (page 19).

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 20) in the confidence interval comparisons described below. Exceptions are noted in Figure H for beryllium and cadmium. For these two parameters, the MCL's were used as the GWPS rather than the higher background UTLS to maintain the more conservative standard.

Confidence Intervals

Confidence intervals were then constructed on downgradient wells using a maximum of the most recent 8 samples through February 2023 for each of the Appendix IV parameters

(Figure I). These intervals were constructed as either parametric or nonparametric confidence intervals depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals 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; therefore, they were deselected prior to construction of confidence intervals. A list of deselected well/constituent pairs follows this report. Each confidence interval was compared with the corresponding GWPS. Only when the entire confidence interval is above the GWPS is the well/constituent pair considered to exceed its respective standard. Both a tabular summary and graphical presentation of the confidence interval results follow this letter (page 21). No exceedances were noted for any of the well/constituent pairs.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Gorgas CCR Landfill. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

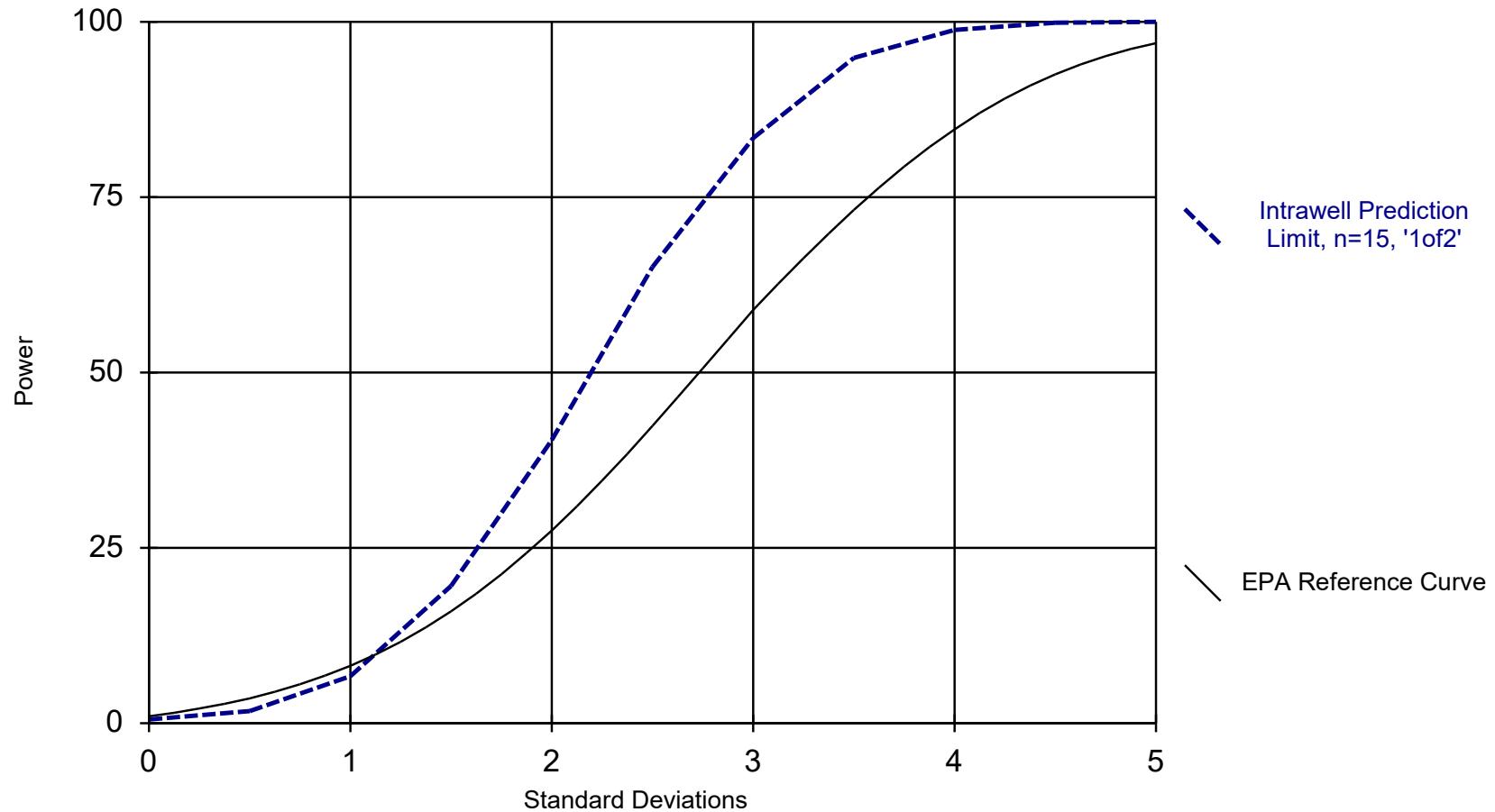


Andrew Collins
Project Manager



Kristina Rayner
Senior Statistician

Intrawell Power Curve

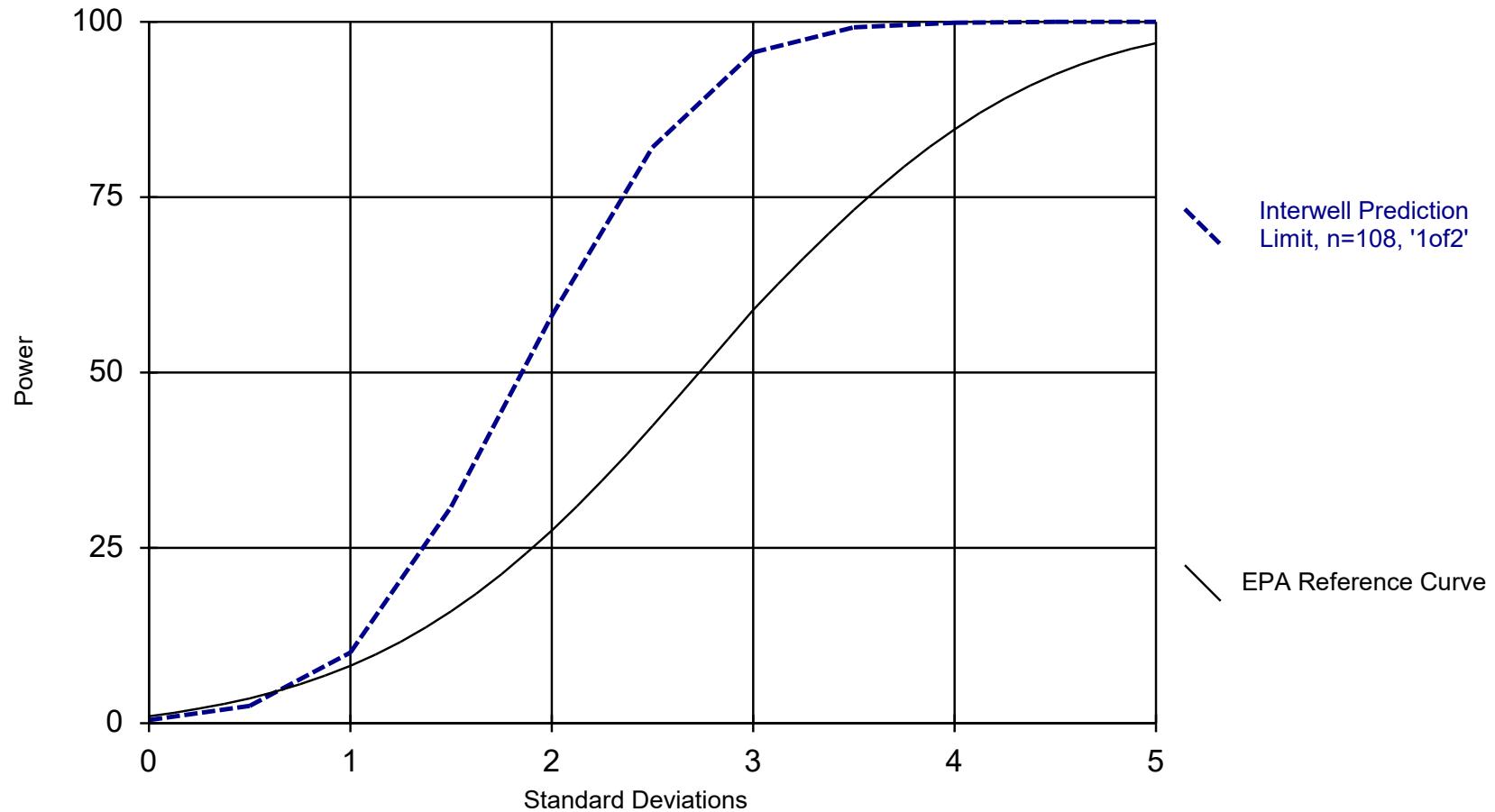


Kappa = 2.115, based on 4 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 5/18/2023 8:49 AM

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Interwell Power Curve



Kappa = 1.745, based on 4 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 5/18/2023 8:50 AM

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

100% Non-Detects: Appendix IV Downgradient

Analysis Run 5/17/2023 2:45 PM View: Appendix IV
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Antimony (mg/L)
MW-5, MW-6, MW-7, MW-8

Beryllium (mg/L)
MW-5, MW-7, MW-8

Cadmium (mg/L)
MW-5, MW-7, MW-8

Lead (mg/L)
MW-5, MW-7

Mercury (mg/L)
MW-5, MW-6, MW-7, MW-8

Selenium (mg/L)
MW-8

Thallium (mg/L)
MW-7, MW-8

Appendix III Intrawell Prediction Limits - Significant Results

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF Printed 5/17/2023, 2:40 PM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bg N</u> | <u>Bg Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|------------------------|-------------|-------------------|-------------------|-------------|----------------|-------------|-------------|----------------|------------------|-------------|----------------|------------------|--------------|--------------------|
| Fluoride, total (mg/L) | MW-1 | 0.1878 | n/a | 2/20/2023 | 0.221 | Yes | 24 | 0.1172 | 0.03644 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Fluoride, total (mg/L) | MW-2 | 0.2528 | n/a | 2/20/2023 | 0.267 | Yes | 24 | 0.1456 | 0.05538 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Fluoride, total (mg/L) | MW-6 | 0.1576 | n/a | 2/22/2023 | 0.173 | Yes | 16 | 0.1372 | 0.009847 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Fluoride, total (mg/L) | MW-7 | 0.2144 | n/a | 2/21/2023 | 0.216 | Yes | 17 | 0.1848 | 0.01443 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |

Appendix III Intrawell Prediction Limits - All Results

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF Printed 5/17/2023, 2:40 PM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bg N</u> | <u>Bg Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|-------------------------------------|-------------|-------------------|-------------------|-------------|----------------|-------------|-------------|----------------|------------------|-------------|----------------|------------------|--------------|-----------------------------|
| Boron, total (mg/L) | MW-1 | 0.1015 | n/a | 2/20/2023 | 0.1015ND | No | 23 | n/a | n/a | 26.09 | n/a | n/a | 0.003415 | NP Intra (normality) 1 of 2 |
| Boron, total (mg/L) | MW-2 | 0.1015 | n/a | 2/20/2023 | 0.1015ND | No | 23 | n/a | n/a | 21.74 | n/a | n/a | 0.003415 | NP Intra (normality) 1 of 2 |
| Boron, total (mg/L) | MW-3 | 0.1015 | n/a | 2/20/2023 | 0.1015ND | No | 23 | n/a | n/a | 21.74 | n/a | n/a | 0.003415 | NP Intra (normality) 1 of 2 |
| Boron, total (mg/L) | MW-4 | 0.05253 | n/a | 2/21/2023 | 0.0408J | No | 22 | 0.04512 | 0.003776 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Boron, total (mg/L) | MW-5 | 0.04034 | n/a | 2/21/2023 | 0.0315J | No | 15 | 0.03281 | 0.003562 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Boron, total (mg/L) | MW-6 | 0.1015 | n/a | 2/22/2023 | 0.0356J | No | 16 | 0.07909 | 0.01082 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Boron, total (mg/L) | MW-7 | 0.0854 | n/a | 2/21/2023 | 0.0645J | No | 15 | 0.07347 | 0.005639 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Boron, total (mg/L) | MW-8 | 0.0831 | n/a | 2/21/2023 | 0.0609J | No | 16 | n/a | n/a | 0 | n/a | n/a | 0.006456 | NP Intra (normality) 1 of 2 |
| Calcium, total (mg/L) | MW-1 | 243 | n/a | 2/20/2023 | 151 | No | 23 | n/a | n/a | 0 | n/a | n/a | 0.003415 | NP Intra (normality) 1 of 2 |
| Calcium, total (mg/L) | MW-2 | 214.8 | n/a | 2/20/2023 | 160 | No | 23 | 174.2 | 20.8 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Calcium, total (mg/L) | MW-3 | 416 | n/a | 2/20/2023 | 210 | No | 23 | 300 | 59.54 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Calcium, total (mg/L) | MW-4 | 386.1 | n/a | 2/21/2023 | 232 | No | 23 | 304.8 | 41.68 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Calcium, total (mg/L) | MW-5 | 459.6 | n/a | 2/21/2023 | 367 | No | 16 | 387 | 34.95 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Calcium, total (mg/L) | MW-6 | 500.3 | n/a | 2/22/2023 | 250 | No | 16 | 388.9 | 53.66 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Calcium, total (mg/L) | MW-7 | 343.5 | n/a | 2/21/2023 | 286 | No | 16 | 85434 | 15683 | 0 | None | x^2 | 0.00188 | Param Intra 1 of 2 |
| Calcium, total (mg/L) | MW-8 | 340 | n/a | 2/21/2023 | 327 | No | 16 | 303.1 | 17.76 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Fluoride, total (mg/L) | MW-1 | 0.1878 | n/a | 2/20/2023 | 0.221 | Yes | 24 | 0.1172 | 0.03644 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Fluoride, total (mg/L) | MW-2 | 0.2528 | n/a | 2/20/2023 | 0.267 | Yes | 24 | 0.1456 | 0.05538 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Fluoride, total (mg/L) | MW-3 | 0.5886 | n/a | 2/20/2023 | 0.379 | No | 24 | 0.3299 | 0.1336 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Fluoride, total (mg/L) | MW-4 | 0.4215 | n/a | 2/21/2023 | 0.415 | No | 24 | 0.1114 | 0.03425 | 0 | None | x^2 | 0.00188 | Param Intra 1 of 2 |
| Fluoride, total (mg/L) | MW-5 | 0.42 | n/a | 2/21/2023 | 0.319 | No | 17 | 0.3204 | 0.0485 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Fluoride, total (mg/L) | MW-6 | 0.1576 | n/a | 2/22/2023 | 0.173 | Yes | 16 | 0.1372 | 0.009847 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Fluoride, total (mg/L) | MW-7 | 0.2144 | n/a | 2/21/2023 | 0.216 | Yes | 17 | 0.1848 | 0.01443 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Fluoride, total (mg/L) | MW-8 | 0.2341 | n/a | 2/21/2023 | 0.212 | No | 17 | 0.21 | 0.01171 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Sulfate as SO4 (mg/L) | MW-1 | 1665 | n/a | 2/20/2023 | 1520 | No | 22 | 1461 | 104.1 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Sulfate as SO4 (mg/L) | MW-2 | 1274 | n/a | 2/20/2023 | 767 | No | 23 | 997.8 | 141.7 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Sulfate as SO4 (mg/L) | MW-3 | 3272 | n/a | 2/20/2023 | 2110 | No | 23 | 2451 | 421.1 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Sulfate as SO4 (mg/L) | MW-4 | 3143 | n/a | 2/21/2023 | 1930 | No | 23 | 2511 | 324 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Sulfate as SO4 (mg/L) | MW-5 | 2582 | n/a | 2/21/2023 | 2210 | No | 16 | 2304 | 133.9 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Sulfate as SO4 (mg/L) | MW-6 | 2274 | n/a | 2/22/2023 | 1870 | No | 16 | 2001 | 131.7 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Sulfate as SO4 (mg/L) | MW-7 | 1604 | n/a | 2/21/2023 | 1450 | No | 15 | 1324 | 132.3 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Sulfate as SO4 (mg/L) | MW-8 | 1640 | n/a | 2/21/2023 | 1510 | No | 15 | n/a | n/a | 0 | n/a | n/a | 0.007533 | NP Intra (normality) 1 of 2 |
| Total Dissolved Solids [TDS] (mg/L) | MW-1 | 2519 | n/a | 2/20/2023 | 2280 | No | 22 | 2197 | 164 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Total Dissolved Solids [TDS] (mg/L) | MW-2 | 2021 | n/a | 2/20/2023 | 1420 | No | 23 | 1643 | 193.7 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Total Dissolved Solids [TDS] (mg/L) | MW-3 | 5051 | n/a | 2/20/2023 | 3230 | No | 23 | 3729 | 678.1 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Total Dissolved Solids [TDS] (mg/L) | MW-4 | 4600 | n/a | 2/21/2023 | 3160 | No | 23 | 1.5e7 | 3201096 | 0 | None | x^2 | 0.00188 | Param Intra 1 of 2 |
| Total Dissolved Solids [TDS] (mg/L) | MW-5 | 4202 | n/a | 2/21/2023 | 3310 | No | 16 | 3794 | 196.6 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Total Dissolved Solids [TDS] (mg/L) | MW-6 | 3466 | n/a | 2/22/2023 | 2790 | No | 16 | 1.1e7 | 676605 | 0 | None | x^2 | 0.00188 | Param Intra 1 of 2 |
| Total Dissolved Solids [TDS] (mg/L) | MW-7 | 2590 | n/a | 2/21/2023 | 2220 | No | 16 | 6.3e16 | 2.6e16 | 0 | None | x^5 | 0.00188 | Param Intra 1 of 2 |
| Total Dissolved Solids [TDS] (mg/L) | MW-8 | 2808 | n/a | 2/21/2023 | 2370 | No | 16 | 2573 | 113.3 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |

Appendix III Interwell Prediction Limits - Significant Results

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF Printed 5/17/2023, 2:42 PM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bg N</u> | <u>Bg Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|------------------------|-------------|-------------------|-------------------|-------------|----------------|-------------|-------------|----------------|------------------|-------------|----------------|------------------|--------------|-----------------------------|
| Chloride, Total (mg/L) | MW-5 | 4.6 | n/a | 2/21/2023 | 5.25 | Yes | 108 | n/a | n/a | 2.778 | n/a | n/a | 0.0001702 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | MW-7 | 4.6 | n/a | 2/21/2023 | 6.12 | Yes | 108 | n/a | n/a | 2.778 | n/a | n/a | 0.0001702 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | MW-8 | 4.6 | n/a | 2/21/2023 | 4.86 | Yes | 108 | n/a | n/a | 2.778 | n/a | n/a | 0.0001702 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | MW-5 | 6.35 | 4.51 | 2/21/2023 | 6.5 | Yes | 109 | n/a | n/a | 0 | n/a | n/a | 0.0003345 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | MW-7 | 6.35 | 4.51 | 2/21/2023 | 6.72 | Yes | 109 | n/a | n/a | 0 | n/a | n/a | 0.0003345 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | MW-8 | 6.35 | 4.51 | 2/21/2023 | 6.75 | Yes | 109 | n/a | n/a | 0 | n/a | n/a | 0.0003345 | NP Inter (normality) 1 of 2 |

Appendix III Interwell Prediction Limits - All Results

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF Printed 5/17/2023, 2:42 PM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bg N</u> | <u>Bg Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|------------------------|-------------|-------------------|-------------------|-------------|----------------|-------------|-------------|----------------|------------------|-------------|----------------|------------------|------------------|-----------------------------|
| Chloride, Total (mg/L) | MW-5 | 4.6 | n/a | 2/21/2023 | 5.25 | Yes | 108 | n/a | n/a | 2.778 | n/a | n/a | 0.0001702 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | MW-6 | 4.6 | n/a | 2/22/2023 | 4.37 | No | 108 | n/a | n/a | 2.778 | n/a | n/a | 0.0001702 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | MW-7 | 4.6 | n/a | 2/21/2023 | 6.12 | Yes | 108 | n/a | n/a | 2.778 | n/a | n/a | 0.0001702 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | MW-8 | 4.6 | n/a | 2/21/2023 | 4.86 | Yes | 108 | n/a | n/a | 2.778 | n/a | n/a | 0.0001702 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | MW-5 | 6.35 | 4.51 | 2/21/2023 | 6.5 | Yes | 109 | n/a | n/a | 0 | n/a | n/a | 0.0003345 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | MW-6 | 6.35 | 4.51 | 2/22/2023 | 4.98 | No | 109 | n/a | n/a | 0 | n/a | n/a | 0.0003345 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | MW-7 | 6.35 | 4.51 | 2/21/2023 | 6.72 | Yes | 109 | n/a | n/a | 0 | n/a | n/a | 0.0003345 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | MW-8 | 6.35 | 4.51 | 2/21/2023 | 6.75 | Yes | 109 | n/a | n/a | 0 | n/a | n/a | 0.0003345 | NP Inter (normality) 1 of 2 |

Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF Printed 5/17/2023, 2:44 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> |
|------------------------|-------------|--------------|--------------|-----------------|-------------|----------|-------------|------------------|--------------|--------------|---------------|
| Chloride, Total (mg/L) | MW-8 | -23.35 | -100 | -81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-2 (bg) | 0.01459 | 183 | 131 | Yes | 28 | 0 | n/a | n/a | 0.01 | NP |
| pH, Field (SU) | MW-1 (bg) | -0.01675 | -154 | -124 | Yes | 27 | 0 | n/a | n/a | 0.01 | NP |
| pH, Field (SU) | MW-2 (bg) | 0.04641 | 169 | 124 | Yes | 27 | 0 | n/a | n/a | 0.01 | NP |
| pH, Field (SU) | MW-8 | 0.04545 | 156 | 87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |

Trend Tests - Prediction Limit Exceedances - All Results

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF Printed 5/17/2023, 2:44 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> |
|-------------------------------|------------------|-----------------|--------------|-----------------|-------------|-----------|-------------|------------------|--------------|--------------|---------------|
| Chloride, Total (mg/L) | MW-1 (bg) | -0.03183 | -67 | -124 | No | 27 | 0 | n/a | n/a | 0.01 | NP |
| Chloride, Total (mg/L) | MW-2 (bg) | -0.144 | -72 | -124 | No | 27 | 0 | n/a | n/a | 0.01 | NP |
| Chloride, Total (mg/L) | MW-3 (bg) | 0.07161 | 89 | 124 | No | 27 | 7.407 | n/a | n/a | 0.01 | NP |
| Chloride, Total (mg/L) | MW-4 (bg) | -0.06041 | -97 | -124 | No | 27 | 3.704 | n/a | n/a | 0.01 | NP |
| Chloride, Total (mg/L) | MW-5 | -0.1261 | -43 | -81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Chloride, Total (mg/L) | MW-7 | -4.869 | -73 | -81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Chloride, Total (mg/L) | MW-8 | -23.35 | -100 | -81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-1 (bg) | -0.003095 | -33 | -131 | No | 28 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-2 (bg) | 0.01459 | 183 | 131 | Yes | 28 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-3 (bg) | 0.002778 | 21 | 131 | No | 28 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-4 (bg) | 0.007162 | 85 | 131 | No | 28 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-6 | -0.00234 | -54 | -81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-7 | 0.001693 | 32 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| pH, Field (SU) | MW-1 (bg) | -0.01675 | -154 | -124 | Yes | 27 | 0 | n/a | n/a | 0.01 | NP |
| pH, Field (SU) | MW-2 (bg) | 0.04641 | 169 | 124 | Yes | 27 | 0 | n/a | n/a | 0.01 | NP |
| pH, Field (SU) | MW-3 (bg) | 0.03562 | 35 | 124 | No | 27 | 0 | n/a | n/a | 0.01 | NP |
| pH, Field (SU) | MW-4 (bg) | 0.01607 | 93 | 131 | No | 28 | 0 | n/a | n/a | 0.01 | NP |
| pH, Field (SU) | MW-5 | 0.01884 | 86 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| pH, Field (SU) | MW-7 | -0.01489 | -38 | -87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| pH, Field (SU) | MW-8 | 0.04545 | 156 | 87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |

Upper Tolerance Limits Summary Table

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF Printed 11/16/2021, 10:57 AM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bg N</u> | <u>Bg Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|-----------------------------------|-------------|-------------------|-------------|----------------|-------------|-------------|----------------|------------------|-------------|----------------|------------------|--------------|---------------|
| Antimony (mg/L) | n/a | 0.00143 | n/a | n/a | n/a | 96 | n/a | n/a | 93.75 | n/a | n/a | 0.007269 | NP Inter |
| Arsenic (mg/L) | n/a | 0.005 | n/a | n/a | n/a | 96 | n/a | n/a | 83.33 | n/a | n/a | 0.007269 | NP Inter |
| Barium (mg/L) | n/a | 0.0165 | n/a | n/a | n/a | 96 | n/a | n/a | 0 | n/a | n/a | 0.007269 | NP Inter |
| Beryllium (mg/L) | n/a | 0.0121 | n/a | n/a | n/a | 94 | n/a | n/a | 84.04 | n/a | n/a | 0.008054 | NP Inter |
| Cadmium (mg/L) | n/a | 0.00598 | n/a | n/a | n/a | 94 | n/a | n/a | 45.74 | n/a | n/a | 0.008054 | NP Inter |
| Chromium (mg/L) | n/a | 0.0105 | n/a | n/a | n/a | 96 | n/a | n/a | 89.58 | n/a | n/a | 0.007269 | NP Inter |
| Cobalt (mg/L) | n/a | 0.49 | n/a | n/a | n/a | 94 | n/a | n/a | 26.6 | n/a | n/a | 0.008054 | NP Inter |
| Combined Radium 226 + 228 (pCi/L) | n/a | 1.47 | n/a | n/a | n/a | 92 | n/a | n/a | 0 | n/a | n/a | 0.008924 | NP Inter |
| Fluoride, total (mg/L) | n/a | 0.63 | n/a | n/a | n/a | 100 | n/a | n/a | 0 | n/a | n/a | 0.005921 | NP Inter |
| Lead (mg/L) | n/a | 0.00108 | n/a | n/a | n/a | 95 | n/a | n/a | 95.79 | n/a | n/a | 0.007651 | NP Inter |
| Lithium (mg/L) | n/a | 0.419 | n/a | n/a | n/a | 96 | n/a | n/a | 0 | n/a | n/a | 0.007269 | NP Inter |
| Mercury (mg/L) | n/a | 0.0005 | n/a | n/a | n/a | 96 | n/a | n/a | 100 | n/a | n/a | 0.007269 | NP Inter |
| Molybdenum (mg/L) | n/a | 0.0002 | n/a | n/a | n/a | 96 | n/a | n/a | 97.92 | n/a | n/a | 0.007269 | NP Inter |
| Selenium (mg/L) | n/a | 0.0209 | n/a | n/a | n/a | 96 | n/a | n/a | 60.42 | n/a | n/a | 0.007269 | NP Inter |
| Thallium (mg/L) | n/a | 0.000226 | n/a | n/a | n/a | 96 | n/a | n/a | 96.88 | n/a | n/a | 0.007269 | NP Inter |

| GOR GAS CCR LANDFILL GWPS | | | |
|---------------------------|-------|------------|-------|
| Analyte | Units | Background | GWPS |
| Antimony | mg/L | 0.00143 | 0.006 |
| Arsenic | mg/L | 0.005 | 0.01 |
| Barium | mg/L | 0.0165 | 2 |
| Beryllium | mg/L | 0.0121 | 0.004 |
| Cadmium | mg/L | 0.00598 | 0.005 |
| Chromium | mg/L | 0.0105 | 0.1 |
| Cobalt | mg/L | 0.49 | 0.49 |
| Combined Radium-226/228 | pCi/L | 1.47 | 5 |
| Fluoride | mg/L | 0.63 | 4 |
| Lead | mg/L | 0.00108 | 0.015 |
| Lithium | mg/L | 0.419 | 0.419 |
| Mercury | mg/L | 0.0005 | 0.002 |
| Molybdenum | mg/L | 0.0002 | 0.1 |
| Selenium | mg/L | 0.0209 | 0.05 |
| Thallium | mg/L | 0.000226 | 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)

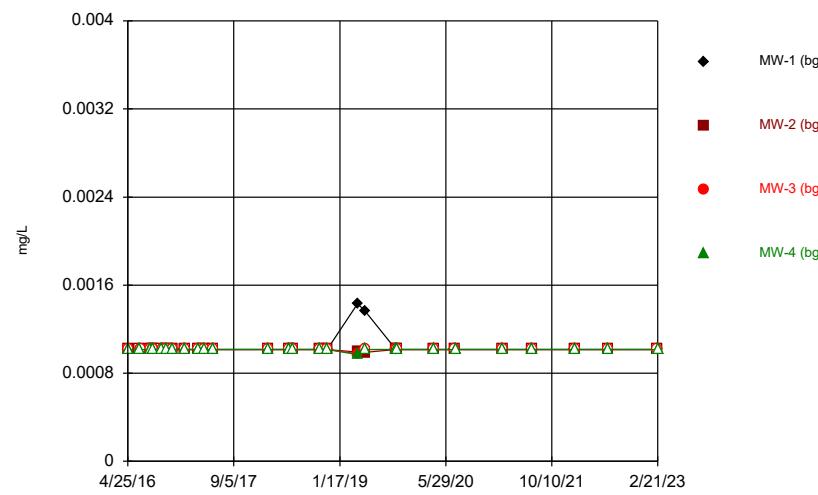
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF Printed 5/17/2023, 2:46 PM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Compliance</u> | <u>Sig.</u> | <u>N</u> | <u>Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|-----------------------------------|-------------|-------------------|-------------------|-------------------|-------------|----------|-------------|------------------|-------------|----------------|------------------|--------------|----------------|
| Arsenic (mg/L) | MW-5 | 0.005 | 0.00019 | 0.01 | No | 8 | 0.00164 | 0.002126 | 25 | None | No | 0.004 | NP (normality) |
| Arsenic (mg/L) | MW-6 | 0.005436 | 0.003264 | 0.01 | No | 8 | 0.00435 | 0.001025 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | MW-7 | 0.001617 | 0.001398 | 0.01 | No | 8 | 0.001508 | 0.0001031 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | MW-8 | 0.001656 | 0.00103 | 0.01 | No | 8 | 0.001338 | 0.0003428 | 0 | None | In(x) | 0.01 | Param. |
| Barium (mg/L) | MW-5 | 0.01287 | 0.01063 | 2 | No | 8 | 0.01175 | 0.001054 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-6 | 0.01516 | 0.01296 | 2 | No | 8 | 0.01406 | 0.001039 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-7 | 0.0147 | 0.01306 | 2 | No | 8 | 0.01389 | 0.0008043 | 0 | None | x^3 | 0.01 | Param. |
| Barium (mg/L) | MW-8 | 0.01457 | 0.0136 | 2 | No | 8 | 0.01409 | 0.0004581 | 0 | None | No | 0.01 | Param. |
| Beryllium (mg/L) | MW-6 | 0.0009721 | 0.0002071 | 0.004 | No | 8 | 0.0008748 | 0.0002821 | 50 | Kaplan-Meier | x^2 | 0.01 | Param. |
| Cadmium (mg/L) | MW-6 | 0.001305 | 0.00004582 | 0.005 | No | 8 | 0.0007151 | 0.0007993 | 37.5 | Kaplan-Meier | x^(1/3) | 0.01 | Param. |
| Chromium (mg/L) | MW-5 | 0.001015 | 0.00027 | 0.1 | No | 8 | 0.0009219 | 0.0002634 | 87.5 | None | No | 0.004 | NP (NDs) |
| Chromium (mg/L) | MW-6 | 0.00102 | 0.00024 | 0.1 | No | 8 | 0.0007406 | 0.0003859 | 62.5 | None | No | 0.004 | NP (NDs) |
| Chromium (mg/L) | MW-7 | 0.001015 | 0.00032 | 0.1 | No | 8 | 0.0009281 | 0.0002457 | 87.5 | None | No | 0.004 | NP (NDs) |
| Chromium (mg/L) | MW-8 | 0.001015 | 0.00025 | 0.1 | No | 8 | 0.0009194 | 0.0002705 | 87.5 | None | No | 0.004 | NP (NDs) |
| Cobalt (mg/L) | MW-5 | 0.005 | 0.000538 | 0.49 | No | 8 | 0.00246 | 0.002113 | 37.5 | None | No | 0.004 | NP (normality) |
| Cobalt (mg/L) | MW-6 | 0.4074 | 0.04205 | 0.49 | No | 8 | 0.2143 | 0.2004 | 0 | None | sqrt(x) | 0.01 | Param. |
| Cobalt (mg/L) | MW-7 | 0.006127 | 0.003563 | 0.49 | No | 8 | 0.004845 | 0.00121 | 0 | None | No | 0.01 | Param. |
| Cobalt (mg/L) | MW-8 | 0.008278 | 0.006947 | 0.49 | No | 8 | 0.007613 | 0.000628 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-5 | 0.8369 | 0.2596 | 5 | No | 8 | 0.5483 | 0.2723 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-6 | 2.522 | 0.1331 | 5 | No | 8 | 1.328 | 1.127 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-7 | 0.7205 | 0.291 | 5 | No | 8 | 0.5058 | 0.2026 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-8 | 2.19 | 0.398 | 5 | No | 8 | 0.8184 | 0.6442 | 0 | None | No | 0.004 | NP (normality) |
| Fluoride, total (mg/L) | MW-5 | 0.3348 | 0.2552 | 4 | No | 8 | 0.295 | 0.0375 | 0 | None | No | 0.01 | Param. |
| Fluoride, total (mg/L) | MW-6 | 0.1548 | 0.116 | 4 | No | 8 | 0.1354 | 0.01828 | 0 | None | No | 0.01 | Param. |
| Fluoride, total (mg/L) | MW-7 | 0.2435 | 0.1595 | 4 | No | 8 | 0.2015 | 0.03959 | 0 | None | No | 0.01 | Param. |
| Fluoride, total (mg/L) | MW-8 | 0.2308 | 0.1714 | 4 | No | 8 | 0.2011 | 0.02803 | 0 | None | No | 0.01 | Param. |
| Lead (mg/L) | MW-6 | 0.000457 | 0.0002 | 0.015 | No | 8 | 0.0002361 | 0.00008995 | 75 | None | No | 0.004 | NP (NDs) |
| Lead (mg/L) | MW-8 | 0.000203 | 0.000088 | 0.015 | No | 8 | 0.0001486 | 0.00005849 | 50 | None | No | 0.004 | NP (normality) |
| Lithium (mg/L) | MW-5 | 0.1267 | 0.09462 | 0.419 | No | 8 | 0.1107 | 0.01514 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | MW-6 | 0.2487 | 0.09719 | 0.419 | No | 8 | 0.1707 | 0.0862 | 0 | None | x^2 | 0.01 | Param. |
| Lithium (mg/L) | MW-7 | 0.131 | 0.0907 | 0.419 | No | 8 | 0.1068 | 0.01712 | 0 | None | No | 0.004 | NP (normality) |
| Lithium (mg/L) | MW-8 | 0.163 | 0.1263 | 0.419 | No | 8 | 0.1446 | 0.01732 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | MW-5 | 0.01 | 0.000945 | 0.1 | No | 8 | 0.004488 | 0.004566 | 37.5 | None | No | 0.004 | NP (normality) |
| Molybdenum (mg/L) | MW-6 | 0.0002823 | 0.00004206 | 0.1 | No | 8 | 0.0001941 | 0.00008803 | 50 | Kaplan-Meier | No | 0.01 | Param. |
| Molybdenum (mg/L) | MW-7 | 0.01 | 0.000846 | 0.1 | No | 8 | 0.004342 | 0.004686 | 37.5 | None | No | 0.004 | NP (normality) |
| Molybdenum (mg/L) | MW-8 | 0.0129 | 0.00031 | 0.1 | No | 8 | 0.005529 | 0.005636 | 37.5 | None | No | 0.004 | NP (normality) |
| Selenium (mg/L) | MW-5 | 0.01 | 0.00124 | 0.05 | No | 8 | 0.004927 | 0.004216 | 37.5 | None | No | 0.004 | NP (normality) |
| Selenium (mg/L) | MW-6 | 0.0019 | 0.001015 | 0.05 | No | 8 | 0.001126 | 0.0003129 | 87.5 | None | No | 0.004 | NP (NDs) |
| Selenium (mg/L) | MW-7 | 0.001015 | 0.000677 | 0.05 | No | 8 | 0.0009728 | 0.0001195 | 87.5 | None | No | 0.004 | NP (NDs) |
| Thallium (mg/L) | MW-5 | 0.000203 | 0.00007 | 0.002 | No | 8 | 0.0001864 | 0.00004702 | 87.5 | None | No | 0.004 | NP (NDs) |
| Thallium (mg/L) | MW-6 | 0.000203 | 0.00011 | 0.002 | No | 8 | 0.0001839 | 0.00003649 | 75 | None | No | 0.004 | NP (NDs) |

FIGURE A.

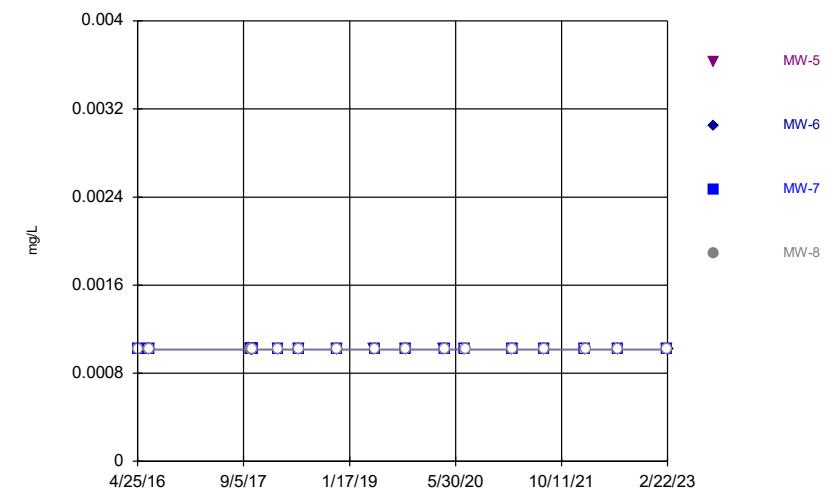
Sanitas™ v.9.6.37 Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Time Series



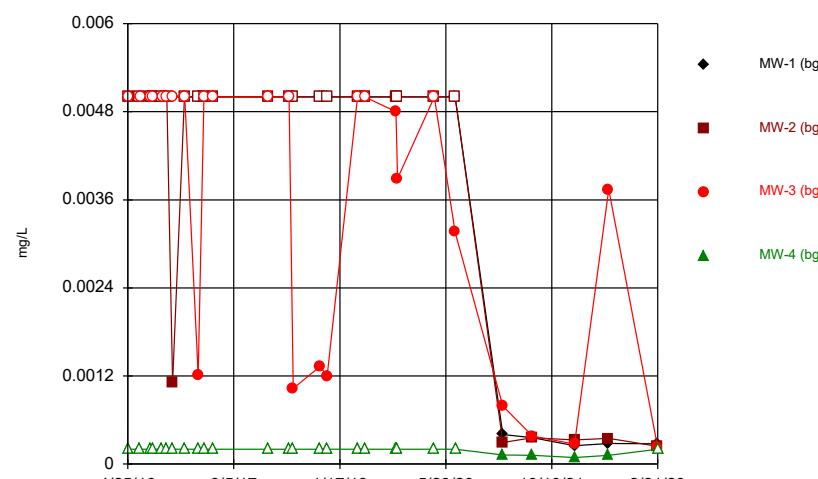
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Time Series



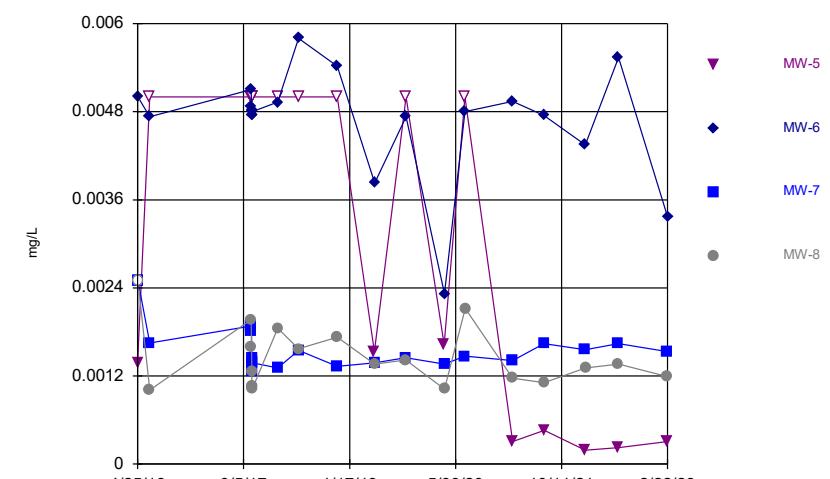
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Hollow symbols indicate censored values.

Time Series

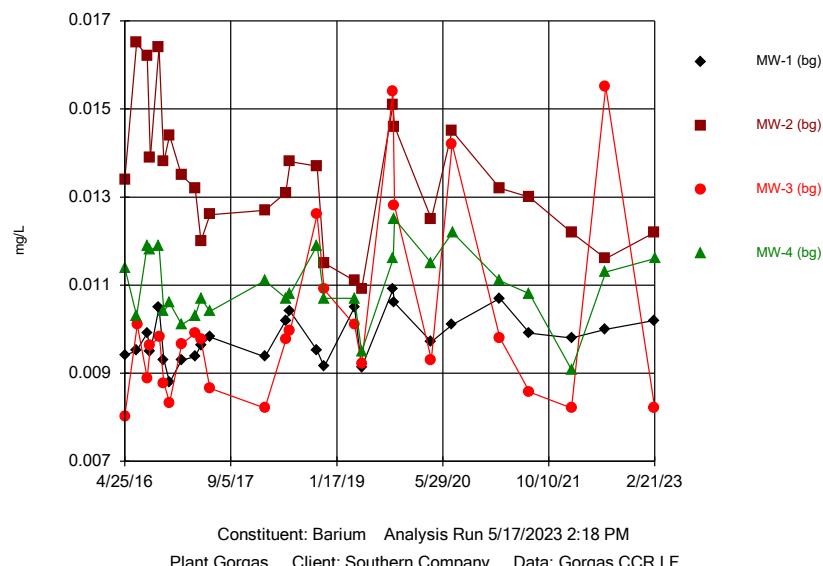


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Hollow symbols indicate censored values.

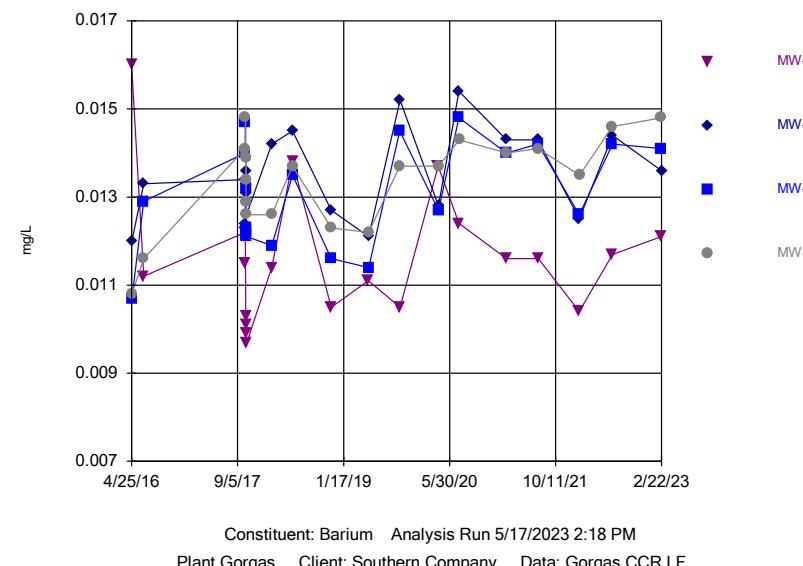
Time Series



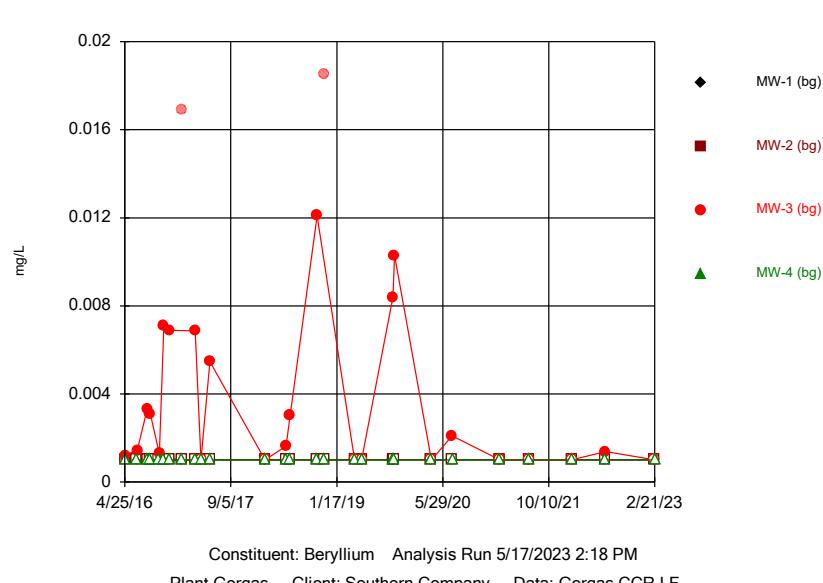
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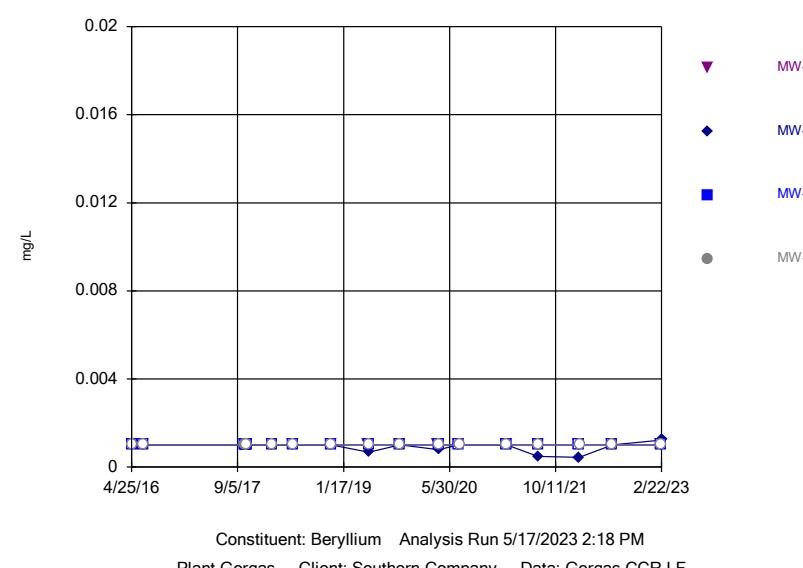
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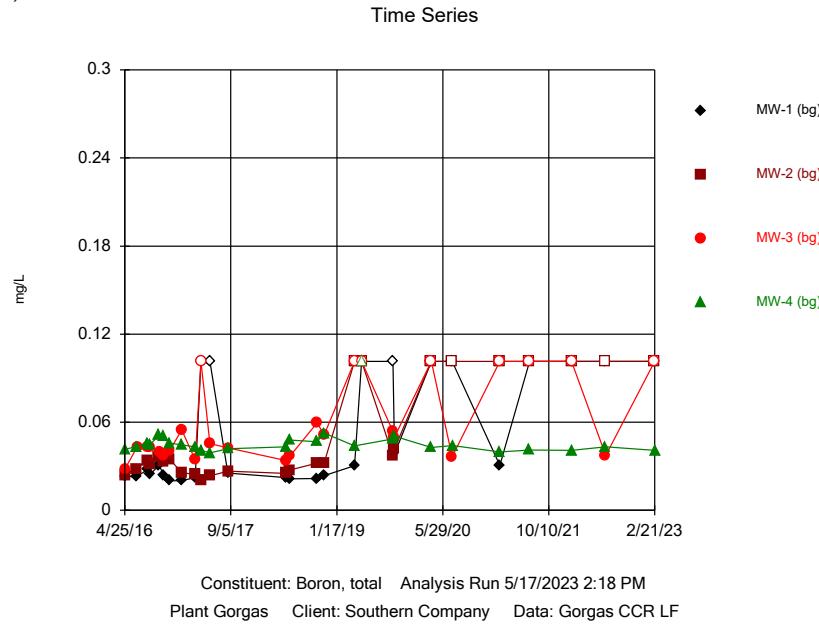
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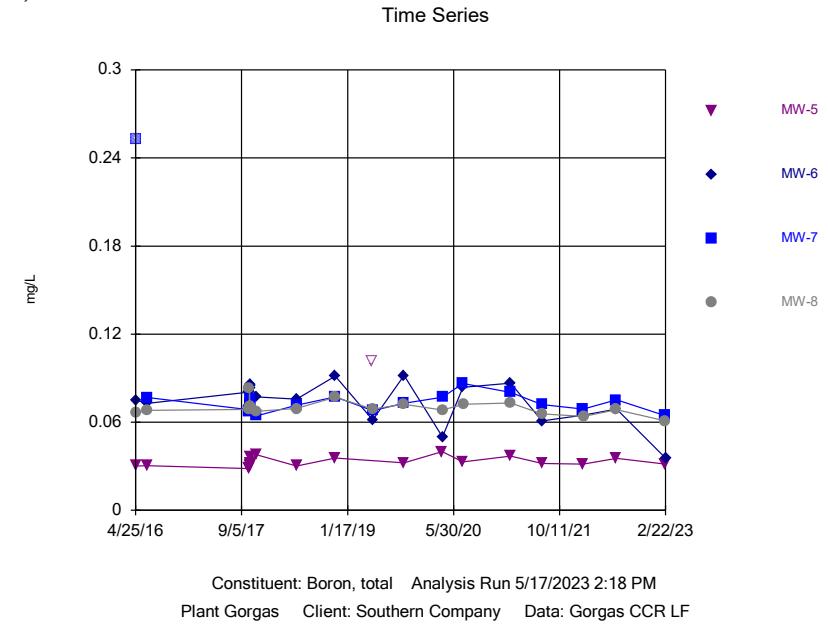
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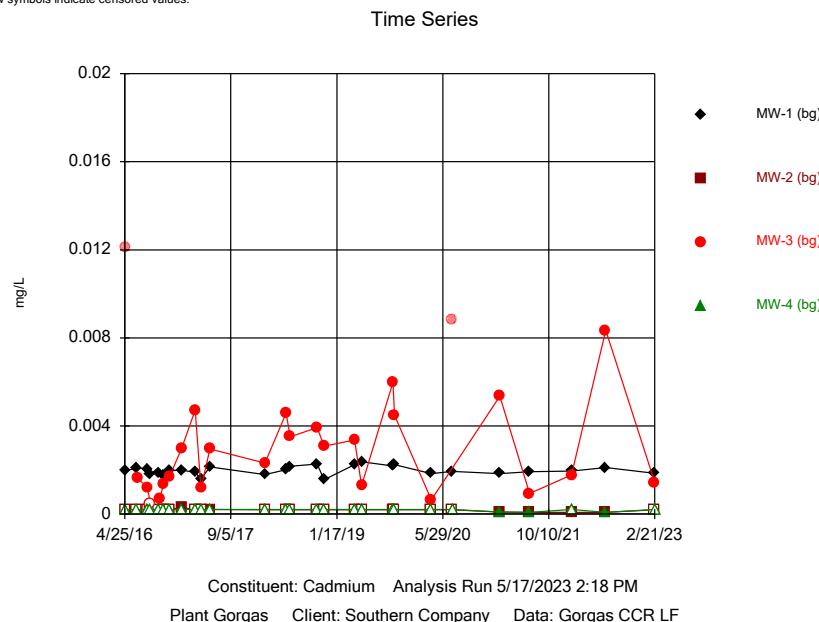
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Hollow symbols indicate censored values.



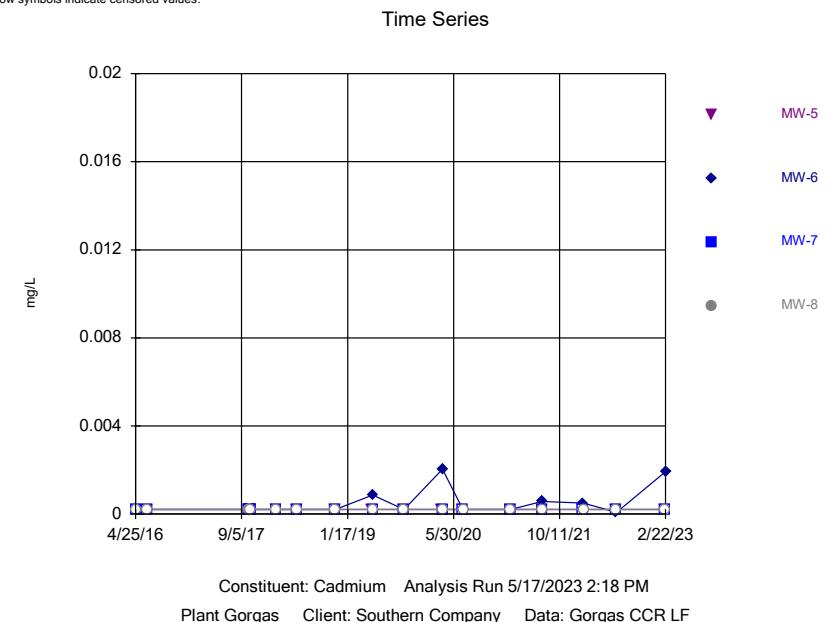
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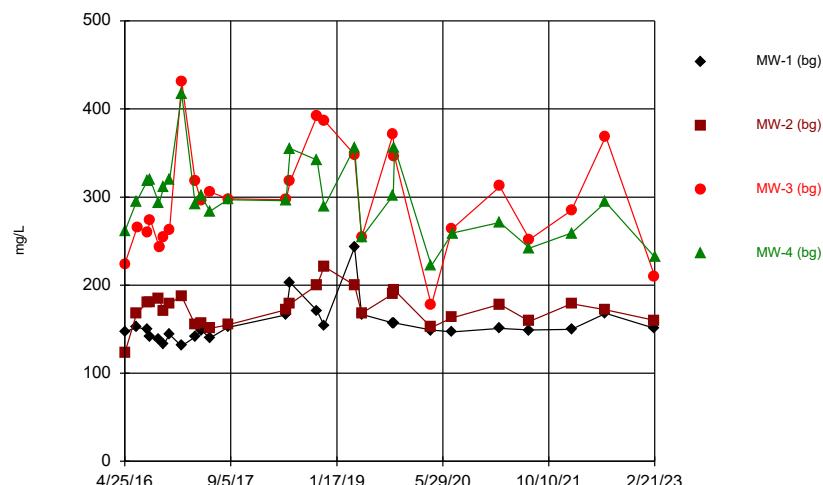
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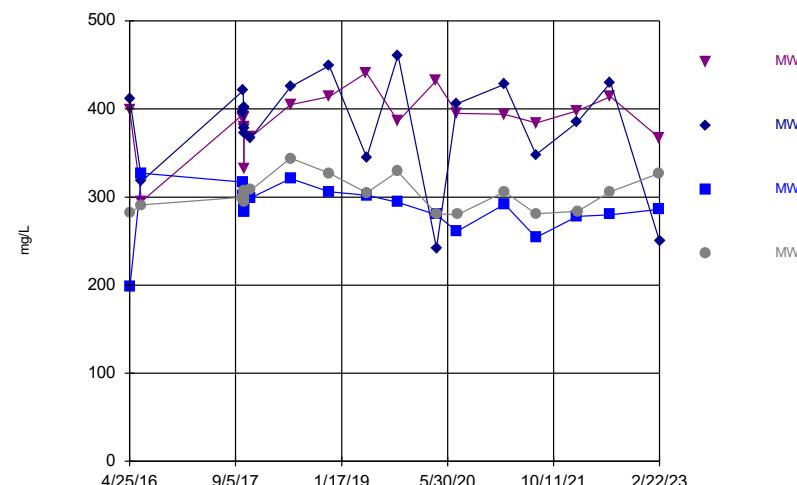


Time Series



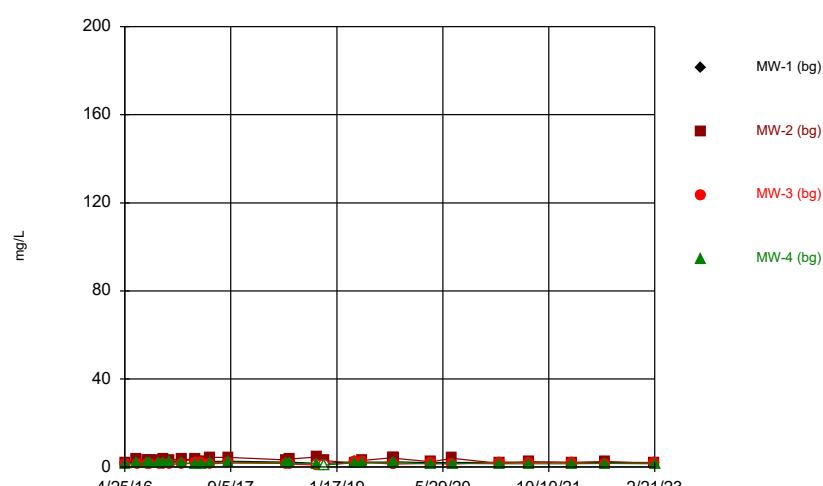
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Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Time Series



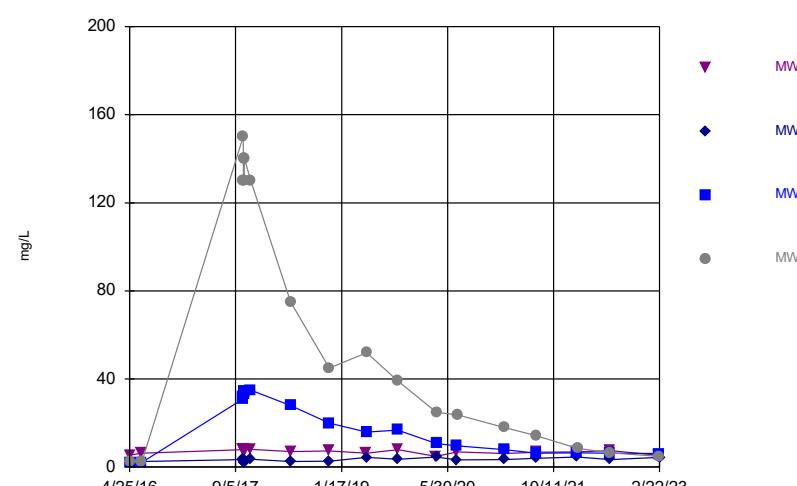
Constituent: Calcium, total Analysis Run 5/17/2023 2:18 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Time Series



Constituent: Chloride, Total Analysis Run 5/17/2023 2:18 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

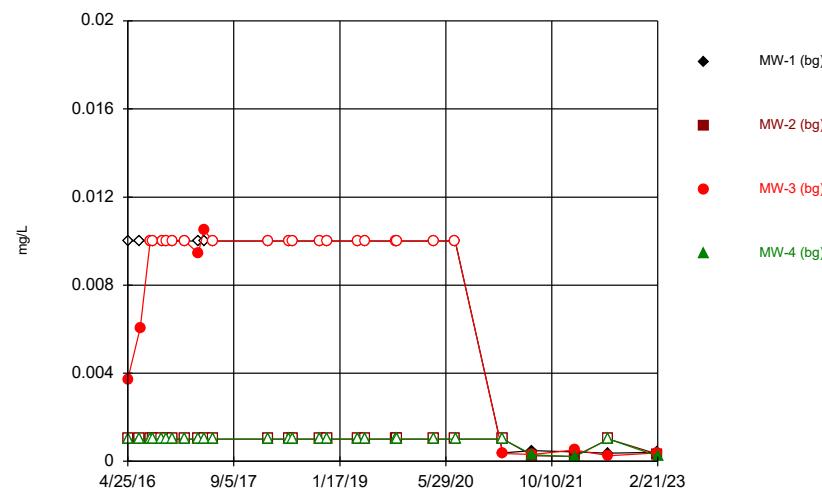
Time Series



Constituent: Chloride, Total Analysis Run 5/17/2023 2:18 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Sanitas™ v.9.6.37 Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

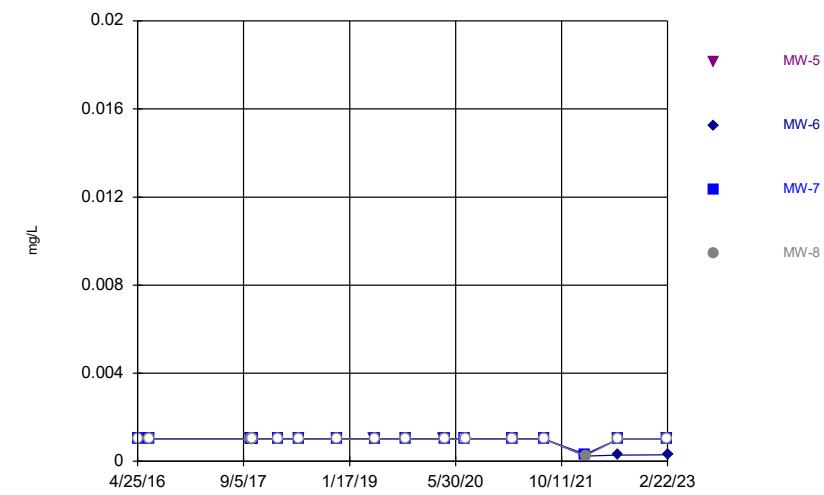
Time Series



Constituent: Chromium Analysis Run 5/17/2023 2:18 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Sanitas™ v.9.6.37 Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

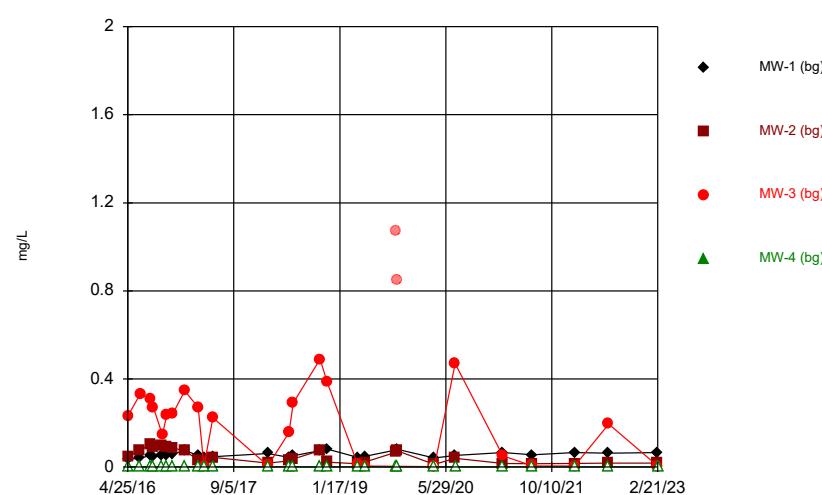
Time Series



Constituent: Chromium Analysis Run 5/17/2023 2:18 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Sanitas™ v.9.6.37 Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

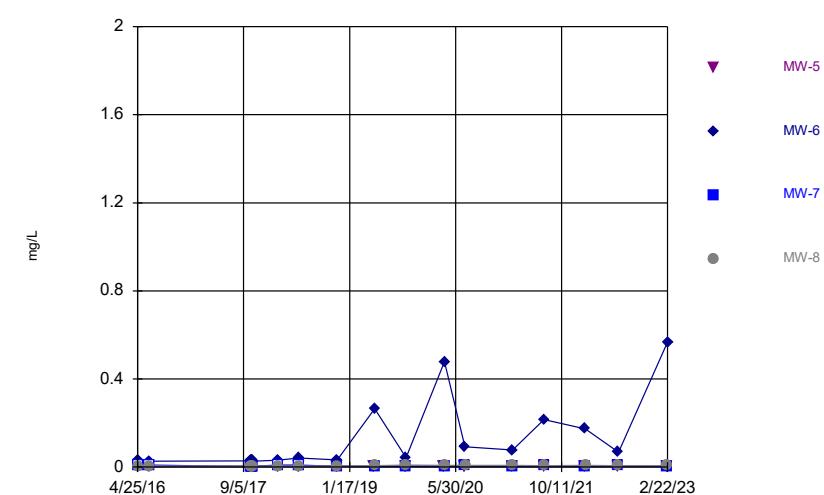
Time Series



Constituent: Cobalt Analysis Run 5/17/2023 2:18 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

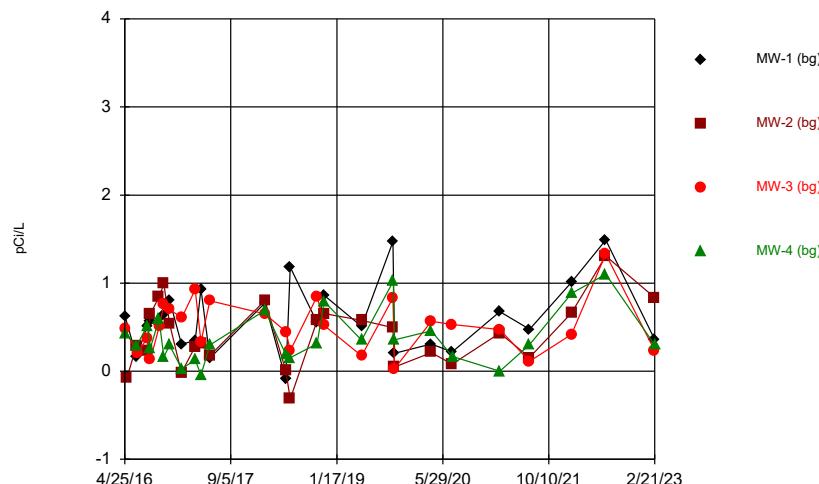
Sanitas™ v.9.6.37 Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Time Series

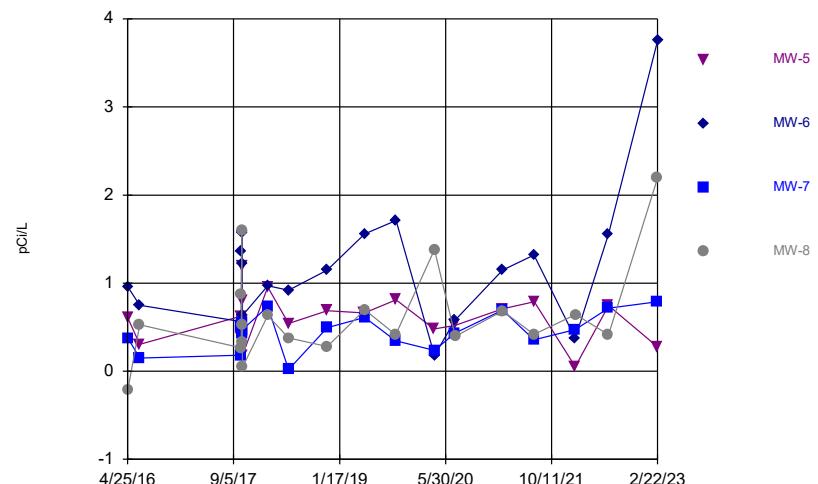


Constituent: Cobalt Analysis Run 5/17/2023 2:18 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

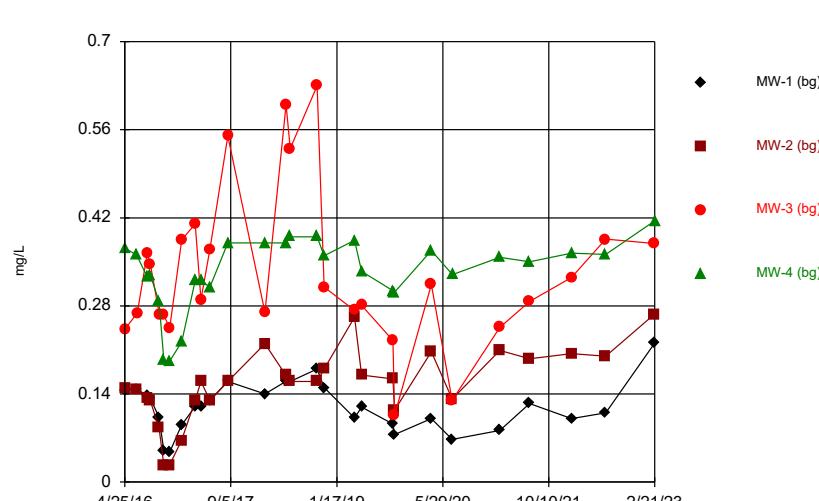
Time Series



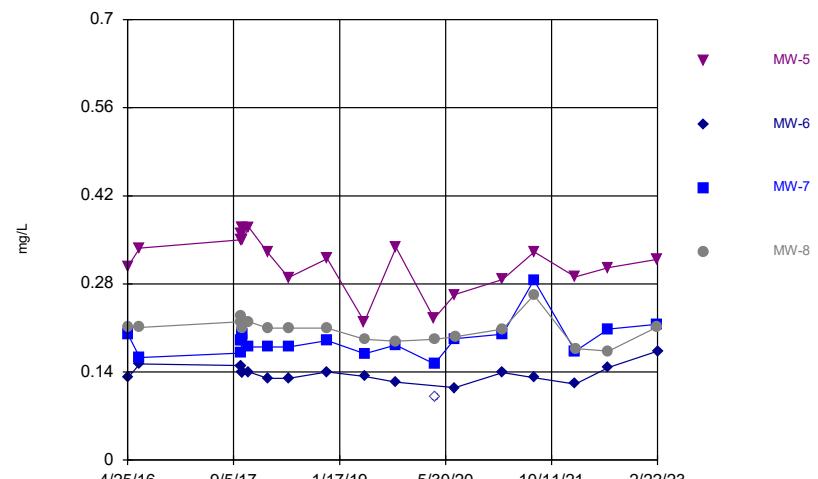
Time Series



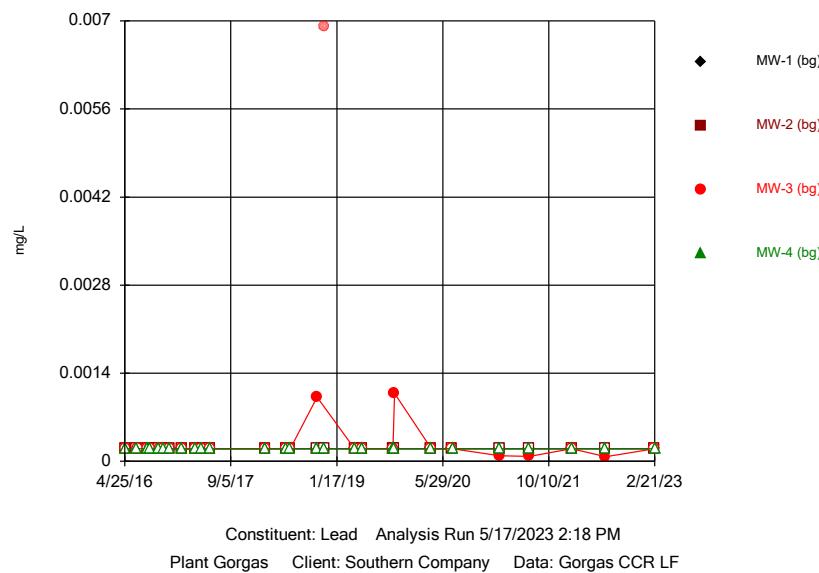
Time Series



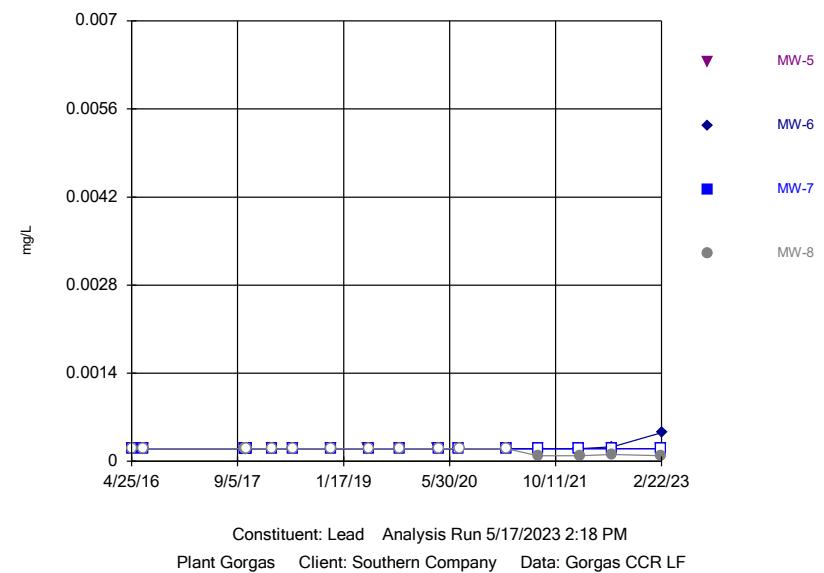
Time Series



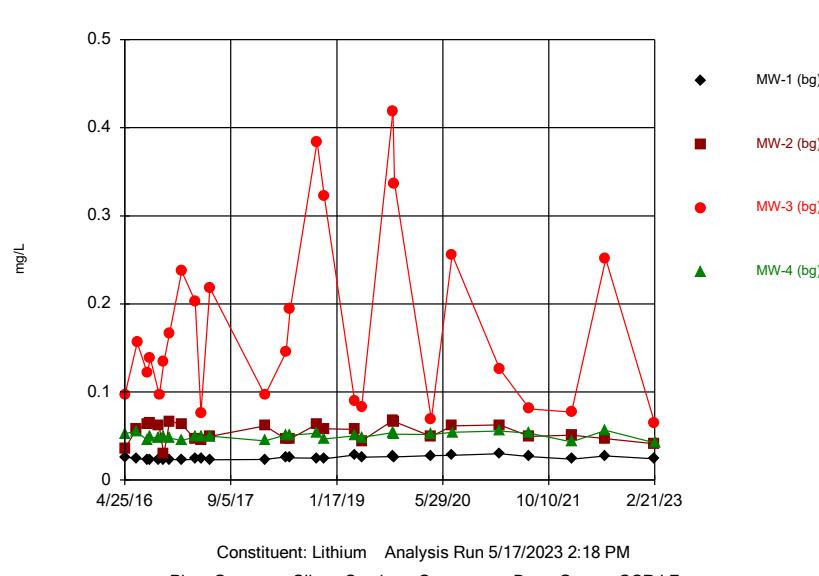
Time Series



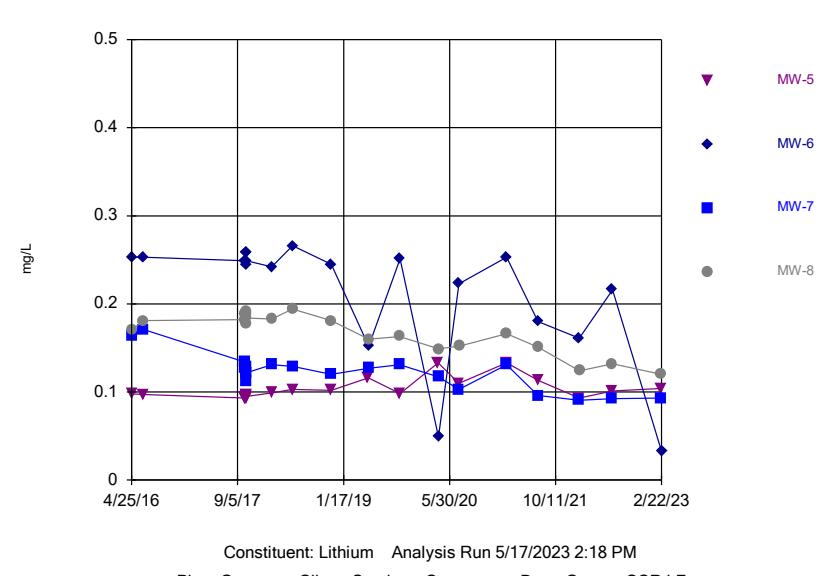
Time Series



Time Series

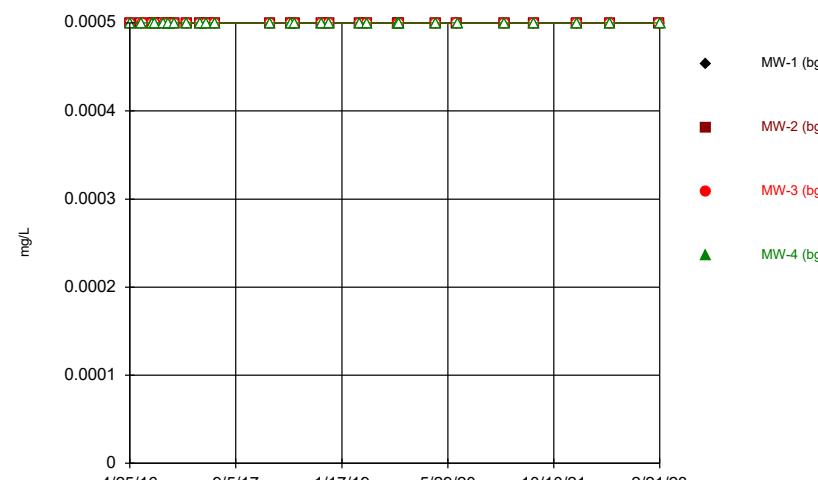


Time Series



Sanitas™ v.9.6.37 Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

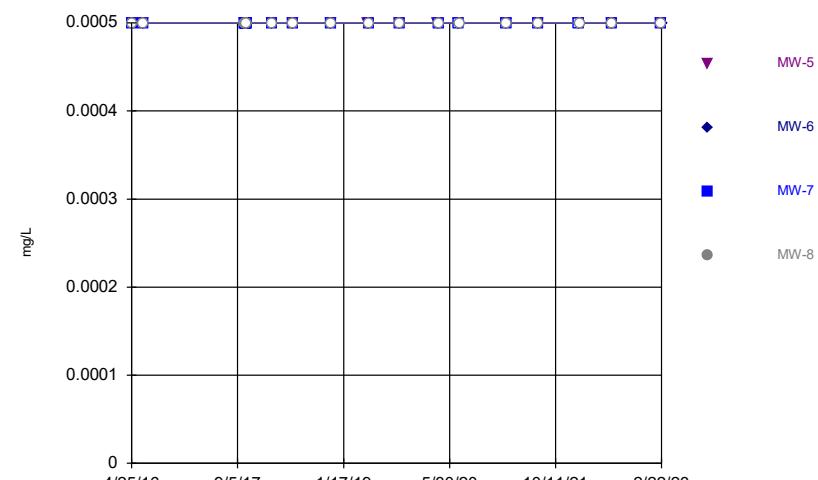
Time Series



Constituent: Mercury Analysis Run 5/17/2023 2:18 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Sanitas™ v.9.6.37 Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

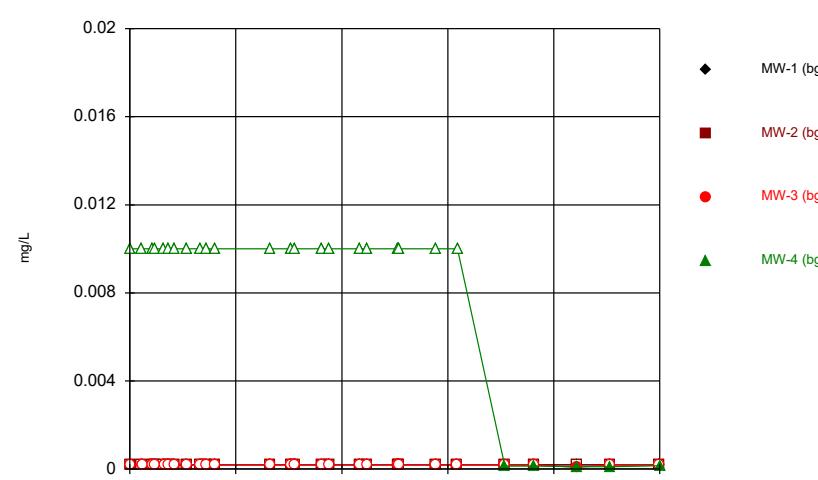
Time Series



Constituent: Mercury Analysis Run 5/17/2023 2:18 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Sanitas™ v.9.6.37 Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

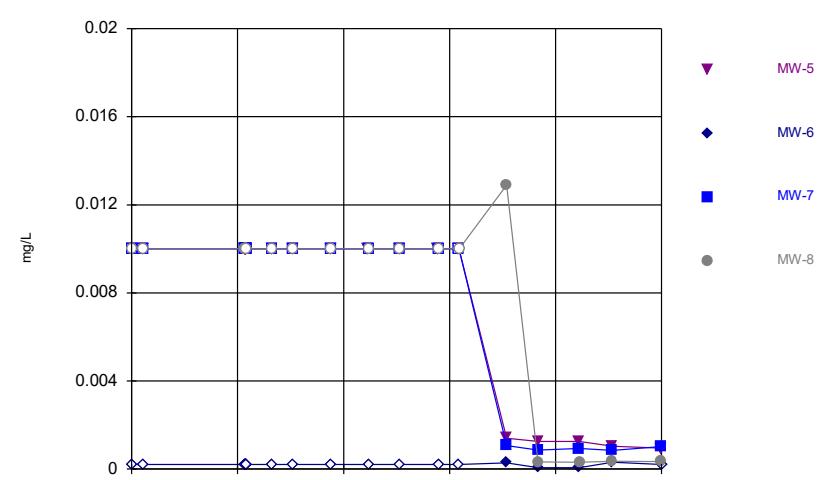
Time Series



Constituent: Molybdenum Analysis Run 5/17/2023 2:18 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

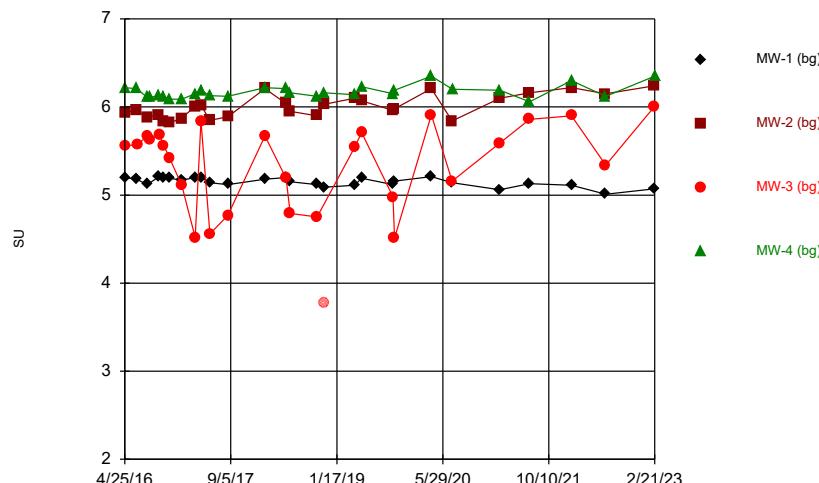
Sanitas™ v.9.6.37 Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Time Series



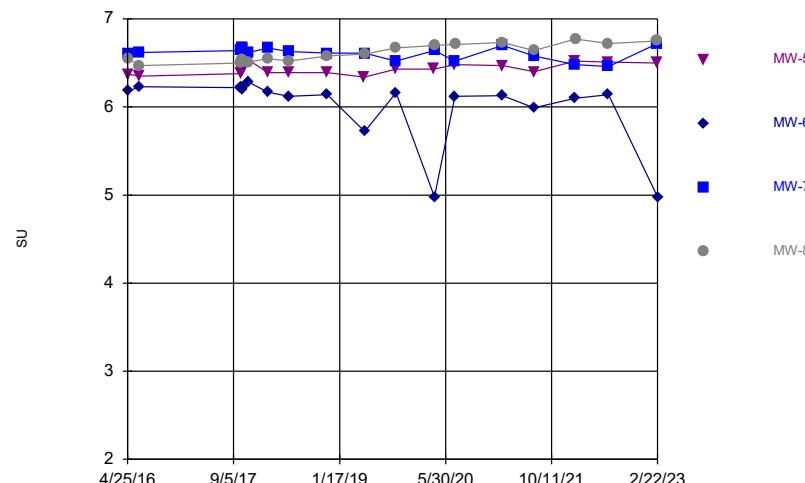
Constituent: Molybdenum Analysis Run 5/17/2023 2:18 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Time Series



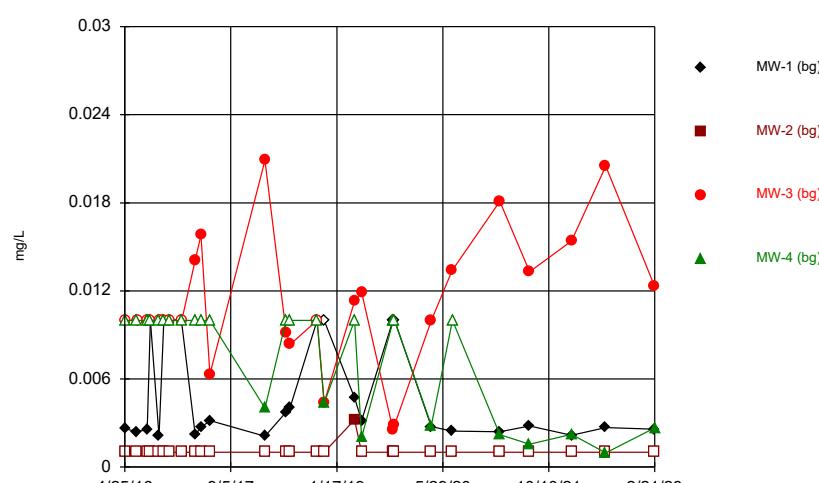
Constituent: pH, Field Analysis Run 5/17/2023 2:18 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Time Series



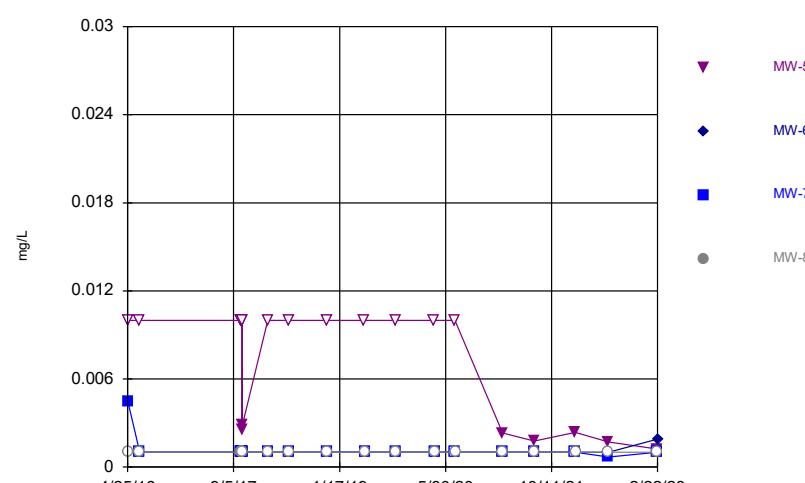
Constituent: pH, Field Analysis Run 5/17/2023 2:18 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Time Series



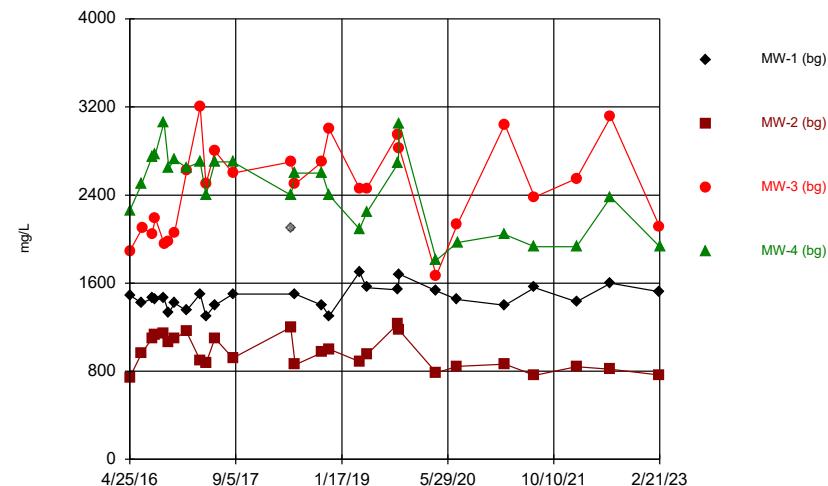
Constituent: Selenium Analysis Run 5/17/2023 2:18 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Time Series



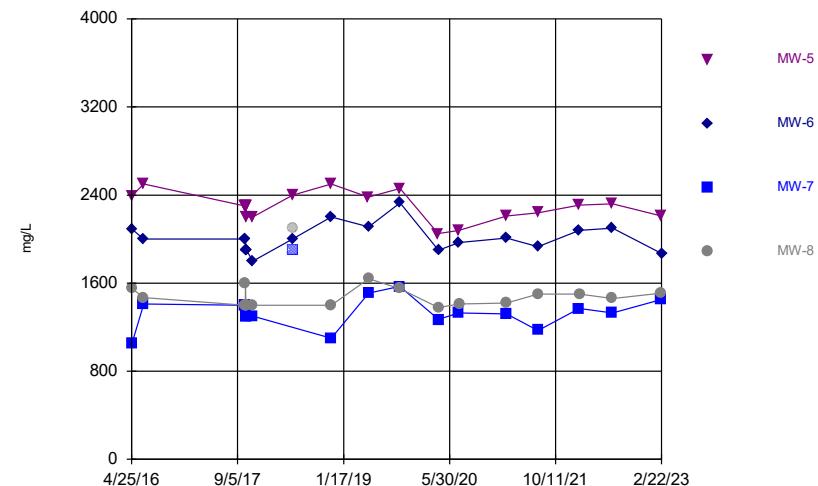
Constituent: Selenium Analysis Run 5/17/2023 2:18 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Time Series



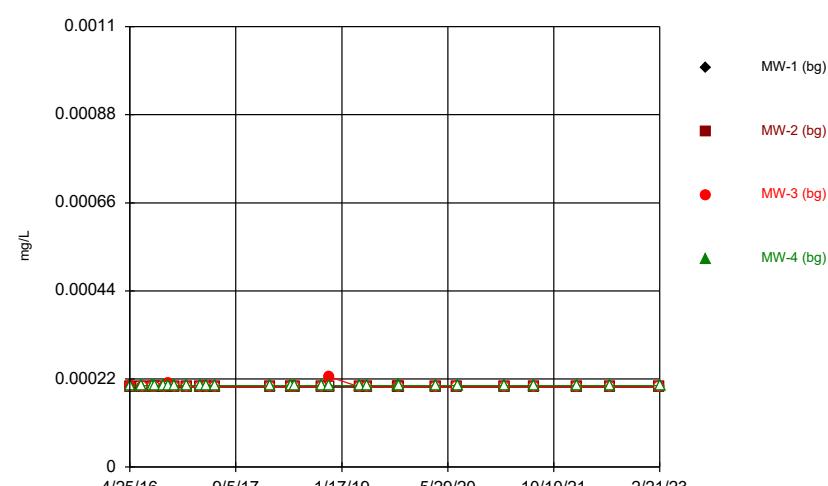
Constituent: Sulfate as SO₄ Analysis Run 5/17/2023 2:18 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Time Series



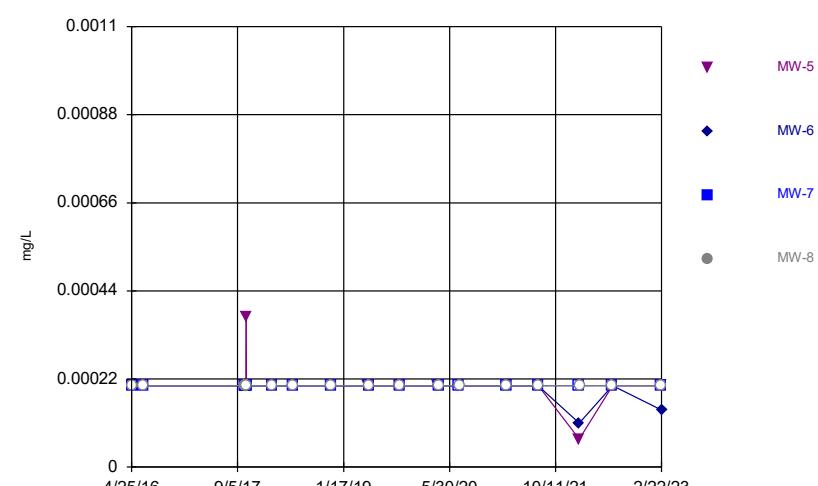
Constituent: Sulfate as SO₄ Analysis Run 5/17/2023 2:18 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Time Series

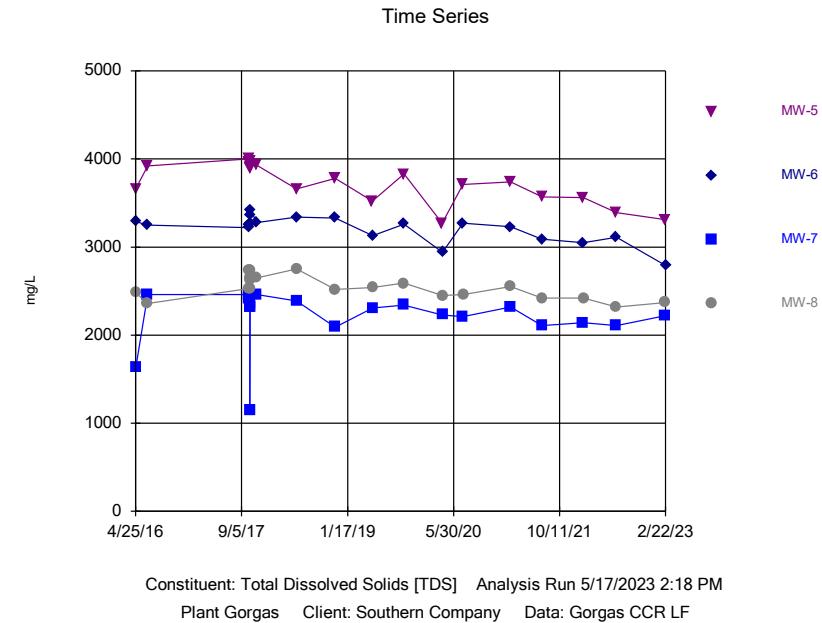
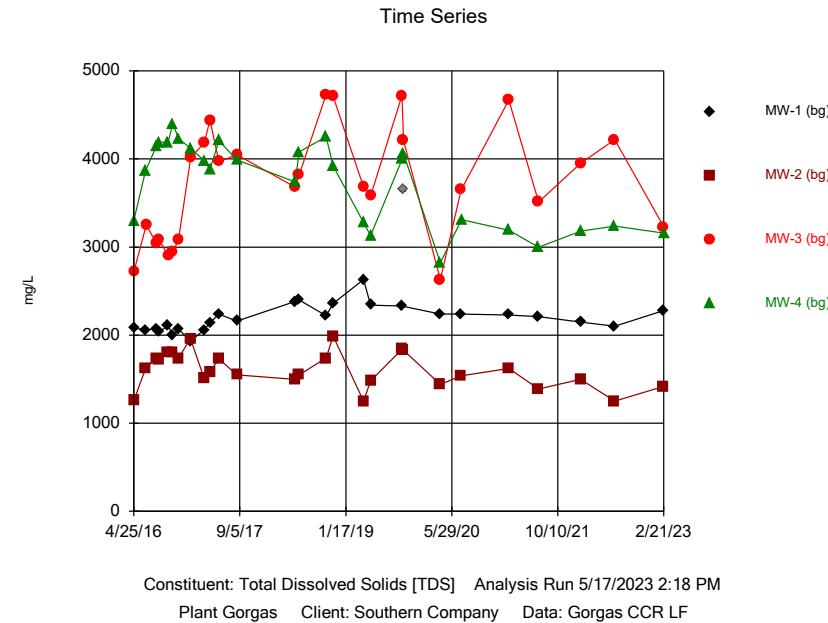


Constituent: Thallium Analysis Run 5/17/2023 2:18 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Time Series



Constituent: Thallium Analysis Run 5/17/2023 2:18 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF



Time Series

Constituent: Antimony (mg/L) Analysis Run 5/17/2023 2:27 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-1 (bg) | MW-2 (bg) | MW-3 (bg) | MW-4 (bg) |
|------------|-------------|--------------|--------------|-------------|
| 4/25/2016 | | <0.001015 | <0.001015 | <0.001015 |
| 4/26/2016 | <0.001015 | | | |
| 6/20/2016 | <0.001015 | <0.001015 | | <0.001015 |
| 6/22/2016 | | | <0.001015 | |
| 8/8/2016 | <0.001015 | <0.001015 | | |
| 8/9/2016 | | | <0.001015 | <0.001015 |
| 8/24/2016 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 10/3/2016 | <0.001015 | <0.001015 | | <0.001015 |
| 10/4/2016 | | | <0.001015 | |
| 10/26/2016 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 11/21/2016 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 1/17/2017 | <0.001015 | <0.001015 | | |
| 1/18/2017 | | | <0.001015 | <0.001015 |
| 3/22/2017 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 4/18/2017 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 5/30/2017 | <0.001015 | | | |
| 5/31/2017 | | <0.001015 | <0.001015 | <0.001015 |
| 2/13/2018 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 5/22/2018 | <0.001015 | <0.001015 | | |
| 5/23/2018 | | | <0.001015 | |
| 5/24/2018 | | | <0.001015 | |
| 6/12/2018 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 10/17/2018 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 11/19/2018 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 4/10/2019 | 0.00143 (J) | 0.000993 (J) | 0.000978 (J) | 0.00097 (J) |
| 5/14/2019 | 0.00137 (J) | 0.000989 (J) | <0.001015 | <0.001015 |
| 10/8/2019 | <0.001015 | <0.001015 | <0.001015 | |
| 10/10/2019 | | | <0.001015 | |
| 10/16/2019 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 4/6/2020 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 7/13/2020 | <0.001015 | <0.001015 | <0.001015 | |
| 7/14/2020 | | | <0.001015 | |
| 2/22/2021 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 7/12/2021 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 1/25/2022 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 7/5/2022 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 2/20/2023 | <0.001015 | <0.001015 | <0.001015 | |
| 2/21/2023 | | | <0.001015 | |

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/17/2023 2:27 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-5 | MW-6 | MW-7 | MW-8 |
|------------|-----------|-----------|-----------|-----------|
| 4/25/2016 | <0.001015 | | | |
| 4/27/2016 | | <0.001015 | <0.001015 | <0.001015 |
| 6/21/2016 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 10/12/2017 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 10/13/2017 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 10/14/2017 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 10/15/2017 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 10/16/2017 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 10/17/2017 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 2/14/2018 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 5/23/2018 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 11/20/2018 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 5/14/2019 | <0.001015 | | | |
| 5/15/2019 | | <0.001015 | <0.001015 | <0.001015 |
| 10/8/2019 | | | <0.001015 | |
| 10/9/2019 | | | | <0.001015 |
| 10/10/2019 | <0.001015 | <0.001015 | | |
| 4/7/2020 | <0.001015 | | | |
| 4/8/2020 | | <0.001015 | <0.001015 | <0.001015 |
| 7/14/2020 | <0.001015 | <0.001015 | <0.001015 | |
| 7/15/2020 | | | | <0.001015 |
| 2/23/2021 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 7/20/2021 | | <0.001015 | <0.001015 | <0.001015 |
| 7/21/2021 | <0.001015 | | | |
| 1/31/2022 | <0.001015 | <0.001015 | <0.001015 | |
| 2/1/2022 | | | | <0.001015 |
| 7/6/2022 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 2/21/2023 | <0.001015 | | <0.001015 | <0.001015 |
| 2/22/2023 | | <0.001015 | | |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/17/2023 2:27 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-1 (bg) | MW-2 (bg) | MW-3 (bg) | MW-4 (bg) |
|------------|-----------|-------------|-------------|--------------|
| 4/25/2016 | | <0.005 | <0.005 | <0.000203 |
| 4/26/2016 | <0.005 | | | |
| 6/20/2016 | <0.005 | <0.005 | | <0.000203 |
| 6/22/2016 | | | <0.005 | |
| 8/8/2016 | <0.005 | <0.005 | | |
| 8/9/2016 | | | <0.005 | <0.000203 |
| 8/24/2016 | <0.005 | <0.005 | <0.005 | <0.000203 |
| 10/3/2016 | <0.005 | <0.005 | | <0.000203 |
| 10/4/2016 | | | <0.005 | |
| 10/26/2016 | <0.005 | <0.005 | <0.005 | <0.000203 |
| 11/21/2016 | <0.005 | 0.00111 (J) | <0.005 | <0.000203 |
| 1/17/2017 | <0.005 | <0.005 | | |
| 1/18/2017 | | | <0.005 | <0.000203 |
| 3/22/2017 | <0.005 | <0.005 | 0.00122 (J) | <0.000203 |
| 4/18/2017 | <0.005 | <0.005 | <0.005 | <0.000203 |
| 5/30/2017 | <0.005 | | | |
| 5/31/2017 | | <0.005 | <0.005 | <0.000203 |
| 2/13/2018 | <0.005 | <0.005 | <0.005 | <0.000203 |
| 5/22/2018 | <0.005 | <0.005 | | |
| 5/23/2018 | | | | <0.000203 |
| 5/24/2018 | | | <0.005 | |
| 6/12/2018 | <0.005 | <0.005 | 0.00103 (J) | <0.000203 |
| 10/17/2018 | <0.005 | <0.005 | 0.00133 (J) | <0.000203 |
| 11/19/2018 | <0.005 | <0.005 | 0.0012 (J) | <0.000203 |
| 4/10/2019 | <0.005 | <0.005 | <0.005 | <0.000203 |
| 5/14/2019 | <0.005 | <0.005 | <0.005 | <0.000203 |
| 10/8/2019 | <0.005 | <0.005 | 0.0048 (J) | |
| 10/10/2019 | | | | <0.000203 |
| 10/16/2019 | <0.005 | <0.005 | 0.00389 (J) | <0.000203 |
| 4/6/2020 | <0.005 | <0.005 | <0.005 | <0.000203 |
| 7/13/2020 | <0.005 | <0.005 | 0.00316 (J) | |
| 7/14/2020 | | | | <0.000203 |
| 2/22/2021 | 0.000403 | 0.000295 | 0.000789 | 0.000125 (J) |
| 7/12/2021 | 0.00036 | 0.00036 | 0.00038 | 0.00012 (J) |
| 1/25/2022 | 0.00025 | 0.00033 | 0.00027 | 9E-05 (J) |
| 7/5/2022 | 0.000281 | 0.00035 | 0.00374 | 0.000118 (J) |
| 2/20/2023 | 0.000275 | 0.000243 | 0.000224 | |
| 2/21/2023 | | | | <0.000203 |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/17/2023 2:27 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-5 | MW-6 | MW-7 | MW-8 |
|------------|-------------|-------------|-------------|-------------|
| 4/25/2016 | 0.00138 (J) | | | |
| 4/27/2016 | | 0.005 | <0.005 | <0.005 |
| 6/21/2016 | <0.005 | 0.00473 (J) | 0.00165 (J) | 0.00101 (J) |
| 10/12/2017 | <0.005 | 0.0051 | 0.00188 (J) | 0.00197 (J) |
| 10/13/2017 | <0.005 | 0.00487 (J) | 0.00181 (J) | 0.00159 (J) |
| 10/14/2017 | <0.005 | 0.00476 (J) | 0.00127 (J) | 0.00126 (J) |
| 10/15/2017 | <0.005 | 0.00475 (J) | 0.00144 (J) | 0.00106 (J) |
| 10/16/2017 | <0.005 | 0.00482 (J) | 0.00139 (J) | 0.00106 (J) |
| 10/17/2017 | <0.005 | 0.0048 (J) | 0.00138 (J) | 0.00103 (J) |
| 2/14/2018 | <0.005 | 0.00493 (J) | 0.00131 (J) | 0.00185 (J) |
| 5/23/2018 | <0.005 | 0.0058 | 0.00155 (J) | 0.00157 (J) |
| 11/20/2018 | <0.005 | 0.00542 | 0.00133 (J) | 0.00173 (J) |
| 5/14/2019 | 0.00153 (J) | | | |
| 5/15/2019 | | 0.00383 (J) | 0.00138 (J) | 0.00136 (J) |
| 10/8/2019 | | | 0.00145 (J) | |
| 10/9/2019 | | | | 0.00142 (J) |
| 10/10/2019 | <0.005 | 0.00473 (J) | | |
| 4/7/2020 | 0.00163 (J) | | | |
| 4/8/2020 | | 0.00232 (J) | 0.00136 (J) | 0.00102 (J) |
| 7/14/2020 | <0.005 | 0.0048 (J) | 0.00147 (J) | |
| 7/15/2020 | | | | 0.00212 (J) |
| 2/23/2021 | 0.000309 | 0.00494 | 0.00141 | 0.00117 |
| 7/20/2021 | | 0.00475 | 0.00164 | 0.00111 |
| 7/21/2021 | 0.00046 | | | |
| 1/31/2022 | 0.00019 (J) | 0.00435 | 0.00156 | |
| 2/1/2022 | | | | 0.00131 |
| 7/6/2022 | 0.000225 | 0.00554 | 0.00164 | 0.00136 |
| 2/21/2023 | 0.000306 | | 0.00153 | 0.00119 |
| 2/22/2023 | | 0.00337 | | |

Time Series

Constituent: Barium (mg/L) Analysis Run 5/17/2023 2:27 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-1 (bg) | MW-2 (bg) | MW-3 (bg) | MW-4 (bg) |
|------------|-------------|-----------|-------------|-------------|
| 4/25/2016 | | 0.0134 | 0.00803 (J) | 0.0114 |
| 4/26/2016 | 0.00941 (J) | | | |
| 6/20/2016 | 0.00951 (J) | 0.0165 | | 0.0103 |
| 6/22/2016 | | | 0.0101 | |
| 8/8/2016 | 0.00991 (J) | 0.0162 | | |
| 8/9/2016 | | | 0.00889 (J) | 0.0119 |
| 8/24/2016 | 0.00949 (J) | 0.0139 | 0.00962 (J) | 0.0118 |
| 10/3/2016 | 0.0105 | 0.0164 | | 0.0119 |
| 10/4/2016 | | | 0.00984 (J) | |
| 10/26/2016 | 0.00931 (J) | 0.0138 | 0.00878 (J) | 0.0104 |
| 11/21/2016 | 0.00879 (J) | 0.0144 | 0.00833 (J) | 0.0106 |
| 1/17/2017 | 0.00929 (J) | 0.0135 | | |
| 1/18/2017 | | | 0.00966 (J) | 0.0101 |
| 3/22/2017 | 0.00938 (J) | 0.0132 | 0.00991 (J) | 0.0103 |
| 4/18/2017 | 0.00964 (J) | 0.012 | 0.00976 (J) | 0.0107 |
| 5/30/2017 | 0.00982 (J) | | | |
| 5/31/2017 | | 0.0126 | 0.00866 (J) | 0.0104 |
| 2/13/2018 | 0.00937 (J) | 0.0127 | 0.00821 (J) | 0.0111 |
| 5/22/2018 | 0.0102 | 0.0131 | | |
| 5/23/2018 | | | | 0.0107 |
| 5/24/2018 | | | 0.00977 (J) | |
| 6/12/2018 | 0.0104 | 0.0138 | 0.00997 (J) | 0.0108 |
| 10/17/2018 | 0.00952 (J) | 0.0137 | 0.0126 | 0.0119 |
| 11/19/2018 | 0.00915 (J) | 0.0115 | 0.0109 | 0.0107 |
| 4/10/2019 | 0.0105 | 0.0111 | 0.0101 | 0.0107 |
| 5/14/2019 | 0.00913 (J) | 0.0109 | 0.00922 (J) | 0.00949 (J) |
| 10/8/2019 | 0.0109 | 0.0151 | 0.0154 | |
| 10/10/2019 | | | | 0.0116 |
| 10/16/2019 | 0.0106 | 0.0146 | 0.0128 | 0.0125 |
| 4/6/2020 | 0.00971 (J) | 0.0125 | 0.00931 (J) | 0.0115 |
| 7/13/2020 | 0.0101 | 0.0145 | 0.0142 | |
| 7/14/2020 | | | | 0.0122 |
| 2/22/2021 | 0.0107 | 0.0132 | 0.00981 | 0.0111 |
| 7/12/2021 | 0.00991 | 0.013 | 0.00857 | 0.0108 |
| 1/25/2022 | 0.0098 | 0.0122 | 0.00821 | 0.00908 |
| 7/5/2022 | 0.01 | 0.0116 | 0.0155 | 0.0113 |
| 2/20/2023 | 0.0102 | 0.0122 | 0.00822 | |
| 2/21/2023 | | | | 0.0116 |

Time Series

Constituent: Barium (mg/L) Analysis Run 5/17/2023 2:27 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-5 | MW-6 | MW-7 | MW-8 |
|------------|-------------|--------|--------|--------|
| 4/25/2016 | 0.016 | | | |
| 4/27/2016 | | 0.012 | 0.0107 | 0.0108 |
| 6/21/2016 | 0.0112 | 0.0133 | 0.0129 | 0.0116 |
| 10/12/2017 | 0.0122 | 0.0134 | 0.014 | 0.0141 |
| 10/13/2017 | 0.0115 | 0.0124 | 0.0147 | 0.0148 |
| 10/14/2017 | 0.0099 (J) | 0.0129 | 0.0123 | 0.0134 |
| 10/15/2017 | 0.0103 | 0.0136 | 0.0132 | 0.0139 |
| 10/16/2017 | 0.0101 | 0.0131 | 0.0122 | 0.0129 |
| 10/17/2017 | 0.00968 (J) | 0.0126 | 0.0121 | 0.0126 |
| 2/14/2018 | 0.0114 | 0.0142 | 0.0119 | 0.0126 |
| 5/23/2018 | 0.0138 | 0.0145 | 0.0135 | 0.0137 |
| 11/20/2018 | 0.0105 | 0.0127 | 0.0116 | 0.0123 |
| 5/14/2019 | 0.0111 | | | |
| 5/15/2019 | | 0.0121 | 0.0114 | 0.0122 |
| 10/8/2019 | | | 0.0145 | |
| 10/9/2019 | | | | 0.0137 |
| 10/10/2019 | 0.0105 | 0.0152 | | |
| 4/7/2020 | 0.0137 | | | |
| 4/8/2020 | | 0.0128 | 0.0127 | 0.0137 |
| 7/14/2020 | 0.0124 | 0.0154 | 0.0148 | |
| 7/15/2020 | | | | 0.0143 |
| 2/23/2021 | 0.0116 | 0.0143 | 0.014 | 0.014 |
| 7/20/2021 | | 0.0143 | 0.0142 | 0.0141 |
| 7/21/2021 | 0.0116 | | | |
| 1/31/2022 | 0.0104 | 0.0125 | 0.0126 | |
| 2/1/2022 | | | | 0.0135 |
| 7/6/2022 | 0.0117 | 0.0144 | 0.0142 | 0.0146 |
| 2/21/2023 | 0.0121 | | 0.0141 | 0.0148 |
| 2/22/2023 | | 0.0136 | | |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/17/2023 2:27 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-1 (bg) | MW-2 (bg) | MW-3 (bg) | MW-4 (bg) |
|------------|-----------|-----------|-------------|-----------|
| 4/25/2016 | | <0.001015 | 0.00122 (J) | <0.001015 |
| 4/26/2016 | <0.001015 | | | |
| 6/20/2016 | <0.001015 | <0.001015 | | <0.001015 |
| 6/22/2016 | | | 0.00144 (J) | |
| 8/8/2016 | <0.001015 | <0.001015 | | |
| 8/9/2016 | | | 0.00331 | <0.001015 |
| 8/24/2016 | <0.001015 | <0.001015 | 0.00308 | <0.001015 |
| 10/3/2016 | <0.001015 | <0.001015 | | <0.001015 |
| 10/4/2016 | | | 0.00129 (J) | |
| 10/26/2016 | <0.001015 | <0.001015 | 0.0071 | <0.001015 |
| 11/21/2016 | <0.001015 | <0.001015 | 0.00689 | <0.001015 |
| 1/17/2017 | <0.001015 | <0.001015 | | |
| 1/18/2017 | | | 0.0169 (O) | <0.001015 |
| 3/22/2017 | <0.001015 | <0.001015 | 0.00686 | <0.001015 |
| 4/18/2017 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 5/30/2017 | <0.001015 | | | |
| 5/31/2017 | | <0.001015 | 0.00547 | <0.001015 |
| 2/13/2018 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 5/22/2018 | <0.001015 | <0.001015 | | |
| 5/23/2018 | | | 0.00164 (J) | <0.001015 |
| 5/24/2018 | | | | <0.001015 |
| 6/12/2018 | <0.001015 | <0.001015 | 0.00306 | <0.001015 |
| 10/17/2018 | <0.001015 | <0.001015 | 0.0121 | <0.001015 |
| 11/19/2018 | <0.001015 | <0.001015 | 0.0185 (O) | <0.001015 |
| 4/10/2019 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 5/14/2019 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 10/8/2019 | <0.001015 | <0.001015 | 0.0084 | |
| 10/10/2019 | | | | <0.001015 |
| 10/16/2019 | <0.001015 | <0.001015 | 0.0103 | <0.001015 |
| 4/6/2020 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 7/13/2020 | <0.001015 | <0.001015 | 0.0021 (J) | |
| 7/14/2020 | | | | <0.001015 |
| 2/22/2021 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 7/12/2021 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 1/25/2022 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 7/5/2022 | <0.001015 | <0.001015 | 0.00139 | <0.001015 |
| 2/20/2023 | <0.001015 | <0.001015 | <0.001015 | |
| 2/21/2023 | | | | <0.001015 |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/17/2023 2:27 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-5 | MW-6 | MW-7 | MW-8 |
|------------|-----------|--------------|-----------|-----------|
| 4/25/2016 | <0.001015 | | | |
| 4/27/2016 | | <0.001015 | <0.001015 | <0.001015 |
| 6/21/2016 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 10/12/2017 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 10/13/2017 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 10/14/2017 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 10/15/2017 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 10/16/2017 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 10/17/2017 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 2/14/2018 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 5/23/2018 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 11/20/2018 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 5/14/2019 | <0.001015 | | | |
| 5/15/2019 | | 0.000677 (J) | <0.001015 | <0.001015 |
| 10/8/2019 | | | <0.001015 | |
| 10/9/2019 | | | | <0.001015 |
| 10/10/2019 | <0.001015 | <0.001015 | | |
| 4/7/2020 | <0.001015 | | | |
| 4/8/2020 | | 0.000788 (J) | <0.001015 | <0.001015 |
| 7/14/2020 | <0.001015 | <0.001015 | <0.001015 | |
| 7/15/2020 | | | | <0.001015 |
| 2/23/2021 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 7/20/2021 | | 0.00048 (J) | <0.001015 | <0.001015 |
| 7/21/2021 | <0.001015 | | | |
| 1/31/2022 | <0.001015 | 0.00044 (J) | <0.001015 | |
| 2/1/2022 | | | | <0.001015 |
| 7/6/2022 | <0.001015 | <0.001015 | <0.001015 | <0.001015 |
| 2/21/2023 | <0.001015 | | <0.001015 | <0.001015 |
| 2/22/2023 | | 0.00123 | | |

Time Series

Constituent: Boron, total (mg/L) Analysis Run 5/17/2023 2:27 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-1 (bg) | MW-2 (bg) | MW-3 (bg) | MW-4 (bg) |
|------------|------------|------------|------------|------------|
| 4/25/2016 | | 0.0241 (J) | 0.028 (J) | 0.0414 (J) |
| 4/26/2016 | 0.0231 (J) | | | |
| 6/20/2016 | 0.0227 (J) | 0.0284 (J) | | 0.0434 (J) |
| 6/22/2016 | | | 0.0433 (J) | |
| 8/8/2016 | 0.0278 (J) | 0.034 (J) | | |
| 8/9/2016 | | | 0.0429 (J) | 0.0453 (J) |
| 8/24/2016 | 0.0247 (J) | 0.0316 (J) | 0.0431 (J) | 0.0451 (J) |
| 10/3/2016 | 0.0307 (J) | 0.0367 (J) | | 0.0511 (J) |
| 10/4/2016 | | | 0.04 (J) | |
| 10/26/2016 | 0.0241 (J) | 0.0331 (J) | 0.0375 (J) | 0.0507 (J) |
| 11/21/2016 | 0.0202 (J) | 0.035 (J) | 0.0406 (J) | 0.0458 (J) |
| 1/17/2017 | 0.0201 (J) | 0.0259 (J) | | |
| 1/18/2017 | | | 0.0548 (J) | 0.0445 (J) |
| 3/22/2017 | 0.0224 (J) | 0.0243 (J) | 0.0344 (J) | 0.0432 (J) |
| 4/18/2017 | <0.1015 | 0.0206 (J) | <0.1015 | 0.0409 (J) |
| 5/30/2017 | <0.1015 | | | |
| 5/31/2017 | | 0.0234 (J) | 0.0454 (J) | 0.0392 (J) |
| 8/23/2017 | 0.0253 (J) | 0.0267 (J) | 0.0425 (J) | 0.042 (J) |
| 5/22/2018 | 0.0224 (J) | 0.0251 (J) | | |
| 5/23/2018 | | | 0.0433 (J) | |
| 5/24/2018 | | | 0.0339 (J) | |
| 6/12/2018 | 0.0214 (J) | 0.0275 (J) | 0.0371 (J) | 0.0478 (J) |
| 10/17/2018 | 0.0216 (J) | 0.0321 (J) | 0.0596 (J) | 0.0468 (J) |
| 11/19/2018 | 0.0237 (J) | 0.0324 (J) | 0.0514 (J) | 0.0526 (J) |
| 4/10/2019 | 0.0304 (J) | <0.1015 | <0.1015 | 0.0438 (J) |
| 5/14/2019 | <0.1015 | <0.1015 | <0.1015 | <0.203 (o) |
| 10/8/2019 | <0.1015 | 0.0371 (J) | 0.0537 (J) | |
| 10/10/2019 | | | | 0.0487 (J) |
| 10/16/2019 | 0.0385 (J) | 0.0419 (J) | 0.05 (J) | 0.0505 (J) |
| 4/6/2020 | <0.1015 | <0.1015 | <0.1015 | 0.0428 (J) |
| 7/13/2020 | <0.1015 | <0.1015 | 0.0366 (J) | |
| 7/14/2020 | | | | 0.0441 (J) |
| 2/22/2021 | 0.0307 (J) | <0.1015 | <0.1015 | 0.0397 (J) |
| 7/12/2021 | <0.1015 | <0.1015 | <0.1015 | 0.0411 (J) |
| 1/25/2022 | <0.1015 | <0.1015 | <0.1015 | 0.0408 (J) |
| 7/5/2022 | <0.1015 | <0.1015 | 0.0374 (J) | 0.0433 (J) |
| 2/20/2023 | <0.1015 | <0.1015 | <0.1015 | |
| 2/21/2023 | | | | 0.0408 (J) |

Time Series

Constituent: Boron, total (mg/L) Analysis Run 5/17/2023 2:27 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-5 | MW-6 | MW-7 | MW-8 |
|------------|------------|------------|------------|------------|
| 4/25/2016 | 0.0301 (J) | | | |
| 4/27/2016 | | 0.075 (J) | 0.253 (O) | 0.0662 (J) |
| 6/21/2016 | 0.0304 (J) | 0.0729 (J) | 0.0768 (J) | 0.0681 (J) |
| 10/12/2017 | 0.0285 (J) | 0.0806 (J) | 0.0685 (J) | 0.0687 (J) |
| 10/13/2017 | 0.0287 (J) | 0.0803 (J) | 0.0674 (J) | 0.0831 (J) |
| 10/14/2017 | 0.0305 (J) | 0.0828 (J) | 0.0756 (J) | 0.0702 (J) |
| 10/15/2017 | 0.0319 (J) | 0.0852 (J) | 0.0719 (J) | 0.0702 (J) |
| 10/16/2017 | 0.0304 (J) | 0.0858 (J) | 0.0726 (J) | 0.0707 (J) |
| 10/17/2017 | 0.036 (J) | 0.0846 (J) | 0.0716 (J) | 0.0695 (J) |
| 11/16/2017 | 0.0377 (J) | 0.0772 (J) | 0.0644 (J) | 0.0675 (J) |
| 5/23/2018 | 0.0301 (J) | 0.0757 (J) | 0.0715 (J) | 0.0693 (J) |
| 11/20/2018 | 0.0357 (J) | 0.0915 (J) | 0.0772 (J) | 0.0771 (J) |
| 5/14/2019 | <0.203 (o) | | | |
| 5/15/2019 | | 0.0616 (J) | 0.0678 (J) | 0.0689 (J) |
| 10/8/2019 | | | 0.073 (J) | |
| 10/9/2019 | | | | 0.0723 (J) |
| 10/10/2019 | 0.0323 (J) | 0.0919 (J) | | |
| 4/7/2020 | 0.0399 (J) | | | |
| 4/8/2020 | | 0.0499 (J) | 0.077 (J) | 0.0683 (J) |
| 7/14/2020 | 0.033 (J) | 0.0838 (J) | 0.0865 (J) | |
| 7/15/2020 | | | | 0.0723 (J) |
| 2/23/2021 | 0.0369 (J) | 0.0866 (J) | 0.0803 (J) | 0.0731 (J) |
| 7/20/2021 | | 0.0608 (J) | 0.0721 (J) | 0.0656 (J) |
| 7/21/2021 | 0.0319 (J) | | | |
| 1/31/2022 | 0.0314 (J) | 0.0648 (J) | 0.0689 (J) | |
| 2/1/2022 | | | | 0.0639 (J) |
| 7/6/2022 | 0.0355 (J) | 0.069 (J) | 0.0752 (J) | 0.0686 (J) |
| 2/21/2023 | 0.0315 (J) | | 0.0645 (J) | 0.0609 (J) |
| 2/22/2023 | | 0.0356 (J) | | |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/17/2023 2:27 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-1 (bg) | MW-2 (bg) | MW-3 (bg) | MW-4 (bg) |
|------------|-----------|--------------|--------------|--------------|
| 4/25/2016 | | <0.0002 | 0.0121 (O) | <0.000203 |
| 4/26/2016 | 0.00196 | | | |
| 6/20/2016 | 0.0021 | <0.0002 | | <0.000203 |
| 6/22/2016 | | | 0.00163 | |
| 8/8/2016 | 0.00206 | <0.0002 | | |
| 8/9/2016 | | | 0.00122 | <0.000203 |
| 8/24/2016 | 0.00182 | <0.0002 | <0.001 | <0.000203 |
| 10/3/2016 | 0.00188 | <0.0002 | | <0.000203 |
| 10/4/2016 | | | 0.000689 (J) | |
| 10/26/2016 | 0.00175 | <0.0002 | 0.00136 | <0.000203 |
| 11/21/2016 | 0.00197 | <0.0002 | 0.00171 | <0.000203 |
| 1/17/2017 | 0.002 | 0.000311 (J) | | |
| 1/18/2017 | | | 0.003 | <0.000203 |
| 3/22/2017 | 0.0019 | <0.0002 | 0.00473 | <0.000203 |
| 4/18/2017 | 0.00159 | <0.0002 | 0.00117 | <0.000203 |
| 5/30/2017 | 0.00214 | | | |
| 5/31/2017 | | 0.000212 (J) | 0.00296 | <0.000203 |
| 2/13/2018 | 0.0018 | <0.0002 | 0.00232 | <0.000203 |
| 5/22/2018 | 0.00201 | <0.0002 | | |
| 5/23/2018 | | | | <0.000203 |
| 5/24/2018 | | | 0.00459 | |
| 6/12/2018 | 0.00217 | <0.0002 | 0.00351 | <0.000203 |
| 10/17/2018 | 0.00228 | <0.0002 | 0.00393 | <0.000203 |
| 11/19/2018 | 0.00156 | <0.0002 | 0.00309 | <0.000203 |
| 4/10/2019 | 0.00224 | <0.0002 | 0.00337 | <0.000203 |
| 5/14/2019 | 0.00238 | <0.0002 | 0.0013 | <0.000203 |
| 10/8/2019 | 0.00218 | <0.0002 | 0.00598 | |
| 10/10/2019 | | | | <0.000203 |
| 10/16/2019 | 0.00225 | <0.0002 | 0.00448 | <0.000203 |
| 4/6/2020 | 0.00184 | <0.0002 | 0.000645 (J) | <0.000203 |
| 7/13/2020 | 0.00194 | <0.0002 | 0.00885 (O) | |
| 7/14/2020 | | | | <0.000203 |
| 2/22/2021 | 0.00184 | 8.96E-05 (J) | 0.00536 | 8.96E-05 (J) |
| 7/12/2021 | 0.00193 | 8E-05 (J) | 0.00094 | 8E-05 (J) |
| 1/25/2022 | 0.00196 | 8E-05 (J) | 0.00178 | <0.000203 |
| 7/5/2022 | 0.00211 | 8.4E-05 (J) | 0.00835 | 7.5E-05 (J) |
| 2/20/2023 | 0.00185 | <0.0002 | 0.00144 | |
| 2/21/2023 | | | | <0.000203 |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/17/2023 2:27 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-5 | MW-6 | MW-7 | MW-8 |
|------------|-----------|--------------|-----------|-----------|
| 4/25/2016 | <0.000203 | | | |
| 4/27/2016 | | <0.000203 | <0.000203 | <0.000203 |
| 6/21/2016 | <0.000203 | <0.000203 | <0.000203 | <0.000203 |
| 10/12/2017 | <0.000203 | <0.000203 | <0.000203 | <0.000203 |
| 10/13/2017 | <0.000203 | <0.000203 | <0.000203 | <0.000203 |
| 10/14/2017 | <0.000203 | <0.000203 | <0.000203 | <0.000203 |
| 10/15/2017 | <0.000203 | <0.000203 | <0.000203 | <0.000203 |
| 10/16/2017 | <0.000203 | <0.000203 | <0.000203 | <0.000203 |
| 10/17/2017 | <0.000203 | <0.000203 | <0.000203 | <0.000203 |
| 2/14/2018 | <0.000203 | <0.000203 | <0.000203 | <0.000203 |
| 5/23/2018 | <0.000203 | <0.000203 | <0.000203 | <0.000203 |
| 11/20/2018 | <0.000203 | <0.000203 | <0.000203 | <0.000203 |
| 5/14/2019 | <0.000203 | | | |
| 5/15/2019 | | 0.000858 (J) | <0.000203 | <0.000203 |
| 10/8/2019 | | | <0.000203 | |
| 10/9/2019 | | | | <0.000203 |
| 10/10/2019 | <0.000203 | <0.000203 | | |
| 4/7/2020 | <0.000203 | | | |
| 4/8/2020 | | 0.00204 | <0.000203 | <0.000203 |
| 7/14/2020 | <0.000203 | <0.000203 | <0.000203 | |
| 7/15/2020 | | | | <0.000203 |
| 2/23/2021 | <0.000203 | <0.000203 | <0.000203 | <0.000203 |
| 7/20/2021 | | 0.00058 | <0.000203 | <0.000203 |
| 7/21/2021 | <0.000203 | | | |
| 1/31/2022 | <0.000203 | 0.0005 | <0.000203 | |
| 2/1/2022 | | | | <0.000203 |
| 7/6/2022 | <0.000203 | 7.2E-05 (J) | <0.000203 | <0.000203 |
| 2/21/2023 | <0.000203 | | <0.000203 | <0.000203 |
| 2/22/2023 | | 0.00192 | | |

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 5/17/2023 2:27 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-1 (bg) | MW-2 (bg) | MW-3 (bg) | MW-4 (bg) |
|------------|-----------|-----------|-----------|-----------|
| 4/25/2016 | | 123 | 224 | 261 |
| 4/26/2016 | 147 | | | |
| 6/20/2016 | 152 | 168 | | 295 |
| 6/22/2016 | | | 266 | |
| 8/8/2016 | 150 | 180 | | |
| 8/9/2016 | | | 260 | 318 |
| 8/24/2016 | 142 | 180 | 274 | 319 |
| 10/3/2016 | 139 | 184 | | 293 |
| 10/4/2016 | | | 243 | |
| 10/26/2016 | 133 | 171 | 254 | 311 |
| 11/21/2016 | 144 | 179 | 263 | 320 |
| 1/17/2017 | 131 | 188 | | |
| 1/18/2017 | | | 431 | 417 |
| 3/22/2017 | 141 | 155 | 318 | 292 |
| 4/18/2017 | 149 | 156 | 296 | 302 |
| 5/30/2017 | 140 | | | |
| 5/31/2017 | | 151 | 306 | 284 |
| 8/23/2017 | 152 | 155 | 298 | 297 |
| 5/22/2018 | 166 | 172 | | |
| 5/23/2018 | | | 296 | |
| 5/24/2018 | | | 297 | |
| 6/12/2018 | 203 | 179 | 318 | 355 |
| 10/17/2018 | 171 | 200 | 392 | 342 |
| 11/19/2018 | 154 | 221 | 387 | 289 |
| 4/10/2019 | 243 | 200 | 348 | 356 |
| 5/14/2019 | 167 | 168 | 254 | 254 |
| 10/8/2019 | 157 | 190 | 371 | |
| 10/10/2019 | | | 302 | |
| 10/16/2019 | 157 | 194 | 346 | 356 |
| 4/6/2020 | 149 | 152 | 177 | 222 |
| 7/13/2020 | 147 | 163 | 264 | |
| 7/14/2020 | | | 259 | |
| 2/22/2021 | 151 | 178 | 312 | 271 |
| 7/12/2021 | 149 | 159 | 252 | 242 |
| 1/25/2022 | 150 | 179 | 285 | 259 |
| 7/5/2022 | 168 | 172 | 369 | 294 |
| 2/20/2023 | 151 | 160 | 210 | |
| 2/21/2023 | | | 232 | |

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 5/17/2023 2:27 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-5 | MW-6 | MW-7 | MW-8 |
|------------|------|------|------|------|
| 4/25/2016 | 399 | | | |
| 4/27/2016 | | 411 | 198 | 282 |
| 6/21/2016 | 295 | 318 | 327 | 291 |
| 10/12/2017 | 394 | 421 | 317 | 300 |
| 10/13/2017 | 389 | 396 | 302 | 298 |
| 10/14/2017 | 391 | 400 | 283 | 299 |
| 10/15/2017 | 332 | 378 | 294 | 307 |
| 10/16/2017 | 380 | 402 | 284 | 299 |
| 10/17/2017 | 377 | 373 | 294 | 294 |
| 11/16/2017 | 368 | 367 | 299 | 308 |
| 5/23/2018 | 405 | 425 | 321 | 344 |
| 11/20/2018 | 414 | 449 | 306 | 327 |
| 5/14/2019 | 441 | | | |
| 5/15/2019 | | 345 | 302 | 305 |
| 10/8/2019 | | | 294 | |
| 10/9/2019 | | | | 329 |
| 10/10/2019 | 386 | 461 | | |
| 4/7/2020 | 432 | | | |
| 4/8/2020 | | 242 | 280 | 281 |
| 7/14/2020 | 395 | 406 | 261 | |
| 7/15/2020 | | | | 280 |
| 2/23/2021 | 394 | 428 | 292 | 306 |
| 7/20/2021 | | 348 | 254 | 281 |
| 7/21/2021 | 384 | | | |
| 1/31/2022 | 398 | 385 | 278 | |
| 2/1/2022 | | | | 284 |
| 7/6/2022 | 414 | 430 | 280 | 306 |
| 2/21/2023 | 367 | | 286 | 327 |
| 2/22/2023 | | 250 | | |

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 5/17/2023 2:27 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-1 (bg) | MW-2 (bg) | MW-3 (bg) | MW-4 (bg) |
|------------|-----------|-----------|-----------|-----------|
| 4/25/2016 | | 1.9 | 1.32 | 1.53 |
| 4/26/2016 | 1.94 | | | |
| 6/20/2016 | 2.09 | 3.43 | | 1.85 |
| 6/22/2016 | | | 1.46 | |
| 8/8/2016 | 2.18 | 3.31 | | |
| 8/9/2016 | | | 1.35 | 1.95 |
| 8/24/2016 | 2.22 | 3.23 | 1.47 | 2.07 |
| 10/3/2016 | 2.34 | 3.21 | | 2.02 |
| 10/4/2016 | | | 1.59 | |
| 10/26/2016 | 2.34 | 3.35 | 1.27 | 2.07 |
| 11/21/2016 | 2.5 | 3.34 | 1.38 | 2.39 |
| 1/17/2017 | 2.68 | 3.58 | | |
| 1/18/2017 | | | 1.34 | 1.9 |
| 3/22/2017 | 3.7 | 3.4 | 2 | 1.5 (J) |
| 4/18/2017 | 2.4 | 2.6 | 2.2 | 1.6 (J) |
| 5/30/2017 | 2.6 | | | |
| 5/31/2017 | | 4.4 | 1.5 (J) | 2.1 |
| 8/23/2017 | 2.7 | 4.4 | 1.8 (J) | 2.3 |
| 5/22/2018 | 2.3 | 3.2 | | |
| 5/23/2018 | | | 2 | |
| 5/24/2018 | | | 1.6 (J) | |
| 6/12/2018 | 2.3 | 3.7 | 1.4 (J) | 1.7 (J) |
| 10/17/2018 | 1.7 (J) | 4.6 | <2 | 1.5 (J) |
| 11/19/2018 | 1.7 (J) | 3 | <2 | <2 |
| 4/10/2019 | 2.36 | 1.76 | 2.25 | 1.88 |
| 5/14/2019 | 2.28 | 2.98 | 2.28 | 1.82 |
| 10/8/2019 | 2.31 | 4.26 | 1.36 | |
| 10/10/2019 | | | 1.93 | |
| 10/16/2019 | 2.42 | 4.04 | 1.4 | 1.92 |
| 4/6/2020 | 2.01 | 2.43 | 1.72 | 1.5 |
| 7/13/2020 | 2.1 | 4.05 | 1.34 | |
| 7/14/2020 | | | 1.61 | |
| 2/22/2021 | 2.16 | 1.72 | 2.22 | 1.52 |
| 7/12/2021 | 2.19 | 2.36 | 2.13 | 1.56 |
| 1/25/2022 | 2.09 | 2.14 | 2.12 | 1.54 |
| 7/5/2022 | 2.07 | 2.53 | 1.59 | 1.63 |
| 2/20/2023 | 2.05 | 1.7 | 1.94 | |
| 2/21/2023 | | | 1.58 | |

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 5/17/2023 2:27 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-5 | MW-6 | MW-7 | MW-8 |
|------------|-------|---------|--------|---------|
| 4/25/2016 | 5.44 | | | |
| 4/27/2016 | | 2.19 | 1.71 | 2.34 |
| 6/21/2016 | 6.32 | 2.56 | 2.04 | 2.29 |
| 10/12/2017 | 7.9 | 3.4 | 31 | 150 |
| 10/13/2017 | 8 (B) | 3 (B) | 32 (B) | 130 (B) |
| 10/14/2017 | 7.4 | 2.8 | 33 | 140 |
| 10/15/2017 | 7.2 | 1.9 (J) | 34 | 130 |
| 10/16/2017 | 8.1 | 1.8 (J) | 34 | 140 |
| 10/17/2017 | 7.9 | 3.1 | 34 | 140 |
| 11/16/2017 | 8.1 | 3.5 | 35 | 130 |
| 5/23/2018 | 7 | 2.6 | 28 | 75 |
| 11/20/2018 | 7.4 | 2.7 | 20 | 45 |
| 5/14/2019 | 6.24 | | | |
| 5/15/2019 | | 4.45 | 15.9 | 52 |
| 10/8/2019 | | | 16.8 | |
| 10/9/2019 | | | | 39.2 |
| 10/10/2019 | 7.88 | 3.61 | | |
| 4/7/2020 | 4.83 | | | |
| 4/8/2020 | | 4.63 | 10.6 | 24.9 |
| 7/14/2020 | 6.84 | 3.25 | 9.68 | |
| 7/15/2020 | | | | 23.8 |
| 2/23/2021 | 6.19 | 3.47 | 7.85 | 17.9 |
| 7/20/2021 | | 4.04 | 6.35 | 14.3 |
| 7/21/2021 | 6.73 | | | |
| 1/31/2022 | 6.87 | 4.53 | 6.4 | |
| 2/1/2022 | | | | 8.56 |
| 7/6/2022 | 7.51 | 3.36 | 6.25 | 6.5 |
| 2/21/2023 | 5.25 | | 6.12 | 4.86 |
| 2/22/2023 | | 4.37 | | |

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/17/2023 2:27 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-1 (bg) | MW-2 (bg) | MW-3 (bg) | MW-4 (bg) |
|------------|--------------|-------------|--------------|--------------|
| 4/25/2016 | | <0.001015 | 0.00373 (J) | <0.001015 |
| 4/26/2016 | <0.01 | | | |
| 6/20/2016 | <0.01 | <0.001015 | | <0.001015 |
| 6/22/2016 | | | 0.00606 (J) | |
| 8/8/2016 | <0.01 | <0.001015 | | |
| 8/9/2016 | | | <0.01 | <0.001015 |
| 8/24/2016 | <0.01 | <0.001015 | <0.01 | <0.001015 |
| 10/3/2016 | <0.01 | <0.001015 | | <0.001015 |
| 10/4/2016 | | | <0.01 | |
| 10/26/2016 | <0.01 | <0.001015 | <0.01 | <0.001015 |
| 11/21/2016 | <0.01 | <0.001015 | <0.01 | <0.001015 |
| 1/17/2017 | <0.01 | <0.001015 | | |
| 1/18/2017 | | | <0.01 | <0.001015 |
| 3/22/2017 | <0.01 | <0.001015 | 0.00945 (J) | <0.001015 |
| 4/18/2017 | <0.01 | <0.001015 | 0.0105 | <0.001015 |
| 5/30/2017 | <0.01 | | | |
| 5/31/2017 | | <0.001015 | <0.01 | <0.001015 |
| 2/13/2018 | <0.01 | <0.001015 | <0.01 | <0.001015 |
| 5/22/2018 | <0.01 | <0.001015 | | |
| 5/23/2018 | | | | <0.001015 |
| 5/24/2018 | | | <0.01 | |
| 6/12/2018 | <0.01 | <0.001015 | <0.01 | <0.001015 |
| 10/17/2018 | <0.01 | <0.001015 | <0.01 | <0.001015 |
| 11/19/2018 | <0.01 | <0.001015 | <0.01 | <0.001015 |
| 4/10/2019 | <0.01 | <0.001015 | <0.01 | <0.001015 |
| 5/14/2019 | <0.01 | <0.001015 | <0.01 | <0.001015 |
| 10/8/2019 | <0.01 | <0.001015 | <0.01 | |
| 10/10/2019 | | | | <0.001015 |
| 10/16/2019 | <0.01 | <0.001015 | <0.01 | <0.001015 |
| 4/6/2020 | <0.01 | <0.001015 | <0.01 | <0.001015 |
| 7/13/2020 | <0.01 | <0.001015 | <0.01 | |
| 7/14/2020 | | | | <0.001015 |
| 2/22/2021 | 0.000382 (J) | <0.001015 | 0.00035 (J) | <0.001015 |
| 7/12/2021 | 0.00049 (J) | 0.00025 (J) | 0.00031 (J) | 0.0003 (J) |
| 1/25/2022 | 0.00043 (J) | 0.00022 (J) | 0.00051 (J) | 0.00021 (J) |
| 7/5/2022 | 0.000364 (J) | <0.001015 | 0.00025 (J) | <0.001015 |
| 2/20/2023 | 0.000409 (J) | 0.00033 (J) | 0.000384 (J) | |
| 2/21/2023 | | | | 0.000244 (J) |

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/17/2023 2:27 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-5 | MW-6 | MW-7 | MW-8 |
|------------|-------------|--------------|-------------|-------------|
| 4/25/2016 | <0.001015 | | | |
| 4/27/2016 | | <0.00102 | <0.001015 | <0.001015 |
| 6/21/2016 | <0.001015 | <0.00102 | <0.001015 | <0.001015 |
| 10/12/2017 | <0.001015 | <0.00102 | <0.001015 | <0.001015 |
| 10/13/2017 | <0.001015 | <0.00102 | <0.001015 | <0.001015 |
| 10/14/2017 | <0.001015 | <0.00102 | <0.001015 | <0.001015 |
| 10/15/2017 | <0.001015 | <0.00102 | <0.001015 | <0.001015 |
| 10/16/2017 | <0.001015 | <0.00102 | <0.001015 | <0.001015 |
| 10/17/2017 | <0.001015 | <0.00102 | <0.001015 | <0.001015 |
| 2/14/2018 | <0.001015 | <0.00102 | <0.001015 | <0.001015 |
| 5/23/2018 | <0.001015 | <0.00102 | <0.001015 | <0.001015 |
| 11/20/2018 | <0.001015 | <0.00102 | <0.001015 | <0.001015 |
| 5/14/2019 | <0.001015 | | | |
| 5/15/2019 | | <0.00102 | <0.001015 | <0.001015 |
| 10/8/2019 | | | <0.001015 | |
| 10/9/2019 | | | | <0.001015 |
| 10/10/2019 | <0.001015 | <0.00102 | | |
| 4/7/2020 | <0.001015 | | | |
| 4/8/2020 | | <0.00102 | <0.001015 | <0.001015 |
| 7/14/2020 | <0.001015 | <0.00102 | <0.001015 | |
| 7/15/2020 | | | | <0.001015 |
| 2/23/2021 | <0.001015 | <0.00102 | <0.001015 | <0.001015 |
| 7/20/2021 | | <0.00102 | <0.001015 | <0.001015 |
| 7/21/2021 | <0.001015 | | | |
| 1/31/2022 | 0.00027 (J) | 0.00024 (J) | 0.00032 (J) | |
| 2/1/2022 | | | | 0.00025 (J) |
| 7/6/2022 | <0.001015 | 0.000284 (J) | <0.001015 | <0.001015 |
| 2/21/2023 | <0.001015 | | <0.001015 | <0.001015 |
| 2/22/2023 | | 0.000301 (J) | | |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/17/2023 2:27 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-1 (bg) | MW-2 (bg) | MW-3 (bg) | MW-4 (bg) |
|------------|-----------|-----------|-------------|-----------|
| 4/25/2016 | | 0.0487 | 0.232 | <0.000203 |
| 4/26/2016 | 0.0343 | | | |
| 6/20/2016 | 0.0413 | 0.0767 | | <0.000203 |
| 6/22/2016 | | | 0.332 | |
| 8/8/2016 | 0.0513 | 0.103 | | |
| 8/9/2016 | | | 0.311 | <0.000203 |
| 8/24/2016 | 0.0471 | 0.093 | 0.271 | <0.000203 |
| 10/3/2016 | 0.0525 | 0.0964 | | <0.000203 |
| 10/4/2016 | | | 0.148 | |
| 10/26/2016 | 0.0527 | 0.0904 | 0.236 | <0.000203 |
| 11/21/2016 | 0.0569 | 0.0857 | 0.241 | <0.000203 |
| 1/17/2017 | 0.0768 | 0.0745 | | |
| 1/18/2017 | | | 0.347 | <0.000203 |
| 3/22/2017 | 0.0535 | 0.0328 | 0.271 | <0.000203 |
| 4/18/2017 | 0.0442 | 0.0242 | 0.00324 (J) | <0.000203 |
| 5/30/2017 | 0.0465 | | | |
| 5/31/2017 | | 0.0441 | 0.225 | <0.000203 |
| 2/13/2018 | 0.062 | 0.0179 | 0.00661 (J) | <0.000203 |
| 5/22/2018 | 0.0443 | 0.028 | | |
| 5/23/2018 | | | | <0.000203 |
| 5/24/2018 | | | 0.158 | |
| 6/12/2018 | 0.0512 | 0.0366 | 0.291 | <0.000203 |
| 10/17/2018 | 0.0751 | 0.0745 | 0.49 | <0.000203 |
| 11/19/2018 | 0.0825 | 0.0225 | 0.386 | <0.000203 |
| 4/10/2019 | 0.0445 | 0.0152 | 0.0144 | <0.000203 |
| 5/14/2019 | 0.0485 | 0.0222 | 0.00536 | <0.000203 |
| 10/8/2019 | 0.0778 | 0.0674 | 1.07 (o) | |
| 10/10/2019 | | | | <0.000203 |
| 10/16/2019 | 0.08 | 0.073 | 0.848 (o) | <0.000203 |
| 4/6/2020 | 0.0417 | 0.0116 | <0.005 | <0.000203 |
| 7/13/2020 | 0.0532 | 0.0405 | 0.47 | |
| 7/14/2020 | | | | <0.000203 |
| 2/22/2021 | 0.0657 | 0.0161 | 0.0515 | <0.000203 |
| 7/12/2021 | 0.0556 | 0.0155 | 0.00567 | <0.000203 |
| 1/25/2022 | 0.0654 | 0.0166 | 0.0051 | <0.000203 |
| 7/5/2022 | 0.0627 | 0.0184 | 0.195 | <0.000203 |
| 2/20/2023 | 0.0665 | 0.0187 | 0.00435 | |
| 2/21/2023 | | | | <0.000203 |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/17/2023 2:27 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-5 | MW-6 | MW-7 | MW-8 |
|------------|-------------|--------|-------------|-------------|
| 4/25/2016 | 0.00287 (J) | | | |
| 4/27/2016 | | 0.0287 | <0.01 | 0.00436 (J) |
| 6/21/2016 | 0.00228 (J) | 0.0269 | <0.01 | 0.00484 (J) |
| 10/12/2017 | <0.005 | 0.0279 | 0.00269 (J) | 0.005 (J) |
| 10/13/2017 | <0.005 | 0.0271 | 0.00341 (J) | 0.0052 (J) |
| 10/14/2017 | <0.005 | 0.0296 | 0.00451 (J) | 0.00513 (J) |
| 10/15/2017 | 0.00203 (J) | 0.0303 | 0.00371 (J) | 0.00518 (J) |
| 10/16/2017 | <0.005 | 0.0274 | 0.00371 (J) | 0.00453 (J) |
| 10/17/2017 | <0.005 | 0.0274 | 0.0035 (J) | 0.00463 (J) |
| 2/14/2018 | <0.005 | 0.0305 | <0.01 | 0.00441 (J) |
| 5/23/2018 | <0.005 | 0.0409 | <0.01 | 0.00466 (J) |
| 11/20/2018 | <0.005 | 0.0327 | 0.00306 (J) | 0.00551 |
| 5/14/2019 | <0.005 | | | |
| 5/15/2019 | | 0.265 | 0.00234 (J) | 0.00643 |
| 10/8/2019 | | | 0.00408 (J) | |
| 10/9/2019 | | | | 0.00864 |
| 10/10/2019 | <0.005 | 0.0425 | | |
| 4/7/2020 | <0.005 | | | |
| 4/8/2020 | | 0.479 | 0.00394 (J) | 0.00762 |
| 7/14/2020 | <0.005 | 0.0916 | 0.00653 | |
| 7/15/2020 | | | | 0.00821 |
| 2/23/2021 | 0.00102 | 0.0771 | 0.00294 | 0.00796 |
| 7/20/2021 | | 0.216 | 0.00561 | 0.00714 |
| 7/21/2021 | 0.00127 | | | |
| 1/31/2022 | 0.00094 | 0.174 | 0.00546 | |
| 2/1/2022 | | | | 0.0075 |
| 7/6/2022 | 0.000538 | 0.0675 | 0.0059 | 0.00701 |
| 2/21/2023 | 0.00091 | | 0.0043 | 0.00682 |
| 2/22/2023 | | 0.567 | | |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/17/2023 2:27 PM

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-1 (bg) | MW-2 (bg) | MW-3 (bg) | MW-4 (bg) |
|------------|------------|-------------|------------|-------------|
| 4/25/2016 | | | 0.484 (U) | 0.434 (U) |
| 4/26/2016 | 0.622 | | | |
| 5/5/2016 | | -0.0718 (U) | | |
| 6/20/2016 | 0.159 (U) | 0.295 (U) | | 0.287 (U) |
| 6/22/2016 | | | 0.2 (U) | |
| 8/8/2016 | 0.511 (U) | 0.231 (U) | | |
| 8/9/2016 | | | 0.378 (U) | 0.516 (U) |
| 8/24/2016 | 0.566 (U) | 0.65 | 0.131 (U) | 0.266 (U) |
| 10/3/2016 | 0.537 (U) | 0.845 | | 0.59 (U) |
| 10/4/2016 | | | 0.514 (U) | |
| 10/26/2016 | 0.636 | 0.994 | 0.755 | 0.164 (U) |
| 11/21/2016 | 0.807 | 0.537 (U) | 0.7 | 0.296 (U) |
| 1/17/2017 | 0.308 (U) | -0.0159 (U) | | |
| 1/18/2017 | | | 0.606 | 0.0267 (U) |
| 3/22/2017 | 0.344 (U) | 0.279 (U) | 0.927 | 0.132 (U) |
| 4/18/2017 | 0.934 | 0.32 (U) | 0.334 (U) | -0.0439 (U) |
| 5/30/2017 | 0.149 (U) | | | |
| 5/31/2017 | | 0.178 (U) | 0.8 | 0.3 (U) |
| 2/13/2018 | 0.774 | 0.804 | 0.649 | 0.69 |
| 5/22/2018 | -0.091 (U) | 0.0077 (U) | | |
| 5/23/2018 | | | | 0.186 (U) |
| 5/24/2018 | | | 0.448 (U) | |
| 6/12/2018 | 1.18 | -0.315 (U) | 0.234 (U) | 0.153 (U) |
| 10/17/2018 | 0.553 (U) | 0.574 (U) | 0.852 | 0.313 (U) |
| 11/19/2018 | 0.862 | 0.654 | 0.521 | 0.794 |
| 5/14/2019 | 0.509 | 0.579 | 0.176 (U) | 0.352 (U) |
| 10/8/2019 | 1.47 | 0.493 (U) | 0.833 (U) | |
| 10/10/2019 | | | | 1.02 (U) |
| 10/16/2019 | 0.204 (U) | 0.046 (U) | 0.0279 (U) | 0.356 (U) |
| 4/6/2020 | 0.309 (U) | 0.212 (U) | 0.569 (U) | 0.459 (U) |
| 7/13/2020 | 0.219 (U) | 0.0814 (U) | 0.53 | |
| 7/14/2020 | | | | 0.169 (U) |
| 2/22/2021 | 0.677 (U) | 0.434 (U) | 0.472 (U) | 0 (U) |
| 7/12/2021 | 0.476 (U) | 0.155 (U) | 0.114 (U) | 0.301 (U) |
| 1/25/2022 | 1.01 (U) | 0.663 (U) | 0.418 (U) | 0.884 (U) |
| 7/5/2022 | 1.49 | 1.31 | 1.33 | 1.1 |
| 2/20/2023 | 0.36 (U) | 0.837 (U) | 0.234 (U) | |
| 2/21/2023 | | | | 0.3 (U) |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/17/2023 2:27 PM

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-5 | MW-6 | MW-7 | MW-8 |
|------------|------------|-----------|------------|------------|
| 4/25/2016 | 0.611 | | | |
| 4/27/2016 | | 0.956 | 0.374 (U) | -0.207 (U) |
| 6/21/2016 | 0.304 (U) | 0.748 | 0.151 (U) | 0.529 |
| 10/12/2017 | 0.627 (U) | 0.564 (U) | 0.182 (U) | 0.267 (U) |
| 10/13/2017 | 0.391 (U) | 1.36 (U) | 0.517 (U) | 0.873 (U) |
| 10/14/2017 | 1.2 (U) | 1.59 (U) | 0.43 (U) | 1.6 (U) |
| 10/15/2017 | 0.806 (U) | 1.22 (U) | 0.45 (U) | 0.327 (U) |
| 10/16/2017 | 0.564 (U) | 1.57 (U) | 0.55 (U) | 0.524 (U) |
| 10/17/2017 | 0.178 (U) | 0.631 (U) | 0.474 (U) | 0.0455 (U) |
| 2/14/2018 | 0.955 | 0.969 | 0.736 | 0.633 |
| 5/23/2018 | 0.543 | 0.918 | 0.0192 (U) | 0.377 (U) |
| 11/20/2018 | 0.687 | 1.15 | 0.494 | 0.28 (U) |
| 5/14/2019 | 0.663 | | | |
| 5/15/2019 | | 1.56 | 0.61 | 0.697 |
| 10/8/2019 | | | 0.345 (U) | |
| 10/9/2019 | | | | 0.416 (U) |
| 10/10/2019 | 0.811 (U) | 1.71 | | |
| 4/7/2020 | 0.48 (U) | | | |
| 4/8/2020 | | 0.179 (U) | 0.237 (U) | 1.38 (U) |
| 7/14/2020 | 0.521 | 0.578 | 0.434 | |
| 7/15/2020 | | | | 0.398 (U) |
| 2/23/2021 | 0.71 (U) | 1.15 (U) | 0.696 (U) | 0.685 (U) |
| 7/20/2021 | | 1.32 | 0.356 (U) | 0.42 (U) |
| 7/21/2021 | 0.79 (U) | | | |
| 1/31/2022 | 0.0523 (U) | 0.374 (U) | 0.473 (U) | |
| 2/1/2022 | | | | 0.643 (U) |
| 7/6/2022 | 0.747 (U) | 1.56 | 0.716 (U) | 0.415 (U) |
| 2/21/2023 | 0.275 (U) | | 0.789 (U) | 2.19 |
| 2/22/2023 | | 3.75 | | |

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 5/17/2023 2:27 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-1 (bg) | MW-2 (bg) | MW-3 (bg) | MW-4 (bg) |
|------------|------------|-----------|-----------|-----------|
| 4/25/2016 | | 0.149 (J) | 0.243 (J) | 0.372 |
| 4/26/2016 | 0.146 (J) | | | |
| 6/20/2016 | 0.148 (J) | 0.148 (J) | | 0.361 |
| 6/22/2016 | | | 0.269 (J) | |
| 8/8/2016 | 0.137 (J) | 0.134 (J) | | |
| 8/9/2016 | | | 0.363 | 0.326 |
| 8/24/2016 | 0.133 (J) | 0.129 (J) | 0.346 | 0.329 |
| 10/3/2016 | 0.103 (J) | 0.086 (J) | | 0.287 (J) |
| 10/4/2016 | | | 0.266 (J) | |
| 10/26/2016 | 0.05 (J) | 0.027 (J) | 0.266 (J) | 0.194 (J) |
| 11/21/2016 | 0.047 (J) | 0.027 (J) | 0.244 (J) | 0.192 (J) |
| 1/17/2017 | 0.09 (J) | 0.066 (J) | | |
| 1/18/2017 | | | 0.385 | 0.223 (J) |
| 3/22/2017 | 0.12 | 0.13 | 0.41 | 0.32 |
| 4/18/2017 | 0.12 | 0.16 | 0.29 | 0.32 |
| 5/30/2017 | 0.13 | | | |
| 5/31/2017 | | 0.13 | 0.37 | 0.31 |
| 8/23/2017 | 0.16 | 0.16 | 0.55 | 0.38 |
| 2/13/2018 | 0.14 | 0.22 | 0.27 | 0.38 |
| 5/22/2018 | 0.16 | 0.17 | | |
| 5/23/2018 | | | 0.38 | |
| 5/24/2018 | | | 0.6 | |
| 6/12/2018 | 0.16 | 0.16 | 0.53 | 0.39 |
| 10/17/2018 | 0.18 | 0.16 | 0.63 | 0.39 |
| 11/19/2018 | 0.15 | 0.18 | 0.31 | 0.36 |
| 4/10/2019 | 0.102 | 0.262 | 0.273 | 0.384 |
| 5/14/2019 | 0.119 | 0.17 | 0.281 | 0.335 |
| 10/8/2019 | 0.0924 (J) | 0.164 | 0.225 | |
| 10/10/2019 | | | 0.304 | |
| 10/16/2019 | 0.0756 (J) | 0.114 | 0.106 | 0.302 |
| 4/6/2020 | 0.101 | 0.207 | 0.314 | 0.368 |
| 7/13/2020 | 0.0678 (J) | 0.132 | 0.13 | |
| 7/14/2020 | | | 0.33 | |
| 2/22/2021 | 0.082 (J) | 0.209 | 0.246 | 0.357 |
| 7/12/2021 | 0.125 | 0.196 | 0.287 | 0.35 |
| 1/25/2022 | 0.101 | 0.204 | 0.325 | 0.364 |
| 7/5/2022 | 0.11 (J) | 0.2 | 0.386 | 0.362 |
| 2/20/2023 | 0.221 | 0.267 | 0.379 | |
| 2/21/2023 | | | 0.415 | |

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 5/17/2023 2:27 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-5 | MW-6 | MW-7 | MW-8 |
|------------|-------|-----------|-----------|-----------|
| 4/25/2016 | 0.307 | | | |
| 4/27/2016 | | 0.131 (J) | 0.2 (J) | 0.212 (J) |
| 6/21/2016 | 0.337 | 0.153 (J) | 0.163 (J) | 0.211 (J) |
| 10/12/2017 | 0.35 | 0.15 | 0.17 | 0.22 |
| 10/13/2017 | 0.36 | 0.15 | 0.19 | 0.23 |
| 10/14/2017 | 0.37 | 0.14 | 0.2 | 0.22 |
| 10/15/2017 | 0.37 | 0.14 | 0.2 | 0.22 |
| 10/16/2017 | 0.36 | 0.14 | 0.2 | 0.22 |
| 10/17/2017 | 0.35 | 0.14 | 0.19 | 0.21 |
| 11/16/2017 | 0.37 | 0.14 | 0.18 | 0.22 |
| 2/14/2018 | 0.33 | 0.13 | 0.18 | 0.21 |
| 5/23/2018 | 0.29 | 0.13 | 0.18 | 0.21 |
| 11/20/2018 | 0.32 | 0.14 | 0.19 | 0.21 |
| 5/14/2019 | 0.22 | | | |
| 5/15/2019 | | 0.133 | 0.169 | 0.192 |
| 10/8/2019 | | | 0.183 | |
| 10/9/2019 | | | | 0.189 |
| 10/10/2019 | 0.338 | 0.124 | | |
| 4/7/2020 | 0.225 | | | |
| 4/8/2020 | | <0.1 (o) | 0.153 | 0.192 |
| 7/14/2020 | 0.263 | 0.115 | 0.193 | |
| 7/15/2020 | | | | 0.196 |
| 2/23/2021 | 0.287 | 0.139 | 0.2 | 0.208 |
| 7/20/2021 | | 0.131 | 0.286 | 0.262 |
| 7/21/2021 | 0.331 | | | |
| 1/31/2022 | 0.291 | 0.121 | 0.173 | |
| 2/1/2022 | | | | 0.177 |
| 7/6/2022 | 0.306 | 0.147 | 0.208 | 0.173 |
| 2/21/2023 | 0.319 | | 0.216 | 0.212 |
| 2/22/2023 | | 0.173 | | |

Time Series

Constituent: Lead (mg/L) Analysis Run 5/17/2023 2:27 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-1 (bg) | MW-2 (bg) | MW-3 (bg) | MW-4 (bg) |
|------------|-----------|-----------|-------------|-----------|
| 4/25/2016 | | <0.0002 | <0.0002 | <0.000203 |
| 4/26/2016 | <0.0002 | | | |
| 6/20/2016 | <0.0002 | <0.0002 | | <0.000203 |
| 6/22/2016 | | | <0.0002 | |
| 8/8/2016 | <0.0002 | <0.0002 | | |
| 8/9/2016 | | | <0.0002 | <0.000203 |
| 8/24/2016 | <0.0002 | <0.0002 | <0.0002 | <0.000203 |
| 10/3/2016 | <0.0002 | <0.0002 | | <0.000203 |
| 10/4/2016 | | | <0.0002 | |
| 10/26/2016 | <0.0002 | <0.0002 | <0.0002 | <0.000203 |
| 11/21/2016 | <0.0002 | <0.0002 | <0.0002 | <0.000203 |
| 1/17/2017 | <0.0002 | <0.0002 | | |
| 1/18/2017 | | | <0.0002 | <0.000203 |
| 3/22/2017 | <0.0002 | <0.0002 | <0.0002 | <0.000203 |
| 4/18/2017 | <0.0002 | <0.0002 | <0.0002 | <0.000203 |
| 5/30/2017 | <0.0002 | | | |
| 5/31/2017 | | <0.0002 | <0.0002 | <0.000203 |
| 2/13/2018 | <0.0002 | <0.0002 | <0.0002 | <0.000203 |
| 5/22/2018 | <0.0002 | <0.0002 | | |
| 5/23/2018 | | | <0.000203 | |
| 5/24/2018 | | | <0.0002 | |
| 6/12/2018 | <0.0002 | <0.0002 | <0.0002 | <0.000203 |
| 10/17/2018 | <0.0002 | <0.0002 | 0.00102 (J) | <0.000203 |
| 11/19/2018 | <0.0002 | <0.0002 | 0.00692 (o) | <0.000203 |
| 4/10/2019 | <0.0002 | <0.0002 | <0.0002 | <0.000203 |
| 5/14/2019 | <0.0002 | <0.0002 | <0.0002 | <0.000203 |
| 10/8/2019 | <0.0002 | <0.0002 | <0.0002 | |
| 10/10/2019 | | | <0.000203 | |
| 10/16/2019 | <0.0002 | <0.0002 | 0.00108 (J) | <0.000203 |
| 4/6/2020 | <0.0002 | <0.0002 | <0.0002 | <0.000203 |
| 7/13/2020 | <0.0002 | <0.0002 | <0.0002 | |
| 7/14/2020 | | | <0.000203 | |
| 2/22/2021 | <0.0002 | <0.0002 | 8.8E-05 (J) | <0.000203 |
| 7/12/2021 | <0.0002 | <0.0002 | 8E-05 (J) | <0.000203 |
| 1/25/2022 | <0.0002 | <0.0002 | <0.0002 | <0.000203 |
| 7/5/2022 | <0.0002 | <0.0002 | 7.3E-05 (J) | <0.000203 |
| 2/20/2023 | <0.0002 | <0.0002 | <0.0002 | |
| 2/21/2023 | | | <0.000203 | |

Time Series

Constituent: Lead (mg/L) Analysis Run 5/17/2023 2:27 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-5 | MW-6 | MW-7 | MW-8 |
|------------|-----------|----------|-----------|--------------|
| 4/25/2016 | <0.000203 | | | |
| 4/27/2016 | | <0.0002 | <0.000203 | <0.000203 |
| 6/21/2016 | <0.000203 | <0.0002 | <0.000203 | <0.000203 |
| 10/12/2017 | <0.000203 | <0.0002 | <0.000203 | <0.000203 |
| 10/13/2017 | <0.000203 | <0.0002 | <0.000203 | <0.000203 |
| 10/14/2017 | <0.000203 | <0.0002 | <0.000203 | <0.000203 |
| 10/15/2017 | <0.000203 | <0.0002 | <0.000203 | <0.000203 |
| 10/16/2017 | <0.000203 | <0.0002 | <0.000203 | <0.000203 |
| 10/17/2017 | <0.000203 | <0.0002 | <0.000203 | <0.000203 |
| 2/14/2018 | <0.000203 | <0.0002 | <0.000203 | <0.000203 |
| 5/23/2018 | <0.000203 | <0.0002 | <0.000203 | <0.000203 |
| 11/20/2018 | <0.000203 | <0.0002 | <0.000203 | <0.000203 |
| 5/14/2019 | <0.000203 | | | |
| 5/15/2019 | | <0.0002 | <0.000203 | <0.000203 |
| 10/8/2019 | | | <0.000203 | |
| 10/9/2019 | | | | <0.000203 |
| 10/10/2019 | <0.000203 | <0.0002 | | |
| 4/7/2020 | <0.000203 | | | |
| 4/8/2020 | | <0.0002 | <0.000203 | <0.000203 |
| 7/14/2020 | <0.000203 | <0.0002 | <0.000203 | |
| 7/15/2020 | | | | <0.000203 |
| 2/23/2021 | <0.000203 | <0.0002 | <0.000203 | <0.000203 |
| 7/20/2021 | | <0.0002 | <0.000203 | 9E-05 (J) |
| 7/21/2021 | <0.000203 | | | |
| 1/31/2022 | <0.000203 | <0.0002 | <0.000203 | |
| 2/1/2022 | | | | 9E-05 (J) |
| 7/6/2022 | <0.000203 | 0.000232 | <0.000203 | 0.000109 (J) |
| 2/21/2023 | <0.000203 | | <0.000203 | 8.8E-05 (J) |
| 2/22/2023 | | 0.000457 | | |

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/17/2023 2:27 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-1 (bg) | MW-2 (bg) | MW-3 (bg) | MW-4 (bg) |
|------------|------------|------------|-----------|------------|
| 4/25/2016 | | 0.0353 (J) | 0.0964 | 0.0528 |
| 4/26/2016 | 0.0264 (J) | | | |
| 6/20/2016 | 0.0246 (J) | 0.0583 | | 0.0554 |
| 6/22/2016 | | | 0.156 | |
| 8/8/2016 | 0.0229 (J) | 0.0627 | | |
| 8/9/2016 | | | 0.122 | 0.0452 (J) |
| 8/24/2016 | 0.0236 (J) | 0.0651 | 0.138 | 0.0488 (J) |
| 10/3/2016 | 0.0229 (J) | 0.0622 | | 0.0476 (J) |
| 10/4/2016 | | | 0.0966 | |
| 10/26/2016 | 0.0227 (J) | 0.0293 (J) | 0.134 | 0.049 (J) |
| 11/21/2016 | 0.0236 (J) | 0.0667 | 0.167 | 0.0477 (J) |
| 1/17/2017 | 0.0228 (J) | 0.0636 | | |
| 1/18/2017 | | | 0.237 | 0.045 (J) |
| 3/22/2017 | 0.0238 (J) | 0.0464 (J) | 0.203 | 0.0493 (J) |
| 4/18/2017 | 0.0242 (J) | 0.0446 (J) | 0.0764 | 0.0494 (J) |
| 5/30/2017 | 0.0229 (J) | | | |
| 5/31/2017 | | 0.0496 (J) | 0.218 | 0.0501 |
| 2/13/2018 | 0.0233 (J) | 0.0615 | 0.0964 | 0.0446 (J) |
| 5/22/2018 | 0.0263 (J) | 0.0465 (J) | | |
| 5/23/2018 | | | 0.0513 | |
| 5/24/2018 | | | 0.145 | |
| 6/12/2018 | 0.0251 (J) | 0.0472 (J) | 0.194 | 0.0511 |
| 10/17/2018 | 0.025 (J) | 0.0633 | 0.384 | 0.0532 |
| 11/19/2018 | 0.0241 | 0.0584 | 0.323 | 0.0467 |
| 4/10/2019 | 0.0285 | 0.0574 | 0.0905 | 0.0504 |
| 5/14/2019 | 0.026 (J) | 0.0445 | 0.0828 | 0.0485 |
| 10/8/2019 | 0.0268 | 0.0677 | 0.419 | |
| 10/10/2019 | | | 0.054 | |
| 10/16/2019 | 0.0263 | 0.0661 | 0.337 | 0.052 |
| 4/6/2020 | 0.0278 | 0.0496 | 0.0689 | 0.0519 |
| 7/13/2020 | 0.028 | 0.0615 | 0.256 | |
| 7/14/2020 | | | 0.0543 | |
| 2/22/2021 | 0.0301 | 0.0625 | 0.126 | 0.0558 |
| 7/12/2021 | 0.0266 | 0.0495 | 0.0808 | 0.0533 |
| 1/25/2022 | 0.0239 | 0.051 | 0.077 | 0.0433 |
| 7/5/2022 | 0.0274 | 0.0469 | 0.251 | 0.0566 |
| 2/20/2023 | 0.0241 | 0.0412 | 0.0649 | |
| 2/21/2023 | | | 0.0424 | |

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/17/2023 2:27 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-5 | MW-6 | MW-7 | MW-8 |
|------------|--------|--------|--------|-------|
| 4/25/2016 | 0.0977 | | | |
| 4/27/2016 | | 0.253 | 0.163 | 0.171 |
| 6/21/2016 | 0.0972 | 0.253 | 0.171 | 0.181 |
| 10/12/2017 | 0.093 | 0.249 | 0.134 | 0.182 |
| 10/13/2017 | 0.0935 | 0.249 | 0.127 | 0.189 |
| 10/14/2017 | 0.0931 | 0.244 | 0.112 | 0.177 |
| 10/15/2017 | 0.0968 | 0.259 | 0.129 | 0.191 |
| 10/16/2017 | 0.0963 | 0.259 | 0.122 | 0.189 |
| 10/17/2017 | 0.0949 | 0.249 | 0.122 | 0.184 |
| 2/14/2018 | 0.0989 | 0.242 | 0.131 | 0.183 |
| 5/23/2018 | 0.103 | 0.266 | 0.129 | 0.194 |
| 11/20/2018 | 0.102 | 0.245 | 0.12 | 0.181 |
| 5/14/2019 | 0.116 | | | |
| 5/15/2019 | | 0.152 | 0.127 | 0.16 |
| 10/8/2019 | | | 0.131 | |
| 10/9/2019 | | | | 0.163 |
| 10/10/2019 | 0.0981 | 0.251 | | |
| 4/7/2020 | 0.133 | | | |
| 4/8/2020 | | 0.0489 | 0.117 | 0.149 |
| 7/14/2020 | 0.11 | 0.223 | 0.103 | |
| 7/15/2020 | | | | 0.152 |
| 2/23/2021 | 0.133 | 0.253 | 0.131 | 0.166 |
| 7/20/2021 | | 0.18 | 0.096 | 0.151 |
| 7/21/2021 | 0.113 | | | |
| 1/31/2022 | 0.0932 | 0.161 | 0.0907 | |
| 2/1/2022 | | | | 0.124 |
| 7/6/2022 | 0.101 | 0.216 | 0.0926 | 0.132 |
| 2/21/2023 | 0.104 | | 0.0932 | 0.12 |
| 2/22/2023 | | 0.0329 | | |

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/17/2023 2:27 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-1 (bg) | MW-2 (bg) | MW-3 (bg) | MW-4 (bg) |
|------------|-----------|-----------|-----------|-----------|
| 4/25/2016 | | <0.0005 | <0.0005 | <0.0005 |
| 4/26/2016 | <0.0005 | | | |
| 6/20/2016 | <0.0005 | <0.0005 | | <0.0005 |
| 6/22/2016 | | | <0.0005 | |
| 8/8/2016 | <0.0005 | <0.0005 | | |
| 8/9/2016 | | | <0.0005 | <0.0005 |
| 8/24/2016 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 10/3/2016 | <0.0005 | <0.0005 | | <0.0005 |
| 10/4/2016 | | | <0.0005 | |
| 10/26/2016 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 11/21/2016 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 1/17/2017 | <0.0005 | <0.0005 | | |
| 1/18/2017 | | | <0.0005 | <0.0005 |
| 3/22/2017 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 4/18/2017 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 5/30/2017 | <0.0005 | | | |
| 5/31/2017 | | <0.0005 | <0.0005 | <0.0005 |
| 2/13/2018 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 5/22/2018 | <0.0005 | <0.0005 | | |
| 5/23/2018 | | | <0.0005 | |
| 5/24/2018 | | | <0.0005 | |
| 6/12/2018 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 10/17/2018 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 11/19/2018 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 4/10/2019 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 5/14/2019 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 10/8/2019 | <0.0005 | <0.0005 | <0.0005 | |
| 10/10/2019 | | | <0.0005 | |
| 10/16/2019 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 4/6/2020 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 7/13/2020 | <0.0005 | <0.0005 | <0.0005 | |
| 7/14/2020 | | | <0.0005 | |
| 2/22/2021 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 7/12/2021 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 1/25/2022 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 7/5/2022 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 2/20/2023 | <0.0005 | <0.0005 | <0.0005 | |
| 2/21/2023 | | | <0.0005 | |

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/17/2023 2:27 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-5 | MW-6 | MW-7 | MW-8 |
|------------|---------|---------|---------|---------|
| 4/25/2016 | <0.0005 | | | |
| 4/27/2016 | | <0.0005 | <0.0005 | <0.0005 |
| 6/21/2016 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 10/12/2017 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 10/13/2017 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 10/14/2017 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 10/15/2017 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 10/16/2017 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 10/17/2017 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 2/14/2018 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 5/23/2018 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 11/20/2018 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 5/14/2019 | <0.0005 | | | |
| 5/15/2019 | | <0.0005 | <0.0005 | <0.0005 |
| 10/8/2019 | | | <0.0005 | |
| 10/9/2019 | | | | <0.0005 |
| 10/10/2019 | <0.0005 | <0.0005 | | |
| 4/7/2020 | <0.0005 | | | |
| 4/8/2020 | | <0.0005 | <0.0005 | <0.0005 |
| 7/14/2020 | <0.0005 | <0.0005 | <0.0005 | |
| 7/15/2020 | | | | <0.0005 |
| 2/23/2021 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 7/20/2021 | | <0.0005 | <0.0005 | <0.0005 |
| 7/21/2021 | <0.0005 | | | |
| 1/31/2022 | <0.0005 | <0.0005 | <0.0005 | |
| 2/1/2022 | | | | <0.0005 |
| 7/6/2022 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 2/21/2023 | <0.0005 | | <0.0005 | <0.0005 |
| 2/22/2023 | | <0.0005 | | |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/17/2023 2:27 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-1 (bg) | MW-2 (bg) | MW-3 (bg) | MW-4 (bg) |
|------------|-----------|-----------|-----------|--------------|
| 4/25/2016 | | <0.0002 | <0.0002 | <0.01 |
| 4/26/2016 | <0.0002 | | | |
| 6/20/2016 | <0.0002 | <0.0002 | | <0.01 |
| 6/22/2016 | | | <0.0002 | |
| 8/8/2016 | <0.0002 | <0.0002 | | |
| 8/9/2016 | | | <0.0002 | <0.01 |
| 8/24/2016 | <0.0002 | <0.0002 | <0.0002 | <0.01 |
| 10/3/2016 | <0.0002 | <0.0002 | | <0.01 |
| 10/4/2016 | | | <0.0002 | |
| 10/26/2016 | <0.0002 | <0.0002 | <0.0002 | <0.01 |
| 11/21/2016 | <0.0002 | <0.0002 | <0.0002 | <0.01 |
| 1/17/2017 | <0.0002 | <0.0002 | | |
| 1/18/2017 | | | <0.0002 | <0.01 |
| 3/22/2017 | <0.0002 | <0.0002 | <0.0002 | <0.01 |
| 4/18/2017 | <0.0002 | <0.0002 | <0.0002 | <0.01 |
| 5/30/2017 | <0.0002 | | | |
| 5/31/2017 | | <0.0002 | <0.0002 | <0.01 |
| 2/13/2018 | <0.0002 | <0.0002 | <0.0002 | <0.01 |
| 5/22/2018 | <0.0002 | <0.0002 | | |
| 5/23/2018 | | | <0.01 | |
| 5/24/2018 | | | <0.0002 | |
| 6/12/2018 | <0.0002 | <0.0002 | <0.0002 | <0.01 |
| 10/17/2018 | <0.0002 | <0.0002 | <0.0002 | <0.01 |
| 11/19/2018 | <0.0002 | <0.0002 | <0.0002 | <0.01 |
| 4/10/2019 | <0.0002 | <0.0002 | <0.0002 | <0.01 |
| 5/14/2019 | <0.0002 | <0.0002 | <0.0002 | <0.01 |
| 10/8/2019 | <0.0002 | <0.0002 | <0.0002 | |
| 10/10/2019 | | | <0.01 | |
| 10/16/2019 | <0.0002 | <0.0002 | <0.0002 | <0.01 |
| 4/6/2020 | <0.0002 | <0.0002 | <0.0002 | <0.01 |
| 7/13/2020 | <0.0002 | <0.0002 | <0.0002 | |
| 7/14/2020 | | | <0.01 | |
| 2/22/2021 | <0.0002 | <0.0002 | <0.0002 | 0.000131 (J) |
| 7/12/2021 | <0.0002 | <0.0002 | <0.0002 | 0.00014 (J) |
| 1/25/2022 | <0.0002 | <0.0002 | 8E-05 (J) | 0.00011 (J) |
| 7/5/2022 | <0.0002 | <0.0002 | <0.0002 | 0.000108 (J) |
| 2/20/2023 | <0.0002 | <0.0002 | <0.0002 | |
| 2/21/2023 | | | | 0.00015 (J) |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/17/2023 2:27 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-5 | MW-6 | MW-7 | MW-8 |
|------------|----------|-----------|----------|----------|
| 4/25/2016 | <0.01 | | | |
| 4/27/2016 | | <0.000203 | <0.01 | <0.01 |
| 6/21/2016 | <0.01 | <0.000203 | <0.01 | <0.01 |
| 10/12/2017 | <0.01 | <0.000203 | <0.01 | <0.01 |
| 10/13/2017 | <0.01 | <0.000203 | <0.01 | <0.01 |
| 10/14/2017 | <0.01 | <0.000203 | <0.01 | <0.01 |
| 10/15/2017 | <0.01 | <0.000203 | <0.01 | <0.01 |
| 10/16/2017 | <0.01 | <0.000203 | <0.01 | <0.01 |
| 10/17/2017 | <0.01 | <0.000203 | <0.01 | <0.01 |
| 2/14/2018 | <0.01 | <0.000203 | <0.01 | <0.01 |
| 5/23/2018 | <0.01 | <0.000203 | <0.01 | <0.01 |
| 11/20/2018 | <0.01 | <0.000203 | <0.01 | <0.01 |
| 5/14/2019 | <0.01 | | | |
| 5/15/2019 | | <0.000203 | <0.01 | <0.01 |
| 10/8/2019 | | | <0.01 | |
| 10/9/2019 | | | | <0.01 |
| 10/10/2019 | <0.01 | <0.000203 | | |
| 4/7/2020 | <0.01 | | | |
| 4/8/2020 | | <0.000203 | <0.01 | <0.01 |
| 7/14/2020 | <0.01 | <0.000203 | <0.01 | |
| 7/15/2020 | | | | <0.01 |
| 2/23/2021 | 0.0014 | 0.000285 | 0.00107 | 0.0129 |
| 7/20/2021 | | 7E-05 (J) | 0.00086 | 0.00033 |
| 7/21/2021 | 0.00126 | | | |
| 1/31/2022 | 0.00126 | 7E-05 (J) | 0.00093 | |
| 2/1/2022 | | | | 0.00031 |
| 7/6/2022 | 0.00104 | 0.000316 | 0.000846 | 0.000351 |
| 2/21/2023 | 0.000945 | | 0.00103 | 0.000338 |
| 2/22/2023 | | <0.000203 | | |

Time Series

Constituent: pH, Field (SU) Analysis Run 5/17/2023 2:27 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-1 (bg) | MW-2 (bg) | MW-3 (bg) | MW-4 (bg) |
|------------|-----------|-----------|-----------|-----------|
| 4/25/2016 | | 5.94 | 5.56 | 6.22 |
| 4/26/2016 | 5.2 | | | |
| 6/20/2016 | 5.18 | 5.96 | | 6.21 |
| 6/22/2016 | | | 5.57 | |
| 8/8/2016 | 5.12 | 5.88 | | |
| 8/9/2016 | | | 5.67 | 6.11 |
| 8/24/2016 | | | 5.63 | 6.11 |
| 10/3/2016 | 5.21 | 5.91 | | 6.13 |
| 10/4/2016 | | | 5.69 | |
| 10/26/2016 | 5.2 | 5.84 | 5.56 | 6.12 |
| 11/21/2016 | 5.19 | 5.82 | 5.42 | 6.09 |
| 1/17/2017 | 5.17 | 5.87 | | |
| 1/18/2017 | | | 5.11 | 6.09 |
| 3/22/2017 | 5.2 | 6.01 | 4.52 | 6.15 |
| 4/18/2017 | 5.2 | 6.02 | 5.84 | 6.19 |
| 5/30/2017 | 5.14 | | | |
| 5/31/2017 | | 5.85 | 4.56 | 6.13 |
| 8/23/2017 | 5.12 | 5.89 | 4.77 | 6.12 |
| 2/13/2018 | 5.18 | 6.21 | 5.67 | 6.22 |
| 5/22/2018 | 5.2 | 6.04 | | |
| 5/23/2018 | | | | 6.21 |
| 5/24/2018 | | | 5.19 | |
| 6/12/2018 | 5.15 | 5.95 | 4.79 | 6.16 |
| 10/17/2018 | 5.12 | 5.9 | 4.75 | 6.12 |
| 11/19/2018 | 5.09 | 6.03 | 3.77 (o) | 6.16 |
| 4/10/2019 | 5.11 | 6.1 | 5.54 | 6.14 |
| 5/14/2019 | 5.19 | 6.07 | 5.71 | 6.23 |
| 10/8/2019 | 5.12 | 5.96 | 4.98 | |
| 10/10/2019 | | | | 6.15 |
| 10/16/2019 | 5.16 | 5.98 | 4.51 | 6.19 |
| 4/6/2020 | 5.21 | 6.21 | 5.91 | 6.35 |
| 7/13/2020 | 5.14 | 5.84 | 5.16 | |
| 7/14/2020 | | | | 6.2 |
| 2/22/2021 | 5.06 | 6.1 | 5.59 | 6.19 |
| 7/12/2021 | 5.13 | 6.16 | 5.86 | 6.06 |
| 1/25/2022 | 5.11 | 6.22 | 5.9 | 6.3 |
| 7/5/2022 | 5.01 | 6.15 | 5.34 | 6.12 |
| 2/20/2023 | 5.07 | 6.24 | 6.01 | |
| 2/21/2023 | | | | 6.35 |

Time Series

Constituent: pH, Field (SU) Analysis Run 5/17/2023 2:27 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-5 | MW-6 | MW-7 | MW-8 |
|------------|------|------|------|------|
| 4/25/2016 | 6.37 | | | |
| 4/27/2016 | | 6.18 | 6.6 | 6.55 |
| 6/21/2016 | 6.35 | 6.23 | 6.62 | 6.47 |
| 10/12/2017 | 6.38 | 6.22 | 6.64 | 6.5 |
| 10/13/2017 | 6.43 | 6.23 | 6.64 | 6.51 |
| 10/14/2017 | 6.41 | 6.22 | 6.66 | 6.53 |
| 10/15/2017 | 6.42 | 6.22 | 6.67 | 6.53 |
| 10/16/2017 | 6.42 | 6.21 | 6.67 | 6.54 |
| 10/17/2017 | 6.41 | 6.2 | 6.66 | 6.54 |
| 11/16/2017 | 6.53 | 6.28 | 6.62 | 6.51 |
| 2/14/2018 | 6.39 | 6.17 | 6.67 | 6.55 |
| 5/23/2018 | 6.39 | 6.12 | 6.63 | 6.52 |
| 11/20/2018 | 6.39 | 6.14 | 6.61 | 6.58 |
| 5/14/2019 | 6.34 | | | |
| 5/15/2019 | | 5.72 | 6.61 | 6.6 |
| 10/8/2019 | | | 6.52 | |
| 10/9/2019 | | | | 6.67 |
| 10/10/2019 | 6.43 | 6.16 | | |
| 4/7/2020 | 6.43 | | | |
| 4/8/2020 | | 4.98 | 6.64 | 6.7 |
| 7/14/2020 | 6.48 | 6.12 | 6.52 | |
| 7/15/2020 | | | | 6.71 |
| 2/23/2021 | 6.47 | 6.13 | 6.7 | 6.73 |
| 7/20/2021 | | 5.99 | 6.58 | 6.64 |
| 7/21/2021 | 6.4 | | | |
| 1/31/2022 | 6.52 | 6.1 | 6.48 | |
| 2/1/2022 | | | | 6.77 |
| 7/6/2022 | 6.51 | 6.14 | 6.46 | 6.72 |
| 2/21/2023 | 6.5 | | 6.72 | 6.75 |
| 2/22/2023 | | 4.98 | | |

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/17/2023 2:27 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-1 (bg) | MW-2 (bg) | MW-3 (bg) | MW-4 (bg) |
|------------|-------------|-------------|-------------|--------------|
| 4/25/2016 | | <0.00102 | <0.01 | <0.01 |
| 4/26/2016 | 0.00261 (J) | | | |
| 6/20/2016 | 0.00242 (J) | <0.00102 | | <0.01 |
| 6/22/2016 | | | <0.01 | |
| 8/8/2016 | 0.00253 (J) | <0.00102 | | |
| 8/9/2016 | | | <0.01 | <0.01 |
| 8/24/2016 | <0.01 | <0.00102 | <0.01 | <0.01 |
| 10/3/2016 | 0.00211 (J) | <0.00102 | | <0.01 |
| 10/4/2016 | | | <0.01 | |
| 10/26/2016 | <0.01 | <0.00102 | <0.01 | <0.01 |
| 11/21/2016 | <0.01 | <0.00102 | <0.01 | <0.01 |
| 1/17/2017 | <0.01 | <0.00102 | | |
| 1/18/2017 | | | <0.01 | <0.01 |
| 3/22/2017 | 0.0022 (J) | <0.00102 | 0.0141 | <0.01 |
| 4/18/2017 | 0.0027 (J) | <0.00102 | 0.0158 | <0.01 |
| 5/30/2017 | 0.00316 (J) | | | |
| 5/31/2017 | | <0.00102 | 0.00632 (J) | <0.01 |
| 2/13/2018 | 0.00211 (J) | <0.00102 | 0.0209 | 0.00403 (J) |
| 5/22/2018 | 0.00372 (J) | <0.00102 | | |
| 5/23/2018 | | | <0.01 | |
| 5/24/2018 | | | 0.00918 (J) | |
| 6/12/2018 | 0.00409 (J) | <0.00102 | 0.00836 (J) | <0.01 |
| 10/17/2018 | <0.01 | <0.00102 | <0.01 | <0.01 |
| 11/19/2018 | <0.01 | <0.00102 | 0.00439 (J) | 0.00436 (J) |
| 4/10/2019 | 0.00471 (J) | 0.00322 (J) | 0.0113 | <0.01 |
| 5/14/2019 | 0.00316 (J) | <0.00102 | 0.0119 | 0.00201 (J) |
| 10/8/2019 | <0.01 | <0.00102 | 0.00256 (J) | |
| 10/10/2019 | | | | <0.01 |
| 10/16/2019 | <0.01 | <0.00102 | 0.00286 (J) | <0.01 |
| 4/6/2020 | 0.00275 (J) | <0.00102 | 0.01 | 0.00284 (J) |
| 7/13/2020 | 0.00245 (J) | <0.00102 | 0.0134 | |
| 7/14/2020 | | | | <0.01 |
| 2/22/2021 | 0.00241 | <0.00102 | 0.0181 | 0.00222 |
| 7/12/2021 | 0.0028 | <0.00102 | 0.0133 | 0.00155 |
| 1/25/2022 | 0.00216 | <0.00102 | 0.0154 | 0.00224 |
| 7/5/2022 | 0.00269 | <0.00102 | 0.0205 | 0.000961 (J) |
| 2/20/2023 | 0.00258 | <0.00102 | 0.0123 | |
| 2/21/2023 | | | | 0.00266 |

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/17/2023 2:27 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-5 | MW-6 | MW-7 | MW-8 |
|------------|-------------|-----------|--------------|-----------|
| 4/25/2016 | <0.01 | | | |
| 4/27/2016 | | <0.001015 | 0.00445 (J) | <0.001015 |
| 6/21/2016 | <0.01 | <0.001015 | <0.001015 | <0.001015 |
| 10/12/2017 | <0.01 | <0.001015 | <0.001015 | <0.001015 |
| 10/13/2017 | <0.01 | <0.001015 | <0.001015 | <0.001015 |
| 10/14/2017 | <0.01 | <0.001015 | <0.001015 | <0.001015 |
| 10/15/2017 | 0.00254 (J) | <0.001015 | <0.001015 | <0.001015 |
| 10/16/2017 | <0.01 | <0.001015 | <0.001015 | <0.001015 |
| 10/17/2017 | 0.00288 (J) | <0.001015 | <0.001015 | <0.001015 |
| 2/14/2018 | <0.01 | <0.001015 | <0.001015 | <0.001015 |
| 5/23/2018 | <0.01 | <0.001015 | <0.001015 | <0.001015 |
| 11/20/2018 | <0.01 | <0.001015 | <0.001015 | <0.001015 |
| 5/14/2019 | <0.01 | | | |
| 5/15/2019 | | <0.001015 | <0.001015 | <0.001015 |
| 10/8/2019 | | | <0.001015 | |
| 10/9/2019 | | | | <0.001015 |
| 10/10/2019 | <0.01 | <0.001015 | | |
| 4/7/2020 | <0.01 | | | |
| 4/8/2020 | | <0.001015 | <0.001015 | <0.001015 |
| 7/14/2020 | <0.01 | <0.001015 | <0.001015 | |
| 7/15/2020 | | | | <0.001015 |
| 2/23/2021 | 0.00233 | <0.001015 | <0.001015 | <0.001015 |
| 7/20/2021 | | <0.001015 | <0.001015 | <0.001015 |
| 7/21/2021 | 0.00178 | | | |
| 1/31/2022 | 0.00237 | <0.001015 | <0.001015 | |
| 2/1/2022 | | | | <0.001015 |
| 7/6/2022 | 0.0017 | <0.001015 | 0.000677 (J) | <0.001015 |
| 2/21/2023 | 0.00124 | | <0.001015 | <0.001015 |
| 2/22/2023 | | 0.0019 | | |

Time Series

Constituent: Sulfate as SO₄ (mg/L) Analysis Run 5/17/2023 2:27 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-1 (bg) | MW-2 (bg) | MW-3 (bg) | MW-4 (bg) |
|------------|-----------|-----------|-----------|-----------|
| 4/25/2016 | | 745 | 1890 | 2260 |
| 4/26/2016 | 1490 | | | |
| 6/20/2016 | 1420 | 964 | | 2500 |
| 6/22/2016 | | | 2100 | |
| 8/8/2016 | 1460 | 1100 | | |
| 8/9/2016 | | | 2050 | 2750 |
| 8/24/2016 | 1450 | 1130 | 2190 | 2770 |
| 10/3/2016 | 1460 | 1140 | | 3060 |
| 10/4/2016 | | | 1950 | |
| 10/26/2016 | 1330 | 1060 | 1980 | 2650 |
| 11/21/2016 | 1420 | 1100 | 2060 | 2720 |
| 1/17/2017 | 1350 | 1160 | | |
| 1/18/2017 | | | 2620 | 2650 |
| 3/22/2017 | 1500 | 900 | 3200 | 2700 |
| 4/18/2017 | 1300 | 870 | 2500 | 2400 |
| 5/30/2017 | 1400 | | | |
| 5/31/2017 | | 1100 | 2800 | 2700 |
| 8/23/2017 | 1500 | 920 | 2600 | 2700 |
| 5/22/2018 | 2100 (o) | 1200 | | |
| 5/23/2018 | | | | 2400 |
| 5/24/2018 | | | 2700 | |
| 6/12/2018 | 1500 | 860 | 2500 | 2600 |
| 10/17/2018 | 1400 | 970 | 2700 | 2600 |
| 11/19/2018 | 1300 | 1000 | 3000 | 2400 |
| 4/10/2019 | 1700 | 889 | 2460 | 2090 |
| 5/14/2019 | 1560 | 948 | 2460 | 2240 |
| 10/8/2019 | 1540 | 1230 | 2950 | |
| 10/10/2019 | | | | 2690 |
| 10/16/2019 | 1680 | 1170 | 2820 | 3050 |
| 4/6/2020 | 1530 | 786 | 1670 | 1810 |
| 7/13/2020 | 1450 | 843 | 2130 | |
| 7/14/2020 | | | | 1970 |
| 2/22/2021 | 1400 | 864 | 3040 | 2040 |
| 7/12/2021 | 1560 | 763 | 2380 | 1930 |
| 1/25/2022 | 1430 | 842 | 2550 | 1930 |
| 7/5/2022 | 1600 | 819 | 3110 | 2380 |
| 2/20/2023 | 1520 | 767 | 2110 | |
| 2/21/2023 | | | | 1930 |

Time Series

Constituent: Sulfate as SO₄ (mg/L) Analysis Run 5/17/2023 2:27 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-5 | MW-6 | MW-7 | MW-8 |
|------------|------|------|----------|----------|
| 4/25/2016 | 2390 | | | |
| 4/27/2016 | | 2090 | 1050 | 1550 |
| 6/21/2016 | 2500 | 2000 | 1410 | 1470 |
| 10/12/2017 | 2300 | 2000 | 1400 | 1400 |
| 10/13/2017 | 2300 | 2000 | 1400 | 1600 |
| 10/14/2017 | 2300 | 1900 | 1300 | 1400 |
| 10/15/2017 | 2300 | 1900 | 1300 | 1400 |
| 10/16/2017 | 2300 | 1900 | 1300 | 1400 |
| 10/17/2017 | 2200 | 1900 | 1300 | 1400 |
| 11/16/2017 | 2200 | 1800 | 1300 | 1400 |
| 5/23/2018 | 2400 | 2000 | 1900 (O) | 2100 (o) |
| 11/20/2018 | 2500 | 2200 | 1100 | 1400 |
| 5/14/2019 | 2380 | | | |
| 5/15/2019 | | 2110 | 1510 | 1640 |
| 10/8/2019 | | | 1570 | |
| 10/9/2019 | | | | 1550 |
| 10/10/2019 | 2460 | 2330 | | |
| 4/7/2020 | 2050 | | | |
| 4/8/2020 | | 1900 | 1270 | 1380 |
| 7/14/2020 | 2080 | 1970 | 1330 | |
| 7/15/2020 | | | | 1410 |
| 2/23/2021 | 2210 | 2010 | 1320 | 1420 |
| 7/20/2021 | | 1930 | 1170 | 1500 |
| 7/21/2021 | 2240 | | | |
| 1/31/2022 | 2310 | 2080 | 1370 | |
| 2/1/2022 | | | | 1500 |
| 7/6/2022 | 2320 | 2100 | 1330 | 1460 |
| 2/21/2023 | 2210 | | 1450 | 1510 |
| 2/22/2023 | | 1870 | | |

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/17/2023 2:27 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-1 (bg) | MW-2 (bg) | MW-3 (bg) | MW-4 (bg) |
|------------|-----------|-----------|--------------|-----------|
| 4/25/2016 | | <0.0002 | 0.000205 (J) | <0.000203 |
| 4/26/2016 | <0.0002 | | | |
| 6/20/2016 | <0.0002 | <0.0002 | | <0.000203 |
| 6/22/2016 | | | <0.0002 | |
| 8/8/2016 | <0.0002 | <0.0002 | | |
| 8/9/2016 | | | <0.0002 | <0.000203 |
| 8/24/2016 | <0.0002 | <0.0002 | <0.0002 | <0.000203 |
| 10/3/2016 | <0.0002 | <0.0002 | | <0.000203 |
| 10/4/2016 | | | <0.0002 | |
| 10/26/2016 | <0.0002 | <0.0002 | 0.000209 (J) | <0.000203 |
| 11/21/2016 | <0.0002 | <0.0002 | <0.0002 | <0.000203 |
| 1/17/2017 | <0.0002 | <0.0002 | | |
| 1/18/2017 | | | <0.0002 | <0.000203 |
| 3/22/2017 | <0.0002 | <0.0002 | <0.0002 | <0.000203 |
| 4/18/2017 | <0.0002 | <0.0002 | <0.0002 | <0.000203 |
| 5/30/2017 | <0.0002 | | | |
| 5/31/2017 | | <0.0002 | <0.0002 | <0.000203 |
| 2/13/2018 | <0.0002 | <0.0002 | <0.0002 | <0.000203 |
| 5/22/2018 | <0.0002 | <0.0002 | | |
| 5/23/2018 | | | <0.000203 | |
| 5/24/2018 | | | <0.0002 | |
| 6/12/2018 | <0.0002 | <0.0002 | <0.0002 | <0.000203 |
| 10/17/2018 | <0.0002 | <0.0002 | <0.0002 | <0.000203 |
| 11/19/2018 | <0.0002 | <0.0002 | 0.000226 (J) | <0.000203 |
| 4/10/2019 | <0.0002 | <0.0002 | <0.0002 | <0.000203 |
| 5/14/2019 | <0.0002 | <0.0002 | <0.0002 | <0.000203 |
| 10/8/2019 | <0.0002 | <0.0002 | <0.0002 | |
| 10/10/2019 | | | <0.000203 | |
| 10/16/2019 | <0.0002 | <0.0002 | <0.0002 | <0.000203 |
| 4/6/2020 | <0.0002 | <0.0002 | <0.0002 | <0.000203 |
| 7/13/2020 | <0.0002 | <0.0002 | <0.0002 | |
| 7/14/2020 | | | <0.000203 | |
| 2/22/2021 | <0.0002 | <0.0002 | <0.0002 | <0.000203 |
| 7/12/2021 | <0.0002 | <0.0002 | <0.0002 | <0.000203 |
| 1/25/2022 | <0.0002 | <0.0002 | <0.0002 | <0.000203 |
| 7/5/2022 | <0.0002 | <0.0002 | <0.0002 | <0.000203 |
| 2/20/2023 | <0.0002 | <0.0002 | <0.0002 | |
| 2/21/2023 | | | <0.000203 | |

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/17/2023 2:27 PM
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-5 | MW-6 | MW-7 | MW-8 |
|------------|--------------|--------------|-----------|-----------|
| 4/25/2016 | <0.000203 | | | |
| 4/27/2016 | | <0.000203 | <0.000203 | <0.000203 |
| 6/21/2016 | <0.000203 | <0.000203 | <0.000203 | <0.000203 |
| 10/12/2017 | <0.000203 | <0.000203 | <0.000203 | <0.000203 |
| 10/13/2017 | <0.000203 | <0.000203 | <0.000203 | <0.000203 |
| 10/14/2017 | <0.000203 | <0.000203 | <0.000203 | <0.000203 |
| 10/15/2017 | <0.000203 | <0.000203 | <0.000203 | <0.000203 |
| 10/16/2017 | 0.000375 (J) | <0.000203 | <0.000203 | <0.000203 |
| 10/17/2017 | <0.000203 | <0.000203 | <0.000203 | <0.000203 |
| 2/14/2018 | <0.000203 | <0.000203 | <0.000203 | <0.000203 |
| 5/23/2018 | <0.000203 | <0.000203 | <0.000203 | <0.000203 |
| 11/20/2018 | <0.000203 | <0.000203 | <0.000203 | <0.000203 |
| 5/14/2019 | <0.000203 | | | |
| 5/15/2019 | | <0.000203 | <0.000203 | <0.000203 |
| 10/8/2019 | | | <0.000203 | |
| 10/9/2019 | | | | <0.000203 |
| 10/10/2019 | <0.000203 | <0.000203 | | |
| 4/7/2020 | <0.000203 | | | |
| 4/8/2020 | | <0.000203 | <0.000203 | <0.000203 |
| 7/14/2020 | <0.000203 | <0.000203 | <0.000203 | |
| 7/15/2020 | | | | <0.000203 |
| 2/23/2021 | <0.000203 | <0.000203 | <0.000203 | <0.000203 |
| 7/20/2021 | | <0.000203 | <0.000203 | <0.000203 |
| 7/21/2021 | <0.000203 | | | |
| 1/31/2022 | 7E-05 (J) | 0.00011 (J) | <0.000203 | |
| 2/1/2022 | | | | <0.000203 |
| 7/6/2022 | <0.000203 | <0.000203 | <0.000203 | <0.000203 |
| 2/21/2023 | <0.000203 | | <0.000203 | <0.000203 |
| 2/22/2023 | | 0.000143 (J) | | |

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/17/2023 2:27 PM

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-1 (bg) | MW-2 (bg) | MW-3 (bg) | MW-4 (bg) |
|------------|-----------|-----------|-----------|-----------|
| 4/25/2016 | | 1260 | 2720 | 3300 |
| 4/26/2016 | 2080 | | | |
| 6/20/2016 | 2060 | 1620 | | 3870 |
| 6/22/2016 | | | 3250 | |
| 8/8/2016 | 2070 | 1740 | | |
| 8/9/2016 | | | 3050 | 4140 |
| 8/24/2016 | 2040 | 1720 | 3080 | 4190 |
| 10/3/2016 | 2110 | 1800 | | 4190 |
| 10/4/2016 | | | 2900 | |
| 10/26/2016 | 2000 | 1800 | 2940 | 4400 |
| 11/21/2016 | 2070 | 1740 | 3090 | 4230 |
| 1/17/2017 | 1930 | 1960 | | |
| 1/18/2017 | | | 4020 | 4120 |
| 3/22/2017 | 2060 | 1510 | 4180 | 3980 |
| 4/18/2017 | 2140 | 1580 | 4440 | 3880 |
| 5/30/2017 | 2240 | | | |
| 5/31/2017 | | 1730 | 3970 | 4210 |
| 8/23/2017 | 2160 | 1550 | 4050 | 3990 |
| 5/22/2018 | 2380 | 1500 | | |
| 5/23/2018 | | | 3740 | |
| 5/24/2018 | | | 3680 | |
| 6/12/2018 | 2400 | 1550 | 3820 | 4080 |
| 10/17/2018 | 2220 | 1740 | 4730 | 4250 |
| 11/19/2018 | 2360 | 1990 | 4710 | 3920 |
| 4/10/2019 | 2630 | 1250 | 3680 | 3280 |
| 5/14/2019 | 2340 | 1480 | 3580 | 3130 (D) |
| 10/8/2019 | 2330 | 1840 | 4720 | |
| 10/10/2019 | | | 4000 | |
| 10/16/2019 | 3650 (o) | 1830 | 4210 | 4060 |
| 4/6/2020 | 2240 | 1440 | 2630 | 2820 |
| 7/13/2020 | 2240 | 1540 | 3650 | |
| 7/14/2020 | | | 3310 | |
| 2/22/2021 | 2230 | 1620 | 4670 | 3190 |
| 7/12/2021 | 2210 | 1390 | 3510 | 3000 |
| 1/25/2022 | 2150 | 1500 | 3950 | 3180 |
| 7/5/2022 | 2100 | 1250 | 4220 | 3240 |
| 2/20/2023 | 2280 | 1420 | 3230 | |
| 2/21/2023 | | | 3160 | |

Time Series

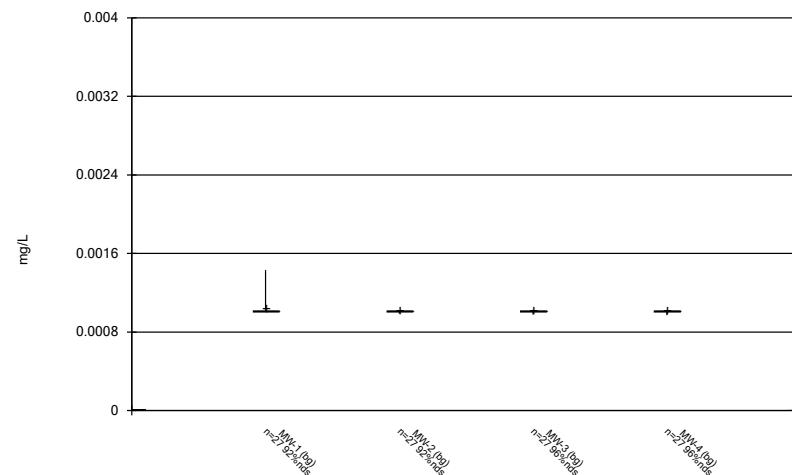
Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/17/2023 2:27 PM

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-5 | MW-6 | MW-7 | MW-8 |
|------------|------|------|------|------|
| 4/25/2016 | 3660 | | | |
| 4/27/2016 | | 3290 | 1640 | 2480 |
| 6/21/2016 | 3920 | 3250 | 2460 | 2360 |
| 10/12/2017 | 4000 | 3220 | 2460 | 2530 |
| 10/13/2017 | 3960 | 3250 | 2420 | 2740 |
| 10/14/2017 | 3910 | 3260 | 2320 | 2630 |
| 10/15/2017 | 3890 | 3260 | 1150 | 2530 |
| 10/16/2017 | 3980 | 3360 | 2320 | 2740 |
| 10/17/2017 | 3940 | 3420 | 2360 | 2650 |
| 11/16/2017 | 3930 | 3280 | 2460 | 2650 |
| 5/23/2018 | 3660 | 3340 | 2390 | 2750 |
| 11/20/2018 | 3780 | 3330 | 2090 | 2520 |
| 5/14/2019 | 3520 | | | |
| 5/15/2019 | | 3130 | 2310 | 2540 |
| 10/8/2019 | | | 2340 | |
| 10/9/2019 | | | | 2590 |
| 10/10/2019 | 3830 | 3260 | | |
| 4/7/2020 | 3270 | | | |
| 4/8/2020 | | 2940 | 2230 | 2450 |
| 7/14/2020 | 3710 | 3270 | 2210 | |
| 7/15/2020 | | | | 2460 |
| 2/23/2021 | 3740 | 3230 | 2320 | 2550 |
| 7/20/2021 | | 3090 | 2110 | 2420 |
| 7/21/2021 | 3570 | | | |
| 1/31/2022 | 3560 | 3050 | 2140 | |
| 2/1/2022 | | | | 2420 |
| 7/6/2022 | 3390 | 3110 | 2110 | 2320 |
| 2/21/2023 | 3310 | | 2220 | 2370 |
| 2/22/2023 | | 2790 | | |

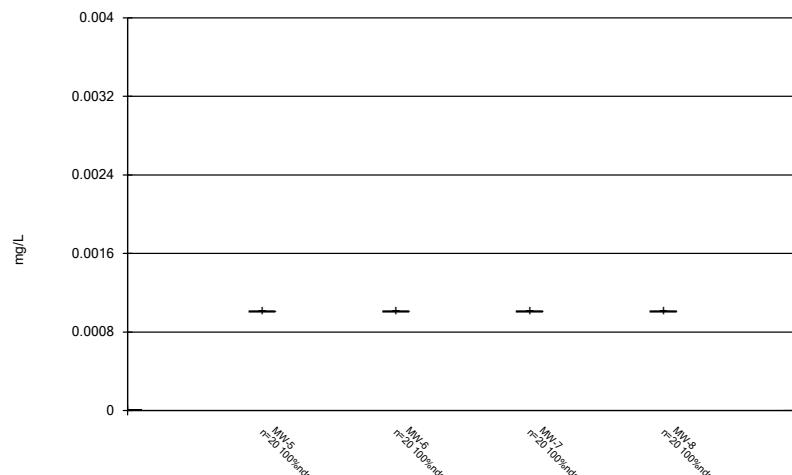
FIGURE B.

Box & Whiskers Plot



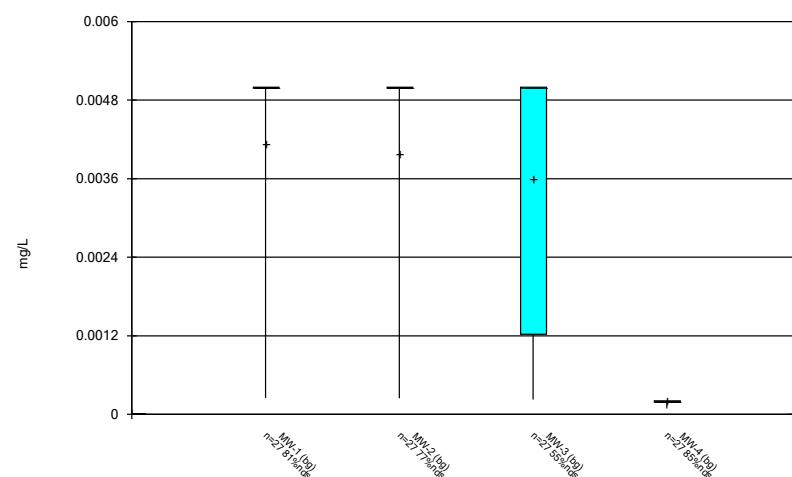
Constituent: Antimony Analysis Run 5/17/2023 2:29 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



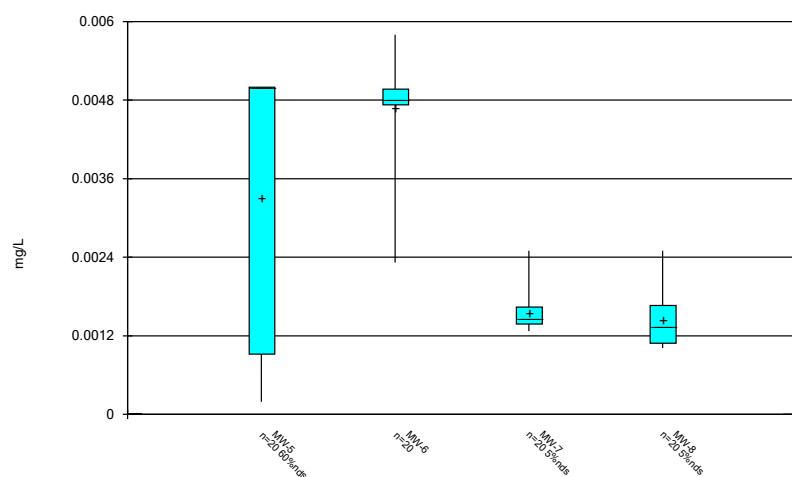
Constituent: Antimony Analysis Run 5/17/2023 2:29 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



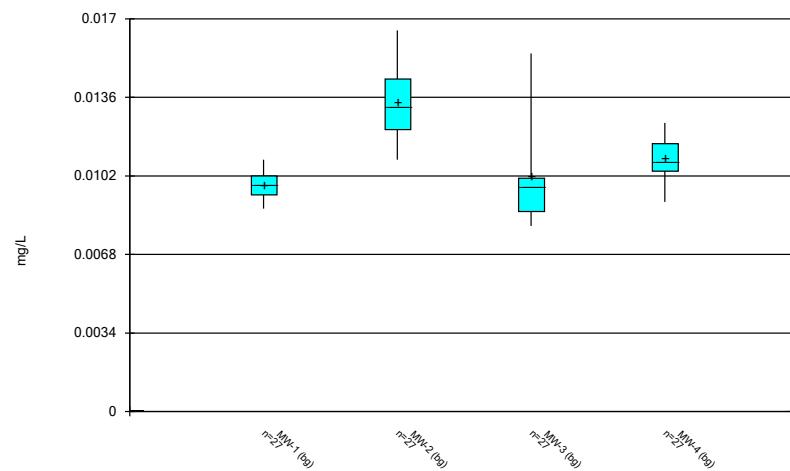
Constituent: Arsenic Analysis Run 5/17/2023 2:29 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



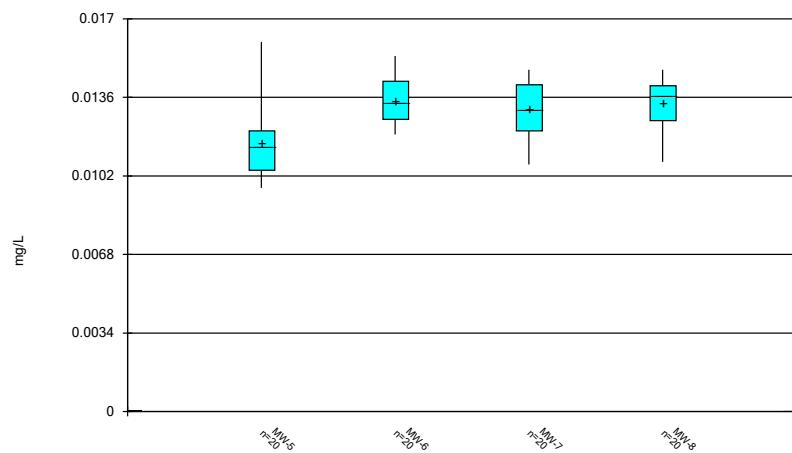
Constituent: Arsenic Analysis Run 5/17/2023 2:29 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



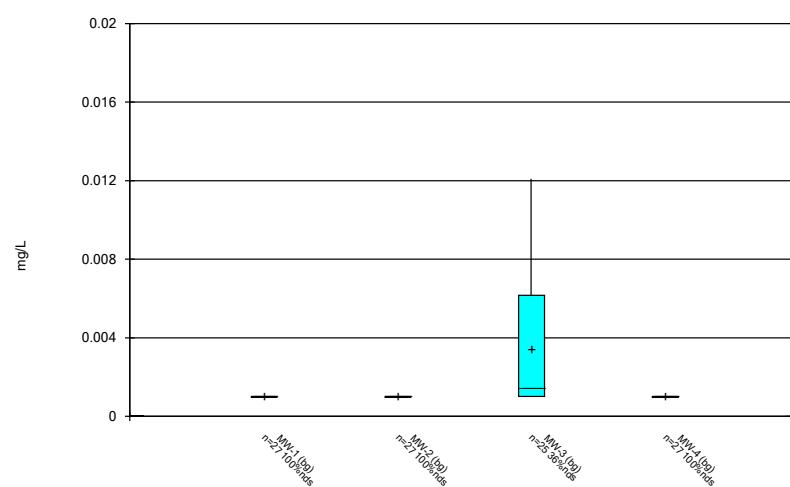
Constituent: Barium Analysis Run 5/17/2023 2:29 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



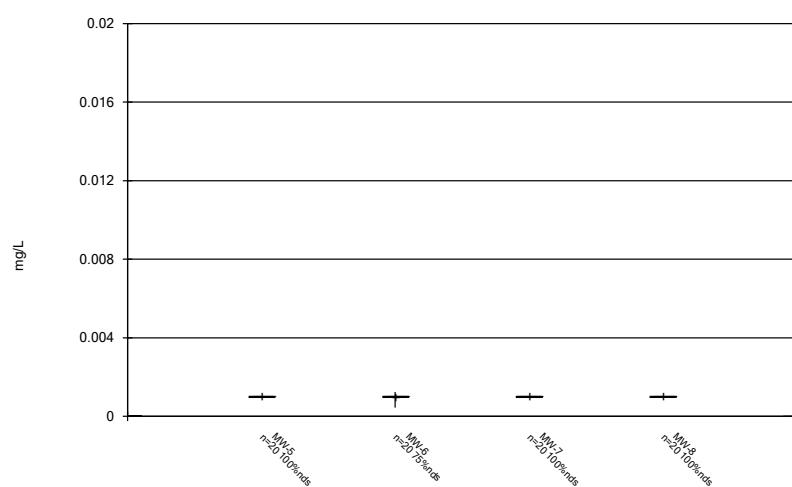
Constituent: Barium Analysis Run 5/17/2023 2:29 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



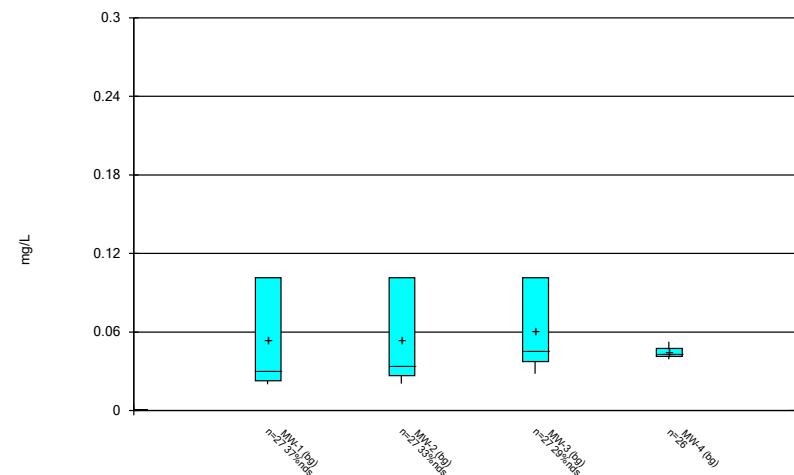
Constituent: Beryllium Analysis Run 5/17/2023 2:30 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



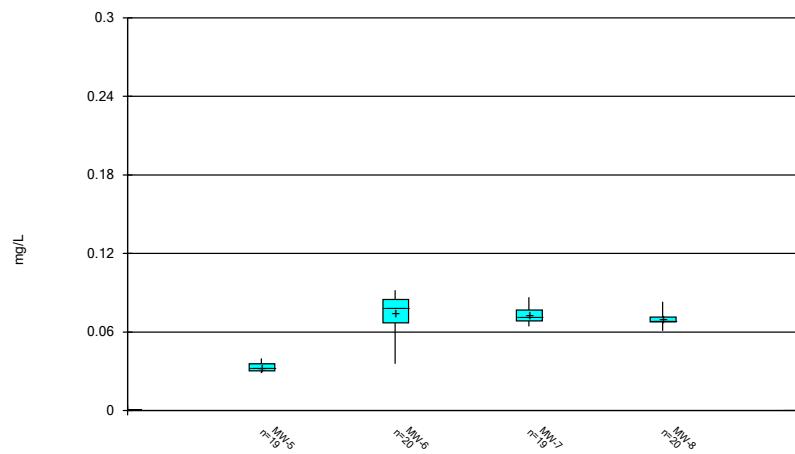
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Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



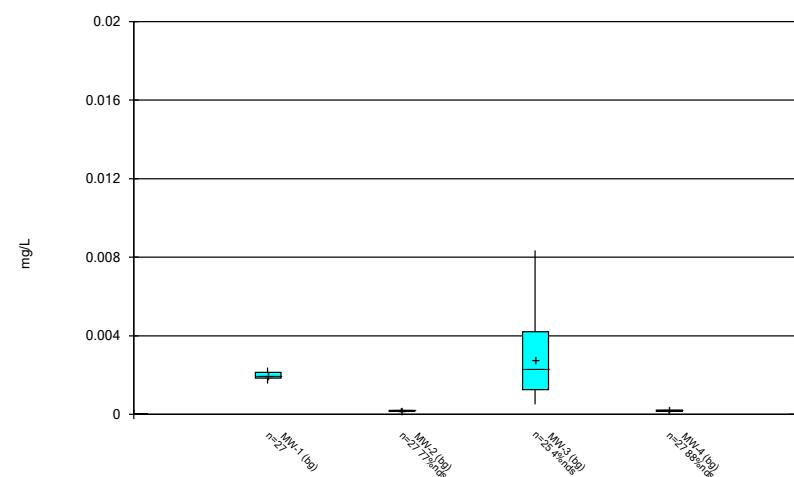
Constituent: Boron, total Analysis Run 5/17/2023 2:30 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



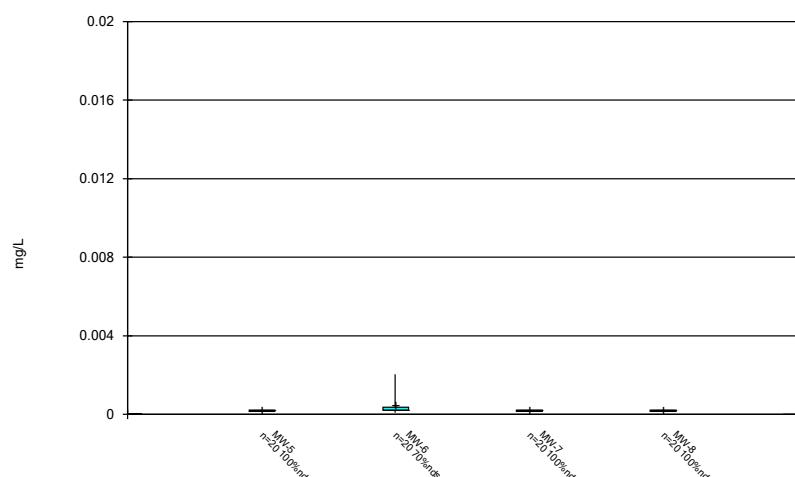
Constituent: Boron, total Analysis Run 5/17/2023 2:30 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



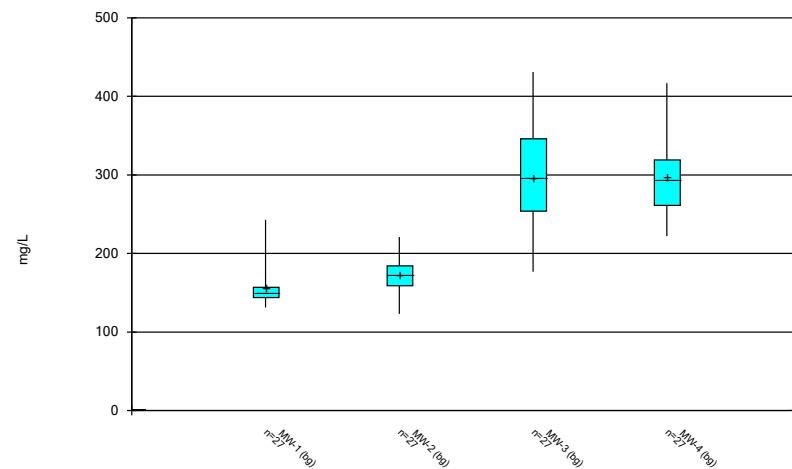
Constituent: Cadmium Analysis Run 5/17/2023 2:30 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



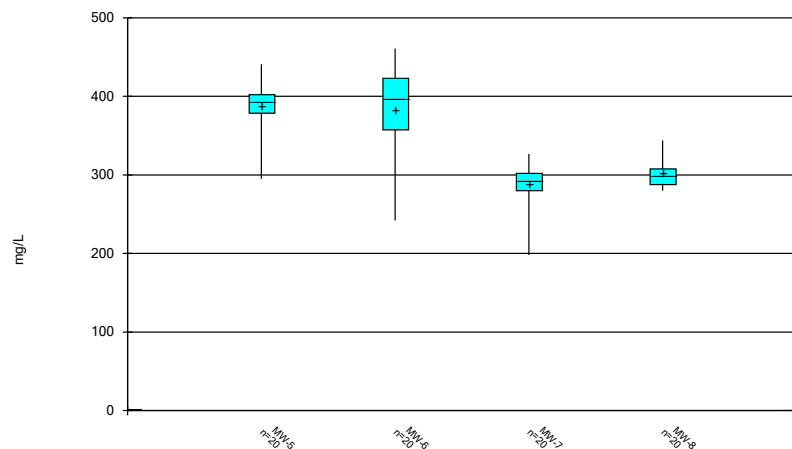
Constituent: Cadmium Analysis Run 5/17/2023 2:30 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



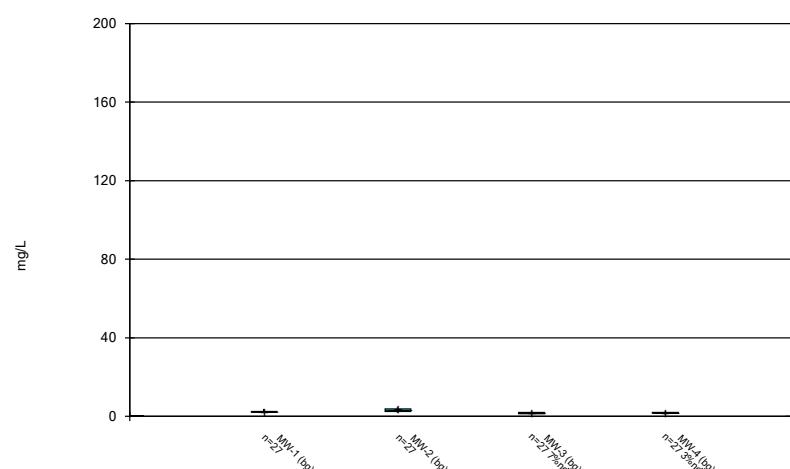
Constituent: Calcium, total Analysis Run 5/17/2023 2:30 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



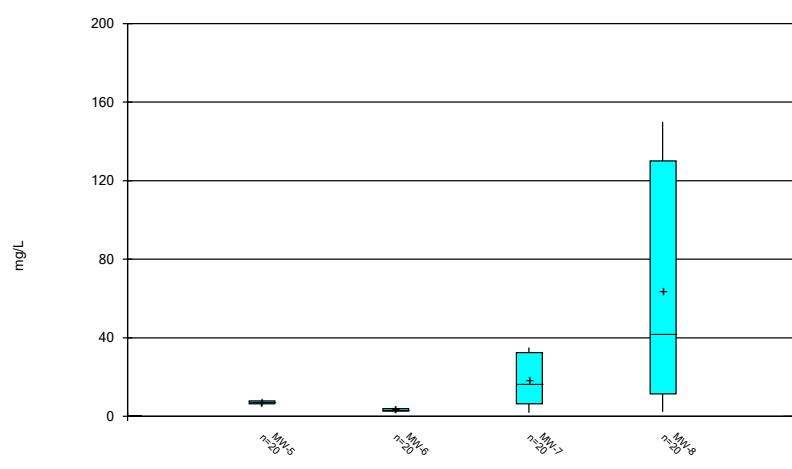
Constituent: Calcium, total Analysis Run 5/17/2023 2:30 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



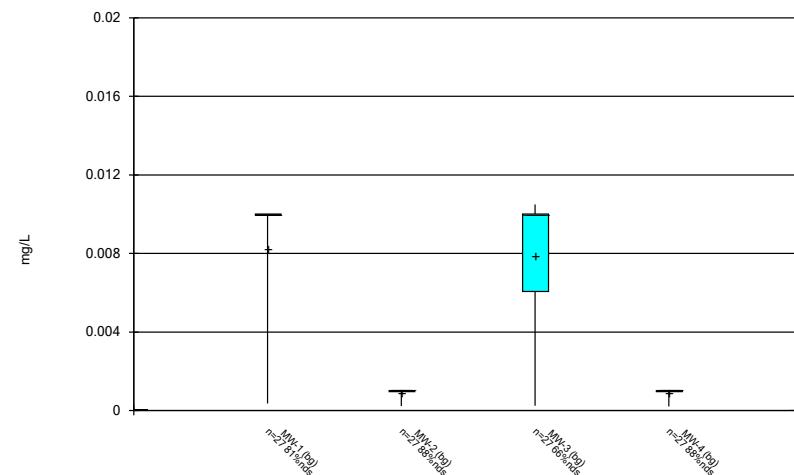
Constituent: Chloride, Total Analysis Run 5/17/2023 2:30 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



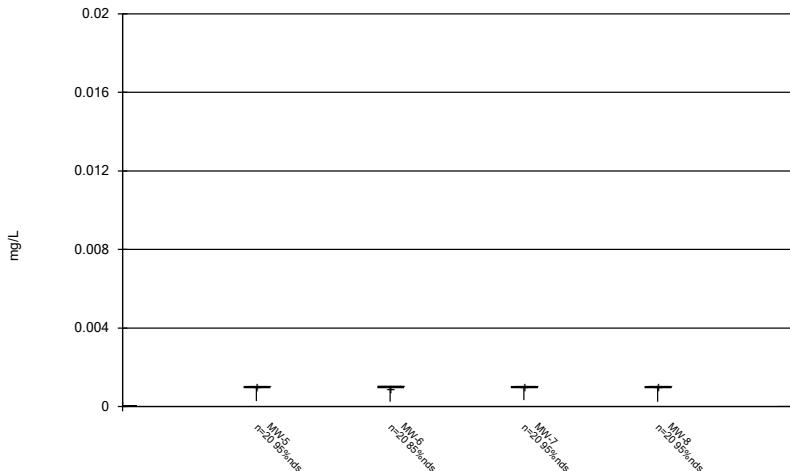
Constituent: Chloride, Total Analysis Run 5/17/2023 2:30 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



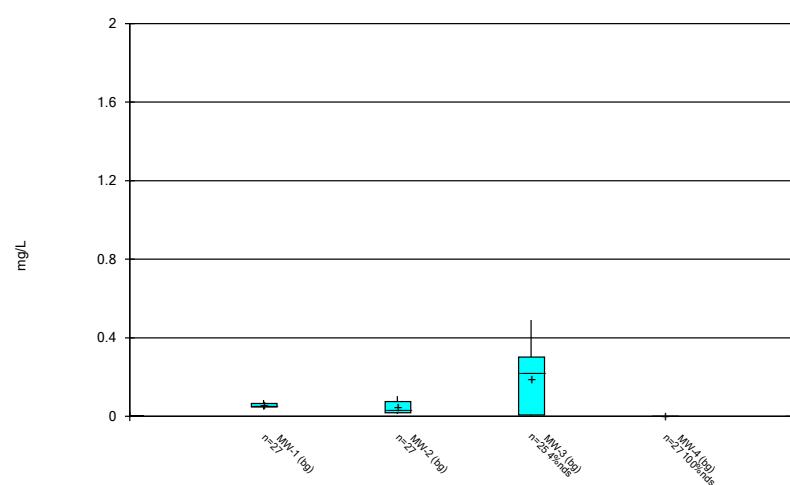
Constituent: Chromium Analysis Run 5/17/2023 2:30 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



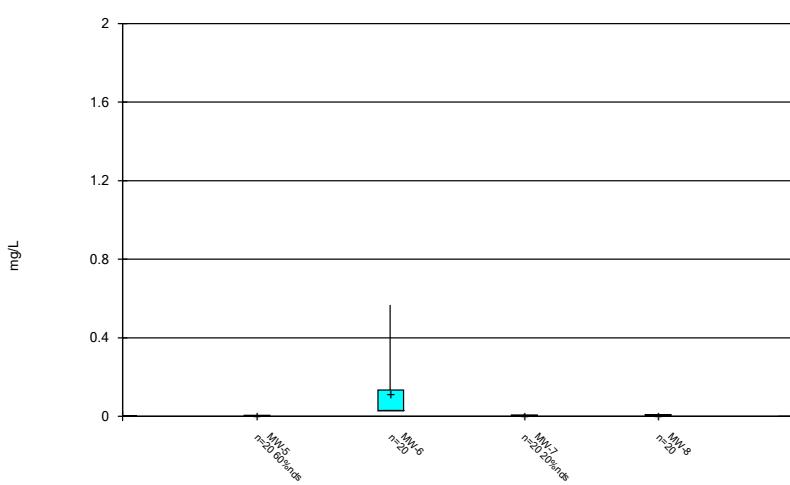
Constituent: Chromium Analysis Run 5/17/2023 2:30 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



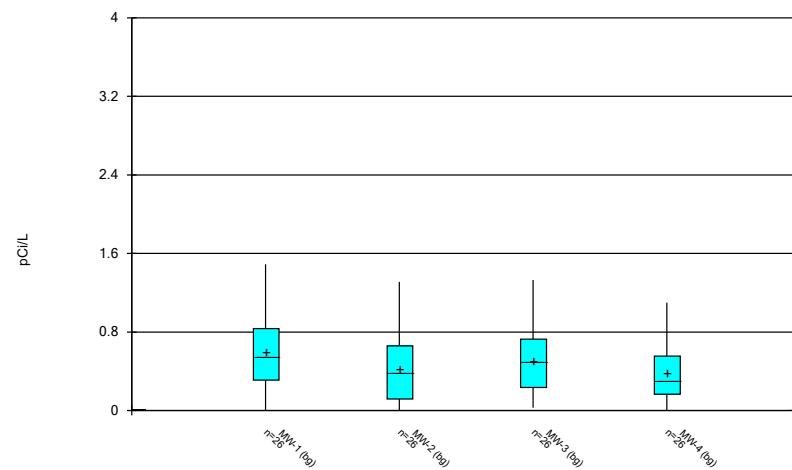
Constituent: Cobalt Analysis Run 5/17/2023 2:30 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



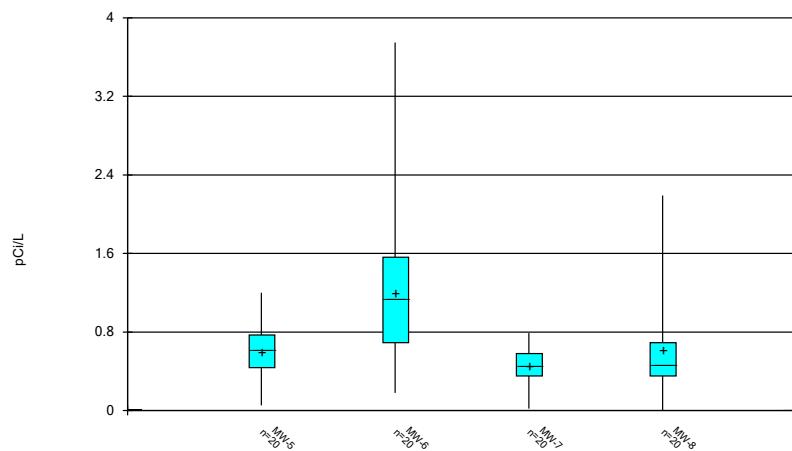
Constituent: Cobalt Analysis Run 5/17/2023 2:30 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



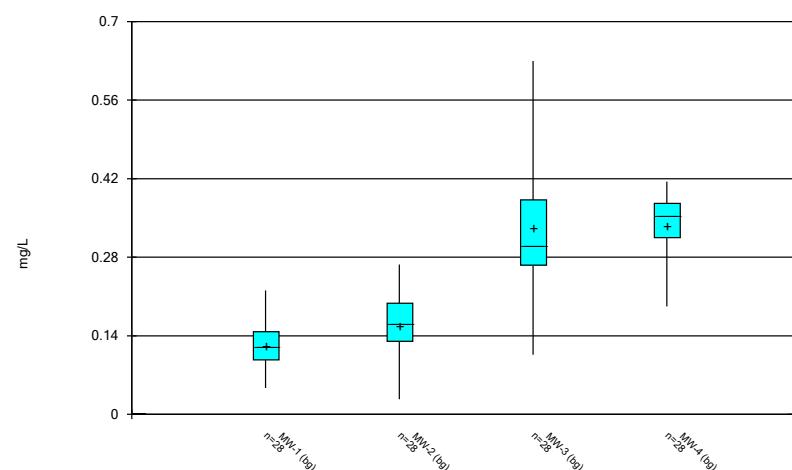
Constituent: Combined Radium 226 + 228 Analysis Run 5/17/2023 2:30 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



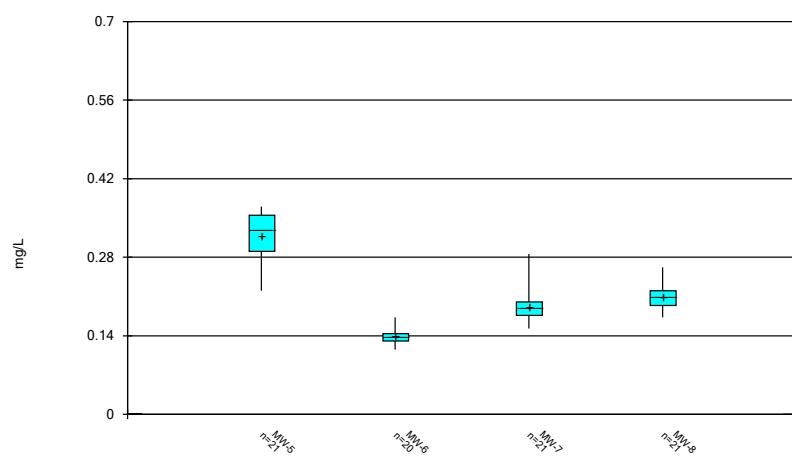
Constituent: Combined Radium 226 + 228 Analysis Run 5/17/2023 2:30 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



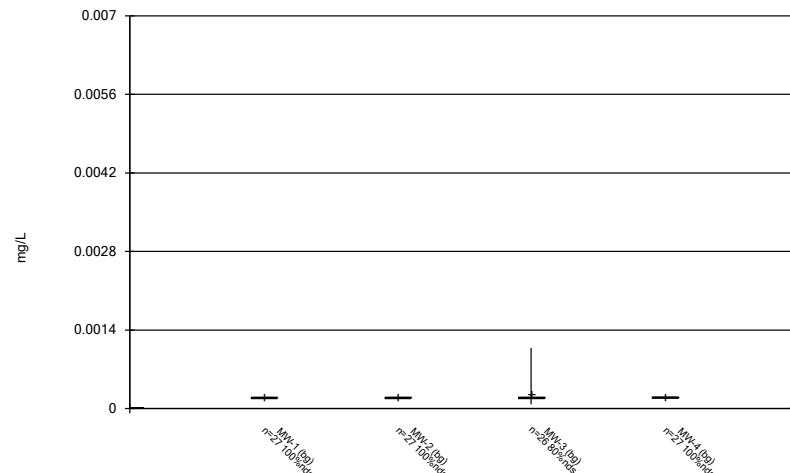
Constituent: Fluoride, total Analysis Run 5/17/2023 2:30 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



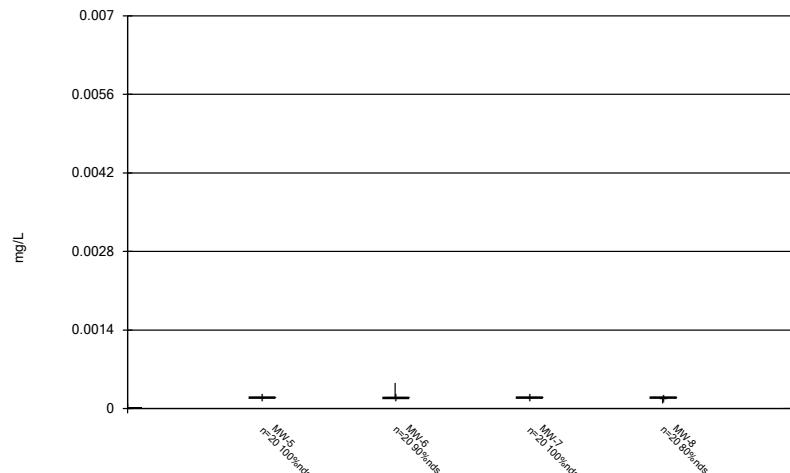
Constituent: Fluoride, total Analysis Run 5/17/2023 2:30 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



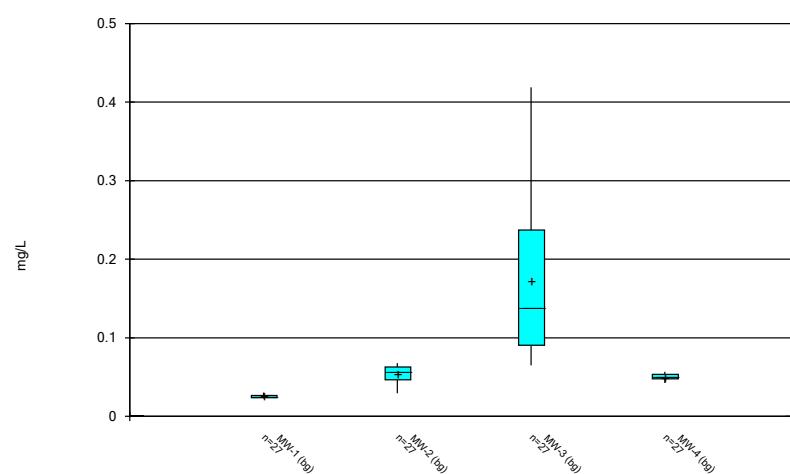
Constituent: Lead Analysis Run 5/17/2023 2:30 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



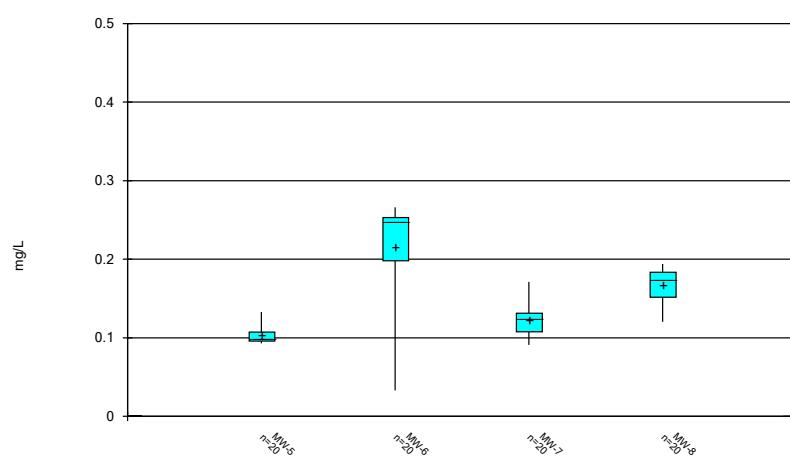
Constituent: Lead Analysis Run 5/17/2023 2:30 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



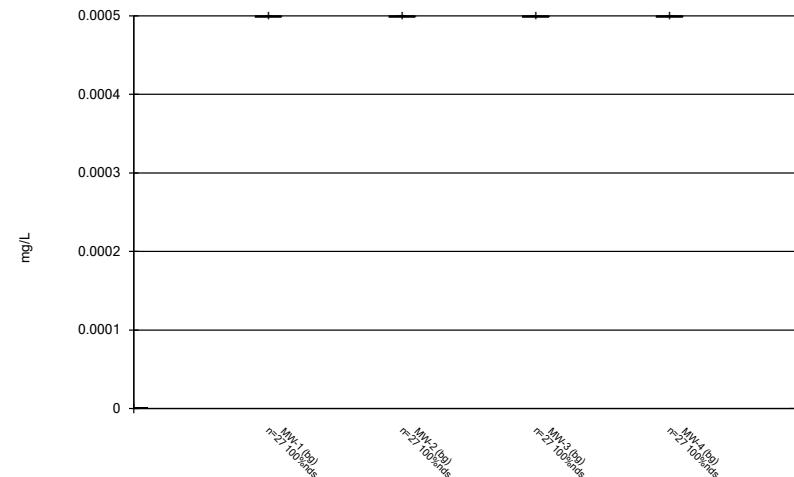
Constituent: Lithium Analysis Run 5/17/2023 2:30 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



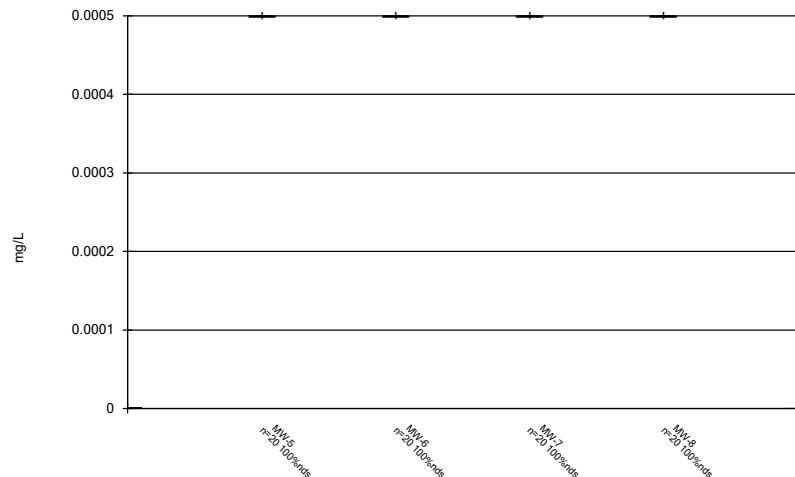
Constituent: Lithium Analysis Run 5/17/2023 2:30 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



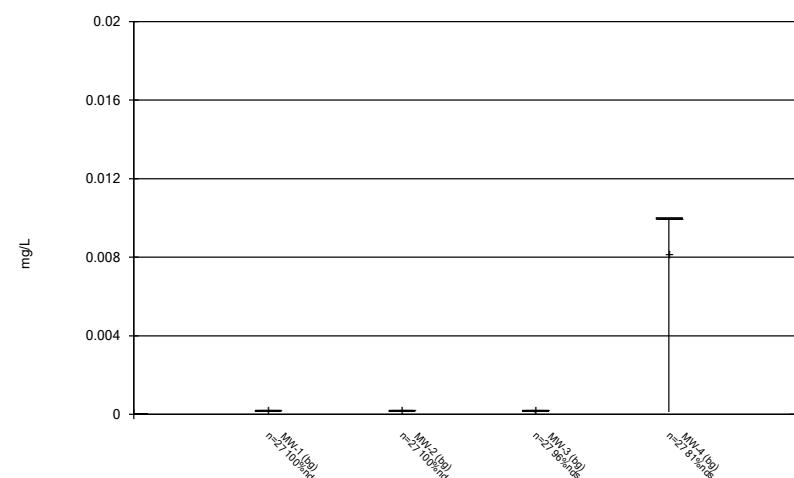
Constituent: Mercury Analysis Run 5/17/2023 2:30 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



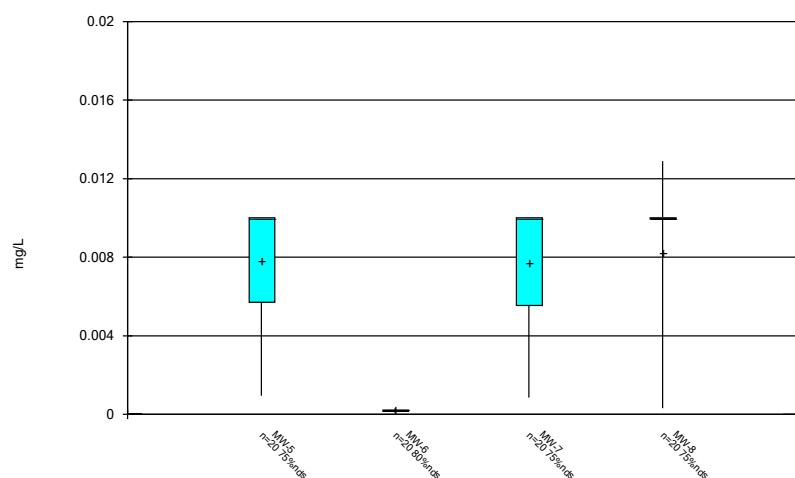
Constituent: Mercury Analysis Run 5/17/2023 2:30 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



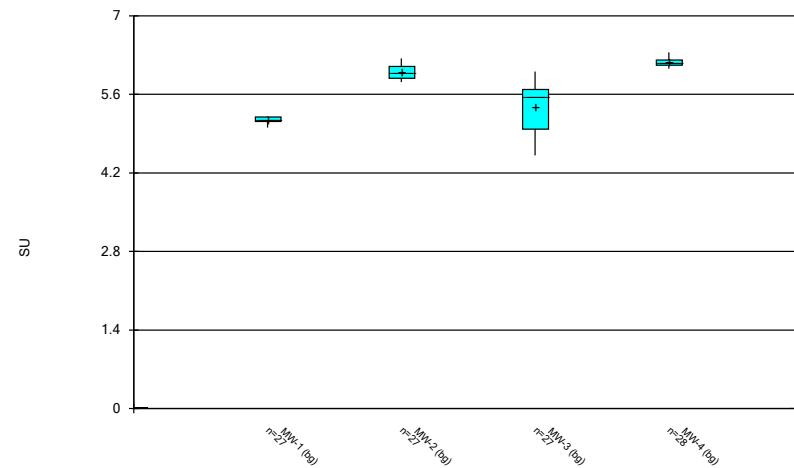
Constituent: Molybdenum Analysis Run 5/17/2023 2:30 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



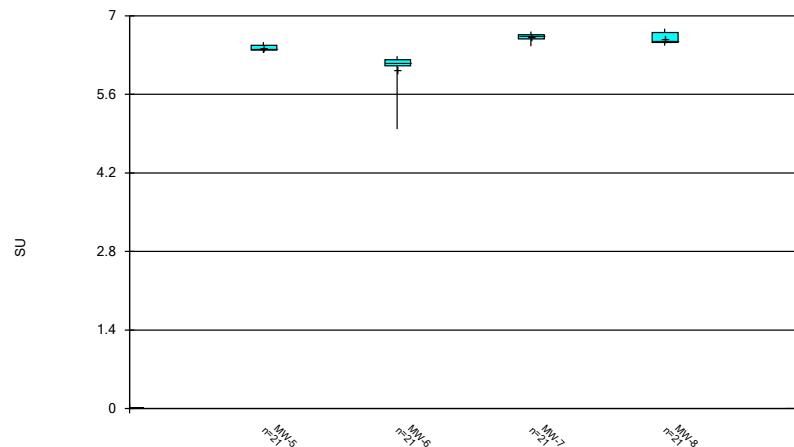
Constituent: Molybdenum Analysis Run 5/17/2023 2:30 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



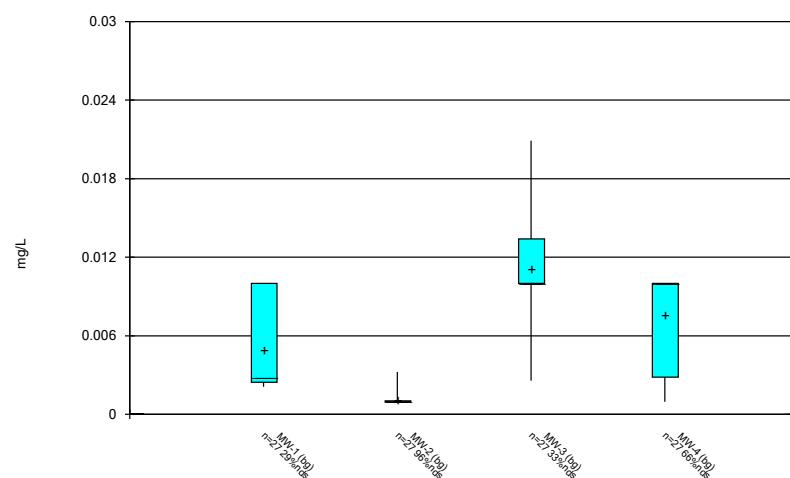
Constituent: pH, Field Analysis Run 5/17/2023 2:30 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



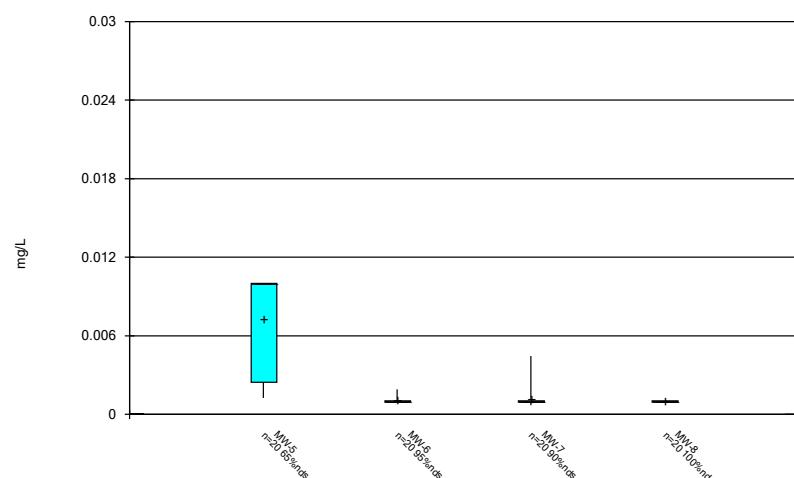
Constituent: pH, Field Analysis Run 5/17/2023 2:30 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



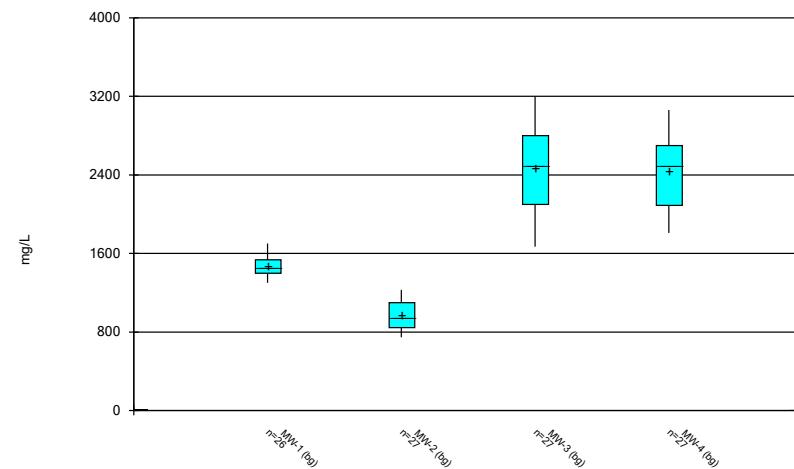
Constituent: Selenium Analysis Run 5/17/2023 2:30 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



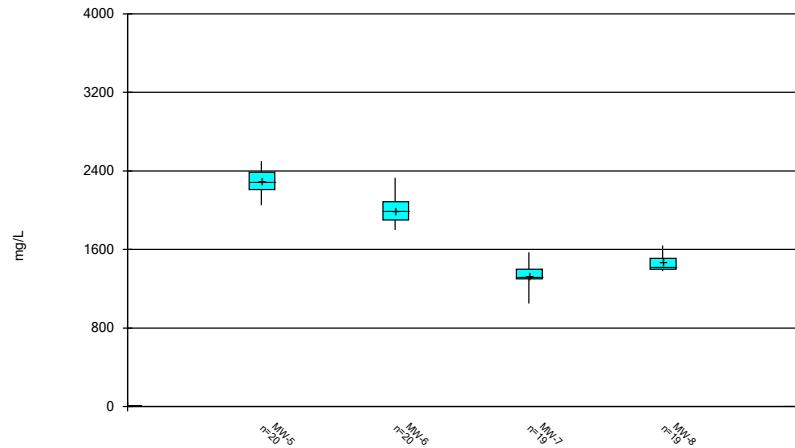
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Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



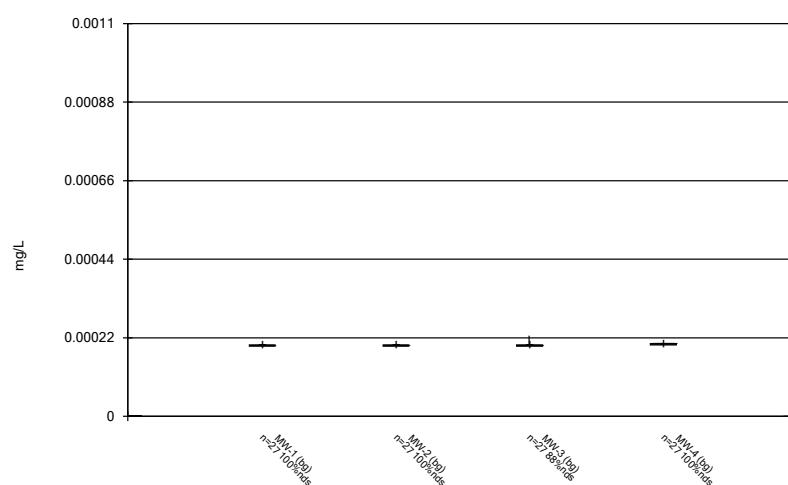
Constituent: Sulfate as SO₄ Analysis Run 5/17/2023 2:30 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



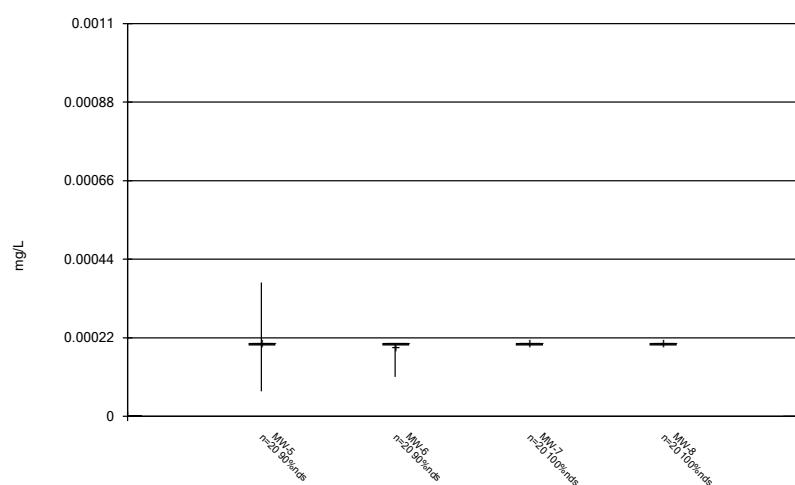
Constituent: Sulfate as SO₄ Analysis Run 5/17/2023 2:30 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



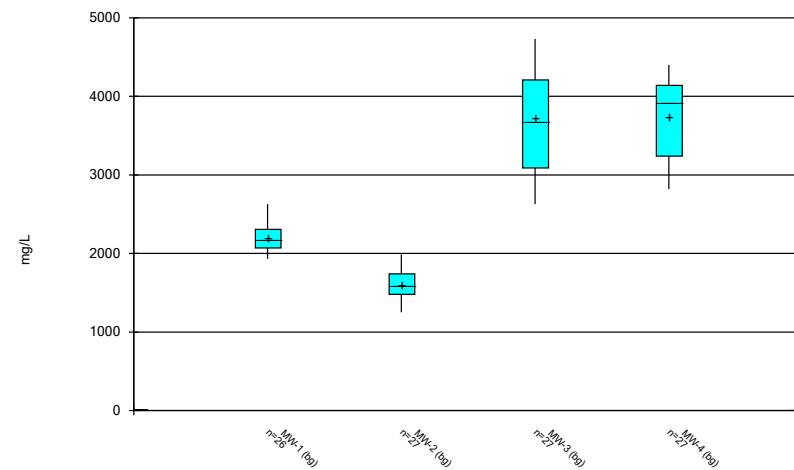
Constituent: Thallium Analysis Run 5/17/2023 2:30 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



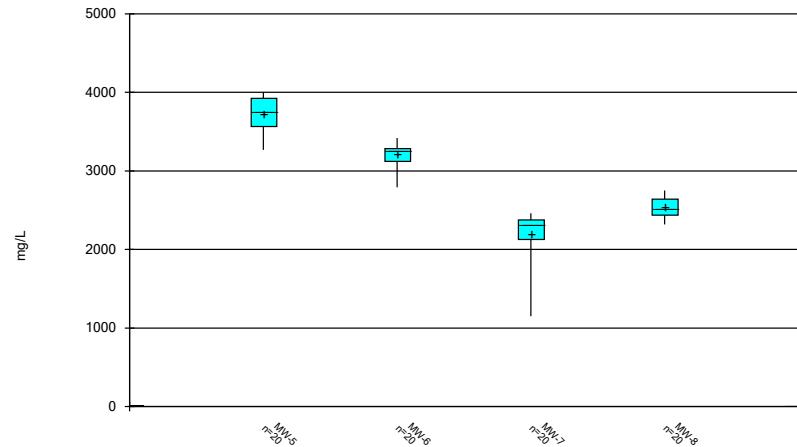
Constituent: Thallium Analysis Run 5/17/2023 2:30 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 5/17/2023 2:30 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 5/17/2023 2:30 PM
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

FIGURE C.

Outlier Summary

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF Printed 5/17/2023, 2:31 PM

| | MW-3 Beryllium (mg/L) | MW-4 Boron, total (mg/L) | MW-5 Boron, total (mg/L) | MW-7 Boron, total (mg/L) | MW-3 Cadmium (mg/L) | MW-3 Cobalt (mg/L) | MW-6 Fluoride, total (mg/L) | MW-3 Lead (mg/L) | MW-3 pH, Field (SU) | MW-1 Sulfate as SO ₄ (mg/L) |
|------------|-----------------------|--------------------------|--------------------------|--------------------------|---------------------|--------------------|-----------------------------|------------------|---------------------|--|
| 4/25/2016 | | | | | 0.0121 (O) | | | | | |
| 4/27/2016 | | | | 0.253 (O) | | | | | | |
| 1/18/2017 | 0.0169 (O) | | | | | | | | | |
| 5/22/2018 | | | | | | | 2100 (o) | | | |
| 5/23/2018 | | | | | | | | | | |
| 11/19/2018 | 0.0185 (O) | | | | | | 0.00692 (o) | 3.77 (o) | | |
| 5/14/2019 | | <0.203 (o) | <0.203 (o) | | | | | | | |
| 10/8/2019 | | | | 1.07 (o) | | | | | | |
| 10/16/2019 | | | | 0.848 (o) | | | | | | |
| 4/8/2020 | | | | | <0.1 (o) | | | | | |
| 7/13/2020 | | | | 0.00885 (O) | | | | | | |

| | MW-7 Sulfate as SO ₄ (mg/L) | MW-8 Sulfate as SO ₄ (mg/L) | MW-1 Total Dissolved Solids [TDS] (mg/L) |
|------------|--|--|--|
| 4/25/2016 | | | |
| 4/27/2016 | | | |
| 1/18/2017 | | | |
| 5/22/2018 | | | |
| 5/23/2018 | 1900 (O) | 2100 (o) | |
| 11/19/2018 | | | |
| 5/14/2019 | | | |
| 10/8/2019 | | | |
| 10/16/2019 | | 3650 (o) | |
| 4/8/2020 | | | |
| 7/13/2020 | | | |

FIGURE D.

Appendix III Intrawell Prediction Limits - Significant Results

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF Printed 5/17/2023, 2:40 PM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bg N</u> | <u>Bg Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|------------------------|-------------|-------------------|-------------------|-------------|----------------|-------------|-------------|----------------|------------------|-------------|----------------|------------------|--------------|--------------------|
| Fluoride, total (mg/L) | MW-1 | 0.1878 | n/a | 2/20/2023 | 0.221 | Yes | 24 | 0.1172 | 0.03644 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Fluoride, total (mg/L) | MW-2 | 0.2528 | n/a | 2/20/2023 | 0.267 | Yes | 24 | 0.1456 | 0.05538 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Fluoride, total (mg/L) | MW-6 | 0.1576 | n/a | 2/22/2023 | 0.173 | Yes | 16 | 0.1372 | 0.009847 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Fluoride, total (mg/L) | MW-7 | 0.2144 | n/a | 2/21/2023 | 0.216 | Yes | 17 | 0.1848 | 0.01443 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |

Appendix III Intrawell Prediction Limits - All Results

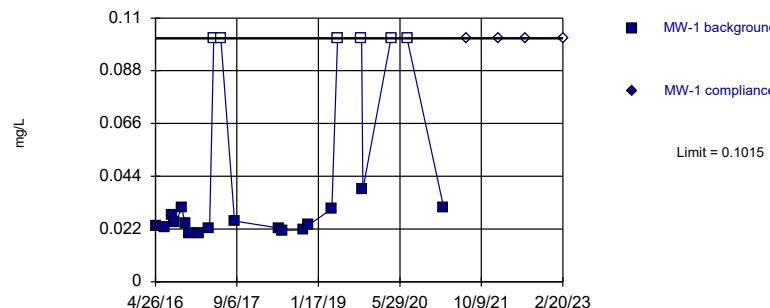
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF Printed 5/17/2023, 2:40 PM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bg N</u> | <u>Bg Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|-------------------------------------|-------------|-------------------|-------------------|-------------|----------------|-------------|-------------|----------------|------------------|-------------|----------------|------------------|--------------|-----------------------------|
| Boron, total (mg/L) | MW-1 | 0.1015 | n/a | 2/20/2023 | 0.1015ND | No | 23 | n/a | n/a | 26.09 | n/a | n/a | 0.003415 | NP Intra (normality) 1 of 2 |
| Boron, total (mg/L) | MW-2 | 0.1015 | n/a | 2/20/2023 | 0.1015ND | No | 23 | n/a | n/a | 21.74 | n/a | n/a | 0.003415 | NP Intra (normality) 1 of 2 |
| Boron, total (mg/L) | MW-3 | 0.1015 | n/a | 2/20/2023 | 0.1015ND | No | 23 | n/a | n/a | 21.74 | n/a | n/a | 0.003415 | NP Intra (normality) 1 of 2 |
| Boron, total (mg/L) | MW-4 | 0.05253 | n/a | 2/21/2023 | 0.0408J | No | 22 | 0.04512 | 0.003776 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Boron, total (mg/L) | MW-5 | 0.04034 | n/a | 2/21/2023 | 0.0315J | No | 15 | 0.03281 | 0.003562 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Boron, total (mg/L) | MW-6 | 0.1015 | n/a | 2/22/2023 | 0.0356J | No | 16 | 0.07909 | 0.01082 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Boron, total (mg/L) | MW-7 | 0.0854 | n/a | 2/21/2023 | 0.0645J | No | 15 | 0.07347 | 0.005639 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Boron, total (mg/L) | MW-8 | 0.0831 | n/a | 2/21/2023 | 0.0609J | No | 16 | n/a | n/a | 0 | n/a | n/a | 0.006456 | NP Intra (normality) 1 of 2 |
| Calcium, total (mg/L) | MW-1 | 243 | n/a | 2/20/2023 | 151 | No | 23 | n/a | n/a | 0 | n/a | n/a | 0.003415 | NP Intra (normality) 1 of 2 |
| Calcium, total (mg/L) | MW-2 | 214.8 | n/a | 2/20/2023 | 160 | No | 23 | 174.2 | 20.8 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Calcium, total (mg/L) | MW-3 | 416 | n/a | 2/20/2023 | 210 | No | 23 | 300 | 59.54 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Calcium, total (mg/L) | MW-4 | 386.1 | n/a | 2/21/2023 | 232 | No | 23 | 304.8 | 41.68 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Calcium, total (mg/L) | MW-5 | 459.6 | n/a | 2/21/2023 | 367 | No | 16 | 387 | 34.95 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Calcium, total (mg/L) | MW-6 | 500.3 | n/a | 2/22/2023 | 250 | No | 16 | 388.9 | 53.66 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Calcium, total (mg/L) | MW-7 | 343.5 | n/a | 2/21/2023 | 286 | No | 16 | 85434 | 15683 | 0 | None | x^2 | 0.00188 | Param Intra 1 of 2 |
| Calcium, total (mg/L) | MW-8 | 340 | n/a | 2/21/2023 | 327 | No | 16 | 303.1 | 17.76 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Fluoride, total (mg/L) | MW-1 | 0.1878 | n/a | 2/20/2023 | 0.221 | Yes | 24 | 0.1172 | 0.03644 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Fluoride, total (mg/L) | MW-2 | 0.2528 | n/a | 2/20/2023 | 0.267 | Yes | 24 | 0.1456 | 0.05538 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Fluoride, total (mg/L) | MW-3 | 0.5886 | n/a | 2/20/2023 | 0.379 | No | 24 | 0.3299 | 0.1336 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Fluoride, total (mg/L) | MW-4 | 0.4215 | n/a | 2/21/2023 | 0.415 | No | 24 | 0.1114 | 0.03425 | 0 | None | x^2 | 0.00188 | Param Intra 1 of 2 |
| Fluoride, total (mg/L) | MW-5 | 0.42 | n/a | 2/21/2023 | 0.319 | No | 17 | 0.3204 | 0.0485 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Fluoride, total (mg/L) | MW-6 | 0.1576 | n/a | 2/22/2023 | 0.173 | Yes | 16 | 0.1372 | 0.009847 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Fluoride, total (mg/L) | MW-7 | 0.2144 | n/a | 2/21/2023 | 0.216 | Yes | 17 | 0.1848 | 0.01443 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Fluoride, total (mg/L) | MW-8 | 0.2341 | n/a | 2/21/2023 | 0.212 | No | 17 | 0.21 | 0.01171 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Sulfate as SO4 (mg/L) | MW-1 | 1665 | n/a | 2/20/2023 | 1520 | No | 22 | 1461 | 104.1 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Sulfate as SO4 (mg/L) | MW-2 | 1274 | n/a | 2/20/2023 | 767 | No | 23 | 997.8 | 141.7 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Sulfate as SO4 (mg/L) | MW-3 | 3272 | n/a | 2/20/2023 | 2110 | No | 23 | 2451 | 421.1 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Sulfate as SO4 (mg/L) | MW-4 | 3143 | n/a | 2/21/2023 | 1930 | No | 23 | 2511 | 324 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Sulfate as SO4 (mg/L) | MW-5 | 2582 | n/a | 2/21/2023 | 2210 | No | 16 | 2304 | 133.9 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Sulfate as SO4 (mg/L) | MW-6 | 2274 | n/a | 2/22/2023 | 1870 | No | 16 | 2001 | 131.7 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Sulfate as SO4 (mg/L) | MW-7 | 1604 | n/a | 2/21/2023 | 1450 | No | 15 | 1324 | 132.3 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Sulfate as SO4 (mg/L) | MW-8 | 1640 | n/a | 2/21/2023 | 1510 | No | 15 | n/a | n/a | 0 | n/a | n/a | 0.007533 | NP Intra (normality) 1 of 2 |
| Total Dissolved Solids [TDS] (mg/L) | MW-1 | 2519 | n/a | 2/20/2023 | 2280 | No | 22 | 2197 | 164 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Total Dissolved Solids [TDS] (mg/L) | MW-2 | 2021 | n/a | 2/20/2023 | 1420 | No | 23 | 1643 | 193.7 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Total Dissolved Solids [TDS] (mg/L) | MW-3 | 5051 | n/a | 2/20/2023 | 3230 | No | 23 | 3729 | 678.1 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Total Dissolved Solids [TDS] (mg/L) | MW-4 | 4600 | n/a | 2/21/2023 | 3160 | No | 23 | 1.5e7 | 3201096 | 0 | None | x^2 | 0.00188 | Param Intra 1 of 2 |
| Total Dissolved Solids [TDS] (mg/L) | MW-5 | 4202 | n/a | 2/21/2023 | 3310 | No | 16 | 3794 | 196.6 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |
| Total Dissolved Solids [TDS] (mg/L) | MW-6 | 3466 | n/a | 2/22/2023 | 2790 | No | 16 | 1.1e7 | 676605 | 0 | None | x^2 | 0.00188 | Param Intra 1 of 2 |
| Total Dissolved Solids [TDS] (mg/L) | MW-7 | 2590 | n/a | 2/21/2023 | 2220 | No | 16 | 6.3e16 | 2.6e16 | 0 | None | x^5 | 0.00188 | Param Intra 1 of 2 |
| Total Dissolved Solids [TDS] (mg/L) | MW-8 | 2808 | n/a | 2/21/2023 | 2370 | No | 16 | 2573 | 113.3 | 0 | None | No | 0.00188 | Param Intra 1 of 2 |

Sanitas™ v.9.6.37 Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric

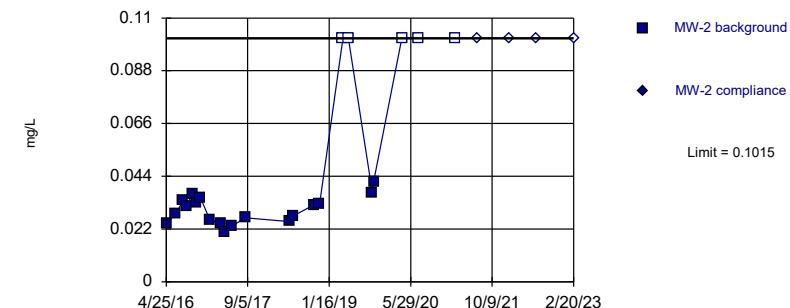


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 23 background values. 26.09% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Sanitas™ v.9.6.37 Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 23 background values. 21.74% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

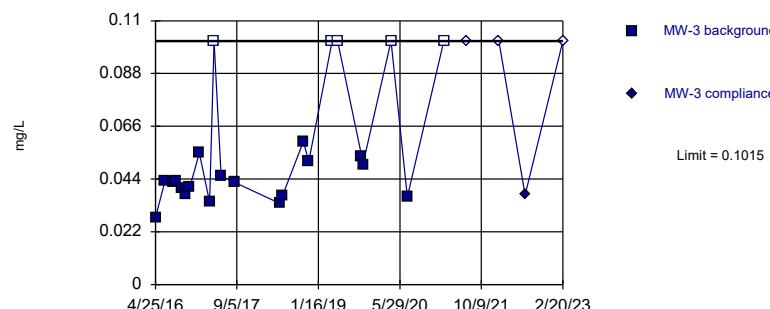
Constituent: Boron, total Analysis Run 5/17/2023 2:38 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Constituent: Boron, total Analysis Run 5/17/2023 2:38 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Sanitas™ v.9.6.37 Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric

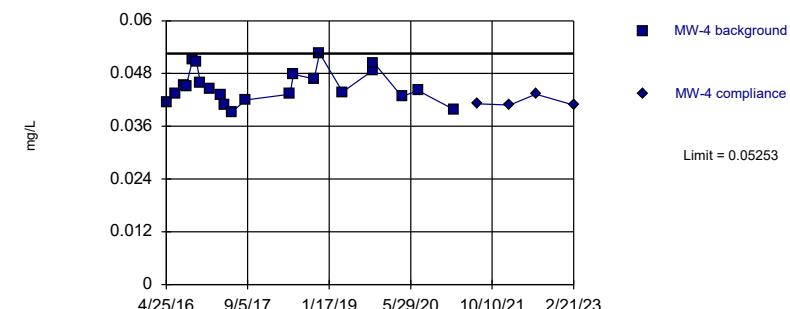


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 23 background values. 21.74% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Sanitas™ v.9.6.37 Groundwater Stats Consulting, UG

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.04512, Std. Dev.=0.003776, n=22. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9555, critical = 0.878. Kappa = 1.962 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

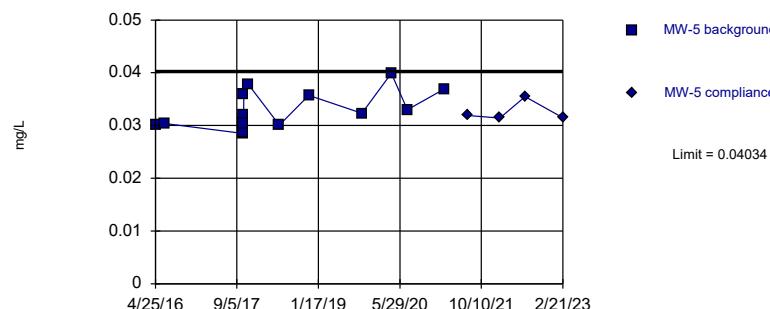
Constituent: Boron, total Analysis Run 5/17/2023 2:38 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Constituent: Boron, total Analysis Run 5/17/2023 2:38 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Within Limit

Prediction Limit

Intrawell Parametric

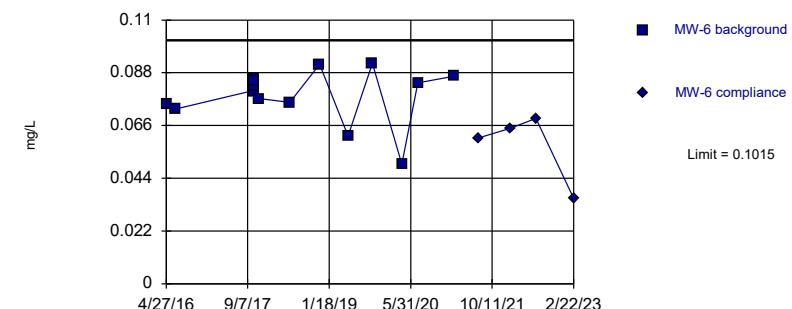


Background Data Summary: Mean=0.03281, Std. Dev.=0.003562, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9042, critical = 0.835. Kappa = 2.115 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.07909, Std. Dev.=0.01082, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8662, critical = 0.844. Kappa = 2.076 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

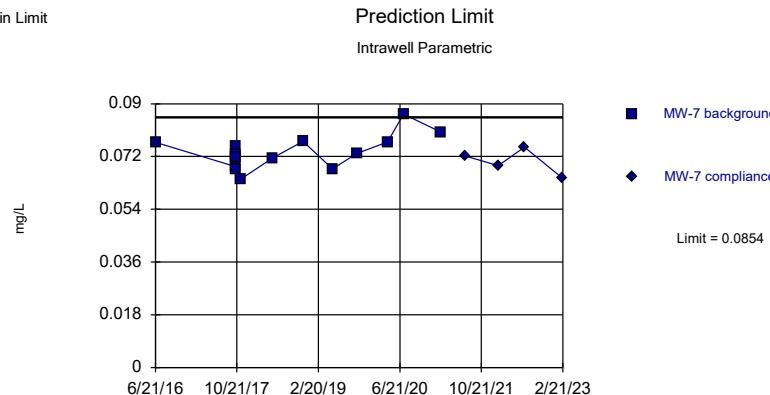
Constituent: Boron, total Analysis Run 5/17/2023 2:38 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Constituent: Boron, total Analysis Run 5/17/2023 2:38 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Within Limit

Prediction Limit

Intrawell Parametric

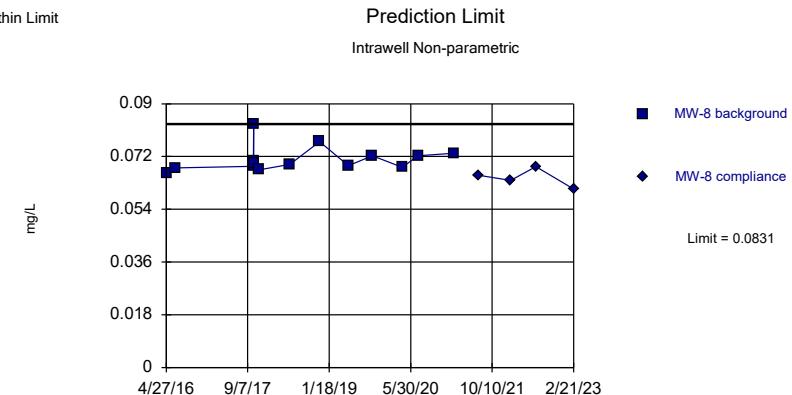


Background Data Summary: Mean=0.07347, Std. Dev.=0.005639, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9629, critical = 0.835. Kappa = 2.115 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Within Limit

Prediction Limit

Intrawell Non-parametric



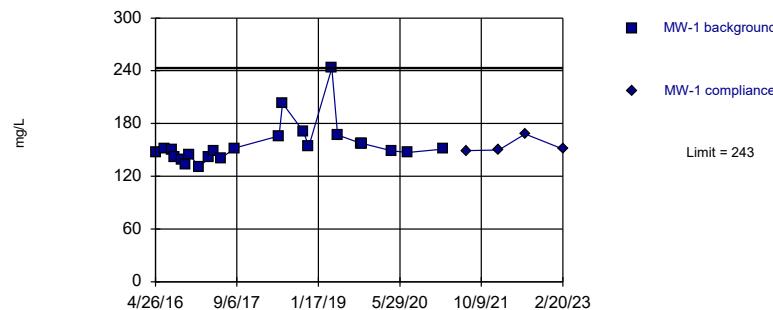
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 16 background values. Well-constituent pair annual alpha = 0.01287. Individual comparison alpha = 0.006456 (1 of 2).

Constituent: Boron, total Analysis Run 5/17/2023 2:38 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Constituent: Boron, total Analysis Run 5/17/2023 2:38 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Within Limit

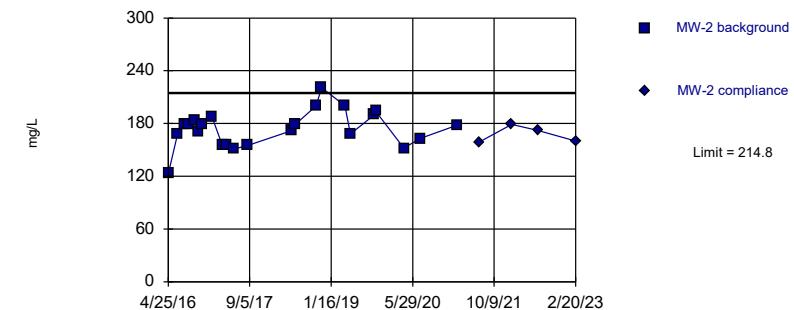
Prediction Limit
Intrawell Non-parametric



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 23 background values. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Within Limit

Prediction Limit
Intrawell Parametric



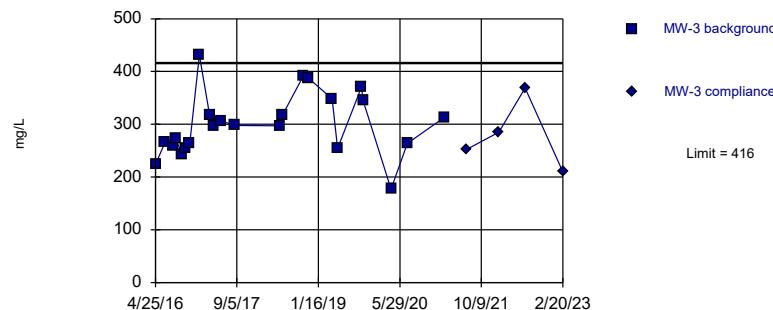
Background Data Summary: Mean=174.2, Std. Dev.=20.8, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9781, critical = 0.881. Kappa = 1.95 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Calcium, total Analysis Run 5/17/2023 2:38 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Constituent: Calcium, total Analysis Run 5/17/2023 2:38 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Within Limit

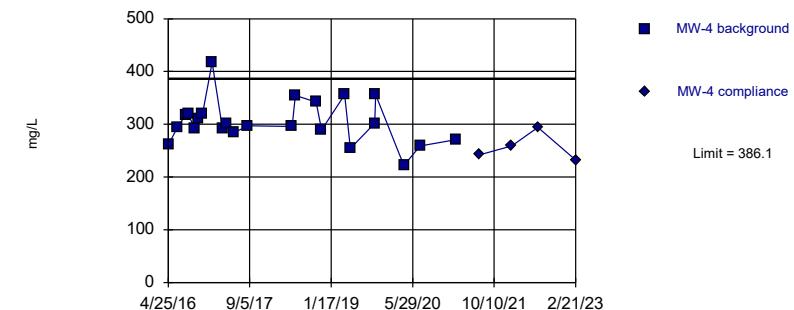
Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=300, Std. Dev.=59.54, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9749, critical = 0.881. Kappa = 1.95 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=304.8, Std. Dev.=41.68, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9567, critical = 0.881. Kappa = 1.95 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

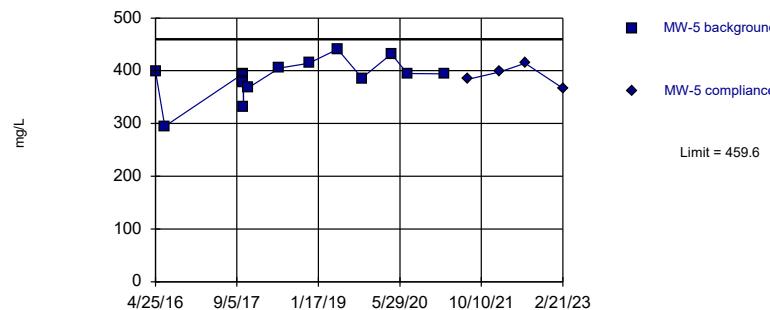
Constituent: Calcium, total Analysis Run 5/17/2023 2:38 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Constituent: Calcium, total Analysis Run 5/17/2023 2:38 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Within Limit

Prediction Limit

Intrawell Parametric

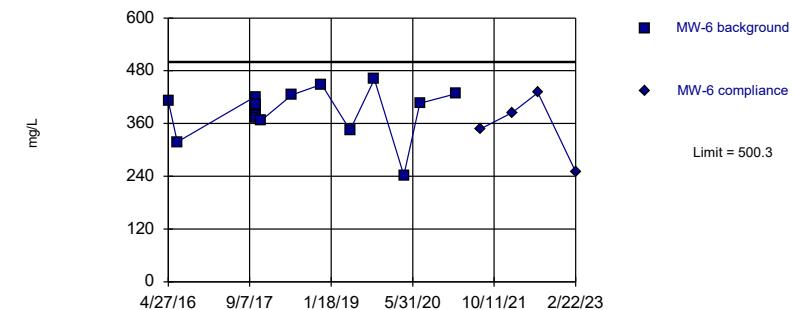


Background Data Summary: Mean=387, Std. Dev.=34.95, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8909, critical = 0.844. Kappa = 2.076 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=388.9, Std. Dev.=53.66, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8977, critical = 0.844. Kappa = 2.076 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

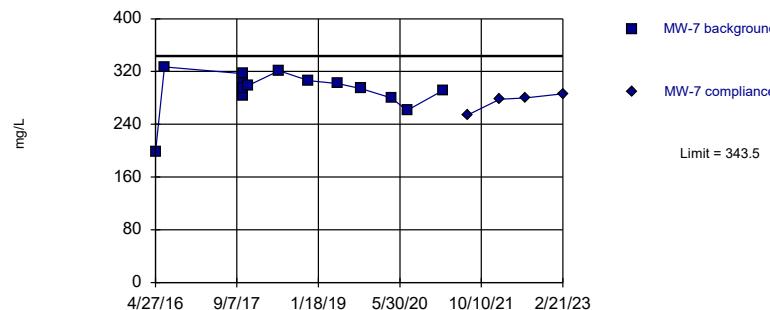
Constituent: Calcium, total Analysis Run 5/17/2023 2:38 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Constituent: Calcium, total Analysis Run 5/17/2023 2:38 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Within Limit

Prediction Limit

Intrawell Parametric

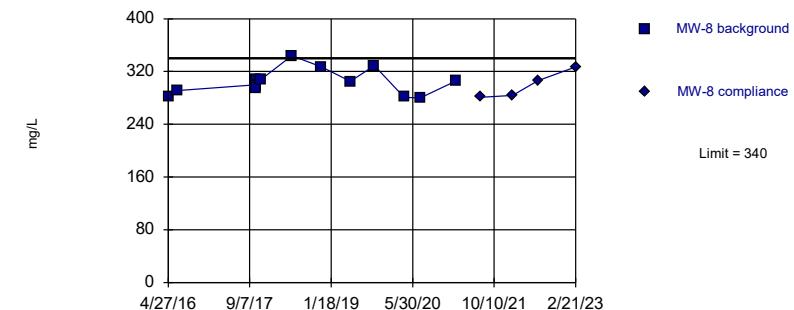


Background Data Summary (based on square transformation): Mean=85434, Std. Dev.=15683, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8569, critical = 0.844. Kappa = 2.076 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=303.1, Std. Dev.=17.76, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9165, critical = 0.844. Kappa = 2.076 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

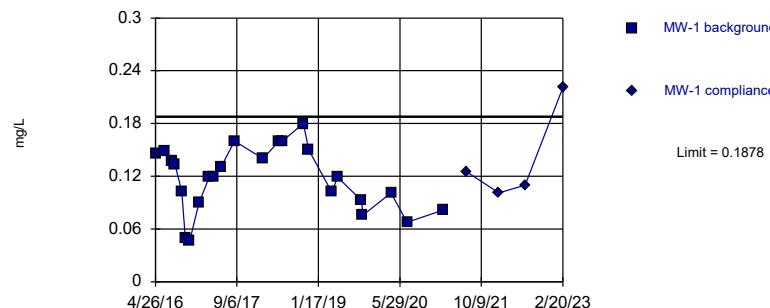
Constituent: Calcium, total Analysis Run 5/17/2023 2:39 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Constituent: Calcium, total Analysis Run 5/17/2023 2:39 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Exceeds Limit

Prediction Limit

Intrawell Parametric

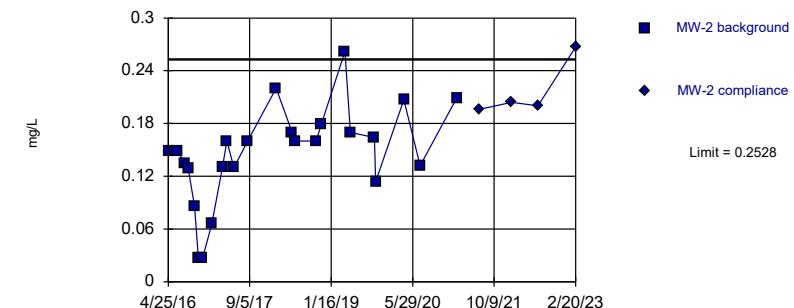


Background Data Summary: Mean=0.1172, Std. Dev.=0.03644, n=24. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9658, critical = 0.884. Kappa = 1.937 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.1456, Std. Dev.=0.05538, n=24. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9466, critical = 0.884. Kappa = 1.937 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

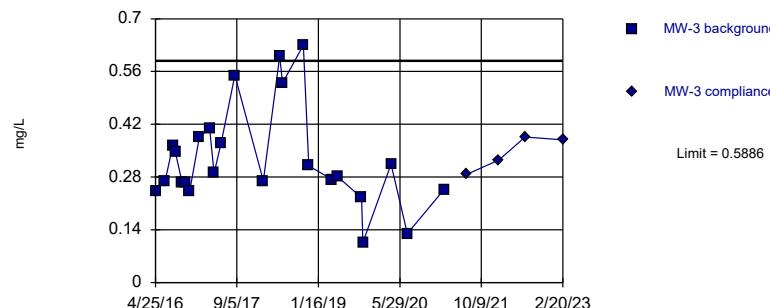
Constituent: Fluoride, total Analysis Run 5/17/2023 2:39 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Constituent: Fluoride, total Analysis Run 5/17/2023 2:39 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Within Limit

Prediction Limit

Intrawell Parametric

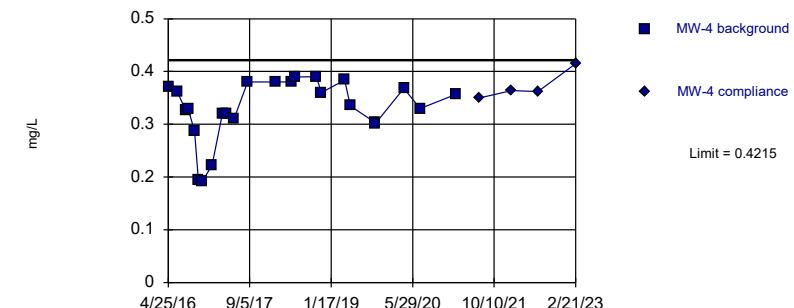


Background Data Summary: Mean=0.3299, Std. Dev.=0.1336, n=24. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9032, critical = 0.884. Kappa = 1.937 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=0.1114, Std. Dev.=0.03425, n=24. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.897, critical = 0.884. Kappa = 1.937 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

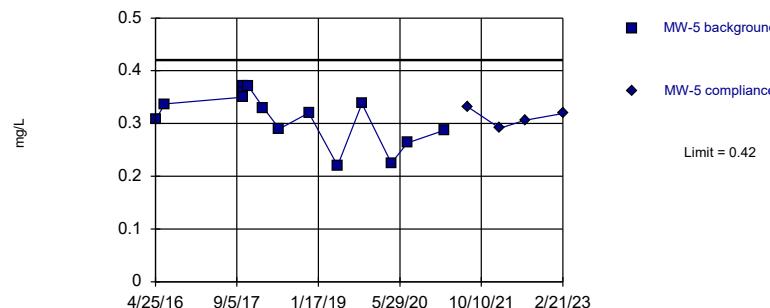
Constituent: Fluoride, total Analysis Run 5/17/2023 2:39 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Constituent: Fluoride, total Analysis Run 5/17/2023 2:39 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Within Limit

Prediction Limit

Intrawell Parametric

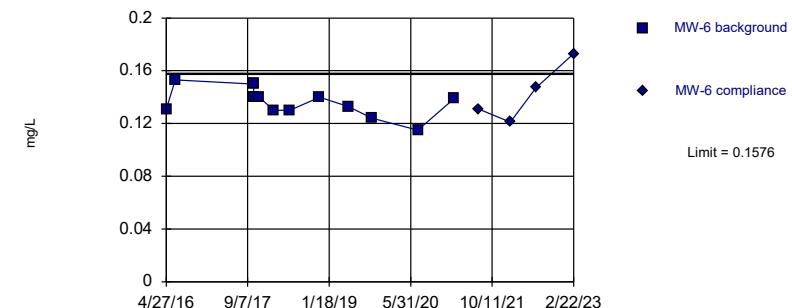


Background Data Summary: Mean=0.3204, Std. Dev.=0.0485, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8758, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.1372, Std. Dev.=0.009847, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9318, critical = 0.844. Kappa = 2.076 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

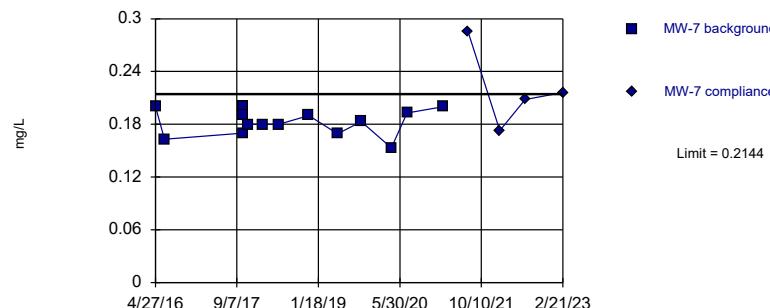
Constituent: Fluoride, total Analysis Run 5/17/2023 2:39 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Constituent: Fluoride, total Analysis Run 5/17/2023 2:39 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Exceeds Limit

Prediction Limit

Intrawell Parametric

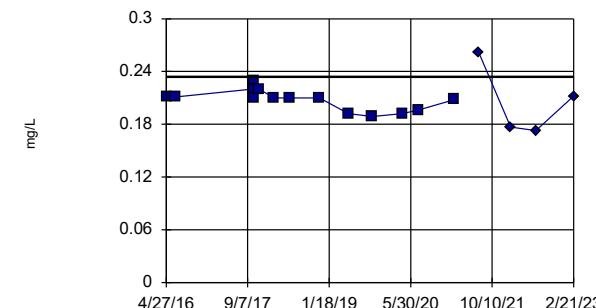


Background Data Summary: Mean=0.1848, Std. Dev.=0.01443, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9003, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.21, Std. Dev.=0.01171, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.904, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

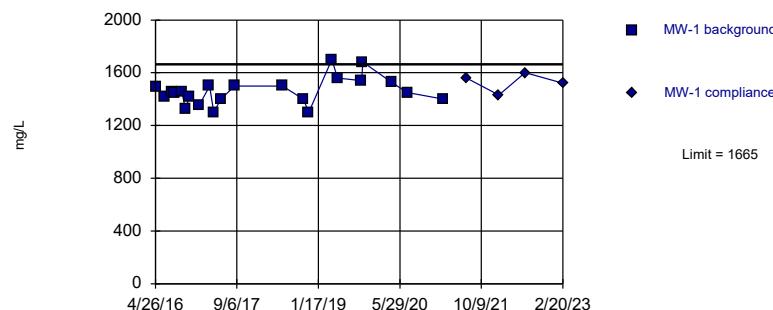
Constituent: Fluoride, total Analysis Run 5/17/2023 2:39 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Constituent: Fluoride, total Analysis Run 5/17/2023 2:39 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Within Limit

Prediction Limit

Intrawell Parametric

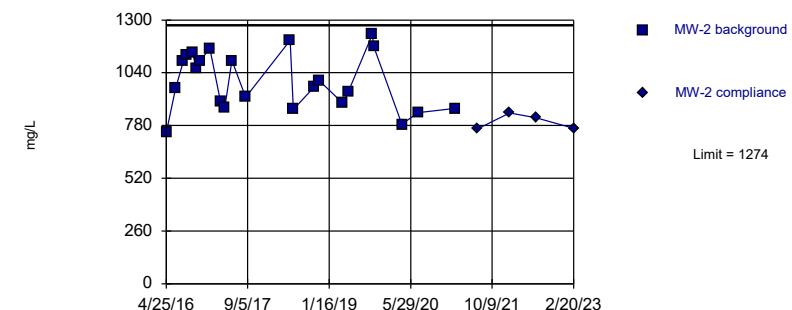


Background Data Summary: Mean=1461, Std. Dev.=104.1, n=22. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9462, critical = 0.878. Kappa = 1.962 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=997.8, Std. Dev.=141.7, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9515, critical = 0.881. Kappa = 1.95 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

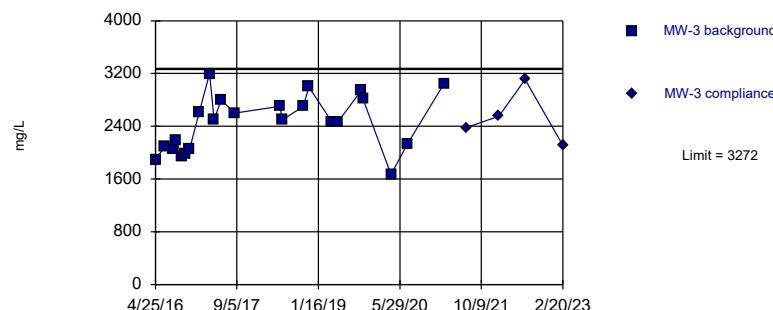
Constituent: Sulfate as SO₄ Analysis Run 5/17/2023 2:39 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Constituent: Sulfate as SO₄ Analysis Run 5/17/2023 2:39 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Within Limit

Prediction Limit

Intrawell Parametric

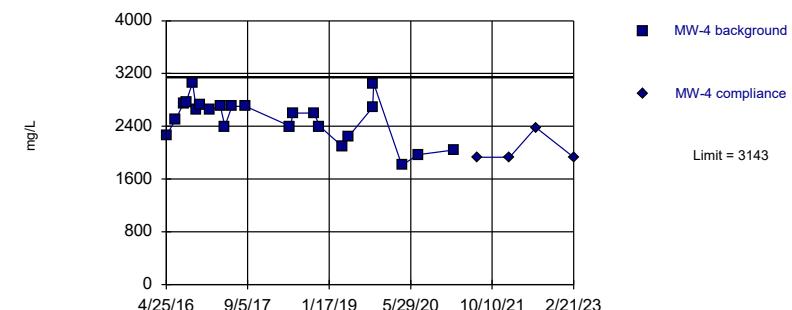


Background Data Summary: Mean=2451, Std. Dev.=421.1, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9657, critical = 0.881. Kappa = 1.95 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2511, Std. Dev.=324, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9443, critical = 0.881. Kappa = 1.95 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

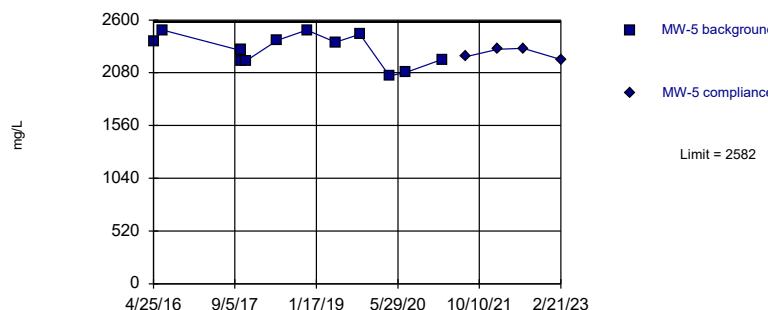
Constituent: Sulfate as SO₄ Analysis Run 5/17/2023 2:39 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Constituent: Sulfate as SO₄ Analysis Run 5/17/2023 2:39 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Within Limit

Prediction Limit

Intrawell Parametric

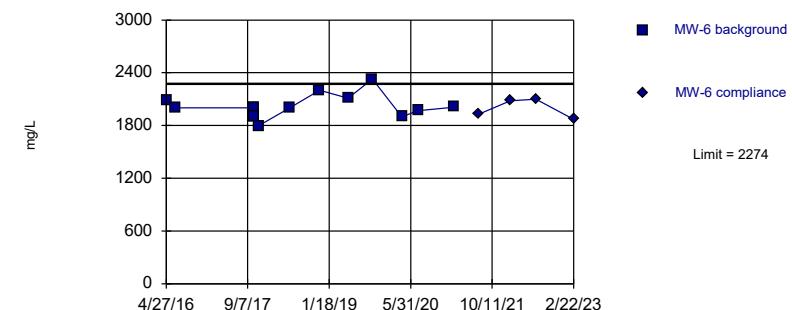


Background Data Summary: Mean=2304, Std. Dev.=133.9, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9454, critical = 0.844. Kappa = 2.076 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2001, Std. Dev.=131.7, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9014, critical = 0.844. Kappa = 2.076 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

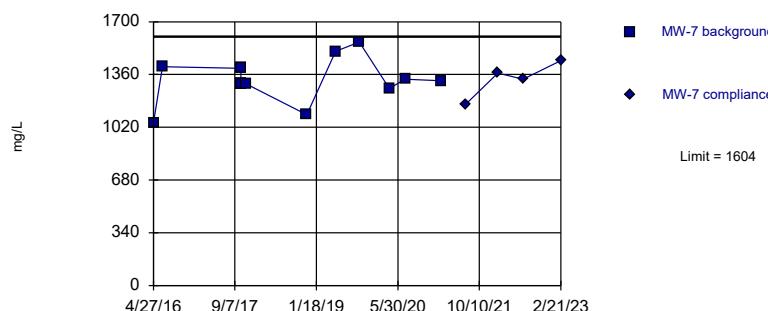
Constituent: Sulfate as SO₄ Analysis Run 5/17/2023 2:39 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Constituent: Sulfate as SO₄ Analysis Run 5/17/2023 2:39 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Within Limit

Prediction Limit

Intrawell Parametric

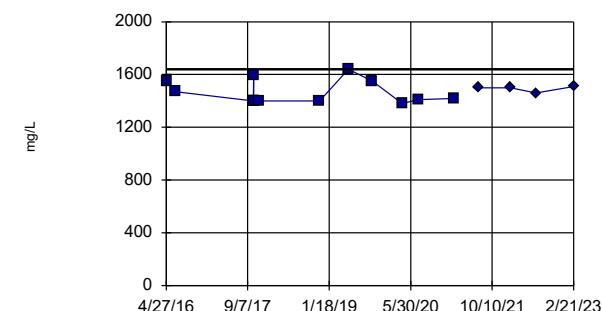


Background Data Summary: Mean=1324, Std. Dev.=132.3, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9168, critical = 0.835. Kappa = 2.115 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

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 15 background values. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

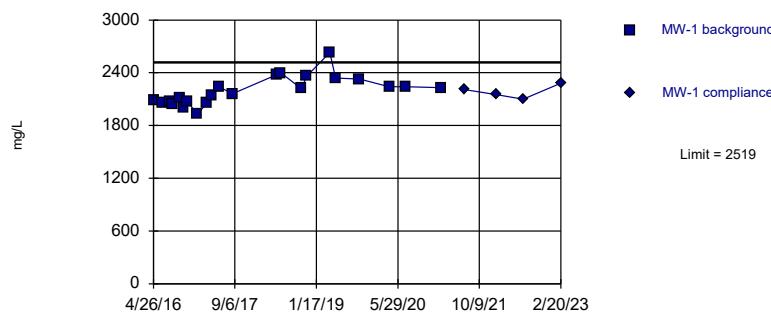
Constituent: Sulfate as SO₄ Analysis Run 5/17/2023 2:39 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Constituent: Sulfate as SO₄ Analysis Run 5/17/2023 2:39 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Within Limit

Prediction Limit

Intrawell Parametric

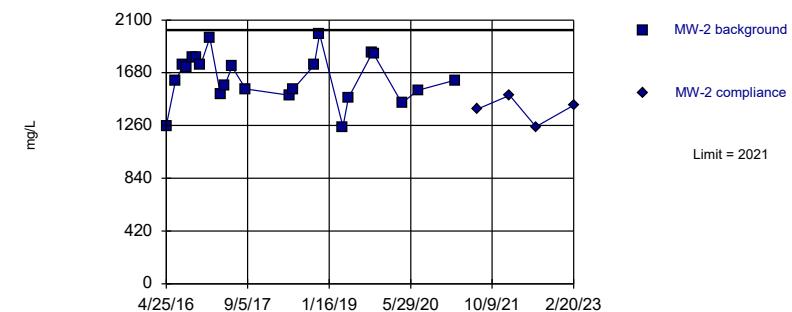


Background Data Summary: Mean=2197, Std. Dev.=164, n=22. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9479, critical = 0.878. Kappa = 1.962 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1643, Std. Dev.=193.7, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9661, critical = 0.881. Kappa = 1.95 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

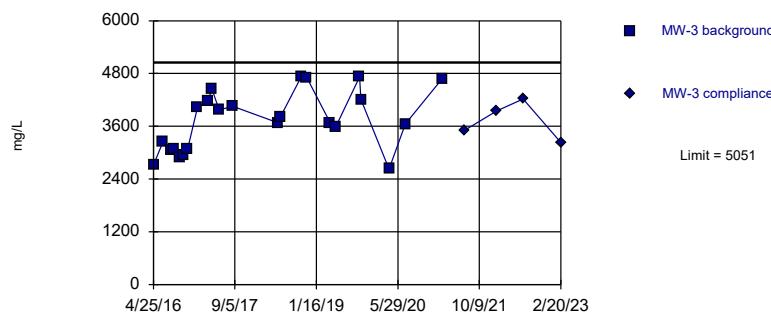
Constituent: Total Dissolved Solids [TDS] Analysis Run 5/17/2023 2:39 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/17/2023 2:39 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Within Limit

Prediction Limit

Intrawell Parametric

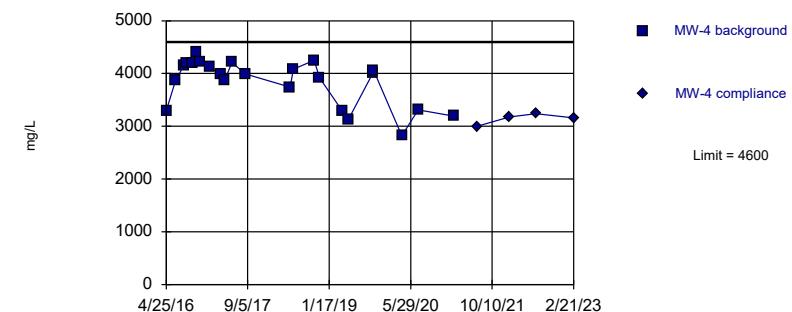


Background Data Summary: Mean=3729, Std. Dev.=678.1, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9398, critical = 0.881. Kappa = 1.95 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=1.5e7, Std. Dev.=3201096, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8861, critical = 0.881. Kappa = 1.95 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

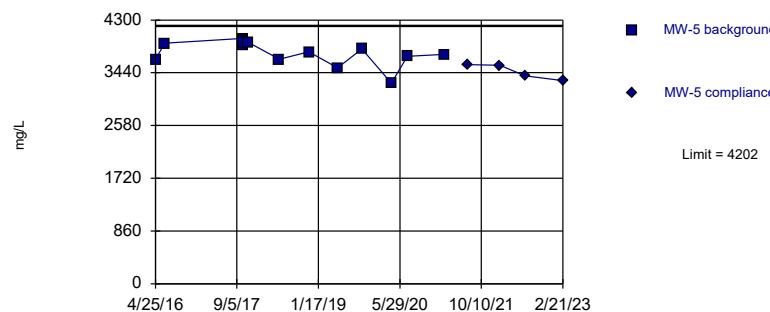
Constituent: Total Dissolved Solids [TDS] Analysis Run 5/17/2023 2:39 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/17/2023 2:39 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Within Limit

Prediction Limit

Intrawell Parametric

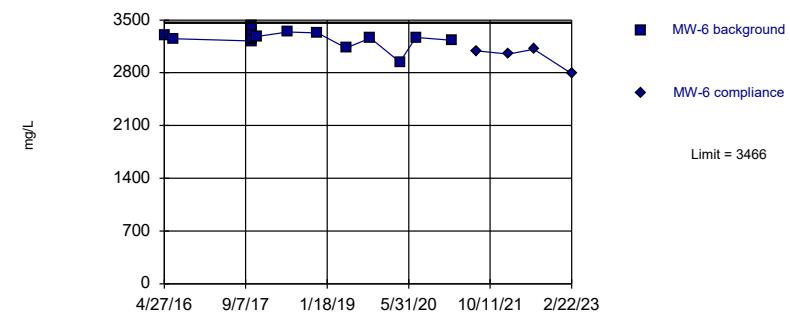


Background Data Summary: Mean=3794, Std. Dev.=196.6, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8671, critical = 0.844. Kappa = 2.076 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=1.1e7, Std. Dev.=676605, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.854, critical = 0.844. Kappa = 2.076 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

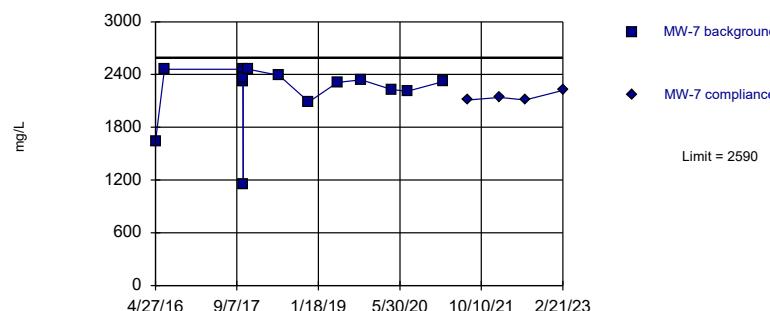
Constituent: Total Dissolved Solids [TDS] Analysis Run 5/17/2023 2:39 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/17/2023 2:39 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Within Limit

Prediction Limit

Intrawell Parametric

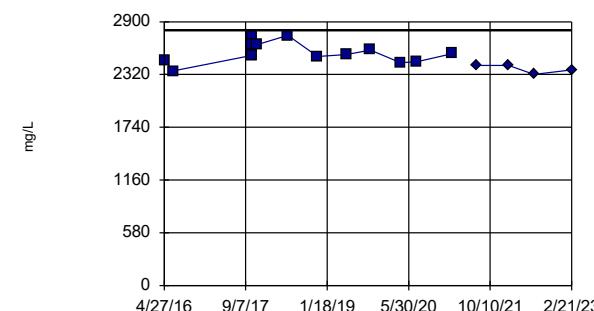


Background Data Summary (based on x^5 transformation): Mean=6.3e16, Std. Dev.=2.6e16, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8587, critical = 0.844. Kappa = 2.076 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2573, Std. Dev.=113.3, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9548, critical = 0.844. Kappa = 2.076 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/17/2023 2:39 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Constituent: Total Dissolved Solids [TDS] Analysis Run 5/17/2023 2:39 PM View: Appendix III - Intrawell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-1 |
|------------|------------|
| 4/26/2016 | 0.0231 (J) |
| 6/20/2016 | 0.0227 (J) |
| 8/8/2016 | 0.0278 (J) |
| 8/24/2016 | 0.0247 (J) |
| 10/3/2016 | 0.0307 (J) |
| 10/26/2016 | 0.0241 (J) |
| 11/21/2016 | 0.0202 (J) |
| 1/17/2017 | 0.0201 (J) |
| 3/22/2017 | 0.0224 (J) |
| 4/18/2017 | <0.1015 |
| 5/30/2017 | <0.1015 |
| 8/23/2017 | 0.0253 (J) |
| 5/22/2018 | 0.0224 (J) |
| 6/12/2018 | 0.0214 (J) |
| 10/17/2018 | 0.0216 (J) |
| 11/19/2018 | 0.0237 (J) |
| 4/10/2019 | 0.0304 (J) |
| 5/14/2019 | <0.1015 |
| 10/8/2019 | <0.1015 |
| 10/16/2019 | 0.0385 (J) |
| 4/6/2020 | <0.1015 |
| 7/13/2020 | <0.1015 |
| 2/22/2021 | 0.0307 (J) |
| 7/12/2021 | <0.1015 |
| 1/25/2022 | <0.1015 |
| 7/5/2022 | <0.1015 |
| 2/20/2023 | <0.1015 |

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| MW-2 | MW-2 |
|------------|------------|
| 4/25/2016 | 0.0241 (J) |
| 6/20/2016 | 0.0284 (J) |
| 8/8/2016 | 0.034 (J) |
| 8/24/2016 | 0.0316 (J) |
| 10/3/2016 | 0.0367 (J) |
| 10/26/2016 | 0.0331 (J) |
| 11/21/2016 | 0.035 (J) |
| 1/17/2017 | 0.0259 (J) |
| 3/22/2017 | 0.0243 (J) |
| 4/18/2017 | 0.0206 (J) |
| 5/31/2017 | 0.0234 (J) |
| 8/23/2017 | 0.0267 (J) |
| 5/22/2018 | 0.0251 (J) |
| 6/12/2018 | 0.0275 (J) |
| 10/17/2018 | 0.0321 (J) |
| 11/19/2018 | 0.0324 (J) |
| 4/10/2019 | <0.1015 |
| 5/14/2019 | <0.1015 |
| 10/8/2019 | 0.0371 (J) |
| 10/16/2019 | 0.0419 (J) |
| 4/6/2020 | <0.1015 |
| 7/13/2020 | <0.1015 |
| 2/22/2021 | <0.1015 |
| 7/12/2021 | <0.1015 |
| 1/25/2022 | <0.1015 |
| 7/5/2022 | <0.1015 |
| 2/20/2023 | <0.1015 |

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-3 |
|------------|------------|
| 4/25/2016 | 0.028 (J) |
| 6/22/2016 | 0.0433 (J) |
| 8/9/2016 | 0.0429 (J) |
| 8/24/2016 | 0.0431 (J) |
| 10/4/2016 | 0.04 (J) |
| 10/26/2016 | 0.0375 (J) |
| 11/21/2016 | 0.0406 (J) |
| 1/18/2017 | 0.0548 (J) |
| 3/22/2017 | 0.0344 (J) |
| 4/18/2017 | <0.1015 |
| 5/31/2017 | 0.0454 (J) |
| 8/23/2017 | 0.0425 (J) |
| 5/24/2018 | 0.0339 (J) |
| 6/12/2018 | 0.0371 (J) |
| 10/17/2018 | 0.0596 (J) |
| 11/19/2018 | 0.0514 (J) |
| 4/10/2019 | <0.1015 |
| 5/14/2019 | <0.1015 |
| 10/8/2019 | 0.0537 (J) |
| 10/16/2019 | 0.05 (J) |
| 4/6/2020 | <0.1015 |
| 7/13/2020 | 0.0366 (J) |
| 2/22/2021 | <0.1015 |
| 7/12/2021 | <0.1015 |
| 1/25/2022 | <0.1015 |
| 7/5/2022 | 0.0374 (J) |
| 2/20/2023 | <0.1015 |

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| MW-4 | MW-4 |
|------------|------------|
| 4/25/2016 | 0.0414 (J) |
| 6/20/2016 | 0.0434 (J) |
| 8/9/2016 | 0.0453 (J) |
| 8/24/2016 | 0.0451 (J) |
| 10/3/2016 | 0.0511 (J) |
| 10/26/2016 | 0.0507 (J) |
| 11/21/2016 | 0.0458 (J) |
| 1/18/2017 | 0.0445 (J) |
| 3/22/2017 | 0.0432 (J) |
| 4/18/2017 | 0.0409 (J) |
| 5/31/2017 | 0.0392 (J) |
| 8/23/2017 | 0.042 (J) |
| 5/23/2018 | 0.0433 (J) |
| 6/12/2018 | 0.0478 (J) |
| 10/17/2018 | 0.0468 (J) |
| 11/19/2018 | 0.0526 (J) |
| 4/10/2019 | 0.0438 (J) |
| 5/14/2019 | <0.203 (o) |
| 10/10/2019 | 0.0487 (J) |
| 10/16/2019 | 0.0505 (J) |
| 4/6/2020 | 0.0428 (J) |
| 7/14/2020 | 0.0441 (J) |
| 2/22/2021 | 0.0397 (J) |
| 7/12/2021 | 0.0411 (J) |
| 1/25/2022 | 0.0408 (J) |
| 7/5/2022 | 0.0433 (J) |
| 2/21/2023 | 0.0408 (J) |

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| MW-5 | MW-5 |
|------------|------------|
| 4/25/2016 | 0.0301 (J) |
| 6/21/2016 | 0.0304 (J) |
| 10/12/2017 | 0.0285 (J) |
| 10/13/2017 | 0.0287 (J) |
| 10/14/2017 | 0.0305 (J) |
| 10/15/2017 | 0.0319 (J) |
| 10/16/2017 | 0.0304 (J) |
| 10/17/2017 | 0.036 (J) |
| 11/16/2017 | 0.0377 (J) |
| 5/23/2018 | 0.0301 (J) |
| 11/20/2018 | 0.0357 (J) |
| 5/14/2019 | <0.203 (o) |
| 10/10/2019 | 0.0323 (J) |
| 4/7/2020 | 0.0399 (J) |
| 7/14/2020 | 0.033 (J) |
| 2/23/2021 | 0.0369 (J) |
| 7/21/2021 | 0.0319 (J) |
| 1/31/2022 | 0.0314 (J) |
| 7/6/2022 | 0.0355 (J) |
| 2/21/2023 | 0.0315 (J) |

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| MW-6 | MW-6 |
|------------|------------|
| 4/27/2016 | 0.075 (J) |
| 6/21/2016 | 0.0729 (J) |
| 10/12/2017 | 0.0806 (J) |
| 10/13/2017 | 0.0803 (J) |
| 10/14/2017 | 0.0828 (J) |
| 10/15/2017 | 0.0852 (J) |
| 10/16/2017 | 0.0858 (J) |
| 10/17/2017 | 0.0846 (J) |
| 11/16/2017 | 0.0772 (J) |
| 5/23/2018 | 0.0757 (J) |
| 11/20/2018 | 0.0915 (J) |
| 5/15/2019 | 0.0616 (J) |
| 10/10/2019 | 0.0919 (J) |
| 4/8/2020 | 0.0499 (J) |
| 7/14/2020 | 0.0838 (J) |
| 2/23/2021 | 0.0866 (J) |
| 7/20/2021 | 0.0608 (J) |
| 1/31/2022 | 0.0648 (J) |
| 7/6/2022 | 0.069 (J) |
| 2/22/2023 | 0.0356 (J) |

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| MW-7 | MW-7 |
|------------|------------|
| 4/27/2016 | 0.253 (O) |
| 6/21/2016 | 0.0768 (J) |
| 10/12/2017 | 0.0685 (J) |
| 10/13/2017 | 0.0674 (J) |
| 10/14/2017 | 0.0756 (J) |
| 10/15/2017 | 0.0719 (J) |
| 10/16/2017 | 0.0726 (J) |
| 10/17/2017 | 0.0716 (J) |
| 11/16/2017 | 0.0644 (J) |
| 5/23/2018 | 0.0715 (J) |
| 11/20/2018 | 0.0772 (J) |
| 5/15/2019 | 0.0678 (J) |
| 10/8/2019 | 0.073 (J) |
| 4/8/2020 | 0.077 (J) |
| 7/14/2020 | 0.0865 (J) |
| 2/23/2021 | 0.0803 (J) |
| 7/20/2021 | 0.0721 (J) |
| 1/31/2022 | 0.0689 (J) |
| 7/6/2022 | 0.0752 (J) |
| 2/21/2023 | 0.0645 (J) |

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| MW-8 | MW-8 |
|------------|------------|
| 4/27/2016 | 0.0662 (J) |
| 6/21/2016 | 0.0681 (J) |
| 10/12/2017 | 0.0687 (J) |
| 10/13/2017 | 0.0831 (J) |
| 10/14/2017 | 0.0702 (J) |
| 10/15/2017 | 0.0702 (J) |
| 10/16/2017 | 0.0707 (J) |
| 10/17/2017 | 0.0695 (J) |
| 11/16/2017 | 0.0675 (J) |
| 5/23/2018 | 0.0693 (J) |
| 11/20/2018 | 0.0771 (J) |
| 5/15/2019 | 0.0689 (J) |
| 10/9/2019 | 0.0723 (J) |
| 4/8/2020 | 0.0683 (J) |
| 7/15/2020 | 0.0723 (J) |
| 2/23/2021 | 0.0731 (J) |
| 7/20/2021 | 0.0656 (J) |
| 2/1/2022 | 0.0639 (J) |
| 7/6/2022 | 0.0686 (J) |
| 2/21/2023 | 0.0609 (J) |

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| MW-1 | MW-1 |
|------------|------|
| 4/26/2016 | 147 |
| 6/20/2016 | 152 |
| 8/8/2016 | 150 |
| 8/24/2016 | 142 |
| 10/3/2016 | 139 |
| 10/26/2016 | 133 |
| 11/21/2016 | 144 |
| 1/17/2017 | 131 |
| 3/22/2017 | 141 |
| 4/18/2017 | 149 |
| 5/30/2017 | 140 |
| 8/23/2017 | 152 |
| 5/22/2018 | 166 |
| 6/12/2018 | 203 |
| 10/17/2018 | 171 |
| 11/19/2018 | 154 |
| 4/10/2019 | 243 |
| 5/14/2019 | 167 |
| 10/8/2019 | 157 |
| 10/16/2019 | 157 |
| 4/6/2020 | 149 |
| 7/13/2020 | 147 |
| 2/22/2021 | 151 |
| 7/12/2021 | 149 |
| 1/25/2022 | 150 |
| 7/5/2022 | 168 |
| 2/20/2023 | 151 |

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| MW-2 | MW-2 |
|------------|------|
| 4/25/2016 | 123 |
| 6/20/2016 | 168 |
| 8/8/2016 | 180 |
| 8/24/2016 | 180 |
| 10/3/2016 | 184 |
| 10/26/2016 | 171 |
| 11/21/2016 | 179 |
| 1/17/2017 | 188 |
| 3/22/2017 | 155 |
| 4/18/2017 | 156 |
| 5/31/2017 | 151 |
| 8/23/2017 | 155 |
| 5/22/2018 | 172 |
| 6/12/2018 | 179 |
| 10/17/2018 | 200 |
| 11/19/2018 | 221 |
| 4/10/2019 | 200 |
| 5/14/2019 | 168 |
| 10/8/2019 | 190 |
| 10/16/2019 | 194 |
| 4/6/2020 | 152 |
| 7/13/2020 | 163 |
| 2/22/2021 | 178 |
| 7/12/2021 | 159 |
| 1/25/2022 | 179 |
| 7/5/2022 | 172 |
| 2/20/2023 | 160 |

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| MW-3 | MW-3 |
|------------|------|
| 4/25/2016 | 224 |
| 6/22/2016 | 266 |
| 8/9/2016 | 260 |
| 8/24/2016 | 274 |
| 10/4/2016 | 243 |
| 10/26/2016 | 254 |
| 11/21/2016 | 263 |
| 1/18/2017 | 431 |
| 3/22/2017 | 318 |
| 4/18/2017 | 296 |
| 5/31/2017 | 306 |
| 8/23/2017 | 298 |
| 5/24/2018 | 297 |
| 6/12/2018 | 318 |
| 10/17/2018 | 392 |
| 11/19/2018 | 387 |
| 4/10/2019 | 348 |
| 5/14/2019 | 254 |
| 10/8/2019 | 371 |
| 10/16/2019 | 346 |
| 4/6/2020 | 177 |
| 7/13/2020 | 264 |
| 2/22/2021 | 312 |
| 7/12/2021 | 252 |
| 1/25/2022 | 285 |
| 7/5/2022 | 369 |
| 2/20/2023 | 210 |

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-4 |
|------------|------|
| 4/25/2016 | 261 |
| 6/20/2016 | 295 |
| 8/9/2016 | 318 |
| 8/24/2016 | 319 |
| 10/3/2016 | 293 |
| 10/26/2016 | 311 |
| 11/21/2016 | 320 |
| 1/18/2017 | 417 |
| 3/22/2017 | 292 |
| 4/18/2017 | 302 |
| 5/31/2017 | 284 |
| 8/23/2017 | 297 |
| 5/23/2018 | 296 |
| 6/12/2018 | 355 |
| 10/17/2018 | 342 |
| 11/19/2018 | 289 |
| 4/10/2019 | 356 |
| 5/14/2019 | 254 |
| 10/10/2019 | 302 |
| 10/16/2019 | 356 |
| 4/6/2020 | 222 |
| 7/14/2020 | 259 |
| 2/22/2021 | 271 |
| 7/12/2021 | 242 |
| 1/25/2022 | 259 |
| 7/5/2022 | 294 |
| 2/21/2023 | 232 |

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-5 |
|------------|------|
| 4/25/2016 | 399 |
| 6/21/2016 | 295 |
| 10/12/2017 | 394 |
| 10/13/2017 | 389 |
| 10/14/2017 | 391 |
| 10/15/2017 | 332 |
| 10/16/2017 | 380 |
| 10/17/2017 | 377 |
| 11/16/2017 | 368 |
| 5/23/2018 | 405 |
| 11/20/2018 | 414 |
| 5/14/2019 | 441 |
| 10/10/2019 | 386 |
| 4/7/2020 | 432 |
| 7/14/2020 | 395 |
| 2/23/2021 | 394 |
| 7/21/2021 | 384 |
| 1/31/2022 | 398 |
| 7/6/2022 | 414 |
| 2/21/2023 | 367 |

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-6 |
|------------|------|
| 4/27/2016 | 411 |
| 6/21/2016 | 318 |
| 10/12/2017 | 421 |
| 10/13/2017 | 396 |
| 10/14/2017 | 400 |
| 10/15/2017 | 378 |
| 10/16/2017 | 402 |
| 10/17/2017 | 373 |
| 11/16/2017 | 367 |
| 5/23/2018 | 425 |
| 11/20/2018 | 449 |
| 5/15/2019 | 345 |
| 10/10/2019 | 461 |
| 4/8/2020 | 242 |
| 7/14/2020 | 406 |
| 2/23/2021 | 428 |
| 7/20/2021 | 348 |
| 1/31/2022 | 385 |
| 7/6/2022 | 430 |
| 2/22/2023 | 250 |

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-7 |
|------------|------|
| 4/27/2016 | 198 |
| 6/21/2016 | 327 |
| 10/12/2017 | 317 |
| 10/13/2017 | 302 |
| 10/14/2017 | 283 |
| 10/15/2017 | 294 |
| 10/16/2017 | 284 |
| 10/17/2017 | 294 |
| 11/16/2017 | 299 |
| 5/23/2018 | 321 |
| 11/20/2018 | 306 |
| 5/15/2019 | 302 |
| 10/8/2019 | 294 |
| 4/8/2020 | 280 |
| 7/14/2020 | 261 |
| 2/23/2021 | 292 |
| 7/20/2021 | 254 |
| 1/31/2022 | 278 |
| 7/6/2022 | 280 |
| 2/21/2023 | 286 |

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| MW-8 | MW-8 |
|------------|------|
| 4/27/2016 | 282 |
| 6/21/2016 | 291 |
| 10/12/2017 | 300 |
| 10/13/2017 | 298 |
| 10/14/2017 | 299 |
| 10/15/2017 | 307 |
| 10/16/2017 | 299 |
| 10/17/2017 | 294 |
| 11/16/2017 | 308 |
| 5/23/2018 | 344 |
| 11/20/2018 | 327 |
| 5/15/2019 | 305 |
| 10/9/2019 | 329 |
| 4/8/2020 | 281 |
| 7/15/2020 | 280 |
| 2/23/2021 | 306 |
| 7/20/2021 | 281 |
| 2/1/2022 | 284 |
| 7/6/2022 | 306 |
| 2/21/2023 | 327 |

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| MW-1 | MW-1 |
|------------|------------|
| 4/26/2016 | 0.146 (J) |
| 6/20/2016 | 0.148 (J) |
| 8/8/2016 | 0.137 (J) |
| 8/24/2016 | 0.133 (J) |
| 10/3/2016 | 0.103 (J) |
| 10/26/2016 | 0.05 (J) |
| 11/21/2016 | 0.047 (J) |
| 1/17/2017 | 0.09 (J) |
| 3/22/2017 | 0.12 |
| 4/18/2017 | 0.12 |
| 5/30/2017 | 0.13 |
| 8/23/2017 | 0.16 |
| 2/13/2018 | 0.14 |
| 5/22/2018 | 0.16 |
| 6/12/2018 | 0.16 |
| 10/17/2018 | 0.18 |
| 11/19/2018 | 0.15 |
| 4/10/2019 | 0.102 |
| 5/14/2019 | 0.119 |
| 10/8/2019 | 0.0924 (J) |
| 10/16/2019 | 0.0756 (J) |
| 4/6/2020 | 0.101 |
| 7/13/2020 | 0.0678 (J) |
| 2/22/2021 | 0.082 (J) |
| 7/12/2021 | 0.125 |
| 1/25/2022 | 0.101 |
| 7/5/2022 | 0.11 (J) |
| 2/20/2023 | 0.221 |

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| MW-2 | MW-2 |
|------------|-----------|
| 4/25/2016 | 0.149 (J) |
| 6/20/2016 | 0.148 (J) |
| 8/8/2016 | 0.134 (J) |
| 8/24/2016 | 0.129 (J) |
| 10/3/2016 | 0.086 (J) |
| 10/26/2016 | 0.027 (J) |
| 11/21/2016 | 0.027 (J) |
| 1/17/2017 | 0.066 (J) |
| 3/22/2017 | 0.13 |
| 4/18/2017 | 0.16 |
| 5/31/2017 | 0.13 |
| 8/23/2017 | 0.16 |
| 2/13/2018 | 0.22 |
| 5/22/2018 | 0.17 |
| 6/12/2018 | 0.16 |
| 10/17/2018 | 0.16 |
| 11/19/2018 | 0.18 |
| 4/10/2019 | 0.262 |
| 5/14/2019 | 0.17 |
| 10/8/2019 | 0.164 |
| 10/16/2019 | 0.114 |
| 4/6/2020 | 0.207 |
| 7/13/2020 | 0.132 |
| 2/22/2021 | 0.209 |
| 7/12/2021 | 0.196 |
| 1/25/2022 | 0.204 |
| 7/5/2022 | 0.2 |
| 2/20/2023 | 0.267 |

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| MW-3 | MW-3 |
|------------|-----------|
| 4/25/2016 | 0.243 (J) |
| 6/22/2016 | 0.269 (J) |
| 8/9/2016 | 0.363 |
| 8/24/2016 | 0.346 |
| 10/4/2016 | 0.266 (J) |
| 10/26/2016 | 0.266 (J) |
| 11/21/2016 | 0.244 (J) |
| 1/18/2017 | 0.385 |
| 3/22/2017 | 0.41 |
| 4/18/2017 | 0.29 |
| 5/31/2017 | 0.37 |
| 8/23/2017 | 0.55 |
| 2/13/2018 | 0.27 |
| 5/24/2018 | 0.6 |
| 6/12/2018 | 0.53 |
| 10/17/2018 | 0.63 |
| 11/19/2018 | 0.31 |
| 4/10/2019 | 0.273 |
| 5/14/2019 | 0.281 |
| 10/8/2019 | 0.225 |
| 10/16/2019 | 0.106 |
| 4/6/2020 | 0.314 |
| 7/13/2020 | 0.13 |
| 2/22/2021 | 0.246 |
| 7/12/2021 | 0.287 |
| 1/25/2022 | 0.325 |
| 7/5/2022 | 0.386 |
| 2/20/2023 | 0.379 |

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| MW-4 | MW-4 |
|------------|-----------|
| 4/25/2016 | 0.372 |
| 6/20/2016 | 0.361 |
| 8/9/2016 | 0.326 |
| 8/24/2016 | 0.329 |
| 10/3/2016 | 0.287 (J) |
| 10/26/2016 | 0.194 (J) |
| 11/21/2016 | 0.192 (J) |
| 1/18/2017 | 0.223 (J) |
| 3/22/2017 | 0.32 |
| 4/18/2017 | 0.32 |
| 5/31/2017 | 0.31 |
| 8/23/2017 | 0.38 |
| 2/13/2018 | 0.38 |
| 5/23/2018 | 0.38 |
| 6/12/2018 | 0.39 |
| 10/17/2018 | 0.39 |
| 11/19/2018 | 0.36 |
| 4/10/2019 | 0.384 |
| 5/14/2019 | 0.335 |
| 10/10/2019 | 0.304 |
| 10/16/2019 | 0.302 |
| 4/6/2020 | 0.368 |
| 7/14/2020 | 0.33 |
| 2/22/2021 | 0.357 |
| 7/12/2021 | 0.35 |
| 1/25/2022 | 0.364 |
| 7/5/2022 | 0.362 |
| 2/21/2023 | 0.415 |

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-5 |
|------------|-------|
| 4/25/2016 | 0.307 |
| 6/21/2016 | 0.337 |
| 10/12/2017 | 0.35 |
| 10/13/2017 | 0.36 |
| 10/14/2017 | 0.37 |
| 10/15/2017 | 0.37 |
| 10/16/2017 | 0.36 |
| 10/17/2017 | 0.35 |
| 11/16/2017 | 0.37 |
| 2/14/2018 | 0.33 |
| 5/23/2018 | 0.29 |
| 11/20/2018 | 0.32 |
| 5/14/2019 | 0.22 |
| 10/10/2019 | 0.338 |
| 4/7/2020 | 0.225 |
| 7/14/2020 | 0.263 |
| 2/23/2021 | 0.287 |
| 7/21/2021 | 0.331 |
| 1/31/2022 | 0.291 |
| 7/6/2022 | 0.306 |
| 2/21/2023 | 0.319 |

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-6 |
|------------|-----------|
| 4/27/2016 | 0.131 (J) |
| 6/21/2016 | 0.153 (J) |
| 10/12/2017 | 0.15 |
| 10/13/2017 | 0.15 |
| 10/14/2017 | 0.14 |
| 10/15/2017 | 0.14 |
| 10/16/2017 | 0.14 |
| 10/17/2017 | 0.14 |
| 11/16/2017 | 0.14 |
| 2/14/2018 | 0.13 |
| 5/23/2018 | 0.13 |
| 11/20/2018 | 0.14 |
| 5/15/2019 | 0.133 |
| 10/10/2019 | 0.124 |
| 4/8/2020 | <0.1 (o) |
| 7/14/2020 | 0.115 |
| 2/23/2021 | 0.139 |
| 7/20/2021 | 0.131 |
| 1/31/2022 | 0.121 |
| 7/6/2022 | 0.147 |
| 2/22/2023 | 0.173 |

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-7 |
|------------|-----------|
| 4/27/2016 | 0.2 (J) |
| 6/21/2016 | 0.163 (J) |
| 10/12/2017 | 0.17 |
| 10/13/2017 | 0.19 |
| 10/14/2017 | 0.2 |
| 10/15/2017 | 0.2 |
| 10/16/2017 | 0.2 |
| 10/17/2017 | 0.19 |
| 11/16/2017 | 0.18 |
| 2/14/2018 | 0.18 |
| 5/23/2018 | 0.18 |
| 11/20/2018 | 0.19 |
| 5/15/2019 | 0.169 |
| 10/8/2019 | 0.183 |
| 4/8/2020 | 0.153 |
| 7/14/2020 | 0.193 |
| 2/23/2021 | 0.2 |
| 7/20/2021 | 0.286 |
| 1/31/2022 | 0.173 |
| 7/6/2022 | 0.208 |
| 2/21/2023 | 0.216 |

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| MW-8 | MW-8 |
|------------|-----------|
| 4/27/2016 | 0.212 (J) |
| 6/21/2016 | 0.211 (J) |
| 10/12/2017 | 0.22 |
| 10/13/2017 | 0.23 |
| 10/14/2017 | 0.22 |
| 10/15/2017 | 0.22 |
| 10/16/2017 | 0.22 |
| 10/17/2017 | 0.21 |
| 11/16/2017 | 0.22 |
| 2/14/2018 | 0.21 |
| 5/23/2018 | 0.21 |
| 11/20/2018 | 0.21 |
| 5/15/2019 | 0.192 |
| 10/9/2019 | 0.189 |
| 4/8/2020 | 0.192 |
| 7/15/2020 | 0.196 |
| 2/23/2021 | 0.208 |
| 7/20/2021 | 0.262 |
| 2/1/2022 | 0.177 |
| 7/6/2022 | 0.173 |
| 2/21/2023 | 0.212 |

Prediction Limit

Constituent: Sulfate as SO₄ (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-1 |
|------------|----------|
| 4/26/2016 | 1490 |
| 6/20/2016 | 1420 |
| 8/8/2016 | 1460 |
| 8/24/2016 | 1450 |
| 10/3/2016 | 1460 |
| 10/26/2016 | 1330 |
| 11/21/2016 | 1420 |
| 1/17/2017 | 1350 |
| 3/22/2017 | 1500 |
| 4/18/2017 | 1300 |
| 5/30/2017 | 1400 |
| 8/23/2017 | 1500 |
| 5/22/2018 | 2100 (o) |
| 6/12/2018 | 1500 |
| 10/17/2018 | 1400 |
| 11/19/2018 | 1300 |
| 4/10/2019 | 1700 |
| 5/14/2019 | 1560 |
| 10/8/2019 | 1540 |
| 10/16/2019 | 1680 |
| 4/6/2020 | 1530 |
| 7/13/2020 | 1450 |
| 2/22/2021 | 1400 |
| 7/12/2021 | 1560 |
| 1/25/2022 | 1430 |
| 7/5/2022 | 1600 |
| 2/20/2023 | 1520 |

Prediction Limit

Constituent: Sulfate as SO₄ (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| MW-2 | MW-2 |
|------------|------|
| 4/25/2016 | 745 |
| 6/20/2016 | 964 |
| 8/8/2016 | 1100 |
| 8/24/2016 | 1130 |
| 10/3/2016 | 1140 |
| 10/26/2016 | 1060 |
| 11/21/2016 | 1100 |
| 1/17/2017 | 1160 |
| 3/22/2017 | 900 |
| 4/18/2017 | 870 |
| 5/31/2017 | 1100 |
| 8/23/2017 | 920 |
| 5/22/2018 | 1200 |
| 6/12/2018 | 860 |
| 10/17/2018 | 970 |
| 11/19/2018 | 1000 |
| 4/10/2019 | 889 |
| 5/14/2019 | 948 |
| 10/8/2019 | 1230 |
| 10/16/2019 | 1170 |
| 4/6/2020 | 786 |
| 7/13/2020 | 843 |
| 2/22/2021 | 864 |
| 7/12/2021 | 763 |
| 1/25/2022 | 842 |
| 7/5/2022 | 819 |
| 2/20/2023 | 767 |

Prediction Limit

Constituent: Sulfate as SO₄ (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-3 |
|------------|------|
| 4/25/2016 | 1890 |
| 6/22/2016 | 2100 |
| 8/9/2016 | 2050 |
| 8/24/2016 | 2190 |
| 10/4/2016 | 1950 |
| 10/26/2016 | 1980 |
| 11/21/2016 | 2060 |
| 1/18/2017 | 2620 |
| 3/22/2017 | 3200 |
| 4/18/2017 | 2500 |
| 5/31/2017 | 2800 |
| 8/23/2017 | 2600 |
| 5/24/2018 | 2700 |
| 6/12/2018 | 2500 |
| 10/17/2018 | 2700 |
| 11/19/2018 | 3000 |
| 4/10/2019 | 2460 |
| 5/14/2019 | 2460 |
| 10/8/2019 | 2950 |
| 10/16/2019 | 2820 |
| 4/6/2020 | 1670 |
| 7/13/2020 | 2130 |
| 2/22/2021 | 3040 |
| 7/12/2021 | 2380 |
| 1/25/2022 | 2550 |
| 7/5/2022 | 3110 |
| 2/20/2023 | 2110 |

Prediction Limit

Constituent: Sulfate as SO₄ (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| MW-4 | MW-4 |
|------------|------|
| 4/25/2016 | 2260 |
| 6/20/2016 | 2500 |
| 8/9/2016 | 2750 |
| 8/24/2016 | 2770 |
| 10/3/2016 | 3060 |
| 10/26/2016 | 2650 |
| 11/21/2016 | 2720 |
| 1/18/2017 | 2650 |
| 3/22/2017 | 2700 |
| 4/18/2017 | 2400 |
| 5/31/2017 | 2700 |
| 8/23/2017 | 2700 |
| 5/23/2018 | 2400 |
| 6/12/2018 | 2600 |
| 10/17/2018 | 2600 |
| 11/19/2018 | 2400 |
| 4/10/2019 | 2090 |
| 5/14/2019 | 2240 |
| 10/10/2019 | 2690 |
| 10/16/2019 | 3050 |
| 4/6/2020 | 1810 |
| 7/14/2020 | 1970 |
| 2/22/2021 | 2040 |
| 7/12/2021 | 1930 |
| 1/25/2022 | 1930 |
| 7/5/2022 | 2380 |
| 2/21/2023 | 1930 |

Prediction Limit

Constituent: Sulfate as SO₄ (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-5 |
|------------|------|
| 4/25/2016 | 2390 |
| 6/21/2016 | 2500 |
| 10/12/2017 | 2300 |
| 10/13/2017 | 2300 |
| 10/14/2017 | 2300 |
| 10/15/2017 | 2300 |
| 10/16/2017 | 2300 |
| 10/17/2017 | 2200 |
| 11/16/2017 | 2200 |
| 5/23/2018 | 2400 |
| 11/20/2018 | 2500 |
| 5/14/2019 | 2380 |
| 10/10/2019 | 2460 |
| 4/7/2020 | 2050 |
| 7/14/2020 | 2080 |
| 2/23/2021 | 2210 |
| 7/21/2021 | 2240 |
| 1/31/2022 | 2310 |
| 7/6/2022 | 2320 |
| 2/21/2023 | 2210 |

Prediction Limit

Constituent: Sulfate as SO₄ (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| MW-6 | MW-6 |
|------------|------|
| 4/27/2016 | 2090 |
| 6/21/2016 | 2000 |
| 10/12/2017 | 2000 |
| 10/13/2017 | 2000 |
| 10/14/2017 | 1900 |
| 10/15/2017 | 1900 |
| 10/16/2017 | 1900 |
| 10/17/2017 | 1900 |
| 11/16/2017 | 1800 |
| 5/23/2018 | 2000 |
| 11/20/2018 | 2200 |
| 5/15/2019 | 2110 |
| 10/10/2019 | 2330 |
| 4/8/2020 | 1900 |
| 7/14/2020 | 1970 |
| 2/23/2021 | 2010 |
| 7/20/2021 | 1930 |
| 1/31/2022 | 2080 |
| 7/6/2022 | 2100 |
| 2/22/2023 | 1870 |

Prediction Limit

Constituent: Sulfate as SO₄ (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| MW-7 | MW-7 |
|------------|----------|
| 4/27/2016 | 1050 |
| 6/21/2016 | 1410 |
| 10/12/2017 | 1400 |
| 10/13/2017 | 1400 |
| 10/14/2017 | 1300 |
| 10/15/2017 | 1300 |
| 10/16/2017 | 1300 |
| 10/17/2017 | 1300 |
| 11/16/2017 | 1300 |
| 5/23/2018 | 1900 (O) |
| 11/20/2018 | 1100 |
| 5/15/2019 | 1510 |
| 10/8/2019 | 1570 |
| 4/8/2020 | 1270 |
| 7/14/2020 | 1330 |
| 2/23/2021 | 1320 |
| 7/20/2021 | 1170 |
| 1/31/2022 | 1370 |
| 7/6/2022 | 1330 |
| 2/21/2023 | 1450 |

Prediction Limit

Constituent: Sulfate as SO₄ (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| MW-8 | MW-8 |
|------------|----------|
| 4/27/2016 | 1550 |
| 6/21/2016 | 1470 |
| 10/12/2017 | 1400 |
| 10/13/2017 | 1600 |
| 10/14/2017 | 1400 |
| 10/15/2017 | 1400 |
| 10/16/2017 | 1400 |
| 10/17/2017 | 1400 |
| 11/16/2017 | 1400 |
| 5/23/2018 | 2100 (o) |
| 11/20/2018 | 1400 |
| 5/15/2019 | 1640 |
| 10/9/2019 | 1550 |
| 4/8/2020 | 1380 |
| 7/15/2020 | 1410 |
| 2/23/2021 | 1420 |
| 7/20/2021 | 1500 |
| 2/1/2022 | 1500 |
| 7/6/2022 | 1460 |
| 2/21/2023 | 1510 |

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-1 |
|------------|----------|
| 4/26/2016 | 2080 |
| 6/20/2016 | 2060 |
| 8/8/2016 | 2070 |
| 8/24/2016 | 2040 |
| 10/3/2016 | 2110 |
| 10/26/2016 | 2000 |
| 11/21/2016 | 2070 |
| 1/17/2017 | 1930 |
| 3/22/2017 | 2060 |
| 4/18/2017 | 2140 |
| 5/30/2017 | 2240 |
| 8/23/2017 | 2160 |
| 5/22/2018 | 2380 |
| 6/12/2018 | 2400 |
| 10/17/2018 | 2220 |
| 11/19/2018 | 2360 |
| 4/10/2019 | 2630 |
| 5/14/2019 | 2340 |
| 10/8/2019 | 2330 |
| 10/16/2019 | 3650 (o) |
| 4/6/2020 | 2240 |
| 7/13/2020 | 2240 |
| 2/22/2021 | 2230 |
| 7/12/2021 | 2210 |
| 1/25/2022 | 2150 |
| 7/5/2022 | 2100 |
| 2/20/2023 | 2280 |

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| MW-2 | MW-2 |
|------------|------|
| 4/25/2016 | 1260 |
| 6/20/2016 | 1620 |
| 8/8/2016 | 1740 |
| 8/24/2016 | 1720 |
| 10/3/2016 | 1800 |
| 10/26/2016 | 1800 |
| 11/21/2016 | 1740 |
| 1/17/2017 | 1960 |
| 3/22/2017 | 1510 |
| 4/18/2017 | 1580 |
| 5/31/2017 | 1730 |
| 8/23/2017 | 1550 |
| 5/22/2018 | 1500 |
| 6/12/2018 | 1550 |
| 10/17/2018 | 1740 |
| 11/19/2018 | 1990 |
| 4/10/2019 | 1250 |
| 5/14/2019 | 1480 |
| 10/8/2019 | 1840 |
| 10/16/2019 | 1830 |
| 4/6/2020 | 1440 |
| 7/13/2020 | 1540 |
| 2/22/2021 | 1620 |
| 7/12/2021 | 1390 |
| 1/25/2022 | 1500 |
| 7/5/2022 | 1250 |
| 2/20/2023 | 1420 |

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-3 |
|------------|------|
| 4/25/2016 | 2720 |
| 6/22/2016 | 3250 |
| 8/9/2016 | 3050 |
| 8/24/2016 | 3080 |
| 10/4/2016 | 2900 |
| 10/26/2016 | 2940 |
| 11/21/2016 | 3090 |
| 1/18/2017 | 4020 |
| 3/22/2017 | 4180 |
| 4/18/2017 | 4440 |
| 5/31/2017 | 3970 |
| 8/23/2017 | 4050 |
| 5/24/2018 | 3680 |
| 6/12/2018 | 3820 |
| 10/17/2018 | 4730 |
| 11/19/2018 | 4710 |
| 4/10/2019 | 3680 |
| 5/14/2019 | 3580 |
| 10/8/2019 | 4720 |
| 10/16/2019 | 4210 |
| 4/6/2020 | 2630 |
| 7/13/2020 | 3650 |
| 2/22/2021 | 4670 |
| 7/12/2021 | 3510 |
| 1/25/2022 | 3950 |
| 7/5/2022 | 4220 |
| 2/20/2023 | 3230 |

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| MW-4 | MW-4 |
|------------|----------|
| 4/25/2016 | 3300 |
| 6/20/2016 | 3870 |
| 8/9/2016 | 4140 |
| 8/24/2016 | 4190 |
| 10/3/2016 | 4190 |
| 10/26/2016 | 4400 |
| 11/21/2016 | 4230 |
| 1/18/2017 | 4120 |
| 3/22/2017 | 3980 |
| 4/18/2017 | 3880 |
| 5/31/2017 | 4210 |
| 8/23/2017 | 3990 |
| 5/23/2018 | 3740 |
| 6/12/2018 | 4080 |
| 10/17/2018 | 4250 |
| 11/19/2018 | 3920 |
| 4/10/2019 | 3280 |
| 5/14/2019 | 3130 (D) |
| 10/10/2019 | 4000 |
| 10/16/2019 | 4060 |
| 4/6/2020 | 2820 |
| 7/14/2020 | 3310 |
| 2/22/2021 | 3190 |
| 7/12/2021 | 3000 |
| 1/25/2022 | 3180 |
| 7/5/2022 | 3240 |
| 2/21/2023 | 3160 |

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-5 |
|------------|------|
| 4/25/2016 | 3660 |
| 6/21/2016 | 3920 |
| 10/12/2017 | 4000 |
| 10/13/2017 | 3960 |
| 10/14/2017 | 3910 |
| 10/15/2017 | 3890 |
| 10/16/2017 | 3980 |
| 10/17/2017 | 3940 |
| 11/16/2017 | 3930 |
| 5/23/2018 | 3660 |
| 11/20/2018 | 3780 |
| 5/14/2019 | 3520 |
| 10/10/2019 | 3830 |
| 4/7/2020 | 3270 |
| 7/14/2020 | 3710 |
| 2/23/2021 | 3740 |
| 7/21/2021 | 3570 |
| 1/31/2022 | 3560 |
| 7/6/2022 | 3390 |
| 2/21/2023 | 3310 |

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-6 |
|------------|------|
| 4/27/2016 | 3290 |
| 6/21/2016 | 3250 |
| 10/12/2017 | 3220 |
| 10/13/2017 | 3250 |
| 10/14/2017 | 3260 |
| 10/15/2017 | 3260 |
| 10/16/2017 | 3360 |
| 10/17/2017 | 3420 |
| 11/16/2017 | 3280 |
| 5/23/2018 | 3340 |
| 11/20/2018 | 3330 |
| 5/15/2019 | 3130 |
| 10/10/2019 | 3260 |
| 4/8/2020 | 2940 |
| 7/14/2020 | 3270 |
| 2/23/2021 | 3230 |
| 7/20/2021 | 3090 |
| 1/31/2022 | 3050 |
| 7/6/2022 | 3110 |
| 2/22/2023 | 2790 |

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| MW-7 | MW-7 |
|------------|------|
| 4/27/2016 | 1640 |
| 6/21/2016 | 2460 |
| 10/12/2017 | 2460 |
| 10/13/2017 | 2420 |
| 10/14/2017 | 2320 |
| 10/15/2017 | 1150 |
| 10/16/2017 | 2320 |
| 10/17/2017 | 2360 |
| 11/16/2017 | 2460 |
| 5/23/2018 | 2390 |
| 11/20/2018 | 2090 |
| 5/15/2019 | 2310 |
| 10/8/2019 | 2340 |
| 4/8/2020 | 2230 |
| 7/14/2020 | 2210 |
| 2/23/2021 | 2320 |
| 7/20/2021 | 2110 |
| 1/31/2022 | 2140 |
| 7/6/2022 | 2110 |
| 2/21/2023 | 2220 |

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/17/2023 2:40 PM View: Appendix III - Intrawell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-8 |
|------------|------|
| 4/27/2016 | 2480 |
| 6/21/2016 | 2360 |
| 10/12/2017 | 2530 |
| 10/13/2017 | 2740 |
| 10/14/2017 | 2630 |
| 10/15/2017 | 2530 |
| 10/16/2017 | 2740 |
| 10/17/2017 | 2650 |
| 11/16/2017 | 2650 |
| 5/23/2018 | 2750 |
| 11/20/2018 | 2520 |
| 5/15/2019 | 2540 |
| 10/9/2019 | 2590 |
| 4/8/2020 | 2450 |
| 7/15/2020 | 2460 |
| 2/23/2021 | 2550 |
| 7/20/2021 | 2420 |
| 2/1/2022 | 2420 |
| 7/6/2022 | 2320 |
| 2/21/2023 | 2370 |

FIGURE E.

Appendix III Interwell Prediction Limits - Significant Results

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF Printed 5/17/2023, 2:42 PM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bg N</u> | <u>Bg Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|------------------------|-------------|-------------------|-------------------|-------------|----------------|-------------|-------------|----------------|------------------|-------------|----------------|------------------|--------------|-----------------------------|
| Chloride, Total (mg/L) | MW-5 | 4.6 | n/a | 2/21/2023 | 5.25 | Yes | 108 | n/a | n/a | 2.778 | n/a | n/a | 0.0001702 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | MW-7 | 4.6 | n/a | 2/21/2023 | 6.12 | Yes | 108 | n/a | n/a | 2.778 | n/a | n/a | 0.0001702 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | MW-8 | 4.6 | n/a | 2/21/2023 | 4.86 | Yes | 108 | n/a | n/a | 2.778 | n/a | n/a | 0.0001702 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | MW-5 | 6.35 | 4.51 | 2/21/2023 | 6.5 | Yes | 109 | n/a | n/a | 0 | n/a | n/a | 0.0003345 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | MW-7 | 6.35 | 4.51 | 2/21/2023 | 6.72 | Yes | 109 | n/a | n/a | 0 | n/a | n/a | 0.0003345 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | MW-8 | 6.35 | 4.51 | 2/21/2023 | 6.75 | Yes | 109 | n/a | n/a | 0 | n/a | n/a | 0.0003345 | NP Inter (normality) 1 of 2 |

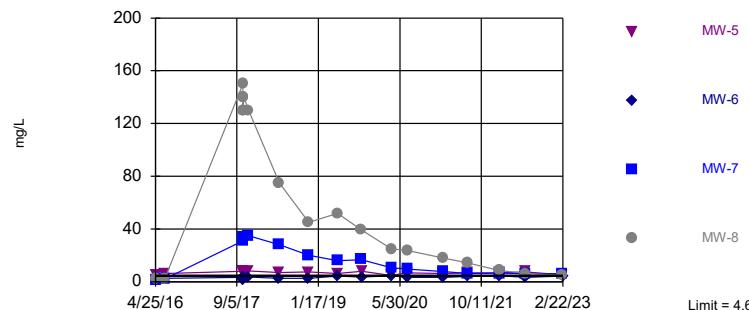
Appendix III Interwell Prediction Limits - All Results

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF Printed 5/17/2023, 2:42 PM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bg N</u> | <u>Bg Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|------------------------|-------------|-------------------|-------------------|-------------|----------------|-------------|-------------|----------------|------------------|-------------|----------------|------------------|------------------|-----------------------------|
| Chloride, Total (mg/L) | MW-5 | 4.6 | n/a | 2/21/2023 | 5.25 | Yes | 108 | n/a | n/a | 2.778 | n/a | n/a | 0.0001702 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | MW-6 | 4.6 | n/a | 2/22/2023 | 4.37 | No | 108 | n/a | n/a | 2.778 | n/a | n/a | 0.0001702 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | MW-7 | 4.6 | n/a | 2/21/2023 | 6.12 | Yes | 108 | n/a | n/a | 2.778 | n/a | n/a | 0.0001702 | NP Inter (normality) 1 of 2 |
| Chloride, Total (mg/L) | MW-8 | 4.6 | n/a | 2/21/2023 | 4.86 | Yes | 108 | n/a | n/a | 2.778 | n/a | n/a | 0.0001702 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | MW-5 | 6.35 | 4.51 | 2/21/2023 | 6.5 | Yes | 109 | n/a | n/a | 0 | n/a | n/a | 0.0003345 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | MW-6 | 6.35 | 4.51 | 2/22/2023 | 4.98 | No | 109 | n/a | n/a | 0 | n/a | n/a | 0.0003345 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | MW-7 | 6.35 | 4.51 | 2/21/2023 | 6.72 | Yes | 109 | n/a | n/a | 0 | n/a | n/a | 0.0003345 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | MW-8 | 6.35 | 4.51 | 2/21/2023 | 6.75 | Yes | 109 | n/a | n/a | 0 | n/a | n/a | 0.0003345 | NP Inter (normality) 1 of 2 |

Exceeds Limit: MW-5, MW-7, MW-8

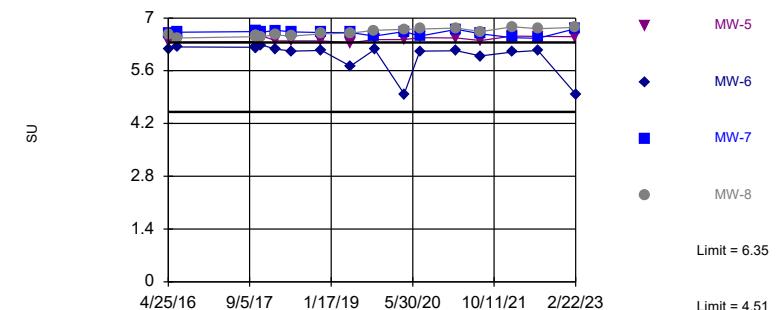
Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 108 background values. 2.778% NDs. Annual per-constituent alpha = 0.001361. Individual comparison alpha = 0.0001702 (1 of 2). Comparing 4 points to limit.

Exceeds Limits: MW-5, MW-7, MW-8

Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 109 background values. Annual per-constituent alpha = 0.002675. Individual comparison alpha = 0.0003345 (1 of 2). Comparing 4 points to limit.

Constituent: Chloride, Total Analysis Run 5/17/2023 2:41 PM View: Appendix III - Interwell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Constituent: pH, Field Analysis Run 5/17/2023 2:41 PM View: Appendix III - Interwell
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 5/17/2023 2:42 PM View: Appendix III - Interwell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-4 (bg) | MW-5 | MW-3 (bg) | MW-2 (bg) | MW-1 (bg) | MW-6 | MW-7 | MW-8 |
|------------|-----------|-------|-----------|-----------|-----------|---------|--------|---------|
| 4/25/2016 | 1.53 | 5.44 | 1.32 | 1.9 | | | | |
| 4/26/2016 | | | | | 1.94 | | | |
| 4/27/2016 | | | | | | 2.19 | 1.71 | 2.34 |
| 6/20/2016 | 1.85 | | | 3.43 | 2.09 | | | |
| 6/21/2016 | | 6.32 | | | | 2.56 | 2.04 | 2.29 |
| 6/22/2016 | | | 1.46 | | | | | |
| 8/8/2016 | | | | 3.31 | 2.18 | | | |
| 8/9/2016 | 1.95 | | 1.35 | | | | | |
| 8/24/2016 | 2.07 | | 1.47 | 3.23 | 2.22 | | | |
| 10/3/2016 | 2.02 | | | 3.21 | 2.34 | | | |
| 10/4/2016 | | | 1.59 | | | | | |
| 10/26/2016 | 2.07 | | 1.27 | 3.35 | 2.34 | | | |
| 11/21/2016 | 2.39 | | 1.38 | 3.34 | 2.5 | | | |
| 1/17/2017 | | | | 3.58 | 2.68 | | | |
| 1/18/2017 | 1.9 | | 1.34 | | | | | |
| 3/22/2017 | 1.5 (J) | | 2 | 3.4 | 3.7 | | | |
| 4/18/2017 | 1.6 (J) | | 2.2 | 2.6 | 2.4 | | | |
| 5/30/2017 | | | | | 2.6 | | | |
| 5/31/2017 | 2.1 | | 1.5 (J) | 4.4 | | | | |
| 8/23/2017 | 2.3 | | 1.8 (J) | 4.4 | 2.7 | | | |
| 10/12/2017 | | 7.9 | | | | 3.4 | 31 | 150 |
| 10/13/2017 | | 8 (B) | | | | 3 (B) | 32 (B) | 130 (B) |
| 10/14/2017 | | 7.4 | | | | 2.8 | 33 | 140 |
| 10/15/2017 | | 7.2 | | | | 1.9 (J) | 34 | 130 |
| 10/16/2017 | | 8.1 | | | | 1.8 (J) | 34 | 140 |
| 10/17/2017 | | 7.9 | | | | 3.1 | 34 | 140 |
| 11/16/2017 | | 8.1 | | | | 3.5 | 35 | 130 |
| 5/22/2018 | | | 3.2 | 2.3 | | | | |
| 5/23/2018 | 2 | 7 | | | | 2.6 | 28 | 75 |
| 5/24/2018 | | | 1.6 (J) | | | | | |
| 6/12/2018 | 1.7 (J) | | 1.4 (J) | 3.7 | 2.3 | | | |
| 10/17/2018 | 1.5 (J) | | <2 | 4.6 | 1.7 (J) | | | |
| 11/19/2018 | <2 | | <2 | 3 | 1.7 (J) | | | |
| 11/20/2018 | | 7.4 | | | | 2.7 | 20 | 45 |
| 4/10/2019 | 1.88 | | 2.25 | 1.76 | 2.36 | | | |
| 5/14/2019 | 1.82 | 6.24 | 2.28 | 2.98 | 2.28 | | | |
| 5/15/2019 | | | | | | 4.45 | 15.9 | 52 |
| 10/8/2019 | | | 1.36 | 4.26 | 2.31 | | | |
| 10/9/2019 | | | | | | | | 39.2 |
| 10/10/2019 | 1.93 | 7.88 | | | | 3.61 | | |
| 10/16/2019 | 1.92 | | 1.4 | 4.04 | 2.42 | | | |
| 4/6/2020 | 1.5 | | 1.72 | 2.43 | 2.01 | | | |
| 4/7/2020 | | 4.83 | | | | | | |
| 4/8/2020 | | | | | | 4.63 | 10.6 | 24.9 |
| 7/13/2020 | | | 1.34 | 4.05 | 2.1 | | | |
| 7/14/2020 | 1.61 | 6.84 | | | | 3.25 | 9.68 | |
| 7/15/2020 | | | | | | | | 23.8 |
| 2/22/2021 | 1.52 | | 2.22 | 1.72 | 2.16 | | | |
| 2/23/2021 | | 6.19 | | | | 3.47 | 7.85 | 17.9 |
| 7/12/2021 | 1.56 | | 2.13 | 2.36 | 2.19 | | | |
| 7/20/2021 | | | | | | 4.04 | 6.35 | 14.3 |
| 7/21/2021 | | 6.73 | | | | | | |

Prediction Limit

Page 2

Constituent: Chloride, Total (mg/L) Analysis Run 5/17/2023 2:42 PM View: Appendix III - Interwell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-4 (bg) | MW-5 | MW-3 (bg) | MW-2 (bg) | MW-1 (bg) | MW-6 | MW-7 | MW-8 |
|-----------|-----------|------|-----------|-----------|-----------|------|------|------|
| 1/25/2022 | 1.54 | | 2.12 | 2.14 | 2.09 | | | |
| 1/31/2022 | | 6.87 | | | | 4.53 | 6.4 | |
| 2/1/2022 | | | | | | | | 8.56 |
| 7/5/2022 | 1.63 | | 1.59 | 2.53 | 2.07 | | | |
| 7/6/2022 | | 7.51 | | | | 3.36 | 6.25 | 6.5 |
| 2/20/2023 | | | 1.94 | 1.7 | 2.05 | | | |
| 2/21/2023 | 1.58 | 5.25 | | | | | 6.12 | 4.86 |
| 2/22/2023 | | | | | 4.37 | | | |

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/17/2023 2:42 PM View: Appendix III - Interwell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-5 | MW-4 (bg) | MW-3 (bg) | MW-2 (bg) | MW-1 (bg) | MW-6 | MW-8 | MW-7 |
|------------|------|-----------|-----------|-----------|-----------|------|------|------|
| 4/25/2016 | 6.37 | 6.22 | 5.56 | 5.94 | | | | |
| 4/26/2016 | | | | | 5.2 | | | |
| 4/27/2016 | | | | | | 6.18 | 6.55 | 6.6 |
| 6/20/2016 | | 6.21 | | 5.96 | 5.18 | | | |
| 6/21/2016 | 6.35 | | | | | 6.23 | 6.47 | 6.62 |
| 6/22/2016 | | | 5.57 | | | | | |
| 8/8/2016 | | | | 5.88 | 5.12 | | | |
| 8/9/2016 | | 6.11 | 5.67 | | | | | |
| 8/24/2016 | | 6.11 | 5.63 | | | | | |
| 10/3/2016 | | 6.13 | | 5.91 | 5.21 | | | |
| 10/4/2016 | | | 5.69 | | | | | |
| 10/26/2016 | | 6.12 | 5.56 | 5.84 | 5.2 | | | |
| 11/21/2016 | | 6.09 | 5.42 | 5.82 | 5.19 | | | |
| 1/17/2017 | | | | 5.87 | 5.17 | | | |
| 1/18/2017 | | 6.09 | 5.11 | | | | | |
| 3/22/2017 | | 6.15 | 4.52 | 6.01 | 5.2 | | | |
| 4/18/2017 | | 6.19 | 5.84 | 6.02 | 5.2 | | | |
| 5/30/2017 | | | | | 5.14 | | | |
| 5/31/2017 | | 6.13 | 4.56 | 5.85 | | | | |
| 8/23/2017 | | 6.12 | 4.77 | 5.89 | 5.12 | | | |
| 10/12/2017 | 6.38 | | | | | 6.22 | 6.5 | 6.64 |
| 10/13/2017 | 6.43 | | | | | 6.23 | 6.51 | 6.64 |
| 10/14/2017 | 6.41 | | | | | 6.22 | 6.53 | 6.66 |
| 10/15/2017 | 6.42 | | | | | 6.22 | 6.53 | 6.67 |
| 10/16/2017 | 6.42 | | | | | 6.21 | 6.54 | 6.67 |
| 10/17/2017 | 6.41 | | | | | 6.2 | 6.54 | 6.66 |
| 11/16/2017 | 6.53 | | | | | 6.28 | 6.51 | 6.62 |
| 2/13/2018 | | 6.22 | 5.67 | 6.21 | 5.18 | | | |
| 2/14/2018 | 6.39 | | | | | 6.17 | 6.55 | 6.67 |
| 5/22/2018 | | | | 6.04 | 5.2 | | | |
| 5/23/2018 | 6.39 | 6.21 | | | | 6.12 | 6.52 | 6.63 |
| 5/24/2018 | | | 5.19 | | | | | |
| 6/12/2018 | | 6.16 | 4.79 | 5.95 | 5.15 | | | |
| 10/17/2018 | | 6.12 | 4.75 | 5.9 | 5.12 | | | |
| 11/19/2018 | | 6.16 | 3.77 (o) | 6.03 | 5.09 | | | |
| 11/20/2018 | 6.39 | | | | | 6.14 | 6.58 | 6.61 |
| 4/10/2019 | | 6.14 | 5.54 | 6.1 | 5.11 | | | |
| 5/14/2019 | 6.34 | 6.23 | 5.71 | 6.07 | 5.19 | | | |
| 5/15/2019 | | | | | | 5.72 | 6.6 | 6.61 |
| 10/8/2019 | | | 4.98 | 5.96 | 5.12 | | | 6.52 |
| 10/9/2019 | | | | | | | 6.67 | |
| 10/10/2019 | 6.43 | 6.15 | | | | 6.16 | | |
| 10/16/2019 | | 6.19 | 4.51 | 5.98 | 5.16 | | | |
| 4/6/2020 | | 6.35 | 5.91 | 6.21 | 5.21 | | | |
| 4/7/2020 | 6.43 | | | | | | | |
| 4/8/2020 | | | | | | 4.98 | 6.7 | 6.64 |
| 7/13/2020 | | | 5.16 | 5.84 | 5.14 | | | |
| 7/14/2020 | 6.48 | 6.2 | | | | 6.12 | | 6.52 |
| 7/15/2020 | | | | | | | 6.71 | |
| 2/22/2021 | | 6.19 | 5.59 | 6.1 | 5.06 | | | |
| 2/23/2021 | 6.47 | | | | | 6.13 | 6.73 | 6.7 |
| 7/12/2021 | | 6.06 | 5.86 | 6.16 | 5.13 | | | |

Prediction Limit

Page 2

Constituent: pH, Field (SU) Analysis Run 5/17/2023 2:42 PM View: Appendix III - Interwell

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-5 | MW-4 (bg) | MW-3 (bg) | MW-2 (bg) | MW-1 (bg) | MW-6 | MW-8 | MW-7 |
|-----------|------|-----------|-----------|-----------|-----------|------|------|------|
| 7/20/2021 | | | | | | 5.99 | 6.64 | 6.58 |
| 7/21/2021 | 6.4 | | | | | | | |
| 1/25/2022 | | 6.3 | 5.9 | 6.22 | 5.11 | | | |
| 1/31/2022 | 6.52 | | | | | 6.1 | | 6.48 |
| 2/1/2022 | | | | | | | 6.77 | |
| 7/5/2022 | | 6.12 | 5.34 | 6.15 | 5.01 | | | |
| 7/6/2022 | 6.51 | | | | | 6.14 | 6.72 | 6.46 |
| 2/20/2023 | | | 6.01 | 6.24 | 5.07 | | | |
| 2/21/2023 | 6.5 | 6.35 | | | | | 6.75 | 6.72 |
| 2/22/2023 | | | | | | 4.98 | | |

FIGURE F.

Trend Tests - Prediction Limit Exceedances - Significant Results

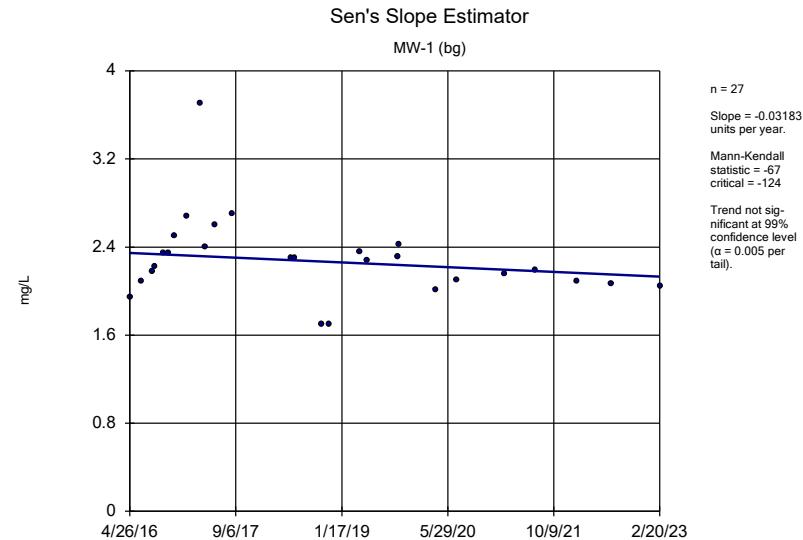
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF Printed 5/17/2023, 2:44 PM

| <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> |
|------------------------|-------------|--------------|--------------|-----------------|-------------|----------|-------------|------------------|--------------|--------------|---------------|
| Chloride, Total (mg/L) | MW-8 | -23.35 | -100 | -81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-2 (bg) | 0.01459 | 183 | 131 | Yes | 28 | 0 | n/a | n/a | 0.01 | NP |
| pH, Field (SU) | MW-1 (bg) | -0.01675 | -154 | -124 | Yes | 27 | 0 | n/a | n/a | 0.01 | NP |
| pH, Field (SU) | MW-2 (bg) | 0.04641 | 169 | 124 | Yes | 27 | 0 | n/a | n/a | 0.01 | NP |
| pH, Field (SU) | MW-8 | 0.04545 | 156 | 87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |

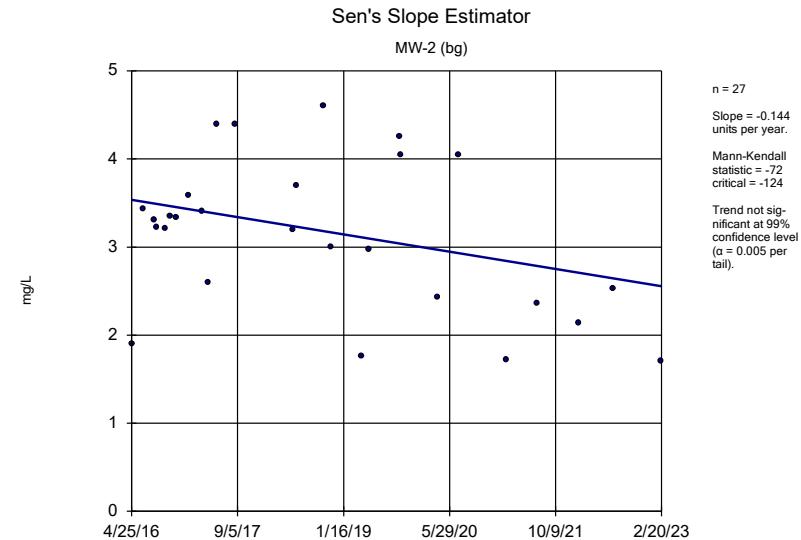
Trend Tests - Prediction Limit Exceedances - All Results

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF Printed 5/17/2023, 2:44 PM

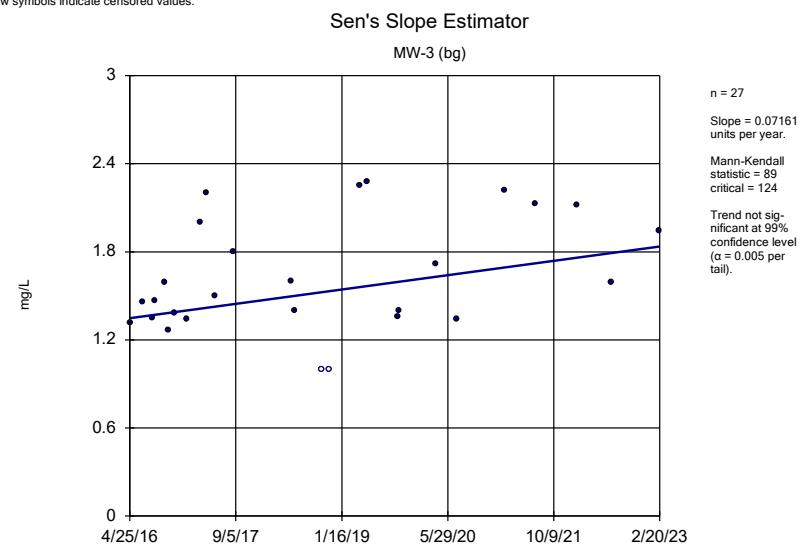
| <u>Constituent</u> | <u>Well</u> | <u>Slope</u> | <u>Calc.</u> | <u>Critical</u> | <u>Sig.</u> | <u>N</u> | <u>%NDs</u> | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|-------------------------------|------------------|-----------------|--------------|-----------------|-------------|-----------|-------------|------------------|--------------|--------------|---------------|
| Chloride, Total (mg/L) | MW-1 (bg) | -0.03183 | -67 | -124 | No | 27 | 0 | n/a | n/a | 0.01 | NP |
| Chloride, Total (mg/L) | MW-2 (bg) | -0.144 | -72 | -124 | No | 27 | 0 | n/a | n/a | 0.01 | NP |
| Chloride, Total (mg/L) | MW-3 (bg) | 0.07161 | 89 | 124 | No | 27 | 7.407 | n/a | n/a | 0.01 | NP |
| Chloride, Total (mg/L) | MW-4 (bg) | -0.06041 | -97 | -124 | No | 27 | 3.704 | n/a | n/a | 0.01 | NP |
| Chloride, Total (mg/L) | MW-5 | -0.1261 | -43 | -81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Chloride, Total (mg/L) | MW-7 | -4.869 | -73 | -81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Chloride, Total (mg/L) | MW-8 | -23.35 | -100 | -81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-1 (bg) | -0.003095 | -33 | -131 | No | 28 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-2 (bg) | 0.01459 | 183 | 131 | Yes | 28 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-3 (bg) | 0.002778 | 21 | 131 | No | 28 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-4 (bg) | 0.007162 | 85 | 131 | No | 28 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-6 | -0.00234 | -54 | -81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-7 | 0.001693 | 32 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| pH, Field (SU) | MW-1 (bg) | -0.01675 | -154 | -124 | Yes | 27 | 0 | n/a | n/a | 0.01 | NP |
| pH, Field (SU) | MW-2 (bg) | 0.04641 | 169 | 124 | Yes | 27 | 0 | n/a | n/a | 0.01 | NP |
| pH, Field (SU) | MW-3 (bg) | 0.03562 | 35 | 124 | No | 27 | 0 | n/a | n/a | 0.01 | NP |
| pH, Field (SU) | MW-4 (bg) | 0.01607 | 93 | 131 | No | 28 | 0 | n/a | n/a | 0.01 | NP |
| pH, Field (SU) | MW-5 | 0.01884 | 86 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| pH, Field (SU) | MW-7 | -0.01489 | -38 | -87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| pH, Field (SU) | MW-8 | 0.04545 | 156 | 87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |



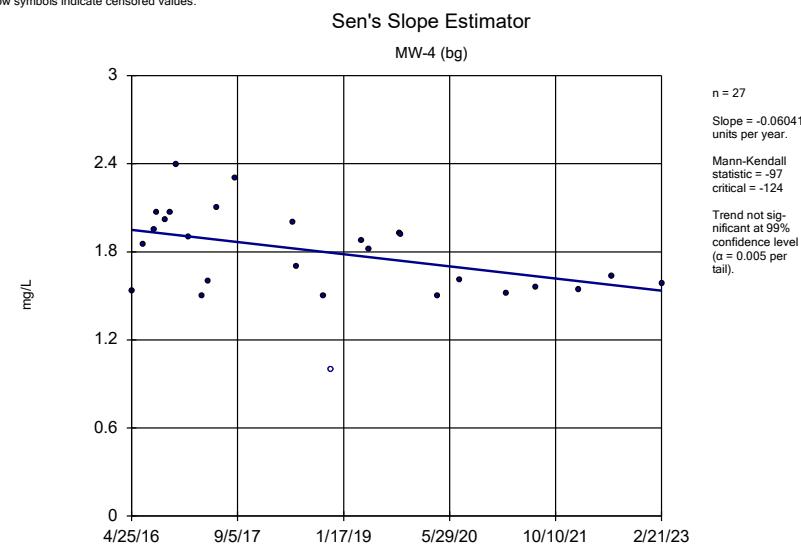
Constituent: Chloride, Total Analysis Run 5/17/2023 2:43 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF



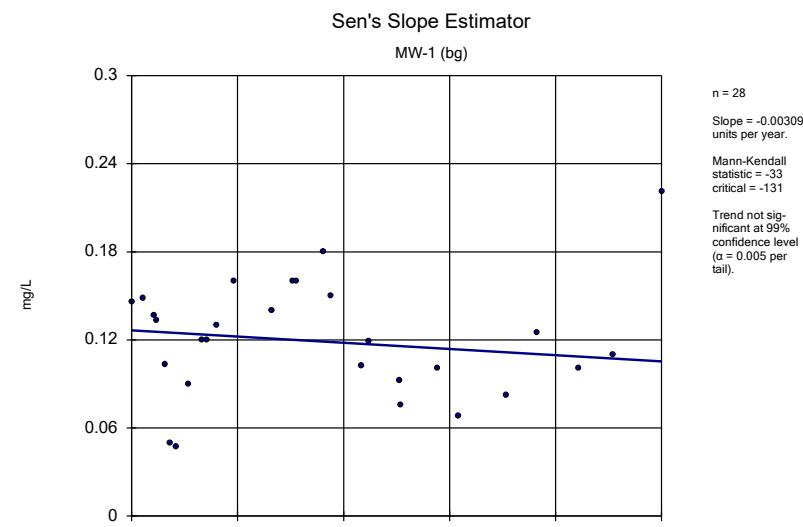
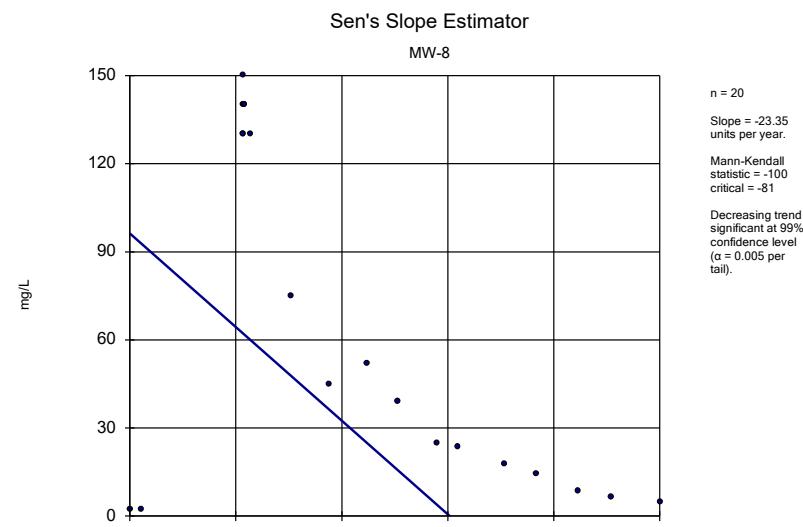
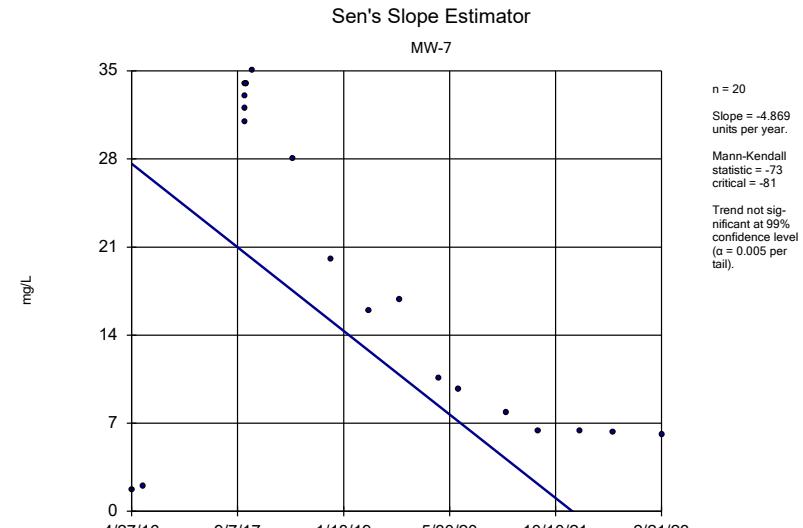
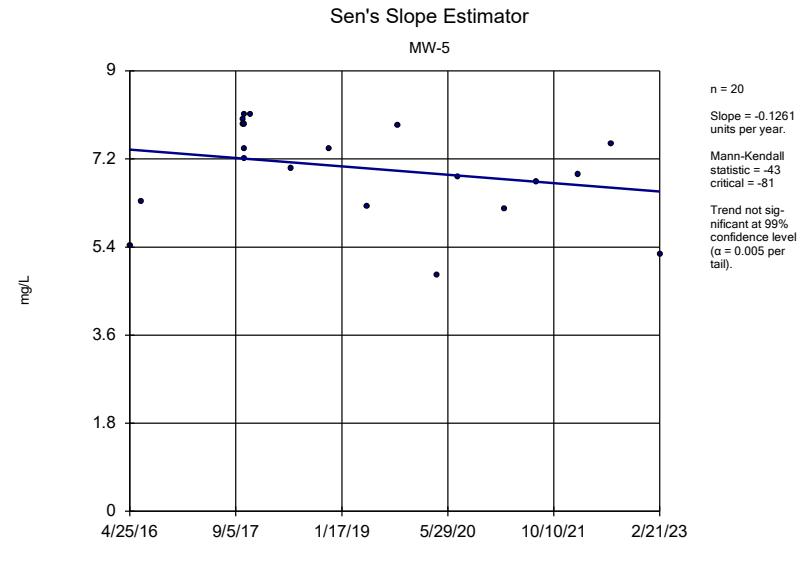
Constituent: Chloride, Total Analysis Run 5/17/2023 2:43 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

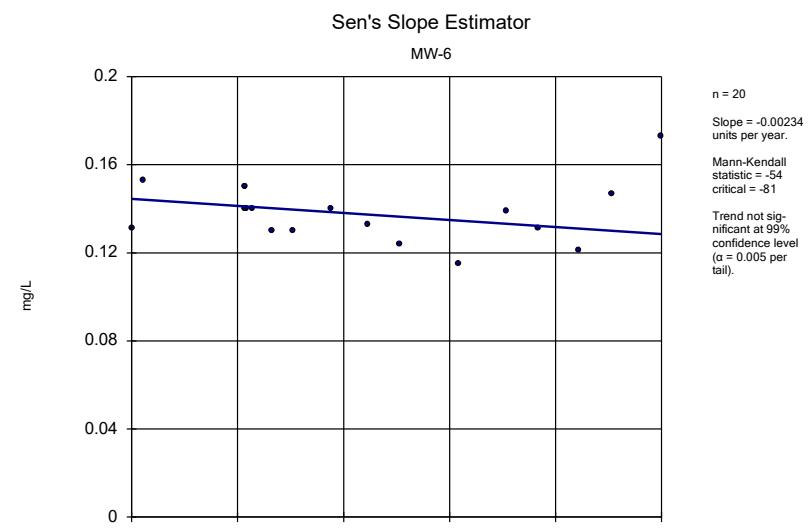
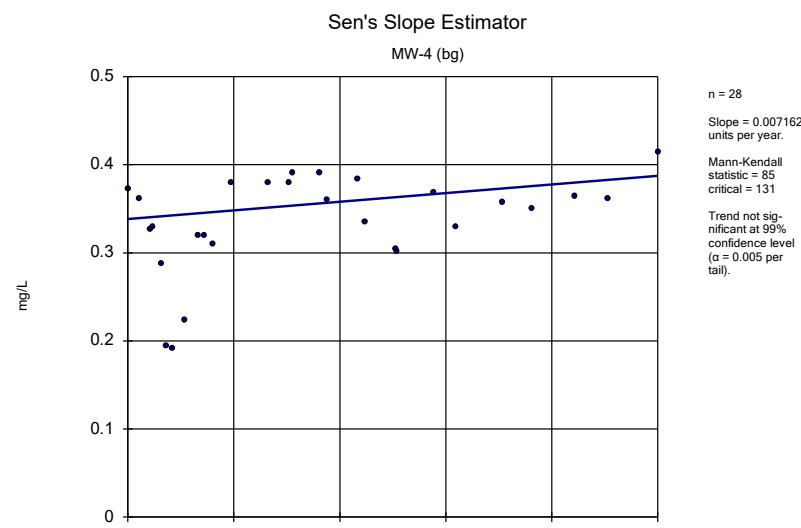
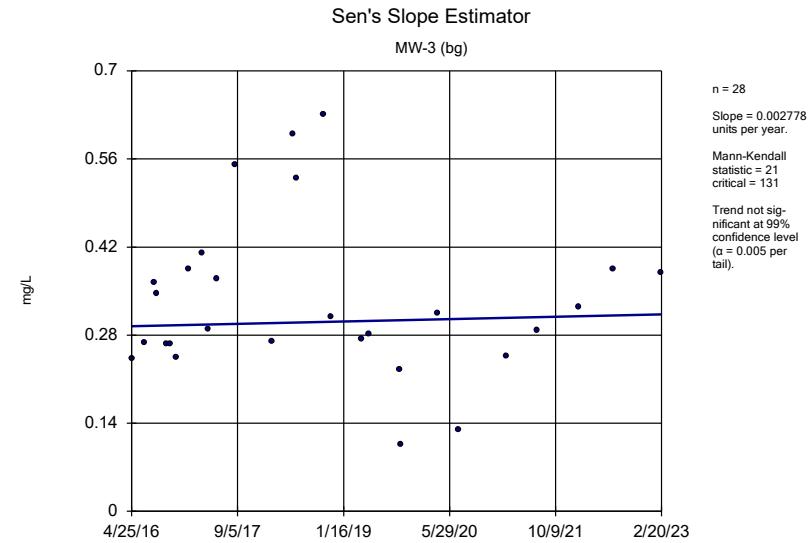
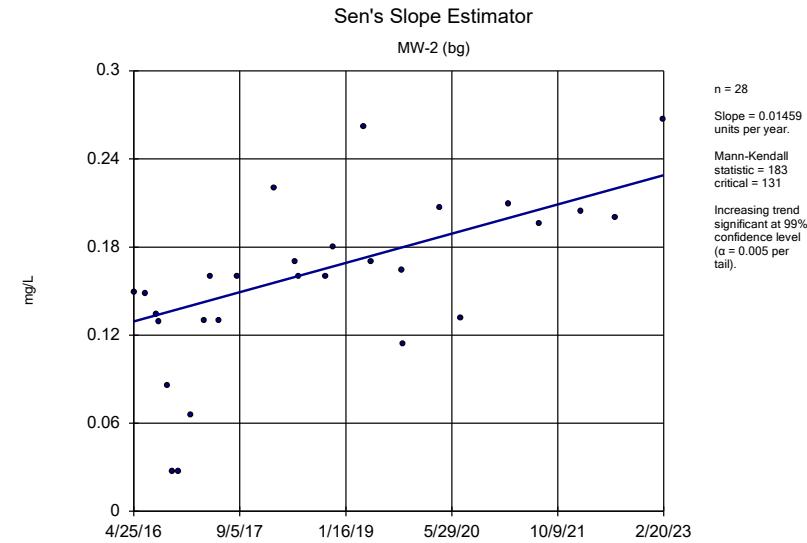


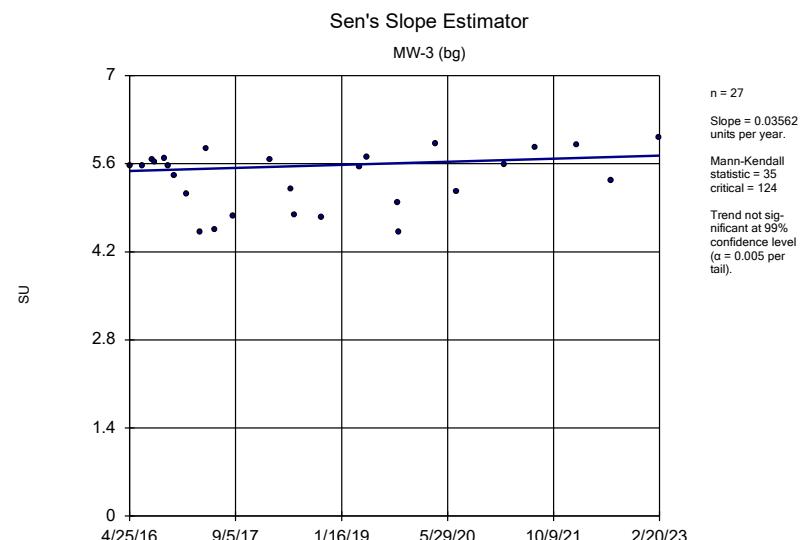
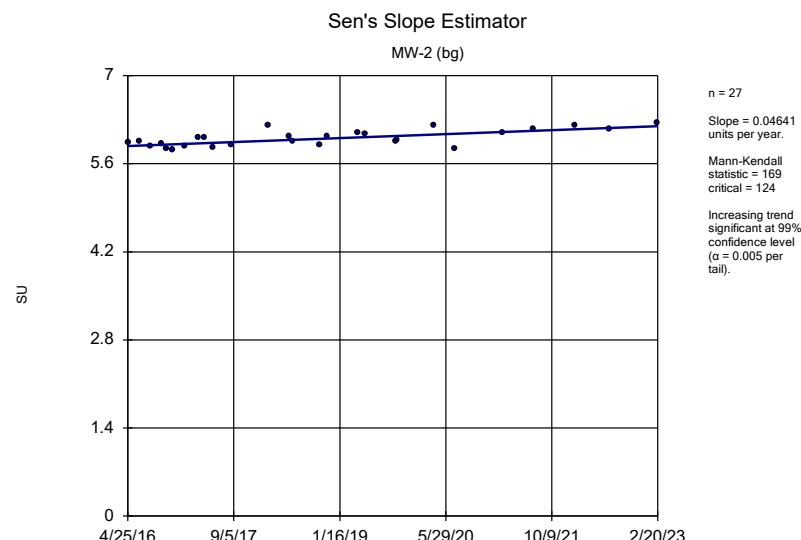
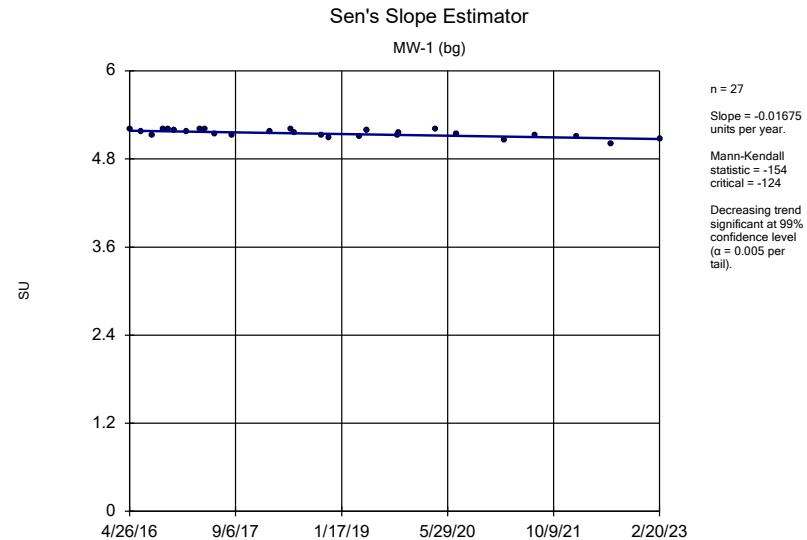
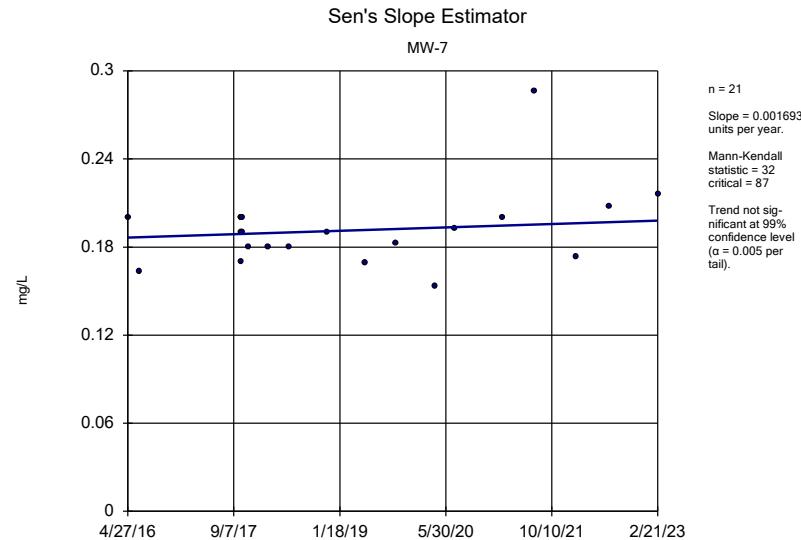
Constituent: Chloride, Total Analysis Run 5/17/2023 2:43 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

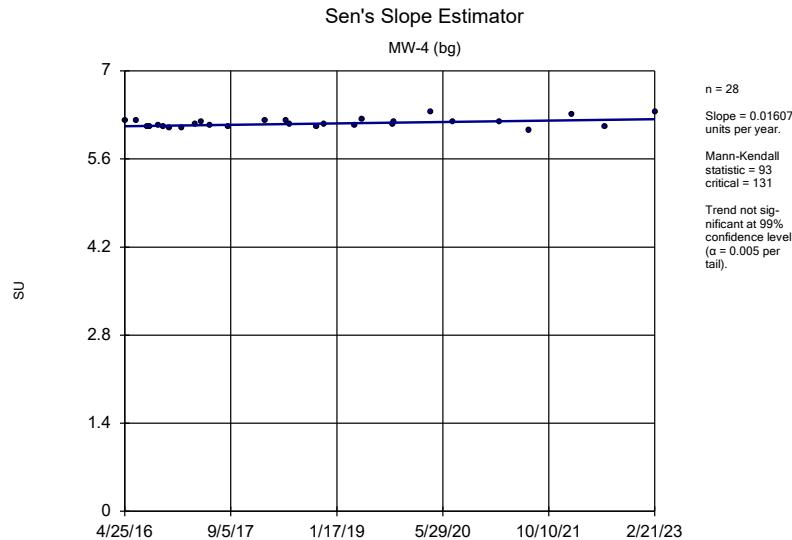


Constituent: Chloride, Total Analysis Run 5/17/2023 2:43 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

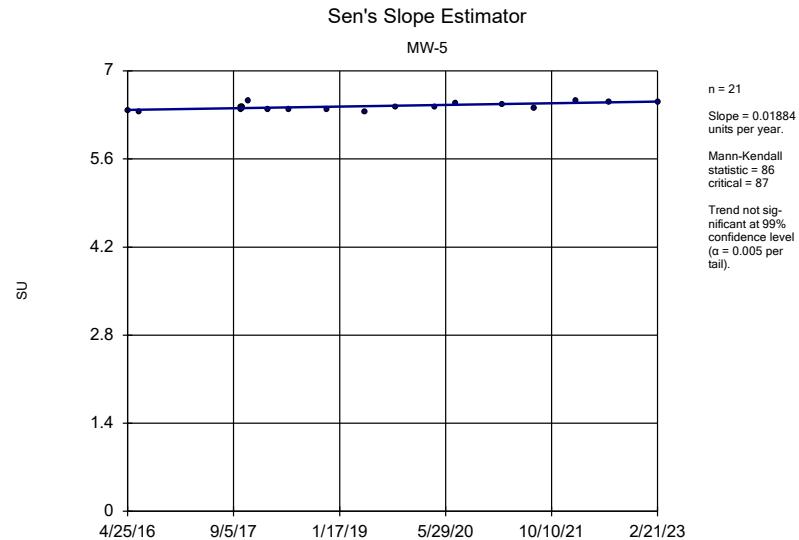




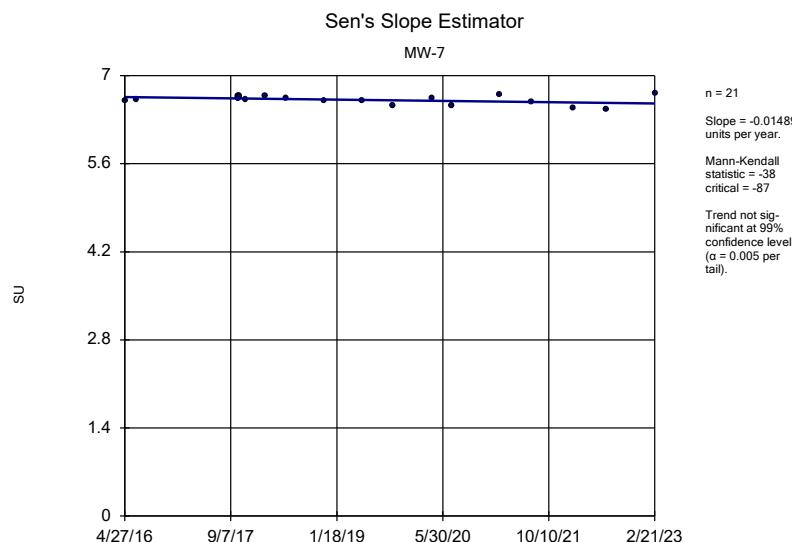




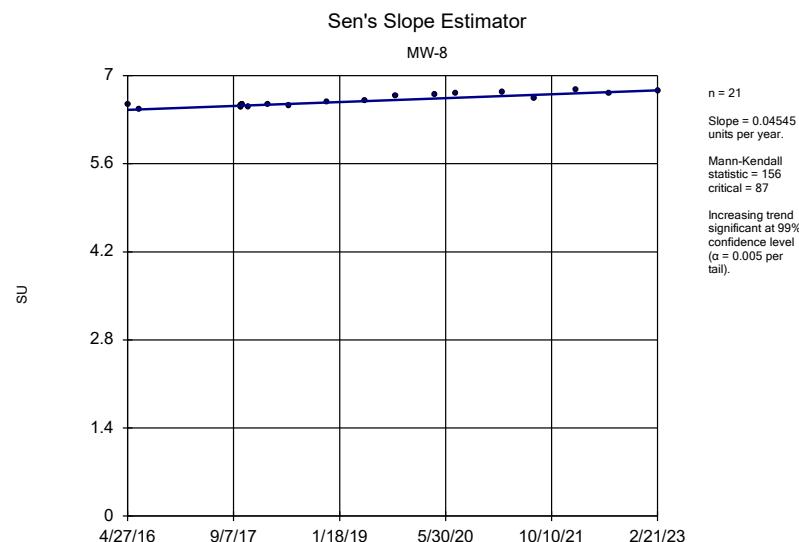
Constituent: pH, Field Analysis Run 5/17/2023 2:43 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF



Constituent: pH, Field Analysis Run 5/17/2023 2:43 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF



Constituent: pH, Field Analysis Run 5/17/2023 2:43 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF



Constituent: pH, Field Analysis Run 5/17/2023 2:43 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

FIGURE G.

Upper Tolerance Limits Summary Table

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF Printed 11/16/2021, 10:57 AM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bg N</u> | <u>Bg Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|-----------------------------------|-------------|-------------------|-------------|----------------|-------------|-------------|----------------|------------------|-------------|----------------|------------------|--------------|---------------|
| Antimony (mg/L) | n/a | 0.00143 | n/a | n/a | n/a | 96 | n/a | n/a | 93.75 | n/a | n/a | 0.007269 | NP Inter |
| Arsenic (mg/L) | n/a | 0.005 | n/a | n/a | n/a | 96 | n/a | n/a | 83.33 | n/a | n/a | 0.007269 | NP Inter |
| Barium (mg/L) | n/a | 0.0165 | n/a | n/a | n/a | 96 | n/a | n/a | 0 | n/a | n/a | 0.007269 | NP Inter |
| Beryllium (mg/L) | n/a | 0.0121 | n/a | n/a | n/a | 94 | n/a | n/a | 84.04 | n/a | n/a | 0.008054 | NP Inter |
| Cadmium (mg/L) | n/a | 0.00598 | n/a | n/a | n/a | 94 | n/a | n/a | 45.74 | n/a | n/a | 0.008054 | NP Inter |
| Chromium (mg/L) | n/a | 0.0105 | n/a | n/a | n/a | 96 | n/a | n/a | 89.58 | n/a | n/a | 0.007269 | NP Inter |
| Cobalt (mg/L) | n/a | 0.49 | n/a | n/a | n/a | 94 | n/a | n/a | 26.6 | n/a | n/a | 0.008054 | NP Inter |
| Combined Radium 226 + 228 (pCi/L) | n/a | 1.47 | n/a | n/a | n/a | 92 | n/a | n/a | 0 | n/a | n/a | 0.008924 | NP Inter |
| Fluoride, total (mg/L) | n/a | 0.63 | n/a | n/a | n/a | 100 | n/a | n/a | 0 | n/a | n/a | 0.005921 | NP Inter |
| Lead (mg/L) | n/a | 0.00108 | n/a | n/a | n/a | 95 | n/a | n/a | 95.79 | n/a | n/a | 0.007651 | NP Inter |
| Lithium (mg/L) | n/a | 0.419 | n/a | n/a | n/a | 96 | n/a | n/a | 0 | n/a | n/a | 0.007269 | NP Inter |
| Mercury (mg/L) | n/a | 0.0005 | n/a | n/a | n/a | 96 | n/a | n/a | 100 | n/a | n/a | 0.007269 | NP Inter |
| Molybdenum (mg/L) | n/a | 0.0002 | n/a | n/a | n/a | 96 | n/a | n/a | 97.92 | n/a | n/a | 0.007269 | NP Inter |
| Selenium (mg/L) | n/a | 0.0209 | n/a | n/a | n/a | 96 | n/a | n/a | 60.42 | n/a | n/a | 0.007269 | NP Inter |
| Thallium (mg/L) | n/a | 0.000226 | n/a | n/a | n/a | 96 | n/a | n/a | 96.88 | n/a | n/a | 0.007269 | NP Inter |

FIGURE H.

| GOR GAS CCR LANDFILL GWPS | | | |
|---------------------------|-------|------------|-------|
| Analyte | Units | Background | GWPS |
| Antimony | mg/L | 0.00143 | 0.006 |
| Arsenic | mg/L | 0.005 | 0.01 |
| Barium | mg/L | 0.0165 | 2 |
| Beryllium | mg/L | 0.0121 | 0.004 |
| Cadmium | mg/L | 0.00598 | 0.005 |
| Chromium | mg/L | 0.0105 | 0.1 |
| Cobalt | mg/L | 0.49 | 0.49 |
| Combined Radium-226/228 | pCi/L | 1.47 | 5 |
| Fluoride | mg/L | 0.63 | 4 |
| Lead | mg/L | 0.00108 | 0.015 |
| Lithium | mg/L | 0.419 | 0.419 |
| Mercury | mg/L | 0.0005 | 0.002 |
| Molybdenum | mg/L | 0.0002 | 0.1 |
| Selenium | mg/L | 0.0209 | 0.05 |
| Thallium | mg/L | 0.000226 | 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.

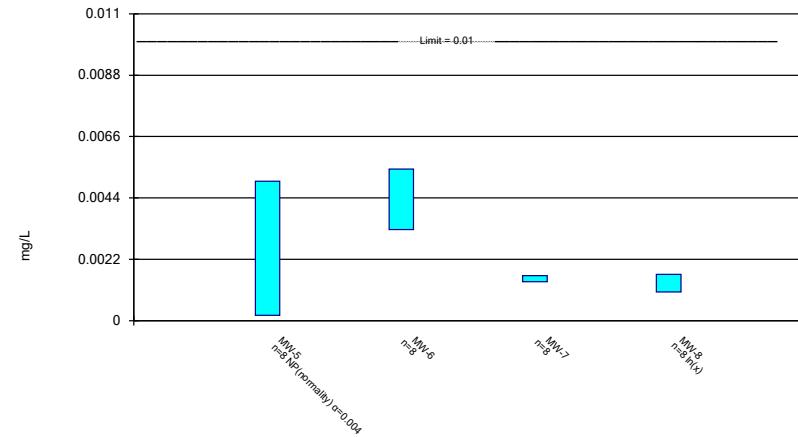
Confidence Intervals - All Results (No Significant)

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF Printed 5/17/2023, 2:46 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>Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|-----------------------------------|-------------|-------------------|-------------------|-------------------|-------------|----------|-------------|------------------|-------------|----------------|------------------|--------------|----------------|
| Arsenic (mg/L) | MW-5 | 0.005 | 0.00019 | 0.01 | No | 8 | 0.00164 | 0.002126 | 25 | None | No | 0.004 | NP (normality) |
| Arsenic (mg/L) | MW-6 | 0.005436 | 0.003264 | 0.01 | No | 8 | 0.00435 | 0.001025 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | MW-7 | 0.001617 | 0.001398 | 0.01 | No | 8 | 0.001508 | 0.0001031 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | MW-8 | 0.001656 | 0.00103 | 0.01 | No | 8 | 0.001338 | 0.0003428 | 0 | None | In(x) | 0.01 | Param. |
| Barium (mg/L) | MW-5 | 0.01287 | 0.01063 | 2 | No | 8 | 0.01175 | 0.001054 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-6 | 0.01516 | 0.01296 | 2 | No | 8 | 0.01406 | 0.001039 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-7 | 0.0147 | 0.01306 | 2 | No | 8 | 0.01389 | 0.0008043 | 0 | None | x^3 | 0.01 | Param. |
| Barium (mg/L) | MW-8 | 0.01457 | 0.0136 | 2 | No | 8 | 0.01409 | 0.0004581 | 0 | None | No | 0.01 | Param. |
| Beryllium (mg/L) | MW-6 | 0.0009721 | 0.0002071 | 0.004 | No | 8 | 0.0008748 | 0.0002821 | 50 | Kaplan-Meier | x^2 | 0.01 | Param. |
| Cadmium (mg/L) | MW-6 | 0.001305 | 0.00004582 | 0.005 | No | 8 | 0.0007151 | 0.0007993 | 37.5 | Kaplan-Meier | x^(1/3) | 0.01 | Param. |
| Chromium (mg/L) | MW-5 | 0.001015 | 0.00027 | 0.1 | No | 8 | 0.0009219 | 0.0002634 | 87.5 | None | No | 0.004 | NP (NDs) |
| Chromium (mg/L) | MW-6 | 0.00102 | 0.00024 | 0.1 | No | 8 | 0.0007406 | 0.0003859 | 62.5 | None | No | 0.004 | NP (NDs) |
| Chromium (mg/L) | MW-7 | 0.001015 | 0.00032 | 0.1 | No | 8 | 0.0009281 | 0.0002457 | 87.5 | None | No | 0.004 | NP (NDs) |
| Chromium (mg/L) | MW-8 | 0.001015 | 0.00025 | 0.1 | No | 8 | 0.0009194 | 0.0002705 | 87.5 | None | No | 0.004 | NP (NDs) |
| Cobalt (mg/L) | MW-5 | 0.005 | 0.000538 | 0.49 | No | 8 | 0.00246 | 0.002113 | 37.5 | None | No | 0.004 | NP (normality) |
| Cobalt (mg/L) | MW-6 | 0.4074 | 0.04205 | 0.49 | No | 8 | 0.2143 | 0.2004 | 0 | None | sqrt(x) | 0.01 | Param. |
| Cobalt (mg/L) | MW-7 | 0.006127 | 0.003563 | 0.49 | No | 8 | 0.004845 | 0.00121 | 0 | None | No | 0.01 | Param. |
| Cobalt (mg/L) | MW-8 | 0.008278 | 0.006947 | 0.49 | No | 8 | 0.007613 | 0.000628 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-5 | 0.8369 | 0.2596 | 5 | No | 8 | 0.5483 | 0.2723 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-6 | 2.522 | 0.1331 | 5 | No | 8 | 1.328 | 1.127 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-7 | 0.7205 | 0.291 | 5 | No | 8 | 0.5058 | 0.2026 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-8 | 2.19 | 0.398 | 5 | No | 8 | 0.8184 | 0.6442 | 0 | None | No | 0.004 | NP (normality) |
| Fluoride, total (mg/L) | MW-5 | 0.3348 | 0.2552 | 4 | No | 8 | 0.295 | 0.0375 | 0 | None | No | 0.01 | Param. |
| Fluoride, total (mg/L) | MW-6 | 0.1548 | 0.116 | 4 | No | 8 | 0.1354 | 0.01828 | 0 | None | No | 0.01 | Param. |
| Fluoride, total (mg/L) | MW-7 | 0.2435 | 0.1595 | 4 | No | 8 | 0.2015 | 0.03959 | 0 | None | No | 0.01 | Param. |
| Fluoride, total (mg/L) | MW-8 | 0.2308 | 0.1714 | 4 | No | 8 | 0.2011 | 0.02803 | 0 | None | No | 0.01 | Param. |
| Lead (mg/L) | MW-6 | 0.000457 | 0.0002 | 0.015 | No | 8 | 0.0002361 | 0.00008995 | 75 | None | No | 0.004 | NP (NDs) |
| Lead (mg/L) | MW-8 | 0.000203 | 0.000088 | 0.015 | No | 8 | 0.0001486 | 0.00005849 | 50 | None | No | 0.004 | NP (normality) |
| Lithium (mg/L) | MW-5 | 0.1267 | 0.09462 | 0.419 | No | 8 | 0.1107 | 0.01514 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | MW-6 | 0.2487 | 0.09719 | 0.419 | No | 8 | 0.1707 | 0.0862 | 0 | None | x^2 | 0.01 | Param. |
| Lithium (mg/L) | MW-7 | 0.131 | 0.0907 | 0.419 | No | 8 | 0.1068 | 0.01712 | 0 | None | No | 0.004 | NP (normality) |
| Lithium (mg/L) | MW-8 | 0.163 | 0.1263 | 0.419 | No | 8 | 0.1446 | 0.01732 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | MW-5 | 0.01 | 0.000945 | 0.1 | No | 8 | 0.004488 | 0.004566 | 37.5 | None | No | 0.004 | NP (normality) |
| Molybdenum (mg/L) | MW-6 | 0.0002823 | 0.00004206 | 0.1 | No | 8 | 0.0001941 | 0.00008803 | 50 | Kaplan-Meier | No | 0.01 | Param. |
| Molybdenum (mg/L) | MW-7 | 0.01 | 0.000846 | 0.1 | No | 8 | 0.004342 | 0.004686 | 37.5 | None | No | 0.004 | NP (normality) |
| Molybdenum (mg/L) | MW-8 | 0.0129 | 0.00031 | 0.1 | No | 8 | 0.005529 | 0.005636 | 37.5 | None | No | 0.004 | NP (normality) |
| Selenium (mg/L) | MW-5 | 0.01 | 0.00124 | 0.05 | No | 8 | 0.004927 | 0.004216 | 37.5 | None | No | 0.004 | NP (normality) |
| Selenium (mg/L) | MW-6 | 0.0019 | 0.001015 | 0.05 | No | 8 | 0.001126 | 0.0003129 | 87.5 | None | No | 0.004 | NP (NDs) |
| Selenium (mg/L) | MW-7 | 0.001015 | 0.000677 | 0.05 | No | 8 | 0.0009728 | 0.0001195 | 87.5 | None | No | 0.004 | NP (NDs) |
| Thallium (mg/L) | MW-5 | 0.000203 | 0.00007 | 0.002 | No | 8 | 0.0001864 | 0.00004702 | 87.5 | None | No | 0.004 | NP (NDs) |
| Thallium (mg/L) | MW-6 | 0.000203 | 0.00011 | 0.002 | No | 8 | 0.0001839 | 0.00003649 | 75 | None | No | 0.004 | NP (NDs) |

Parametric and Non-Parametric (NP) Confidence Interval

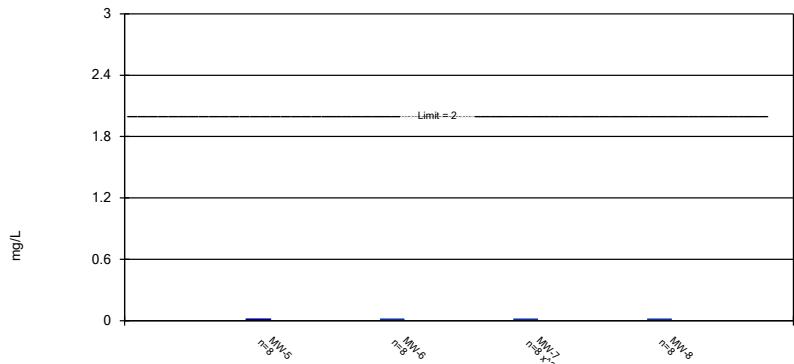
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 5/17/2023 2:45 PM View: Appendix IV
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Parametric Confidence Interval

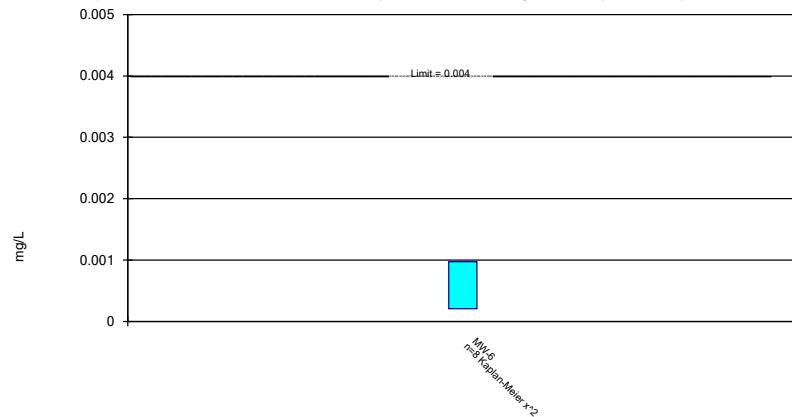
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 5/17/2023 2:45 PM View: Appendix IV
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Parametric Confidence Interval

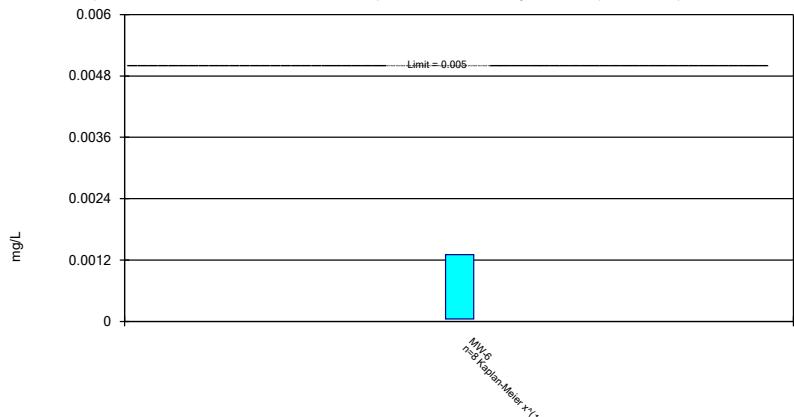
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



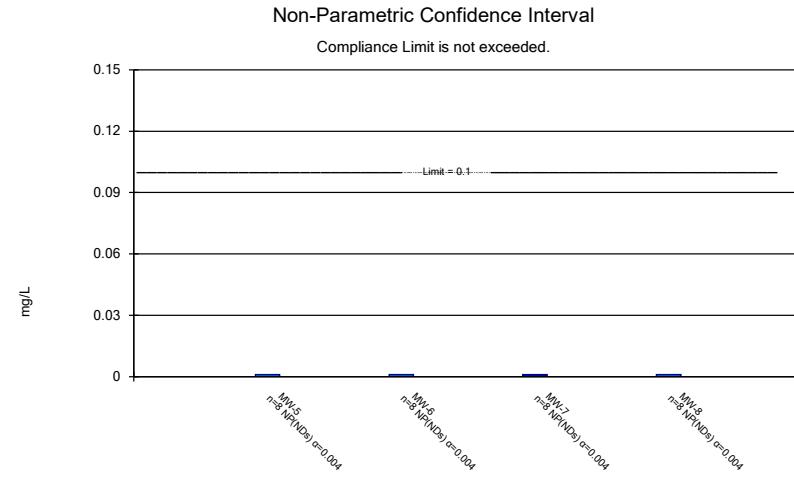
Constituent: Beryllium Analysis Run 5/17/2023 2:45 PM View: Appendix IV
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Parametric Confidence Interval

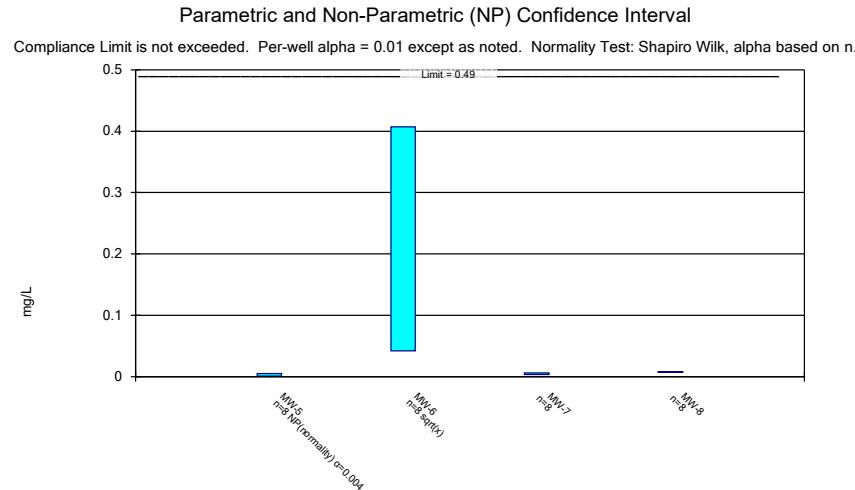
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



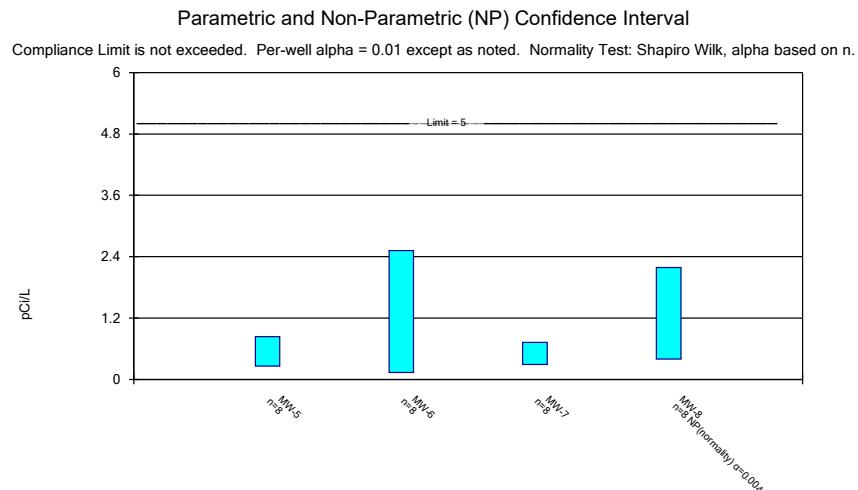
Constituent: Cadmium Analysis Run 5/17/2023 2:45 PM View: Appendix IV
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF



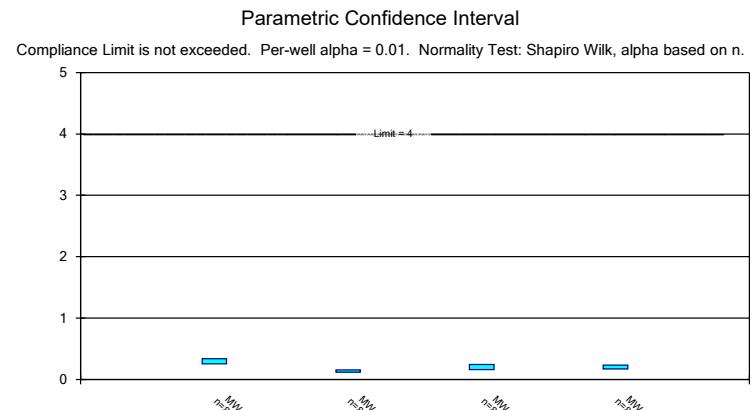
Constituent: Chromium Analysis Run 5/17/2023 2:45 PM View: Appendix IV
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF



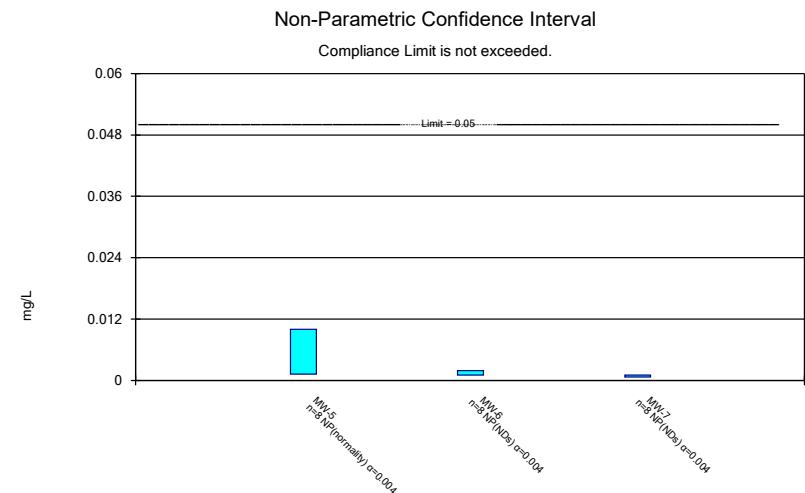
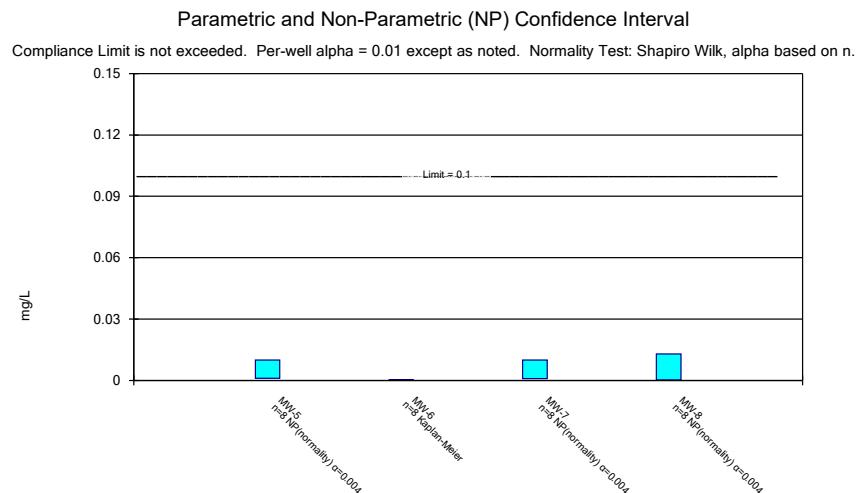
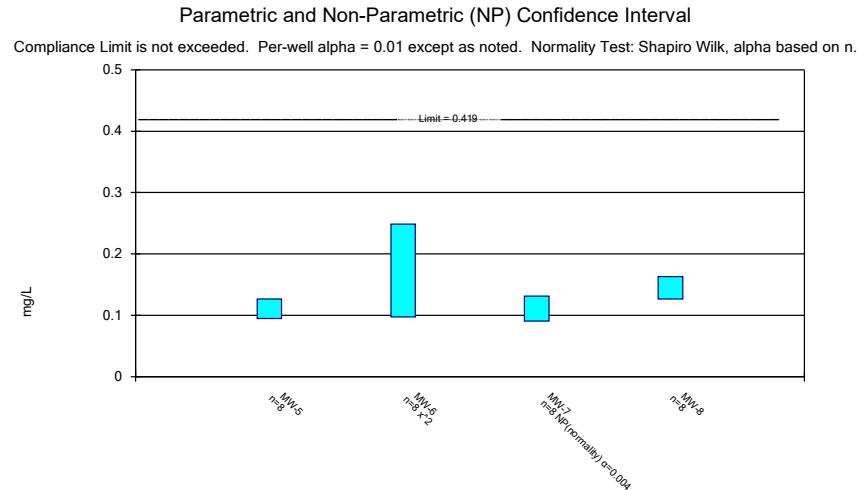
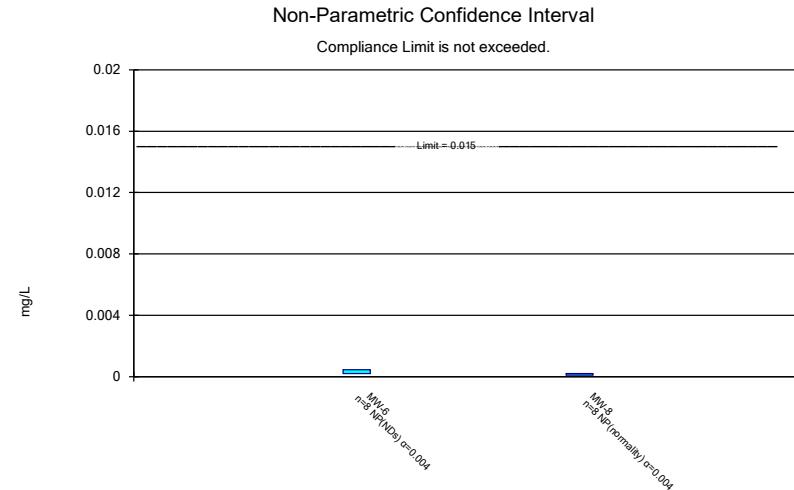
Constituent: Cobalt Analysis Run 5/17/2023 2:45 PM View: Appendix IV
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF



Constituent: Combined Radium 226 + 228 Analysis Run 5/17/2023 2:45 PM View: Appendix IV
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

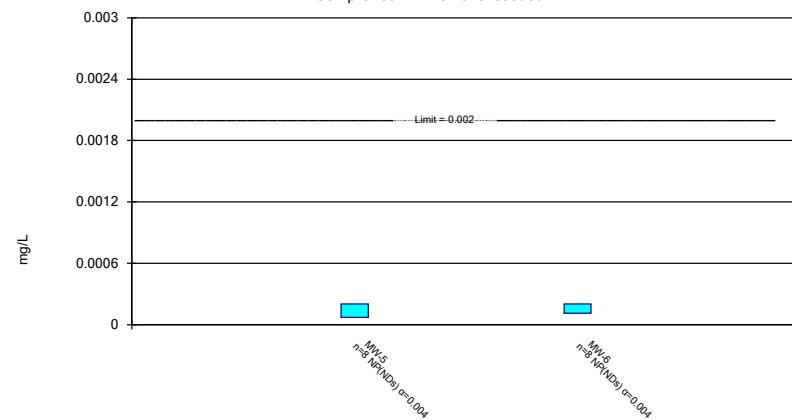


Constituent: Fluoride, total Analysis Run 5/17/2023 2:45 PM View: Appendix IV
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF



Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 5/17/2023 2:46 PM View: Appendix IV

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/17/2023 2:46 PM View: Appendix IV

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-5 | MW-6 | MW-7 | MW-8 |
|------------|-------------|-------------|-------------|-------------|
| 10/8/2019 | | | 0.00145 (J) | |
| 10/9/2019 | | | | 0.00142 (J) |
| 10/10/2019 | <0.005 | 0.00473 (J) | | |
| 4/7/2020 | 0.00163 (J) | | | |
| 4/8/2020 | | 0.00232 (J) | 0.00136 (J) | 0.00102 (J) |
| 7/14/2020 | <0.005 | 0.0048 (J) | 0.00147 (J) | |
| 7/15/2020 | | | | 0.00212 (J) |
| 2/23/2021 | 0.000309 | 0.00494 | 0.00141 | 0.00117 |
| 7/20/2021 | | 0.00475 | 0.00164 | 0.00111 |
| 7/21/2021 | 0.00046 | | | |
| 1/31/2022 | 0.00019 (J) | 0.00435 | 0.00156 | |
| 2/1/2022 | | | | 0.00131 |
| 7/6/2022 | 0.000225 | 0.00554 | 0.00164 | 0.00136 |
| 2/21/2023 | 0.000306 | | 0.00153 | 0.00119 |
| 2/22/2023 | | 0.00337 | | |
| Mean | 0.00164 | 0.00435 | 0.001508 | 0.001338 |
| Std. Dev. | 0.002126 | 0.001025 | 0.0001031 | 0.0003428 |
| Upper Lim. | 0.005 | 0.005436 | 0.001617 | 0.001656 |
| Lower Lim. | 0.00019 | 0.003264 | 0.001398 | 0.00103 |

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/17/2023 2:46 PM View: Appendix IV

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-5 | MW-6 | MW-7 | MW-8 |
|------------|----------|----------|-----------|-----------|
| 10/8/2019 | | | 0.0145 | |
| 10/9/2019 | | | | 0.0137 |
| 10/10/2019 | 0.0105 | 0.0152 | | |
| 4/7/2020 | 0.0137 | | | |
| 4/8/2020 | | 0.0128 | 0.0127 | 0.0137 |
| 7/14/2020 | 0.0124 | 0.0154 | 0.0148 | |
| 7/15/2020 | | | | 0.0143 |
| 2/23/2021 | 0.0116 | 0.0143 | 0.014 | 0.014 |
| 7/20/2021 | | 0.0143 | 0.0142 | 0.0141 |
| 7/21/2021 | 0.0116 | | | |
| 1/31/2022 | 0.0104 | 0.0125 | 0.0126 | |
| 2/1/2022 | | | | 0.0135 |
| 7/6/2022 | 0.0117 | 0.0144 | 0.0142 | 0.0146 |
| 2/21/2023 | 0.0121 | | 0.0141 | 0.0148 |
| 2/22/2023 | | 0.0136 | | |
| Mean | 0.01175 | 0.01406 | 0.01389 | 0.01409 |
| Std. Dev. | 0.001054 | 0.001039 | 0.0008043 | 0.0004581 |
| Upper Lim. | 0.01287 | 0.01516 | 0.0147 | 0.01457 |
| Lower Lim. | 0.01063 | 0.01296 | 0.01306 | 0.0136 |

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/17/2023 2:46 PM View: Appendix IV

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

MW-6

| | |
|------------|--------------|
| 10/10/2019 | <0.001015 |
| 4/8/2020 | 0.000788 (J) |
| 7/14/2020 | <0.001015 |
| 2/23/2021 | <0.001015 |
| 7/20/2021 | 0.00048 (J) |
| 1/31/2022 | 0.00044 (J) |
| 7/6/2022 | <0.001015 |
| 2/22/2023 | 0.00123 |
| Mean | 0.0008748 |
| Std. Dev. | 0.0002821 |
| Upper Lim. | 0.0009721 |
| Lower Lim. | 0.0002071 |

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/17/2023 2:46 PM View: Appendix IV
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| MW-6 | |
|------------|-------------|
| 10/10/2019 | <0.000203 |
| 4/8/2020 | 0.00204 |
| 7/14/2020 | <0.000203 |
| 2/23/2021 | <0.000203 |
| 7/20/2021 | 0.00058 |
| 1/31/2022 | 0.0005 |
| 7/6/2022 | 7.2E-05 (J) |
| 2/22/2023 | 0.00192 |
| Mean | 0.0007151 |
| Std. Dev. | 0.0007993 |
| Upper Lim. | 0.001305 |
| Lower Lim. | 4.582E-05 |

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/17/2023 2:46 PM View: Appendix IV

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-5 | MW-6 | MW-7 | MW-8 |
|------------|-------------|--------------|-------------|-------------|
| 10/8/2019 | | | <0.001015 | |
| 10/9/2019 | | | | <0.001015 |
| 10/10/2019 | <0.001015 | <0.00102 | | |
| 4/7/2020 | <0.001015 | | | |
| 4/8/2020 | | <0.00102 | <0.001015 | <0.001015 |
| 7/14/2020 | <0.001015 | <0.00102 | <0.001015 | |
| 7/15/2020 | | | | <0.001015 |
| 2/23/2021 | <0.001015 | <0.00102 | <0.001015 | <0.001015 |
| 7/20/2021 | | <0.00102 | <0.001015 | <0.001015 |
| 7/21/2021 | <0.001015 | | | |
| 1/31/2022 | 0.00027 (J) | 0.00024 (J) | 0.00032 (J) | |
| 2/1/2022 | | | | 0.00025 (J) |
| 7/6/2022 | <0.001015 | 0.000284 (J) | <0.001015 | <0.001015 |
| 2/21/2023 | <0.001015 | | <0.001015 | <0.001015 |
| 2/22/2023 | | 0.000301 (J) | | |
| Mean | 0.0009219 | 0.0007406 | 0.0009281 | 0.0009194 |
| Std. Dev. | 0.0002634 | 0.0003859 | 0.0002457 | 0.0002705 |
| Upper Lim. | 0.001015 | 0.00102 | 0.001015 | 0.001015 |
| Lower Lim. | 0.00027 | 0.00024 | 0.00032 | 0.00025 |

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/17/2023 2:46 PM View: Appendix IV

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-5 | MW-6 | MW-7 | MW-8 |
|------------|----------|---------|-------------|----------|
| 10/8/2019 | | | 0.00408 (J) | |
| 10/9/2019 | | | | 0.00864 |
| 10/10/2019 | <0.005 | 0.0425 | | |
| 4/7/2020 | <0.005 | | | |
| 4/8/2020 | | 0.479 | 0.00394 (J) | 0.00762 |
| 7/14/2020 | <0.005 | 0.0916 | 0.00653 | |
| 7/15/2020 | | | | 0.00821 |
| 2/23/2021 | 0.00102 | 0.0771 | 0.00294 | 0.00796 |
| 7/20/2021 | | 0.216 | 0.00561 | 0.00714 |
| 7/21/2021 | 0.00127 | | | |
| 1/31/2022 | 0.00094 | 0.174 | 0.00546 | |
| 2/1/2022 | | | | 0.0075 |
| 7/6/2022 | 0.000538 | 0.0675 | 0.0059 | 0.00701 |
| 2/21/2023 | 0.00091 | | 0.0043 | 0.00682 |
| 2/22/2023 | | 0.567 | | |
| Mean | 0.00246 | 0.2143 | 0.004845 | 0.007613 |
| Std. Dev. | 0.002113 | 0.2004 | 0.00121 | 0.000628 |
| Upper Lim. | 0.005 | 0.4074 | 0.006127 | 0.008278 |
| Lower Lim. | 0.000538 | 0.04205 | 0.003563 | 0.006947 |

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/17/2023 2:46 PM View: Appendix IV
Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-5 | MW-6 | MW-7 | MW-8 |
|------------|------------|-----------|-----------|-----------|
| 10/8/2019 | | | 0.345 (U) | |
| 10/9/2019 | | | | 0.416 (U) |
| 10/10/2019 | 0.811 (U) | 1.71 | | |
| 4/7/2020 | 0.48 (U) | | | |
| 4/8/2020 | | 0.179 (U) | 0.237 (U) | 1.38 (U) |
| 7/14/2020 | 0.521 | 0.578 | 0.434 | |
| 7/15/2020 | | | | 0.398 (U) |
| 2/23/2021 | 0.71 (U) | 1.15 (U) | 0.696 (U) | 0.685 (U) |
| 7/20/2021 | | 1.32 | 0.356 (U) | 0.42 (U) |
| 7/21/2021 | 0.79 (U) | | | |
| 1/31/2022 | 0.0523 (U) | 0.374 (U) | 0.473 (U) | |
| 2/1/2022 | | | | 0.643 (U) |
| 7/6/2022 | 0.747 (U) | 1.56 | 0.716 (U) | 0.415 (U) |
| 2/21/2023 | 0.275 (U) | | 0.789 (U) | 2.19 |
| 2/22/2023 | | 3.75 | | |
| Mean | 0.5483 | 1.328 | 0.5058 | 0.8184 |
| Std. Dev. | 0.2723 | 1.127 | 0.2026 | 0.6442 |
| Upper Lim. | 0.8369 | 2.522 | 0.7205 | 2.19 |
| Lower Lim. | 0.2596 | 0.1331 | 0.291 | 0.398 |

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 5/17/2023 2:46 PM View: Appendix IV

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-5 | MW-6 | MW-7 | MW-8 |
|------------|--------|----------|---------|---------|
| 5/15/2019 | | 0.133 | | |
| 10/8/2019 | | | 0.183 | |
| 10/9/2019 | | | | 0.189 |
| 10/10/2019 | 0.338 | 0.124 | | |
| 4/7/2020 | 0.225 | | | |
| 4/8/2020 | | <0.1 (o) | 0.153 | 0.192 |
| 7/14/2020 | 0.263 | 0.115 | 0.193 | |
| 7/15/2020 | | | | 0.196 |
| 2/23/2021 | 0.287 | 0.139 | 0.2 | 0.208 |
| 7/20/2021 | | 0.131 | 0.286 | 0.262 |
| 7/21/2021 | 0.331 | | | |
| 1/31/2022 | 0.291 | 0.121 | 0.173 | |
| 2/1/2022 | | | | 0.177 |
| 7/6/2022 | 0.306 | 0.147 | 0.208 | 0.173 |
| 2/21/2023 | 0.319 | | 0.216 | 0.212 |
| 2/22/2023 | | 0.173 | | |
| Mean | 0.295 | 0.1354 | 0.2015 | 0.2011 |
| Std. Dev. | 0.0375 | 0.01828 | 0.03959 | 0.02803 |
| Upper Lim. | 0.3348 | 0.1548 | 0.2435 | 0.2308 |
| Lower Lim. | 0.2552 | 0.116 | 0.1595 | 0.1714 |

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/17/2023 2:46 PM View: Appendix IV

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-6 | MW-8 |
|------------|-----------|--------------|
| 10/9/2019 | | <0.000203 |
| 10/10/2019 | <0.0002 | |
| 4/8/2020 | <0.0002 | <0.000203 |
| 7/14/2020 | <0.0002 | |
| 7/15/2020 | | <0.000203 |
| 2/23/2021 | <0.0002 | <0.000203 |
| 7/20/2021 | <0.0002 | 9E-05 (J) |
| 1/31/2022 | <0.0002 | |
| 2/1/2022 | | 9E-05 (J) |
| 7/6/2022 | 0.000232 | 0.000109 (J) |
| 2/21/2023 | | 8.8E-05 (J) |
| 2/22/2023 | 0.000457 | |
| Mean | 0.0002361 | 0.0001486 |
| Std. Dev. | 8.995E-05 | 5.849E-05 |
| Upper Lim. | 0.000457 | 0.000203 |
| Lower Lim. | 0.0002 | 8.8E-05 |

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/17/2023 2:46 PM View: Appendix IV

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-5 | MW-6 | MW-7 | MW-8 |
|------------|---------|---------|---------|---------|
| 10/8/2019 | | | 0.131 | |
| 10/9/2019 | | | | 0.163 |
| 10/10/2019 | 0.0981 | 0.251 | | |
| 4/7/2020 | 0.133 | | | |
| 4/8/2020 | | 0.0489 | 0.117 | 0.149 |
| 7/14/2020 | 0.11 | 0.223 | 0.103 | |
| 7/15/2020 | | | | 0.152 |
| 2/23/2021 | 0.133 | 0.253 | 0.131 | 0.166 |
| 7/20/2021 | | 0.18 | 0.096 | 0.151 |
| 7/21/2021 | 0.113 | | | |
| 1/31/2022 | 0.0932 | 0.161 | 0.0907 | |
| 2/1/2022 | | | | 0.124 |
| 7/6/2022 | 0.101 | 0.216 | 0.0926 | 0.132 |
| 2/21/2023 | 0.104 | | 0.0932 | 0.12 |
| 2/22/2023 | | 0.0329 | | |
| Mean | 0.1107 | 0.1707 | 0.1068 | 0.1446 |
| Std. Dev. | 0.01514 | 0.0862 | 0.01712 | 0.01732 |
| Upper Lim. | 0.1267 | 0.2487 | 0.131 | 0.163 |
| Lower Lim. | 0.09462 | 0.09719 | 0.0907 | 0.1263 |

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/17/2023 2:46 PM View: Appendix IV
 Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-5 | MW-6 | MW-7 | MW-8 |
|------------|----------|-----------|----------|----------|
| 10/8/2019 | | | <0.01 | |
| 10/9/2019 | | | | <0.01 |
| 10/10/2019 | <0.01 | <0.000203 | | |
| 4/7/2020 | <0.01 | | | |
| 4/8/2020 | | <0.000203 | <0.01 | <0.01 |
| 7/14/2020 | <0.01 | <0.000203 | <0.01 | |
| 7/15/2020 | | | | <0.01 |
| 2/23/2021 | 0.0014 | 0.000285 | 0.00107 | 0.0129 |
| 7/20/2021 | | 7E-05 (J) | 0.00086 | 0.00033 |
| 7/21/2021 | 0.00126 | | | |
| 1/31/2022 | 0.00126 | 7E-05 (J) | 0.00093 | |
| 2/1/2022 | | | | 0.00031 |
| 7/6/2022 | 0.00104 | 0.000316 | 0.000846 | 0.000351 |
| 2/21/2023 | 0.000945 | | 0.00103 | 0.000338 |
| 2/22/2023 | | <0.000203 | | |
| Mean | 0.004488 | 0.0001941 | 0.004342 | 0.005529 |
| Std. Dev. | 0.004566 | 8.803E-05 | 0.004686 | 0.005636 |
| Upper Lim. | 0.01 | 0.0002823 | 0.01 | 0.0129 |
| Lower Lim. | 0.000945 | 4.206E-05 | 0.000846 | 0.00031 |

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/17/2023 2:46 PM View: Appendix IV

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-5 | MW-6 | MW-7 |
|------------|----------|-----------|--------------|
| 10/8/2019 | | | <0.001015 |
| 10/10/2019 | <0.01 | <0.001015 | |
| 4/7/2020 | <0.01 | | |
| 4/8/2020 | | <0.001015 | <0.001015 |
| 7/14/2020 | <0.01 | <0.001015 | <0.001015 |
| 2/23/2021 | 0.00233 | <0.001015 | <0.001015 |
| 7/20/2021 | | <0.001015 | <0.001015 |
| 7/21/2021 | 0.00178 | | |
| 1/31/2022 | 0.00237 | <0.001015 | <0.001015 |
| 7/6/2022 | 0.0017 | <0.001015 | 0.000677 (J) |
| 2/21/2023 | 0.00124 | | <0.001015 |
| 2/22/2023 | | 0.0019 | |
| Mean | 0.004927 | 0.001126 | 0.0009728 |
| Std. Dev. | 0.004216 | 0.0003129 | 0.0001195 |
| Upper Lim. | 0.01 | 0.0019 | 0.001015 |
| Lower Lim. | 0.00124 | 0.001015 | 0.000677 |

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 5/17/2023 2:46 PM View: Appendix IV

Plant Gorgas Client: Southern Company Data: Gorgas CCR LF

| | MW-5 | MW-6 |
|------------|-----------|--------------|
| 10/10/2019 | <0.000203 | <0.000203 |
| 4/7/2020 | <0.000203 | |
| 4/8/2020 | | <0.000203 |
| 7/14/2020 | <0.000203 | <0.000203 |
| 2/23/2021 | <0.000203 | <0.000203 |
| 7/20/2021 | | <0.000203 |
| 7/21/2021 | <0.000203 | |
| 1/31/2022 | 7E-05 (J) | 0.00011 (J) |
| 7/6/2022 | <0.000203 | <0.000203 |
| 2/21/2023 | <0.000203 | |
| 2/22/2023 | | 0.000143 (J) |
| Mean | 0.0001864 | 0.0001839 |
| Std. Dev. | 4.702E-05 | 3.649E-05 |
| Upper Lim. | 0.000203 | 0.000203 |
| Lower Lim. | 7E-05 | 0.00011 |